SUPPLEMENTAL SITE INVESTIGATION REPORT

FORMER GORHAM MANUFACTURING FACILITY 333 ADELAIDE AVENUE PROVIDENCE, RHODE ISLAND

Prepared for:

Textron, Inc.
40 Westminster Street
Providence, Rhode Island 02903

Prepared by:

MACTEC Engineering and Consulting, Inc.
107 Audubon Road
Wakefield, Massachusetts 01880

July 31, 2006

Volume IV of IV

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Volume IV of IV

APPENDIX E

Laboratory Reports

Volume IV of IV

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

PROJECT NARRATIVE

Chris Ricardi
MACTEC Engineering & Consulting, Inc.
32 Daniel Webster Highway Ste 25
Merrimack, NH 03054

RE: Providence Gorham Site
ESS Laboratory Work Order Number: 0606374

This signed Certificate of Analysis is our approved release of your analytical results. Beginning with this Project Narrative, the entire report has been paginated. The ESS Laboratory Certifications sheet is the final report page. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

Date: July 25, 2006

Sample Receipt
16 Soil samples were received on June 22, 2006 for the analyses specified on the enclosed Chain of Custody Record.

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC, except where noted within this project narrative.

Metals Analysis
ESS Laboratory utilized the established linear dynamic range to determine acceptable analytical results.
The batch duplicate was outside of the recommended range for Copper due to matrix interferences.
The batch Matrix Spike was outside of the recommended range for Antimony. This analyte was below the lower control limit.
The batch Matrix Spike/Matrix Spike Duplicate was outside of the recommended range for Mercury due to matrix interferences. This analyte exceeds the upper control limit.

Volatile Organics Analysis
Blank Spike was outside of the recommended range for 1,4-Dioxane – Screen. This analyte exceeds the upper control limit, however, samples were non detect for this analyte.

Low Level
Blank Spike was outside of the recommended range for Chloroethane. This analyte was below the lower control limit.
Internal standard recoveries were outside of the recommended ranges for samples 0607374-09 and 0607374-12 due to matrix interferences.

Polynuclear Aromatic Hydrocarbon Analysis SIMS
Surrogate recovery was outside of the recommended range for sample 0607374-02.

No other observations noted.

End of Project Narrative.
mlp

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Metals
Data Package

Metals
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1301
Date Sampled: 06/22/06 11:30
Percent Solids: 80

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-01
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.7	6010B	1	JP	06/23/06	1.86	100
Arsenic	**11.5**	mg/kg dry	1.7	7060A	5	JP	06/29/06	1.86	100
Barium	**11.5**	mg/kg dry	3.4	6010B	1	JP	06/23/06	1.86	100
Beryllium	ND	mg/kg dry	0.07	6010B	1	JP	06/23/06	1.86	100
Cadmium	ND	mg/kg dry	0.67	6010B	1	JP	06/23/06	1.86	100
Chromium	**4.7**	mg/kg dry	1.3	6010B	1	JP	06/23/06	1.86	100
Copper	**5.3**	mg/kg dry	1.3	6010B	1	JP	06/23/06	1.86	100
Lead	ND	mg/kg dry	6.7	6010B	1	JP	06/23/06	1.86	100
Mercury	ND	mg/kg dry	0.040	7471A	1	JP	06/24/06	0.62	40
Nickel	**22.5**	mg/kg dry	3.4	6010B	1	JP	06/23/06	1.86	100
Selenium	ND	mg/kg dry	6.7	6010B	1	JP	06/23/06	1.86	100
Silver	ND	mg/kg dry	0.67	6010B	1	JP	06/23/06	1.86	100
Thallium	ND	mg/kg dry	1.7	7841	5	JP	06/29/06	1.86	100
Zinc	**41.4**	mg/kg dry	3.4	6010B	1	JP	06/23/06	1.86	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1303
Date Sampled: 06/22/06 11:50
Percent Solids: 80

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-02
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.9	6010B	1	JP	06/23/06	1.81	100
Arsenic	**5.3**	mg/kg dry	1.7	7060A	5	JP	06/29/06	1.81	100
Barium	**10.5**	mg/kg dry	3.4	6010B	1	JP	06/23/06	1.81	100
Beryllium	**0.14**	mg/kg dry	0.07	6010B	1	JP	06/23/06	1.81	100
Cadmium	ND	mg/kg dry	0.69	6010B	1	JP	06/23/06	1.81	100
Chromium	**3.5**	mg/kg dry	1.4	6010B	1	JP	06/23/06	1.81	100
Copper	**5.3**	mg/kg dry	1.4	6010B	1	JP	06/23/06	1.81	100
Lead	ND	mg/kg dry	6.9	6010B	1	JP	06/23/06	1.81	100
Mercury	ND	mg/kg dry	0.037	7471A	1	JP	06/24/06	0.67	40
Nickel	**8.9**	mg/kg dry	3.4	6010B	1	JP	06/23/06	1.81	100
Selenium	ND	mg/kg dry	6.9	6010B	1	JP	06/23/06	1.81	100
Silver	ND	mg/kg dry	0.69	6010B	1	JP	06/23/06	1.81	100
Thallium	ND	mg/kg dry	1.7	7841	5	JP	06/29/06	1.81	100
Zinc	**20.9**	mg/kg dry	3.4	6010B	1	JP	06/23/06	1.81	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1401
Date Sampled: 06/22/06 12:10
Percent Solids: 26

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-03
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte		Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony		ND	mg/kg dry	15.1	6010B	1	JP	06/23/06	2.54	100
Arsenic	E	**44.6**	mg/kg dry	3.8	7060A	5	JP	06/29/06	2.54	100
Barium		**130**	mg/kg dry	7.6	6010B	1	JP	06/23/06	2.54	100
Beryllium		**0.35**	mg/kg dry	0.15	6010B	1	JP	06/23/06	2.54	100
Cadmium		**2.26**	mg/kg dry	1.51	6010B	1	JP	06/23/06	2.54	100
Chromium		**49.1**	mg/kg dry	3.0	6010B	1	JP	06/23/06	2.54	100
Copper		**215**	mg/kg dry	3.0	6010B	1	JP	06/23/06	2.54	100
Lead		**250**	mg/kg dry	15.1	6010B	1	JP	06/23/06	2.54	100
Mercury		ND	mg/kg dry	0.116	7471A	1	JP	06/24/06	0.66	40
Nickel		**31.4**	mg/kg dry	7.6	6010B	1	JP	06/23/06	2.54	100
Selenium		ND	mg/kg dry	15.1	6010B	1	JP	06/23/06	2.54	100
Silver		**18.5**	mg/kg dry	1.51	6010B	1	JP	06/23/06	2.54	100
Thallium		ND	mg/kg dry	3.8	7841	5	JP	06/29/06	2.54	100
Zinc		**363**	mg/kg dry	7.6	6010B	1	JP	06/23/06	2.54	100

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1401
Date Sampled: 06/22/06 12:10
Percent Solids: 26

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-03RE1
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Arsenic	47.6	mg/kg dry	11.3	7060A	15	JP	06/29/06	2.54	100

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1403
Date Sampled: 06/22/06 12:15
Percent Solids: 71

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-04
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	7.8	6010B	1	JP	06/23/06	1.8	100
Arsenic	**16.7**	mg/kg dry	2.0	7060A	5	JP	06/29/06	1.8	100
Barium	**18.5**	mg/kg dry	3.9	6010B	1	JP	06/23/06	1.8	100
Beryllium	**0.10**	mg/kg dry	0.08	6010B	1	JP	06/23/06	1.8	100
Cadmium	ND	mg/kg dry	0.78	6010B	1	JP	06/23/06	1.8	100
Chromium	**2.1**	mg/kg dry	1.6	6010B	1	JP	06/23/06	1.8	100
Copper	**2.1**	mg/kg dry	1.6	6010B	1	JP	06/23/06	1.8	100
Lead	ND	mg/kg dry	7.8	6010B	1	JP	06/23/06	1.8	100
Mercury	ND	mg/kg dry	0.045	7471A	1	JP	06/24/06	0.62	40
Nickel	ND	mg/kg dry	3.9	6010B	1	JP	06/23/06	1.8	100
Selenium	ND	mg/kg dry	7.8	6010B	1	JP	06/23/06	1.8	100
Silver	ND	mg/kg dry	0.78	6010B	1	JP	06/23/06	1.8	100
Thallium	ND	mg/kg dry	2.0	7841	5	JP	06/29/06	1.8	100
Zinc	**6.4**	mg/kg dry	3.9	6010B	1	JP	06/23/06	1.8	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1501
Date Sampled: 06/22/06 12:30
Percent Solids: 81

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-05
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.6	6010B	1	JP	06/23/06	1.87	100
Arsenic	**12.6**	mg/kg dry	1.6	7060A	5	JP	06/29/06	1.87	100
Barium	**9.7**	mg/kg dry	3.3	6010B	1	JP	06/23/06	1.87	100
Beryllium	ND	mg/kg dry	0.07	6010B	1	JP	06/23/06	1.87	100
Cadmium	ND	mg/kg dry	0.66	6010B	1	JP	06/23/06	1.87	100
Chromium	**2.9**	mg/kg dry	1.3	6010B	1	JP	06/23/06	1.87	100
Copper	**5.8**	mg/kg dry	1.3	6010B	1	JP	06/23/06	1.87	100
Lead	ND	mg/kg dry	6.6	6010B	1	JP	06/23/06	1.87	100
Mercury	ND	mg/kg dry	0.041	7471A	1	JP	06/24/06	0.6	40
Nickel	**6.8**	mg/kg dry	3.3	6010B	1	JP	06/23/06	1.87	100
Selenium	ND	mg/kg dry	6.6	6010B	1	JP	06/23/06	1.87	100
Silver	ND	mg/kg dry	0.66	6010B	1	JP	06/23/06	1.87	100
Thallium	ND	mg/kg dry	1.6	7841	5	JP	06/29/06	1.87	100
Zinc	**12.6**	mg/kg dry	3.3	6010B	1	JP	06/23/06	1.87	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1503
Date Sampled: 06/22/06 12:55
Percent Solids: 90

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-06
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.3	6010B	1	JP	06/24/06	1.76	100
Arsenic	ND	mg/kg dry	1.6	7060A	5	JP	06/29/06	1.76	100
Barium	**9.0**	mg/kg dry	3.2	6010B	1	JP	06/24/06	1.76	100
Beryllium	ND	mg/kg dry	0.06	6010B	1	JP	06/24/06	1.76	100
Cadmium	ND	mg/kg dry	0.63	6010B	1	JP	06/24/06	1.76	100
Chromium	**2.8**	mg/kg dry	1.3	6010B	1	JP	06/24/06	1.76	100
Copper	**4.2**	mg/kg dry	1.3	6010B	1	JP	06/24/06	1.76	100
Lead	ND	mg/kg dry	6.3	6010B	1	JP	06/24/06	1.76	100
Mercury	ND	mg/kg dry	0.037	7471A	1	JP	06/24/06	0.6	40
Nickel	**11.3**	mg/kg dry	3.2	6010B	1	JP	06/24/06	1.76	100
Selenium	ND	mg/kg dry	6.3	6010B	1	JP	06/24/06	1.76	100
Silver	ND	mg/kg dry	0.63	6010B	1	JP	06/24/06	1.76	100
Thallium	ND	mg/kg dry	1.6	7841	5	JP	06/29/06	1.76	100
Zinc	**21.3**	mg/kg dry	3.2	6010B	1	JP	06/24/06	1.76	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1601
Date Sampled: 06/22/06 13:15
Percent Solids: 14

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-07
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	22.6	6010B	1	JP	06/24/06	3.16	100
Arsenic	**20.0**	mg/kg dry	5.6	7060A	5	JP	06/29/06	3.16	100
Barium	**194**	mg/kg dry	11.3	6010B	1	JP	06/24/06	3.16	100
Beryllium	**0.60**	mg/kg dry	0.23	6010B	1	JP	06/24/06	3.16	100
Cadmium	**5.66**	mg/kg dry	2.26	6010B	1	JP	06/24/06	3.16	100
Chromium	**565**	mg/kg dry	4.5	6010B	1	JP	06/24/06	3.16	100
Copper	**2050**	mg/kg dry	4.5	6010B	1	JP	06/24/06	3.16	100
Lead	**763**	mg/kg dry	22.6	6010B	1	JP	06/24/06	3.16	100
Mercury	**0.162**	mg/kg dry	0.139	7471A	1	JP	06/24/06	1.03	40
Nickel	**130**	mg/kg dry	11.3	6010B	1	JP	06/24/06	3.16	100
Selenium	ND	mg/kg dry	22.6	6010B	1	JP	06/24/06	3.16	100
Silver	**164**	mg/kg dry	2.26	6010B	1	JP	06/24/06	3.16	100
Thallium	ND	mg/kg dry	5.6	7841	5	JP	06/29/06	3.16	100
Zinc	**1630**	mg/kg dry	11.3	6010B	1	JP	06/24/06	3.16	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1903
Date Sampled: 06/22/06 14:50
Percent Solids: 12

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-12RE1
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/
Arsenic	244	mg/kg dry	35.5	7060A	15	JP	06/29/06	1.76	1

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1603
Date Sampled: 06/22/06 13:30
Percent Solids: 80

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-08
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	7.1	6010B	1	JP	06/24/06	1.77	100
Arsenic	**6.4**	mg/kg dry	1.8	7060A	5	JP	06/29/06	1.77	100
Barium	**18.6**	mg/kg dry	3.5	6010B	1	JP	06/24/06	1.77	100
Beryllium	ND	mg/kg dry	0.07	6010B	1	JP	06/24/06	1.77	100
Cadmium	ND	mg/kg dry	0.71	6010B	1	JP	06/24/06	1.77	100
Chromium	**3.9**	mg/kg dry	1.4	6010B	1	JP	06/24/06	1.77	100
Copper	**3.7**	mg/kg dry	1.4	6010B	1	JP	06/24/06	1.77	100
Lead	ND	mg/kg dry	7.1	6010B	1	JP	06/24/06	1.77	100
Mercury	ND	mg/kg dry	0.039	7471A	1	JP	06/24/06	0.64	40
Nickel	**3.5**	mg/kg dry	3.5	6010B	1	JP	06/24/06	1.77	100
Selenium	ND	mg/kg dry	7.1	6010B	1	JP	06/24/06	1.77	100
Silver	ND	mg/kg dry	0.71	6010B	1	JP	06/24/06	1.77	100
Thallium	ND	mg/kg dry	1.8	7841	5	JP	06/29/06	1.77	100
Zinc	**10.8**	mg/kg dry	3.5	6010B	1	JP	06/24/06	1.77	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1801
Date Sampled: 06/22/06 14:00
Percent Solids: 13

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-09
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F
Antimony	ND	mg/kg dry	25.7	6010B	1	JP	06/24/06	2.99	1
Arsenic	**22.2**	mg/kg dry	6.4	7060A	5	JP	06/29/06	2.99	1
Barium	**278**	mg/kg dry	12.9	6010B	1	JP	06/24/06	2.99	1
Beryllium	**0.72**	mg/kg dry	0.26	6010B	1	JP	06/24/06	2.99	1
Cadmium	**6.90**	mg/kg dry	2.57	6010B	1	JP	06/24/06	2.99	1
Chromium	**640**	mg/kg dry	5.1	6010B	1	JP	06/24/06	2.99	1
Copper	**2590**	mg/kg dry	5.1	6010B	1	JP	06/24/06	2.99	1
Lead	**961**	mg/kg dry	25.7	6010B	1	JP	06/24/06	2.99	1
Mercury	**0.163**	mg/kg dry	0.148	7471A	1	JP	06/24/06	1.04	
Nickel	**157**	mg/kg dry	12.9	6010B	1	JP	06/24/06	2.99	1
Selenium	ND	mg/kg dry	25.7	6010B	1	JP	06/24/06	2.99	1
Silver	**227**	mg/kg dry	2.57	6010B	1	JP	06/24/06	2.99	1
Thallium	ND	mg/kg dry	6.4	7841	5	JP	06/29/06	2.99	1
Zinc	**1940**	mg/kg dry	12.9	6010B	1	JP	06/24/06	2.99	1

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1804
Date Sampled: 06/22/06 14:20
Percent Solids: 17

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-10
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	32.3	6010B	1	JP	06/24/06	1.82	100
Arsenic	**18.2**	mg/kg dry	8.1	7060A	5	JP	06/29/06	1.82	100
Barium	**18.7**	mg/kg dry	16.1	6010B	1	JP	06/24/06	1.82	100
Beryllium	ND	mg/kg dry	0.32	6010B	1	JP	06/24/06	1.82	100
Cadmium	ND	mg/kg dry	3.23	6010B	1	JP	06/24/06	1.82	100
Chromium	**10.3**	mg/kg dry	6.4	6010B	1	JP	06/24/06	1.82	100
Copper	**13.0**	mg/kg dry	6.4	6010B	1	JP	06/24/06	1.82	100
Lead	ND	mg/kg dry	32.3	6010B	1	JP	06/24/06	1.82	100
Mercury	ND	mg/kg dry	0.196	7471A	1	JP	06/24/06	0.6	40
Nickel	**17.7**	mg/kg dry	16.1	6010B	1	JP	06/24/06	1.82	100
Selenium	ND	mg/kg dry	32.3	6010B	1	JP	06/24/06	1.82	100
Silver	ND	mg/kg dry	3.23	6010B	1	JP	06/24/06	1.82	100
Thallium	ND	mg/kg dry	8.1	7841	5	JP	06/29/06	1.82	100
Zinc	**27.9**	mg/kg dry	16.1	6010B	1	JP	06/24/06	1.82	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1901
Date Sampled: 06/22/06 14:35
Percent Solids: 21

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-11
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	23.6	6010B	1	JP	06/24/06	2.02	100
Arsenic	**36.0**	mg/kg dry	5.9	7060A	5	JP	06/29/06	2.02	100
Barium	**224**	mg/kg dry	11.8	6010B	1	JP	06/24/06	2.02	100
Beryllium	**1.03**	mg/kg dry	0.24	6010B	1	JP	06/24/06	2.02	100
Cadmium	**7.11**	mg/kg dry	2.36	6010B	1	JP	06/24/06	2.02	100
Chromium	**387**	mg/kg dry	4.7	6010B	1	JP	06/24/06	2.02	100
Copper	**1880**	mg/kg dry	4.7	6010B	1	JP	06/24/06	2.02	100
Lead	**927**	mg/kg dry	23.6	6010B	1	JP	06/24/06	2.02	100
Mercury	**2.52**	mg/kg dry	0.127	7471A	1	JP	06/24/06	0.75	40
Nickel	**433**	mg/kg dry	11.8	6010B	1	JP	06/24/06	2.02	100
Selenium	ND	mg/kg dry	23.6	6010B	1	JP	06/24/06	2.02	100
Silver	**192**	mg/kg dry	2.36	6010B	1	JP	06/24/06	2.02	100
Thallium	ND	mg/kg dry	5.9	7841	5	JP	06/29/06	2.02	100
Zinc	**1830**	mg/kg dry	11.8	6010B	1	JP	06/24/06	2.02	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1903
Date Sampled: 06/22/06 14:50
Percent Solids: 12

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-12
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte		Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony		ND	mg/kg dry	47.4	6010B	1	JP	06/24/06	1.76	100
Arsenic	E	**262**	mg/kg dry	11.8	7060A	5	JP	06/29/06	1.76	100
Barium		**89.2**	mg/kg dry	23.7	6010B	1	JP	06/24/06	1.76	100
Beryllium		**0.52**	mg/kg dry	0.48	6010B	1	JP	06/24/06	1.76	100
Cadmium		**6.35**	mg/kg dry	4.74	6010B	1	JP	06/24/06	1.76	100
Chromium		**14.2**	mg/kg dry	9.4	6010B	1	JP	06/24/06	1.76	100
Copper		**33.0**	mg/kg dry	9.4	6010B	1	JP	06/24/06	1.76	100
Lead		ND	mg/kg dry	47.4	6010B	1	JP	06/24/06	1.76	100
Mercury		ND	mg/kg dry	0.269	7471A	1	JP	06/24/06	0.62	40
Nickel		**458**	mg/kg dry	23.7	6010B	1	JP	06/24/06	1.76	100
Selenium		ND	mg/kg dry	47.4	6010B	1	JP	06/24/06	1.76	100
Silver		**4.87**	mg/kg dry	4.74	6010B	1	JP	06/24/06	1.76	100
Thallium		ND	mg/kg dry	11.8	7841	5	JP	06/29/06	1.76	100
Zinc		**588**	mg/kg dry	23.7	6010B	1	JP	06/24/06	1.76	100

REVISED

JUL 25 2006

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2301
Date Sampled: 06/22/06 15:30
Percent Solids: 76

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-13
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V
Antimony	ND	mg/kg dry	7.4	6010B	1	JP	06/24/06	1.78
Arsenic	ND	mg/kg dry	1.8	7060A	5	JP	06/29/06	1.78
Barium	**13.1**	mg/kg dry	3.7	6010B	1	JP	06/24/06	1.78
Beryllium	ND	mg/kg dry	0.07	6010B	1	JP	06/24/06	1.78
Cadmium	ND	mg/kg dry	0.74	6010B	1	JP	06/24/06	1.78
Chromium	**333**	mg/kg dry	1.5	6010B	1	JP	06/24/06	1.78
Copper	**8.6**	mg/kg dry	1.5	6010B	1	JP	06/24/06	1.78
Lead	ND	mg/kg dry	7.4	6010B	1	JP	06/24/06	1.78
Mercury	ND	mg/kg dry	0.044	7471A	1	JP	06/24/06	0.6
Nickel	ND	mg/kg dry	3.7	6010B	1	JP	06/24/06	1.78
Selenium	ND	mg/kg dry	7.4	6010B	1	JP	06/24/06	1.78
Silver	ND	mg/kg dry	0.74	6010B	1	JP	06/24/06	1.78
Thallium	ND	mg/kg dry	1.8	7841	5	JP	06/29/06	1.78
Zinc	**9.5**	mg/kg dry	3.7	6010B	1	JP	06/24/06	1.78

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2303
Date Sampled: 06/22/06 15:40
Percent Solids: 78

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-14
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.6	6010B	1	JP	06/24/06	1.93	100
Arsenic	ND	mg/kg dry	1.7	7060A	5	JP	06/29/06	1.93	100
Barium	**7.8**	mg/kg dry	3.3	6010B	1	JP	06/24/06	1.93	100
Beryllium	ND	mg/kg dry	0.07	6010B	1	JP	06/24/06	1.93	100
Cadmium	ND	mg/kg dry	0.66	6010B	1	JP	06/24/06	1.93	100
Chromium	**73.5**	mg/kg dry	1.3	6010B	1	JP	06/24/06	1.93	100
Copper	**4.7**	mg/kg dry	1.3	6010B	1	JP	06/24/06	1.93	100
Lead	ND	mg/kg dry	6.6	6010B	1	JP	06/24/06	1.93	100
Mercury	ND	mg/kg dry	0.040	7471A	1	JP	06/24/06	0.64	40
Nickel	ND	mg/kg dry	3.3	6010B	1	JP	06/24/06	1.93	100
Selenium	ND	mg/kg dry	6.6	6010B	1	JP	06/24/06	1.93	100
Silver	ND	mg/kg dry	0.66	6010B	1	JP	06/24/06	1.93	100
Thallium	ND	mg/kg dry	1.7	7841	5	JP	06/29/06	1.93	100
Zinc	**7.9**	mg/kg dry	3.3	6010B	1	JP	06/24/06	1.93	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2101
Date Sampled: 06/22/06 15:00
Percent Solids: 73

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-15
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	7.4	6010B	1	JP	06/24/06	1.85	100
Arsenic	**2.1**	mg/kg dry	1.8	7060A	5	JP	06/29/06	1.85	100
Barium	**13.0**	mg/kg dry	3.7	6010B	1	JP	06/24/06	1.85	100
Beryllium	**0.14**	mg/kg dry	0.07	6010B	1	JP	06/24/06	1.85	100
Cadmium	ND	mg/kg dry	0.74	6010B	1	JP	06/24/06	1.85	100
Chromium	**7.1**	mg/kg dry	1.5	6010B	1	JP	06/24/06	1.85	100
Copper	**20.1**	mg/kg dry	1.5	6010B	1	JP	06/24/06	1.85	100
Lead	**12.2**	mg/kg dry	7.4	6010B	1	JP	06/24/06	1.85	100
Mercury	ND	mg/kg dry	0.043	7471A	1	JP	06/24/06	0.63	40
Nickel	**6.8**	mg/kg dry	3.7	6010B	1	JP	06/24/06	1.85	100
Selenium	ND	mg/kg dry	7.4	6010B	1	JP	06/24/06	1.85	100
Silver	**2.77**	mg/kg dry	0.74	6010B	1	JP	06/24/06	1.85	100
Thallium	ND	mg/kg dry	1.8	7841	5	JP	06/29/06	1.85	100
Zinc	**71.6**	mg/kg dry	3.7	6010B	1	JP	06/24/06	1.85	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2103
Date Sampled: 06/22/06 15:10
Percent Solids: 79

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-16
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.8	6010B	1	JP	06/24/06	1.86	100
Arsenic	ND	mg/kg dry	1.7	7060A	5	JP	06/29/06	1.86	100
Barium	**5.4**	mg/kg dry	3.4	6010B	1	JP	06/24/06	1.86	100
Beryllium	ND	mg/kg dry	0.07	6010B	1	JP	06/24/06	1.86	100
Cadmium	ND	mg/kg dry	0.68	6010B	1	JP	06/24/06	1.86	100
Chromium	**3.0**	mg/kg dry	1.4	6010B	1	JP	06/24/06	1.86	100
Copper	**2.3**	mg/kg dry	1.4	6010B	1	JP	06/24/06	1.86	100
Lead	ND	mg/kg dry	6.8	6010B	1	JP	06/24/06	1.86	100
Mercury	ND	mg/kg dry	0.039	7471A	1	JP	06/24/06	0.65	40
Nickel	ND	mg/kg dry	3.4	6010B	1	JP	06/24/06	1.86	100
Selenium	ND	mg/kg dry	6.8	6010B	1	JP	06/24/06	1.86	100
Silver	ND	mg/kg dry	0.68	6010B	1	JP	06/24/06	1.86	100
Thallium	ND	mg/kg dry	1.7	7841	5	JP	06/29/06	1.86	100
Zinc	**9.6**	mg/kg dry	3.4	6010B	1	JP	06/24/06	1.86	100

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Metals
Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch BF62320 - 3050B										
Blank										
Antimony	ND	6.7	mg/kg wet							
Arsenic	ND	0.3	mg/kg wet							
Barium	ND	3.3	mg/kg wet							
Beryllium	ND	0.07	mg/kg wet							
Cadmium	ND	0.67	mg/kg wet							
Chromium	ND	1.3	mg/kg wet							
Copper	ND	1.3	mg/kg wet							
Lead	ND	6.7	mg/kg wet							
Nickel	ND	3.3	mg/kg wet							
Selenium	ND	6.7	mg/kg wet							
Silver	ND	0.67	mg/kg wet							
Thallium	ND	0.3	mg/kg wet							
Zinc	ND	3.3	mg/kg wet							
LCS										
Antimony	29.6	6.7	mg/kg wet	33.3		89	80-120			
Arsenic	29.8	6.7	mg/kg wet	33.3		89	80-120			
Barium	32.6	3.3	mg/kg wet	33.3		98	80-120			
Beryllium	3.16	0.07	mg/kg wet	3.33		95	80-120			
Cadmium	16.0	0.67	mg/kg wet	16.7		96	80-120			
Chromium	33.5	1.3	mg/kg wet	33.3		101	80-120			
Copper	34.0	1.3	mg/kg wet	33.3		102	80-120			
Lead	31.6	6.7	mg/kg wet	33.3		95	80-120			
Nickel	34.1	3.3	mg/kg wet	33.3		102	80-120			
Selenium	62.0	6.7	mg/kg wet	66.7		93	80-120			
Silver	16.2	0.67	mg/kg wet	16.7		97	80-120			
Thallium	33.5	6.7	mg/kg wet	33.3		101	80-120			
Zinc	32.0	3.3	mg/kg wet	33.3		96	80-120			
LCS Dup										
Antimony	29.6	6.7	mg/kg wet	33.3		89	80-120	0	20	
Arsenic	31.9	6.7	mg/kg wet	33.3		96	80-120	7	20	
Barium	32.1	3.3	mg/kg wet	33.3		96	80-120	2	20	
Beryllium	3.16	0.07	mg/kg wet	3.33		95	80-120	0	20	
Cadmium	15.7	0.67	mg/kg wet	16.7		94	80-120	2	20	
Chromium	32.9	1.3	mg/kg wet	33.3		99	80-120	2	20	
Copper	33.2	1.3	mg/kg wet	33.3		100	80-120	2	20	
Lead	31.4	6.7	mg/kg wet	33.3		94	80-120	0.6	20	
Nickel	33.0	3.3	mg/kg wet	33.3		99	80-120	3	20	
Selenium	60.4	6.7	mg/kg wet	66.7		91	80-120	2	20	
Silver	16.0	0.67	mg/kg wet	16.7		96	80-120	1	20	
Thallium	35.9	6.7	mg/kg wet	33.3		108	80-120	7	20	
Zinc	31.3	3.3	mg/kg wet	33.3		94	80-120	2	20	
Duplicate **Source: 0606374-10**										
Antimony	ND	33.1	mg/kg dry		ND				35	
Arsenic	21.6	8.3	mg/kg dry		18.2			17	35	
Barium	21.2	16.5	mg/kg dry		18.7			13	35	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch BF62320 - 3050B										
Beryllium	0.074	0.33	mg/kg dry		0.06			21	35	
Cadmium	0.880	3.31	mg/kg dry		0.76			15	35	
Chromium	12.2	6.6	mg/kg dry		10.3			17	35	
Copper	19.6	6.6	mg/kg dry		13.0			40	35	+
Lead	9.48	33.1	mg/kg dry		5.4			55	35	
Nickel	19.3	16.5	mg/kg dry		17.7			9	35	
Selenium	ND	33.1	mg/kg dry		3.0			200	35	
Silver	1.38	3.31	mg/kg dry		1.23			11	35	
Thallium	ND	8.3	mg/kg dry		ND				35	
Zinc	31.6	16.5	mg/kg dry		27.9			12	35	
Duplicate **Source: 0606374-14**										
Antimony	ND	7.2	mg/kg dry		ND				35	
Arsenic	0.7	1.8	mg/kg dry		0.8			13	35	
Barium	7.01	3.6	mg/kg dry		7.8			11	35	
Beryllium	0.034	0.07	mg/kg dry		0.03			13	35	
Cadmium	0.066	0.72	mg/kg dry		0.09			31	35	
Chromium	70.9	1.4	mg/kg dry		73.5			4	35	
Copper	3.91	1.4	mg/kg dry		4.7			18	35	
Lead	1.13	7.2	mg/kg dry		1.3			14	35	
Nickel	3.14	3.6	mg/kg dry		2.7			15	35	
Selenium	0.621	7.2	mg/kg dry		ND				35	
Silver	0.099	0.72	mg/kg dry		0.07			34	35	
Thallium	ND	1.8	mg/kg dry		ND				35	
Zinc	8.28	3.6	mg/kg dry		7.9			5	35	
Matrix Spike **Source: 0606374-10**										
Antimony	107	31.0	mg/kg dry	155	ND	69	75-125			+
Arsenic	157	30.9	mg/kg dry	155	18.2	90	75-125			
Barium	166	15.5	mg/kg dry	155	18.7	95	75-125			
Beryllium	13.9	0.31	mg/kg dry	15.5	0.06	89	75-125			
Cadmium	68.3	3.10	mg/kg dry	77.4	0.76	87	75-125			
Chromium	157	6.2	mg/kg dry	155	10.3	95	75-125			
Copper	171	6.2	mg/kg dry	155	13.0	102	75-125			
Lead	149	31.0	mg/kg dry	155	5.4	93	75-125			
Nickel	162	15.5	mg/kg dry	155	17.7	93	75-125			
Selenium	268	31.0	mg/kg dry	310	3.0	85	75-125			
Silver	71.1	3.10	mg/kg dry	77.4	1.23	90	75-125			
Thallium	153	30.9	mg/kg dry	155	ND	99	75-125			
Zinc	176	15.5	mg/kg dry	155	27.9	96	75-125			
Matrix Spike **Source: 0606374-14**										
Antimony	26.9	7.2	mg/kg dry	36.2	ND	74	75-125			+
Arsenic	31.9	7.2	mg/kg dry	36.2	0.8	86	75-125			
Barium	42.5	3.6	mg/kg dry	36.2	7.8	96	75-125			
Beryllium	3.15	0.07	mg/kg dry	3.62	0.03	86	75-125			
Cadmium	15.5	0.72	mg/kg dry	18.1	0.09	85	75-125			
Chromium	104	1.4	mg/kg dry	36.2	73.5	84	75-125			
Copper	35.4	1.4	mg/kg dry	36.2	4.7	85	75-125			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch BF62320 - 3050B										
Lead	32.1	7.2	mg/kg dry	36.2	1.3	85	75-125			
Nickel	34.9	3.6	mg/kg dry	36.2	2.7	89	75-125			
Selenium	61.4	7.2	mg/kg dry	72.4	ND	85	75-125			
Silver	15.8	0.72	mg/kg dry	18.1	0.07	87	75-125			
Thallium	34.5	7.2	mg/kg dry	36.2	ND	95	75-125			
Zinc	39.8	3.6	mg/kg dry	36.2	7.9	88	75-125			
Reference										
Antimony	71.0	10.0	mg/kg wet	86.2		82	0-222.74			
Arsenic	144	25.0	mg/kg wet	146		99	79.45-120.55			
Barium	313	5.0	mg/kg wet	351		89	82.05-117.95			
Beryllium	55.5	0.10	mg/kg wet	62.2		89	81.99-118.01			
Cadmium	79.2	1.00	mg/kg wet	91.9		86	81.5-118.61			
Chromium	157	2.0	mg/kg wet	176		89	78.41-121.59			
Copper	63.5	2.0	mg/kg wet	70.0		91	82.14-118			
Lead	58.2	10.0	mg/kg wet	68.1		85	80.62-119.38			
Nickel	76.2	5.0	mg/kg wet	84.0		91	81.55-118.45			
Selenium	64.9	10.0	mg/kg wet	73.0		89	75.48-124.38			
Silver	85.0	1.00	mg/kg wet	93.0		91	61.29-138.71			
Thallium	88.3	25.0	mg/kg wet	77.8		113	75.58-124.42			
Zinc	346	5.0	mg/kg wet	402		86	79.35-120.65			
Batch BF62321 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	0.191	0.033	mg/kg wet	0.200		96	80-120			
LCS Dup										
Mercury	0.189	0.033	mg/kg wet	0.200		94	80-120	1	20	
Duplicate **Source: 0606374-10**										
Mercury	ND	0.178	mg/kg dry		ND				35	
Duplicate **Source: 0606374-14**										
Mercury	ND	0.041	mg/kg dry		ND				35	
Matrix Spike **Source: 0606374-10**										
Mercury	1.15	0.190	mg/kg dry	1.14	ND	101	75-125			
Matrix Spike **Source: 0606374-14**										
Mercury	0.245	0.041	mg/kg dry	0.244	ND	100	75-125			
Matrix Spike Dup **Source: 0606374-10**										
Mercury	1.53	0.184	mg/kg dry	1.10	ND	139	75-125	28	35	+
Matrix Spike Dup **Source: 0606374-14**										
Mercury	0.257	0.043	mg/kg dry	0.256	ND	100	75-125	5	35	
Reference										
Mercury	1.63	0.333	mg/kg wet	1.77		92	68.36-132.2			
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62614 - 5035										

Metals
Calibration Data

ANALYSIS SEQUENCE

BPG0218

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0218-CAL1	QC		1		6F21081		
BPG0218-CAL2	QC		2		6F23006		
BPG0218-CAL3	QC		3		6F23007		
BPG0218-CAL4	QC		4		6F23008		
BPG0218-ICV1	QC		5		6F23007		
BPG0218-SCV1	QC		6		6F23011		
BPG0218-ICB1	QC		7				
BPG0218-CRL1	QC		8		6F23012		
BPG0218-CRL2	QC		9		6F23013		
BPG0218-CRL3	QC		10		6F23014		
BPG0218-IFA1	QC		11		6F13074		
BPG0218-CCB1	QC		12				
BPG0218-CCV1	QC		13		6F23007		
BPG0218-IFB1	QC		14		6F13075		
BF62317-BLK1	QC		15				
BF62317-BS1	QC		16				
BF62317-BSD1	QC		17				
BF62317-SRM1	QC		18				
BF62317-DUP1	QC		19				
BF62317-MS1	QC		20				
BF62317-PS1	QC		21				
BF62317-DUP2	QC		22				
BF62317-MS2	QC		23				
BPG0218-CCB2	QC		24				
BPG0218-CCV2	QC		25		6F23007		
BF62317-PS2	QC		26				
0606373-01	Sb: ppm Antimony 6010	F	27				MACTEC Engineering & Consulting,
0606373-01	Be: ppm Beryllium 6010	F	28				MACTEC Engineering & Consulting,
0606373-01	Cd: ppm Cadmium 6010	F	29				MACTEC Engineering & Consulting,
0606373-01	Cr: ppm Chromium 6010	F	30				MACTEC Engineering & Consulting,
0606373-01	Cu: ppm Copper 6010	F	31				MACTEC Engineering & Consulting,
0606373-01	Pb: ppm Lead 6010	F	32				MACTEC Engineering & Consulting,
0606373-01	Ni: ppm Nickel 6010	F	33				MACTEC Engineering & Consulting,

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0218

Instrument: ICP3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606373-01	Se: ppm Selenium 6010	F	34				MACTEC Engineering & Consulting, In
0606373-01	Ag: ppm Silver 6010	F	35				MACTEC Engineering & Consulting, In
BPG0218-CCB3	QC		36				
BPG0218-CCV3	QC		37		6F23007		
0606373-01	Zn: ppm Zinc 6010	F	38				MACTEC Engineering & Consulting, In
0606373-01	Ba: ppm Barium 6010	F	39				MACTEC Engineering & Consulting, In
0606373-02	Sb: ppm Antimony 6010	F	40				MACTEC Engineering & Consulting, In
0606373-02	Be: ppm Beryllium 6010	F	41				MACTEC Engineering & Consulting, In
0606373-02	Cd: ppm Cadmium 6010	F	42				MACTEC Engineering & Consulting, In
0606373-02	Cr: ppm Chromium 6010	F	43				MACTEC Engineering & Consulting, In
0606373-02	Cu: ppm Copper 6010	F	44				MACTEC Engineering & Consulting, In
0606373-02	Pb: ppm Lead 6010	F	45				MACTEC Engineering & Consulting, In
0606373-02	Ni: ppm Nickel 6010	F	46				MACTEC Engineering & Consulting, In
0606373-02	Se: ppm Selenium 6010	F	47				MACTEC Engineering & Consulting, In
BPG0218-CCB4	QC		48				
BPG0218-CCV4	QC		49		6F23007		
0606373-02	Ag: ppm Silver 6010	F	50				MACTEC Engineering & Consulting, In
0606373-02	Zn: ppm Zinc 6010	F	51				MACTEC Engineering & Consulting, In
0606373-02	Ba: ppm Barium 6010	F	52				MACTEC Engineering & Consulting, In
0606373-03	Sb: ppm Antimony 6010	F	53				MACTEC Engineering & Consulting, In
0606373-03	Be: ppm Beryllium 6010	F	54				MACTEC Engineering & Consulting, In
0606373-03	Cd: ppm Cadmium 6010	F	55				MACTEC Engineering & Consulting, In
0606373-03	Cr: ppm Chromium 6010	F	56				MACTEC Engineering & Consulting, In
0606373-03	Cu: ppm Copper 6010	F	57				MACTEC Engineering & Consulting, In
0606373-03	Pb: ppm Lead 6010	F	58				MACTEC Engineering & Consulting, In
0606373-03	Ni: ppm Nickel 6010	F	59				MACTEC Engineering & Consulting, In
BPG0218-CCB5	QC		60				
BPG0218-CCV5	QC		61		6F23007		
0606373-03	Se: ppm Selenium 6010	F	62				MACTEC Engineering & Consulting, In
0606373-03	Ag: ppm Silver 6010	F	63				MACTEC Engineering & Consulting, In
0606373-03	Zn: ppm Zinc 6010	F	64				MACTEC Engineering & Consulting, In
0606373-03	Ba: ppm Barium 6010	F	65				MACTEC Engineering & Consulting, In
0606373-04	Sb: ppm Antimony 6010	F	66				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0218

Instrument: ICP3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606373-04	Be: ppm Beryllium 6010	F	67				MACTEC Engineering & Consulting, In
0606373-04	Cd: ppm Cadmium 6010	F	68				MACTEC Engineering & Consulting, In
0606373-04	Cr: ppm Chromium 6010	F	69				MACTEC Engineering & Consulting, In
0606373-04	Cu: ppm Copper 6010	F	70				MACTEC Engineering & Consulting, In
0606373-04	Pb: ppm Lead 6010	F	71				MACTEC Engineering & Consulting, In
BPG0218-CCB6	QC		72				
BPG0218-CCV6	QC		73		6F23007		
0606373-04	Ni: ppm Nickel 6010	F	74				MACTEC Engineering & Consulting, In
0606373-04	Se: ppm Selenium 6010	F	75				MACTEC Engineering & Consulting, In
0606373-04	Ag: ppm Silver 6010	F	76				MACTEC Engineering & Consulting, In
0606373-04	Zn: ppm Zinc 6010	F	77				MACTEC Engineering & Consulting, In
0606373-04	Ba: ppm Barium 6010	F	78				MACTEC Engineering & Consulting, In
0606373-05	Sb: ppm Antimony 6010	F	79				MACTEC Engineering & Consulting, In
0606373-05	Be: ppm Beryllium 6010	F	80				MACTEC Engineering & Consulting, In
0606373-05	Cd: ppm Cadmium 6010	F	81				MACTEC Engineering & Consulting, In
0606373-05	Cr: ppm Chromium 6010	F	82				MACTEC Engineering & Consulting, In
0606373-05	Cu: ppm Copper 6010	F	83				MACTEC Engineering & Consulting, In
BPG0218-CCB7	QC		84				
BPG0218-CCV7	QC		85		6F23007		
0606373-05	Pb: ppm Lead 6010	F	86				MACTEC Engineering & Consulting, In
0606373-05	Ni: ppm Nickel 6010	F	87				MACTEC Engineering & Consulting, In
0606373-05	Se: ppm Selenium 6010	F	88				MACTEC Engineering & Consulting, In
0606373-05	Ag: ppm Silver 6010	F	89				MACTEC Engineering & Consulting, In
0606373-05	Zn: ppm Zinc 6010	F	90				MACTEC Engineering & Consulting, In
0606373-05	Ba: ppm Barium 6010	F	91				MACTEC Engineering & Consulting, In
0606373-06	Sb: ppm Antimony 6010	F	92				MACTEC Engineering & Consulting, In
0606373-06	Be: ppm Beryllium 6010	F	93				MACTEC Engineering & Consulting, In
0606373-06	Cd: ppm Cadmium 6010	F	94				MACTEC Engineering & Consulting, In
0606373-06	Cr: ppm Chromium 6010	F	95				MACTEC Engineering & Consulting, In
BPG0218-CCB8	QC		96				
BPG0218-CCV8	QC		97		6F23007		
0606373-06	Cu: ppm Copper 6010	F	98				MACTEC Engineering & Consulting, In
0606373-06	Pb: ppm Lead 6010	F	99				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0218

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606373-06	Ni: ppm Nickel 6010	F	100				MACTEC Engineering & Consultin
0606373-06	Se: ppm Selenium 6010	F	101				MACTEC Engineering & Consultin
0606373-06	Ag: ppm Silver 6010	F	102				MACTEC Engineering & Consultin
0606373-06	Zn: ppm Zinc 6010	F	103				MACTEC Engineering & Consultin
0606373-06	Ba: ppm Barium 6010	F	104				MACTEC Engineering & Consultin
0606373-07	Sb: ppm Antimony 6010	F	105				MACTEC Engineering & Consultin
0606373-07	Be: ppm Beryllium 6010	F	106				MACTEC Engineering & Consultin
0606373-07	Cd: ppm Cadmium 6010	F	107				MACTEC Engineering & Consultin
0606373-07	Cr: ppm Chromium 6010	F	108				MACTEC Engineering & Consultin
0606373-07	Cu: ppm Copper 6010	F	109				MACTEC Engineering & Consultin
0606373-07	Pb: ppm Lead 6010	F	110				MACTEC Engineering & Consultin
0606373-07	Ni: ppm Nickel 6010	F	111				MACTEC Engineering & Consultin
0606373-07	Se: ppm Selenium 6010	F	112				MACTEC Engineering & Consultin
0606373-07	Ag: ppm Silver 6010	F	113				MACTEC Engineering & Consultin
0606373-07	Zn: ppm Zinc 6010	F	114				MACTEC Engineering & Consultin
0606373-07	Ba: ppm Barium 6010	F	115				MACTEC Engineering & Consultin
0606373-08	Sb: ppm Antimony 6010	F	116				MACTEC Engineering & Consultin
0606373-08	Be: ppm Beryllium 6010	F	117				MACTEC Engineering & Consultin
0606373-08	Cd: ppm Cadmium 6010	F	118				MACTEC Engineering & Consultin
0606373-08	Ba: ppm Barium 6010	F	119				MACTEC Engineering & Consultin
0606373-08	Cr: ppm Chromium 6010	F	120				MACTEC Engineering & Consultin
0606373-08	Cu: ppm Copper 6010	F	121				MACTEC Engineering & Consultin
0606373-08	Pb: ppm Lead 6010	F	122				MACTEC Engineering & Consultin
0606373-08	Ni: ppm Nickel 6010	F	123				MACTEC Engineering & Consultin
0606373-08	Se: ppm Selenium 6010	F	124				MACTEC Engineering & Consultin
0606373-08	Ag: ppm Silver 6010	F	125				MACTEC Engineering & Consultin
0606373-08	Zn: ppm Zinc 6010	F	126				MACTEC Engineering & Consultin
0606373-09	Ba: ppm Barium 6010	F	127				MACTEC Engineering & Consultin
0606373-09	Sb: ppm Antimony 6010	F	128				MACTEC Engineering & Consultin
0606373-09	Be: ppm Beryllium 6010	F	129				MACTEC Engineering & Consultin
0606373-09	Cd: ppm Cadmium 6010	F	130				MACTEC Engineering & Consultin
0606373-09	Cr: ppm Chromium 6010	F	131				MACTEC Engineering & Consultin
0606373-09	Cu: ppm Copper 6010	F	132				MACTEC Engineering & Consultin

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0218

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606373-09	Pb: ppm Lead 6010	F	133				MACTEC Engineering & Consulting, In
0606373-09	Ni: ppm Nickel 6010	F	134				MACTEC Engineering & Consulting, In
0606373-09	Se: ppm Selenium 6010	F	135				MACTEC Engineering & Consulting, In
0606373-09	Ag: ppm Silver 6010	F	136				MACTEC Engineering & Consulting, In
0606373-09	Zn: ppm Zinc 6010	F	137				MACTEC Engineering & Consulting, In
0606373-10	Ba: ppm Barium 6010	F	138				MACTEC Engineering & Consulting, In
0606373-10	Sb: ppm Antimony 6010	F	139				MACTEC Engineering & Consulting, In
0606373-10	Be: ppm Beryllium 6010	F	140				MACTEC Engineering & Consulting, In
0606373-10	Cd: ppm Cadmium 6010	F	141				MACTEC Engineering & Consulting, In
0606373-10	Cr: ppm Chromium 6010	F	142				MACTEC Engineering & Consulting, In
0606373-10	Cu: ppm Copper 6010	F	143				MACTEC Engineering & Consulting, In
0606373-10	Pb: ppm Lead 6010	F	144				MACTEC Engineering & Consulting, In
0606373-10	Ni: ppm Nickel 6010	F	145				MACTEC Engineering & Consulting, In
0606373-10	Se: ppm Selenium 6010	F	146				MACTEC Engineering & Consulting, In
0606373-10	Ag: ppm Silver 6010	F	147				MACTEC Engineering & Consulting, In
0606373-10	Zn: ppm Zinc 6010	F	148				MACTEC Engineering & Consulting, In
0606373-12	Ba: ppm Barium 6010	F	149				MACTEC Engineering & Consulting, In
0606373-12	Sb: ppm Antimony 6010	F	150				MACTEC Engineering & Consulting, In
0606373-12	Be: ppm Beryllium 6010	F	151				MACTEC Engineering & Consulting, In
0606373-12	Cd: ppm Cadmium 6010	F	152				MACTEC Engineering & Consulting, In
0606373-12	Cr: ppm Chromium 6010	F	153				MACTEC Engineering & Consulting, In
0606373-12	Cu: ppm Copper 6010	F	154				MACTEC Engineering & Consulting, In
0606373-12	Pb: ppm Lead 6010	F	155				MACTEC Engineering & Consulting, In
0606373-12	Ni: ppm Nickel 6010	F	156				MACTEC Engineering & Consulting, In
0606373-12	Se: ppm Selenium 6010	F	157				MACTEC Engineering & Consulting, In
0606373-12	Ag: ppm Silver 6010	F	158				MACTEC Engineering & Consulting, In
0606373-12	Zn: ppm Zinc 6010	F	159				MACTEC Engineering & Consulting, In
0606373-13	Ba: ppm Barium 6010	F	160				MACTEC Engineering & Consulting, In
0606373-13	Sb: ppm Antimony 6010	F	161				MACTEC Engineering & Consulting, In
0606373-13	Be: ppm Beryllium 6010	F	162				MACTEC Engineering & Consulting, In
0606373-13	Cd: ppm Cadmium 6010	F	163				MACTEC Engineering & Consulting, In
0606373-13	Cr: ppm Chromium 6010	F	164				MACTEC Engineering & Consulting, In
0606373-13	Cu: ppm Copper 6010	F	165				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0218

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606373-13	Pb: ppm Lead 6010	F	166				MACTEC Engineering & Consultin
0606373-13	Ni: ppm Nickel 6010	F	167				MACTEC Engineering & Consultin
0606373-13	Se: ppm Selenium 6010	F	168				MACTEC Engineering & Consultin
0606373-13	Ag: ppm Silver 6010	F	169				MACTEC Engineering & Consultin
0606373-13	Zn: ppm Zinc 6010	F	170				MACTEC Engineering & Consultin
0606373-14	Ba: ppm Barium 6010	F	171				MACTEC Engineering & Consultin
0606373-14	Sb: ppm Antimony 6010	F	172				MACTEC Engineering & Consultin
0606373-14	Be: ppm Beryllium 6010	F	173				MACTEC Engineering & Consultin
0606373-14	Cd: ppm Cadmium 6010	F	174				MACTEC Engineering & Consultin
0606373-14	Cr: ppm Chromium 6010	F	175				MACTEC Engineering & Consultin
0606373-14	Cu: ppm Copper 6010	F	176				MACTEC Engineering & Consultin
0606373-14	Pb: ppm Lead 6010	F	177				MACTEC Engineering & Consultin
0606373-14	Ni: ppm Nickel 6010	F	178				MACTEC Engineering & Consultin
0606373-14	Se: ppm Selenium 6010	F	179				MACTEC Engineering & Consultin
0606373-14	Ag: ppm Silver 6010	F	180				MACTEC Engineering & Consultin
0606373-14	Zn: ppm Zinc 6010	F	181				MACTEC Engineering & Consultin
0606373-15	Ba: ppm Barium 6010	F	182				MACTEC Engineering & Consultin
0606373-15	Sb: ppm Antimony 6010	F	183				MACTEC Engineering & Consultin
0606373-15	Be: ppm Beryllium 6010	F	184				MACTEC Engineering & Consultin
0606373-15	Cd: ppm Cadmium 6010	F	185				MACTEC Engineering & Consultin
0606373-15	Cr: ppm Chromium 6010	F	186				MACTEC Engineering & Consultin
0606373-15	Cu: ppm Copper 6010	F	187				MACTEC Engineering & Consultin
0606373-15	Pb: ppm Lead 6010	F	188				MACTEC Engineering & Consultin
0606373-15	Ni: ppm Nickel 6010	F	189				MACTEC Engineering & Consultin
0606373-15	Se: ppm Selenium 6010	F	190				MACTEC Engineering & Consultin
0606373-15	Ag: ppm Silver 6010	F	191				MACTEC Engineering & Consultin
0606373-15	Zn: ppm Zinc 6010	F	192				MACTEC Engineering & Consultin
0606373-16	Ba: ppm Barium 6010	F	193				MACTEC Engineering & Consultin
0606373-16	Sb: ppm Antimony 6010	F	194				MACTEC Engineering & Consultin
0606373-16	Be: ppm Beryllium 6010	F	195				MACTEC Engineering & Consultin
0606373-16	Cd: ppm Cadmium 6010	F	196				MACTEC Engineering & Consultin
0606373-16	Cr: ppm Chromium 6010	F	197				MACTEC Engineering & Consultin
0606373-16	Cu: ppm Copper 6010	F	198				MACTEC Engineering & Consultin

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0218

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606373-16	Pb: ppm Lead 6010	F	199				MACTEC Engineering & Consulting, In
0606373-16	Ni: ppm Nickel 6010	F	200				MACTEC Engineering & Consulting, In
0606373-16	Se: ppm Selenium 6010	F	201				MACTEC Engineering & Consulting, In
0606373-16	Ag: ppm Silver 6010	F	202				MACTEC Engineering & Consulting, In
0606373-16	Zn: ppm Zinc 6010	F	203				MACTEC Engineering & Consulting, In
0606373-17	Ba: ppm Barium 6010	F	204				MACTEC Engineering & Consulting, In
0606373-17	Sb: ppm Antimony 6010	F	205				MACTEC Engineering & Consulting, In
0606373-17	Be: ppm Beryllium 6010	F	206				MACTEC Engineering & Consulting, In
0606373-17	Cd: ppm Cadmium 6010	F	207				MACTEC Engineering & Consulting, In
0606373-17	Cr: ppm Chromium 6010	F	208				MACTEC Engineering & Consulting, In
0606373-17	Cu: ppm Copper 6010	F	209				MACTEC Engineering & Consulting, In
0606373-17	Pb: ppm Lead 6010	F	210				MACTEC Engineering & Consulting, In
0606373-17	Ni: ppm Nickel 6010	F	211				MACTEC Engineering & Consulting, In
0606373-17	Se: ppm Selenium 6010	F	212				MACTEC Engineering & Consulting, In
0606373-17	Ag: ppm Silver 6010	F	213				MACTEC Engineering & Consulting, In
0606373-17	Zn: ppm Zinc 6010	F	214				MACTEC Engineering & Consulting, In
0606373-18	Ba: ppm Barium 6010	F	215				MACTEC Engineering & Consulting, In
0606373-18	Sb: ppm Antimony 6010	F	216				MACTEC Engineering & Consulting, In
0606373-18	Be: ppm Beryllium 6010	F	217				MACTEC Engineering & Consulting, In
0606373-18	Cd: ppm Cadmium 6010	F	218				MACTEC Engineering & Consulting, In
0606373-18	Cr: ppm Chromium 6010	F	219				MACTEC Engineering & Consulting, In
0606373-18	Cu: ppm Copper 6010	F	220				MACTEC Engineering & Consulting, In
0606373-18	Pb: ppm Lead 6010	F	221				MACTEC Engineering & Consulting, In
0606373-18	Ni: ppm Nickel 6010	F	222				MACTEC Engineering & Consulting, In
0606373-18	Se: ppm Selenium 6010	F	223				MACTEC Engineering & Consulting, In
0606373-18	Ag: ppm Silver 6010	F	224				MACTEC Engineering & Consulting, In
0606373-18	Zn: ppm Zinc 6010	F	225				MACTEC Engineering & Consulting, In
0606373-19	Sb: ppm Antimony 6010	F	226				MACTEC Engineering & Consulting, In
0606373-19	Be: ppm Beryllium 6010	F	227				MACTEC Engineering & Consulting, In
0606373-19	Cd: ppm Cadmium 6010	F	228				MACTEC Engineering & Consulting, In
0606373-19	Cr: ppm Chromium 6010	F	229				MACTEC Engineering & Consulting, In
0606373-19	Cu: ppm Copper 6010	F	230				MACTEC Engineering & Consulting, In
0606373-19	Pb: ppm Lead 6010	F	231				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0218

Instrument: ICP3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606373-19	Ni: ppm Nickel 6010	F	232				MACTEC Engineering & Consulting, In
0606373-19	Se: ppm Selenium 6010	F	233				MACTEC Engineering & Consulting, In
0606373-19	Ag: ppm Silver 6010	F	234				MACTEC Engineering & Consulting, In
0606373-19	Zn: ppm Zinc 6010	F	235				MACTEC Engineering & Consulting, In
0606373-19	Ba: ppm Barium 6010	F	236				MACTEC Engineering & Consulting, In
BPG0218-SRD1	QC		237				
BPG0218-SRD2	QC		238				
BF62320-BLK1	QC		239				
BF62320-BS1	QC		240				
BF62320-BSD1	QC		241				
BF62320-SRM1	QC		242				
BF62320-DUP1	QC		243				
BF62320-MS1	QC		244				
BF62320-PS1	QC		245				
BF62320-DUP2	QC		246				
BF62320-MS2	QC		247				
BF62320-PS2	QC		248				
BPG0218-SRD3	QC		249				
BPG0218-SRD4	QC		250				
0606373-20	Ag: ppm Silver 6010	F	251				MACTEC Engineering & Consulting, In
0606373-20	Ba: ppm Barium 6010	F	252				MACTEC Engineering & Consulting, In
0606373-20	Be: ppm Beryllium 6010	F	253				MACTEC Engineering & Consulting, In
0606373-20	Cd: ppm Cadmium 6010	F	254				MACTEC Engineering & Consulting, In
0606373-20	Cr: ppm Chromium 6010	F	255				MACTEC Engineering & Consulting, In
0606373-20	Cu: ppm Copper 6010	F	256				MACTEC Engineering & Consulting, In
0606373-20	Ni: ppm Nickel 6010	F	257				MACTEC Engineering & Consulting, In
0606373-20	Pb: ppm Lead 6010	F	258				MACTEC Engineering & Consulting, In
0606373-20	Sb: ppm Antimony 6010	F	259				MACTEC Engineering & Consulting, In
0606373-20	Se: ppm Selenium 6010	F	260				MACTEC Engineering & Consulting, In
0606373-20	Zn: ppm Zinc 6010	F	261				MACTEC Engineering & Consulting, In
0606373-21	Ag: ppm Silver 6010	F	262				MACTEC Engineering & Consulting, In
0606373-21	Ba: ppm Barium 6010	F	263				MACTEC Engineering & Consulting, In
0606373-21	Be: ppm Beryllium 6010	F	264				MACTEC Engineering & Consulting, In

Samples Loaded By Date Data Processed By Date

ANALYSIS SEQUENCE

BPG0218

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606373-21	Cd: ppm Cadmium 6010	F	265				MACTEC Engineering & Consulting, In
0606373-21	Cr: ppm Chromium 6010	F	266				MACTEC Engineering & Consulting, In
0606373-21	Cu: ppm Copper 6010	F	267				MACTEC Engineering & Consulting, In
0606373-21	Ni: ppm Nickel 6010	F	268				MACTEC Engineering & Consulting, In
0606373-21	Pb: ppm Lead 6010	F	269				MACTEC Engineering & Consulting, In
0606373-21	Sb: ppm Antimony 6010	F	270				MACTEC Engineering & Consulting, In
0606373-21	Se: ppm Selenium 6010	F	271				MACTEC Engineering & Consulting, In
0606373-21	Zn: ppm Zinc 6010	F	272				MACTEC Engineering & Consulting, In
0606374-01	Ag: ppm Silver 6010	F	273				MACTEC Engineering & Consulting, In
0606374-01	Ba: ppm Barium 6010	F	274				MACTEC Engineering & Consulting, In
0606374-01	Be: ppm Beryllium 6010	F	275				MACTEC Engineering & Consulting, In
0606374-01	Cd: ppm Cadmium 6010	F	276				MACTEC Engineering & Consulting, In
0606374-01	Cr: ppm Chromium 6010	F	277				MACTEC Engineering & Consulting, In
0606374-01	Cu: ppm Copper 6010	F	278				MACTEC Engineering & Consulting, In
0606374-01	Ni: ppm Nickel 6010	F	279				MACTEC Engineering & Consulting, In
0606374-01	Pb: ppm Lead 6010	F	280				MACTEC Engineering & Consulting, In
0606374-01	Sb: ppm Antimony 6010	F	281				MACTEC Engineering & Consulting, In
0606374-01	Se: ppm Selenium 6010	F	282				MACTEC Engineering & Consulting, In
0606374-01	Zn: ppm Zinc 6010	F	283				MACTEC Engineering & Consulting, In
0606374-02	Ag: ppm Silver 6010	F	284				MACTEC Engineering & Consulting, In
0606374-02	Ba: ppm Barium 6010	F	285				MACTEC Engineering & Consulting, In
0606374-02	Be: ppm Beryllium 6010	F	286				MACTEC Engineering & Consulting, In
0606374-02	Cd: ppm Cadmium 6010	F	287				MACTEC Engineering & Consulting, In
0606374-02	Cr: ppm Chromium 6010	F	288				MACTEC Engineering & Consulting, In
0606374-02	Cu: ppm Copper 6010	F	289				MACTEC Engineering & Consulting, In
0606374-02	Ni: ppm Nickel 6010	F	290				MACTEC Engineering & Consulting, In
0606374-02	Pb: ppm Lead 6010	F	291				MACTEC Engineering & Consulting, In
0606374-02	Sb: ppm Antimony 6010	F	292				MACTEC Engineering & Consulting, In
0606374-02	Se: ppm Selenium 6010	F	293				MACTEC Engineering & Consulting, In
0606374-02	Zn: ppm Zinc 6010	F	294				MACTEC Engineering & Consulting, In
0606374-03	Ag: ppm Silver 6010	F	295				MACTEC Engineering & Consulting, In
0606374-03	Ba: ppm Barium 6010	F	296				MACTEC Engineering & Consulting, In
0606374-03	Be: ppm Beryllium 6010	F	297				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0218

Instrument: ICP3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606374-03	Cd: ppm Cadmium 6010	F	298				MACTEC Engineering & Consulting, In
0606374-03	Cr: ppm Chromium 6010	F	299				MACTEC Engineering & Consulting, In
0606374-03	Cu: ppm Copper 6010	F	300				MACTEC Engineering & Consulting, In
0606374-03	Ni: ppm Nickel 6010	F	301				MACTEC Engineering & Consulting, In
0606374-03	Pb: ppm Lead 6010	F	302				MACTEC Engineering & Consulting, In
0606374-03	Sb: ppm Antimony 6010	F	303				MACTEC Engineering & Consulting, In
0606374-03	Se: ppm Selenium 6010	F	304				MACTEC Engineering & Consulting, In
0606374-03	Zn: ppm Zinc 6010	F	305				MACTEC Engineering & Consulting, In
0606374-04	Ag: ppm Silver 6010	F	306				MACTEC Engineering & Consulting, In
0606374-04	Ba: ppm Barium 6010	F	307				MACTEC Engineering & Consulting, In
0606374-04	Be: ppm Beryllium 6010	F	308				MACTEC Engineering & Consulting, In
0606374-04	Cd: ppm Cadmium 6010	F	309				MACTEC Engineering & Consulting, In
0606374-04	Cr: ppm Chromium 6010	F	310				MACTEC Engineering & Consulting, In
0606374-04	Cu: ppm Copper 6010	F	311				MACTEC Engineering & Consulting, In
0606374-04	Ni: ppm Nickel 6010	F	312				MACTEC Engineering & Consulting, In
0606374-04	Pb: ppm Lead 6010	F	313				MACTEC Engineering & Consulting, In
0606374-04	Sb: ppm Antimony 6010	F	314				MACTEC Engineering & Consulting, In
0606374-04	Se: ppm Selenium 6010	F	315				MACTEC Engineering & Consulting, In
0606374-04	Zn: ppm Zinc 6010	F	316				MACTEC Engineering & Consulting, In
0606374-05	Ag: ppm Silver 6010	F	317				MACTEC Engineering & Consulting, In
0606374-05	Ba: ppm Barium 6010	F	318				MACTEC Engineering & Consulting, In
0606374-05	Be: ppm Beryllium 6010	F	319				MACTEC Engineering & Consulting, In
0606374-05	Cd: ppm Cadmium 6010	F	320				MACTEC Engineering & Consulting, In
0606374-05	Cr: ppm Chromium 6010	F	321				MACTEC Engineering & Consulting, In
0606374-05	Cu: ppm Copper 6010	F	322				MACTEC Engineering & Consulting, In
0606374-05	Ni: ppm Nickel 6010	F	323				MACTEC Engineering & Consulting, In
0606374-05	Pb: ppm Lead 6010	F	324				MACTEC Engineering & Consulting, In
0606374-05	Sb: ppm Antimony 6010	F	325				MACTEC Engineering & Consulting, In
0606374-05	Se: ppm Selenium 6010	F	326				MACTEC Engineering & Consulting, In
0606374-05	Zn: ppm Zinc 6010	F	327				MACTEC Engineering & Consulting, In
0606374-06	Ag: ppm Silver 6010	F	328				MACTEC Engineering & Consulting, In
0606374-06	Ba: ppm Barium 6010	F	329				MACTEC Engineering & Consulting, In
0606374-06	Be: ppm Beryllium 6010	F	330				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0218

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606374-06	Cd: ppm Cadmium 6010	F	331				MACTEC Engineering & Consulting, In
0606374-06	Cr: ppm Chromium 6010	F	332				MACTEC Engineering & Consulting, In
0606374-06	Cu: ppm Copper 6010	F	333				MACTEC Engineering & Consulting, In
0606374-06	Ni: ppm Nickel 6010	F	334				MACTEC Engineering & Consulting, In
0606374-06	Pb: ppm Lead 6010	F	335				MACTEC Engineering & Consulting, In
0606374-06	Sb: ppm Antimony 6010	F	336				MACTEC Engineering & Consulting, In
0606374-06	Se: ppm Selenium 6010	F	337				MACTEC Engineering & Consulting, In
0606374-06	Zn: ppm Zinc 6010	F	338				MACTEC Engineering & Consulting, In
0606374-07	Ag: ppm Silver 6010	F	339				MACTEC Engineering & Consulting, In
0606374-07	Ba: ppm Barium 6010	F	340				MACTEC Engineering & Consulting, In
0606374-07	Be: ppm Beryllium 6010	F	341				MACTEC Engineering & Consulting, In
0606374-07	Cd: ppm Cadmium 6010	F	342				MACTEC Engineering & Consulting, In
0606374-07	Cr: ppm Chromium 6010	F	343				MACTEC Engineering & Consulting, In
0606374-07	Cu: ppm Copper 6010	F	344				MACTEC Engineering & Consulting, In
0606374-07	Ni: ppm Nickel 6010	F	345				MACTEC Engineering & Consulting, In
0606374-07	Pb: ppm Lead 6010	F	346				MACTEC Engineering & Consulting, In
0606374-07	Sb: ppm Antimony 6010	F	347				MACTEC Engineering & Consulting, In
0606374-07	Se: ppm Selenium 6010	F	348				MACTEC Engineering & Consulting, In
0606374-07	Zn: ppm Zinc 6010	F	349				MACTEC Engineering & Consulting, In
0606374-08	Ag: ppm Silver 6010	F	350				MACTEC Engineering & Consulting, In
0606374-08	Ba: ppm Barium 6010	F	351				MACTEC Engineering & Consulting, In
0606374-08	Be: ppm Beryllium 6010	F	352				MACTEC Engineering & Consulting, In
0606374-08	Cd: ppm Cadmium 6010	F	353				MACTEC Engineering & Consulting, In
0606374-08	Cr: ppm Chromium 6010	F	354				MACTEC Engineering & Consulting, In
0606374-08	Cu: ppm Copper 6010	F	355				MACTEC Engineering & Consulting, In
0606374-08	Ni: ppm Nickel 6010	F	356				MACTEC Engineering & Consulting, In
0606374-08	Pb: ppm Lead 6010	F	357				MACTEC Engineering & Consulting, In
0606374-08	Sb: ppm Antimony 6010	F	358				MACTEC Engineering & Consulting, In
0606374-08	Se: ppm Selenium 6010	F	359				MACTEC Engineering & Consulting, In
0606374-08	Zn: ppm Zinc 6010	F	360				MACTEC Engineering & Consulting, In
0606374-09	Ag: ppm Silver 6010	F	361				MACTEC Engineering & Consulting, In
0606374-09	Ba: ppm Barium 6010	F	362				MACTEC Engineering & Consulting, In
0606374-09	Be: ppm Beryllium 6010	F	363				MACTEC Engineering & Consulting, In

Samples Loaded By Date Data Processed By Date

ANALYSIS SEQUENCE

BPG0218

Instrument: ICP3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606374-09	Cd: ppm Cadmium 6010	F	364				MACTEC Engineering & Consulting, In
0606374-09	Cr: ppm Chromium 6010	F	365				MACTEC Engineering & Consulting, In
0606374-09	Cu: ppm Copper 6010	F	366				MACTEC Engineering & Consulting, In
0606374-09	Ni: ppm Nickel 6010	F	367				MACTEC Engineering & Consulting, In
0606374-09	Pb: ppm Lead 6010	F	368				MACTEC Engineering & Consulting, In
0606374-09	Sb: ppm Antimony 6010	F	369				MACTEC Engineering & Consulting, In
0606374-09	Se: ppm Selenium 6010	F	370				MACTEC Engineering & Consulting, In
0606374-09	Zn: ppm Zinc 6010	F	371				MACTEC Engineering & Consulting, In
0606374-10	Ag: ppm Silver 6010	F	372				MACTEC Engineering & Consulting, In
0606374-10	Ba: ppm Barium 6010	F	373				MACTEC Engineering & Consulting, In
0606374-10	Be: ppm Beryllium 6010	F	374				MACTEC Engineering & Consulting, In
0606374-10	Cd: ppm Cadmium 6010	F	375				MACTEC Engineering & Consulting, In
0606374-10	Cr: ppm Chromium 6010	F	376				MACTEC Engineering & Consulting, In
0606374-10	Cu: ppm Copper 6010	F	377				MACTEC Engineering & Consulting, In
0606374-10	Ni: ppm Nickel 6010	F	378				MACTEC Engineering & Consulting, In
0606374-10	Pb: ppm Lead 6010	F	379				MACTEC Engineering & Consulting, In
0606374-10	Sb: ppm Antimony 6010	F	380				MACTEC Engineering & Consulting, In
0606374-10	Se: ppm Selenium 6010	F	381				MACTEC Engineering & Consulting, In
0606374-10	Zn: ppm Zinc 6010	F	382				MACTEC Engineering & Consulting, In
0606374-11	Ag: ppm Silver 6010	F	383				MACTEC Engineering & Consulting, In
0606374-11	Ba: ppm Barium 6010	F	384				MACTEC Engineering & Consulting, In
0606374-11	Be: ppm Beryllium 6010	F	385				MACTEC Engineering & Consulting, In
0606374-11	Cd: ppm Cadmium 6010	F	386				MACTEC Engineering & Consulting, In
0606374-11	Cr: ppm Chromium 6010	F	387				MACTEC Engineering & Consulting, In
0606374-11	Cu: ppm Copper 6010	F	388				MACTEC Engineering & Consulting, In
0606374-11	Ni: ppm Nickel 6010	F	389				MACTEC Engineering & Consulting, In
0606374-11	Pb: ppm Lead 6010	F	390				MACTEC Engineering & Consulting, In
0606374-11	Sb: ppm Antimony 6010	F	391				MACTEC Engineering & Consulting, In
0606374-11	Se: ppm Selenium 6010	F	392				MACTEC Engineering & Consulting, In
0606374-11	Zn: ppm Zinc 6010	F	393				MACTEC Engineering & Consulting, In
0606374-12	Ag: ppm Silver 6010	F	394				MACTEC Engineering & Consulting, In
0606374-12	Ba: ppm Barium 6010	F	395				MACTEC Engineering & Consulting, In
0606374-12	Be: ppm Beryllium 6010	F	396				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0218

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606374-12	Cd: ppm Cadmium 6010	F	397				MACTEC Engineering & Consulting, In
0606374-12	Cr: ppm Chromium 6010	F	398				MACTEC Engineering & Consulting, In
0606374-12	Cu: ppm Copper 6010	F	399				MACTEC Engineering & Consulting, In
0606374-12	Ni: ppm Nickel 6010	F	400				MACTEC Engineering & Consulting, In
0606374-12	Pb: ppm Lead 6010	F	401				MACTEC Engineering & Consulting, In
0606374-12	Sb: ppm Antimony 6010	F	402				MACTEC Engineering & Consulting, In
0606374-12	Se: ppm Selenium 6010	F	403				MACTEC Engineering & Consulting, In
0606374-12	Zn: ppm Zinc 6010	F	404				MACTEC Engineering & Consulting, In
0606374-13	Ag: ppm Silver 6010	F	405				MACTEC Engineering & Consulting, In
0606374-13	Ba: ppm Barium 6010	F	406				MACTEC Engineering & Consulting, In
0606374-13	Be: ppm Beryllium 6010	F	407				MACTEC Engineering & Consulting, In
0606374-13	Cd: ppm Cadmium 6010	F	408				MACTEC Engineering & Consulting, In
0606374-13	Cr: ppm Chromium 6010	F	409				MACTEC Engineering & Consulting, In
0606374-13	Cu: ppm Copper 6010	F	410				MACTEC Engineering & Consulting, In
0606374-13	Ni: ppm Nickel 6010	F	411				MACTEC Engineering & Consulting, In
0606374-13	Pb: ppm Lead 6010	F	412				MACTEC Engineering & Consulting, In
0606374-13	Sb: ppm Antimony 6010	F	413				MACTEC Engineering & Consulting, In
0606374-13	Se: ppm Selenium 6010	F	414				MACTEC Engineering & Consulting, In
0606374-13	Zn: ppm Zinc 6010	F	415				MACTEC Engineering & Consulting, In
0606374-14	Ag: ppm Silver 6010	F	416				MACTEC Engineering & Consulting, In
0606374-14	Ba: ppm Barium 6010	F	417				MACTEC Engineering & Consulting, In
0606374-14	Be: ppm Beryllium 6010	F	418				MACTEC Engineering & Consulting, In
0606374-14	Cd: ppm Cadmium 6010	F	419				MACTEC Engineering & Consulting, In
0606374-14	Cr: ppm Chromium 6010	F	420				MACTEC Engineering & Consulting, In
0606374-14	Cu: ppm Copper 6010	F	421				MACTEC Engineering & Consulting, In
0606374-14	Ni: ppm Nickel 6010	F	422				MACTEC Engineering & Consulting, In
0606374-14	Pb: ppm Lead 6010	F	423				MACTEC Engineering & Consulting, In
0606374-14	Sb: ppm Antimony 6010	F	424				MACTEC Engineering & Consulting, In
0606374-14	Se: ppm Selenium 6010	F	425				MACTEC Engineering & Consulting, In
0606374-14	Zn: ppm Zinc 6010	F	426				MACTEC Engineering & Consulting, In
0606374-15	Ag: ppm Silver 6010	F	427				MACTEC Engineering & Consulting, In
0606374-15	Ba: ppm Barium 6010	F	428				MACTEC Engineering & Consulting, In
0606374-15	Be: ppm Beryllium 6010	F	429				MACTEC Engineering & Consulting, In

Samples Loaded By Date Data Processed By Date

ANALYSIS SEQUENCE

BPG0218

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606374-15	Cd: ppm Cadmium 6010	F	430				MACTEC Engineering & Consulting, In
0606374-15	Cr: ppm Chromium 6010	F	431				MACTEC Engineering & Consulting, In
0606374-15	Cu: ppm Copper 6010	F	432				MACTEC Engineering & Consulting, In
0606374-15	Ni: ppm Nickel 6010	F	433				MACTEC Engineering & Consulting, In
0606374-15	Pb: ppm Lead 6010	F	434				MACTEC Engineering & Consulting, In
0606374-15	Sb: ppm Antimony 6010	F	435				MACTEC Engineering & Consulting, In
0606374-15	Se: ppm Selenium 6010	F	436				MACTEC Engineering & Consulting, In
0606374-15	Zn: ppm Zinc 6010	F	437				MACTEC Engineering & Consulting, In
0606374-16	Ag: ppm Silver 6010	F	438				MACTEC Engineering & Consulting, In
0606374-16	Ba: ppm Barium 6010	F	439				MACTEC Engineering & Consulting, In
0606374-16	Be: ppm Beryllium 6010	F	440				MACTEC Engineering & Consulting, In
0606374-16	Cd: ppm Cadmium 6010	F	441				MACTEC Engineering & Consulting, In
0606374-16	Cr: ppm Chromium 6010	F	442				MACTEC Engineering & Consulting, In
0606374-16	Cu: ppm Copper 6010	F	443				MACTEC Engineering & Consulting, In
0606374-16	Ni: ppm Nickel 6010	F	444				MACTEC Engineering & Consulting, In
0606374-16	Pb: ppm Lead 6010	F	445				MACTEC Engineering & Consulting, In
0606374-16	Sb: ppm Antimony 6010	F	446				MACTEC Engineering & Consulting, In
0606374-16	Se: ppm Selenium 6010	F	447				MACTEC Engineering & Consulting, In
0606374-16	Zn: ppm Zinc 6010	F	448				MACTEC Engineering & Consulting, In
BPG0218-IFA2	QC		449		6F13074		
BPG0218-IFB2	QC		450		6F13075		

Samples Loaded By Date

Data Processed By Date

ESS Laboratory
ICP Data Review Checklist

SIF: 062306UA	**Date Run:** 6/23/06
Method: Weighing - DR	**Y-IS:** 3364206.0
Project Number(s): 06361, 373, 374, 375	**SOP NO. 30_6010B**

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the daily standard curve consist of a Calibration Blank and the required minimum number of calibration standards and is $R^2 > 0.995$ for all elements?	X		
2. Is the mid-point initial calibration standard reanalyzed immediately after calibration and results within QC limits? (±5% for 200.7, 10% for 6010B)	X		
3. Are interference check standards analyzed at the beginning of each analytical run and within QC limits?	X		
4. Is the ICV from a second source and is its percent within QC limits (±10% and %RPD< 5)?	X		
5. Is the CRI standard 20% of the true value?	X		
6. Are the CCVs analyzed at required frequency and all parameters within QC limits? (±10%)	X		
7. Are the CCB standards analyzed at required frequency and at the end of the analytical sequence and are all parameters within QC limits? (< MRL)	X		
8. Is the method blank run at the desired frequency and is its concentration for target analytes less than the MRL?	X		
9. Is the Laboratory Control Sample run at the desired frequency and is the percent recovery within QC limits? (±15% for 200.7, ±20% for 6010B)	X		
10. Is the Matrix Duplicate run at the desired frequency and is the RPD within QC limits? (± 20% for aqueous and + 35% for soil samples/ **All USACE/Navy samples ≤25%**)		X	
11. Is the matrix spike run at the desired frequency and is the percent recovery /RPD within QC limits? (75-125%)		X	
12. Is a Serial Dilution Analysis performed at the desired frequency and within QC limits? (± 10%)	X		
13. Are post-digestion spikes analyzed at the desired frequency and within QC limits? (85-115% for 200.7, 75-125% for 6010B)	X		
14. Are all samples with concentrations greater than the linear dynamic range diluted and reanalyzed?	X		
15. Are all sample IDs and units checked for transcription errors?	X		
16. Are all nonconformances included and noted?	X		
17. Is the correct methodology used for sample prep and analysis?	X		
18. Are all sample holding times met?	X		
19. Did analyst sign/date the appropriate print outs and report sheets?	X		

Comments on any "No" response:
BF62317 - Dupl Cu; MS1 CuSbBa; MS2 Sb
BF62320 - Dupl Cu; MS1 Sb; MS2 Cu Cr Sb
SP 6/24/06

Analyst: SP Date: 6/24/06 2nd Level Review: SD Date: 6/26/06

Analytical Sequence

Method : Everything-DV

Seq.	Loc.	Sample ID
1	1	Calib Blank 1
2	2	Calib Std 1
3	3	Calib Std 2
4	4	Calib Std 3
5	3	STD2
6	5	ICV
7	1	ICCB
8	6	CRI1
9	7	CRI2
10	8	CRI3
11	160	ICSA
12	159	ICSAB
13	3	CCV
14	1	ICCB
15	9	BF62317-BLK1
16	10	BF62317-BS1
17	11	BF62317-BSD1
18	12	BF62317-SRM1
19	13	0606361-01
20	14	0606361-02
21	15	0606373-01
22	16	0606373-02
23	17	0606373-03
24	18	0606373-04
25	3	CCV
26	1	ICCB
27	19	0606373-05
28	20	0606373-06
29	21	0606373-07
30	22	0606373-08
31	23	BF62317-DUP1
32	24	BF62317-MS1
33	25	BF62317-SD1
34	26	BF62317-PDS1
35	27	0606373-09
36	28	0606373-10
37	3	CCV
38	1	ICCB
39	29	0606373-12
40	30	0606373-13
41	31	0606373-14
42	32	0606373-15
43	33	0606373-16
44	34	0606373-17
45	35	0606373-18
46	36	BF62317-DUP2
47	37	BF62317-MS2
48	38	BF62317-SD2
49	3	CCV
50	1	ICCB
51	39	BF62317-PDS2
52	40	0606373-19
53	41	BF62320-BLK1
54	42	BF62320-BS1
55	43	BF62320-BSD1
56	44	BF62320-SRM1

Ag 0.005
As 0.02
Ba 0.01
Be 0.001
Cd 0.005
Cr 0.01
Cu 0.01
U 0.01
Pb 0.02
Sb 0.01
Se 0.1
Tl 0.05
Zn 0.01

Analytical Sequence

Method : Everything-DV

Seq.	Loc.		Sample ID
57	45		0606374-01
58	46		0606374-02
59	47		0606374-03
60	48		0606374-04
61	3		CCV
62	1		ICCB
63	49		0606374-05
64	50		0606374-06
65	51		0606374-07
66	52		0606374-08
67	53		0606374-09
68	54		0606374-10
69	55		BF62320-DUP1
70	56		BF62320-MS1
71	57		BF62320-SD1
72	58		BF62320-PDS1
73	3		CCV
74	1		ICCB
75	59		0606374-11
76	60		0606374-12
77	61		0606374-13
78	62		0606374-14
79	63		BF62320-DUP2
80	64		BF62320-MS2
81	65		BF62320-SD2
82	66		BF62320-PDS2
83	67		0606374-15
84	68		0606374-16
85	3		CCV
86	1		ICCB
87	69		0606373-20
88	70		0606373-21
89	71		0606375-02
90	3		CCV
91	1		ICCB
92	160		ICSA
93	159		ICSAB
94	0		WASH

Analysis Begun

Start Time: 6/23/2006 7:14:51 PM
Logged In Analyst: ICP3
Spectrometer Model: Optima 4300 DV, S/N 077N1032302
Plasma On Time: 6/23/2006 11:38:53 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\062306NA.sif
Batch ID: 062306NA
Results Data Set: 062306nad
Results Library: Q:\Metals\Results\ICP3\Results\Results.mdb

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 6/23/2006 7:14:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Blank 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	602.9	607.4	[0.00]	mg/L	19:16:25
1	Li 670.784†	170.9	172.2	[0.00]	mg/L	19:16:25
1	Na 589.592	-833.7	-833.7	[0.00]	mg/L	19:16:25
1	Y 371.029	3339058.5	3339058.5	0.993	mg/L	19:16:39
1	Ag 328.068†	-2583.9	-2603.4	[0.00]	mg/L	19:16:44
1	Al 237.313†	-31.7	-31.9	[0.00]	mg/L	19:17:04
1	As 188.979†	4.9	4.9	[0.00]	mg/L	19:17:04
1	B 182.528†	-4.7	-4.8	[0.00]	mg/L	19:17:04
1	Ba 233.527†	-175.0	-176.3	[0.00]	mg/L	19:17:04
1	Be 313.107†	2225.4	2242.2	[0.00]	mg/L	19:16:44
1	Ca 315.886†	1875.8	1889.9	[0.00]	mg/L	19:16:44
1	Cd 228.802†	113.0	113.9	[0.00]	mg/L	19:17:04
1	Co 228.616†	-176.9	-178.2	[0.00]	mg/L	19:17:04
1	Cr 267.716†	1393.8	1404.3	[0.00]	mg/L	19:16:44
1	Cu 324.752†	1863.5	1877.5	[0.00]	mg/L	19:16:44
1	Fe 234.349†	1235.0	1244.3	[0.00]	mg/L	19:17:04
1	Fe 238.204†	1093.5	1101.7	[0.00]	mg/L	19:17:04
1	Mg 279.077†	579.2	583.6	[0.00]	mg/L	19:16:44
1	Mn 257.610†	1880.2	1894.3	[0.00]	mg/L	19:16:44
1	Mo 202.031†	36.6	36.8	[0.00]	mg/L	19:17:04
1	Ni 231.604†	26.6	26.8	[0.00]	mg/L	19:17:04
1	P 214.914†	51.0	51.4	[0.00]	mg/L	19:17:04
1	Pb 220.353†	-146.2	-147.3	[0.00]	mg/L	19:17:04
1	Sb 206.836†	11.7	11.8	[0.00]	mg/L	19:17:04
1	Se 196.026†	-2.4	-2.4	[0.00]	mg/L	19:17:04
1	Sn 189.927†	191.7	193.2	[0.00]	mg/L	19:17:04
1	Sr 407.771†	6328.5	6376.1	[0.00]	mg/L	19:16:39
1	Ti 337.279†	-2069.1	-2084.7	[0.00]	mg/L	19:16:44
1	Tl 190.801†	19.6	19.7	[0.00]	mg/L	19:17:04
1	V 292.402†	-1629.5	-1641.8	[0.00]	mg/L	19:16:44
1	Zn 213.857†	668.7	673.7	[0.00]	mg/L	19:17:04
2	K 766.490†	519.3	515.4	[0.00]	mg/L	19:16:31
2	Li 670.784†	169.1	167.9	[0.00]	mg/L	19:16:31
2	Na 589.592	-792.7	-792.7	[0.00]	mg/L	19:16:31
2	Y 371.029	3389353.5	3389353.5	1.01	mg/L	19:17:10
2	Ag 328.068†	-2523.0	-2504.3	[0.00]	mg/L	19:17:15
2	Al 237.313†	-74.7	-74.2	[0.00]	mg/L	19:17:36
2	As 188.979†	4.5	4.5	[0.00]	mg/L	19:17:36
2	B 182.528†	-0.7	-0.7	[0.00]	mg/L	19:17:36
2	Ba 233.527†	-185.0	-183.6	[0.00]	mg/L	19:17:36
2	Be 313.107†	2178.9	2162.8	[0.00]	mg/L	19:17:15
2	Ca 315.886†	1762.5	1749.4	[0.00]	mg/L	19:17:15
2	Cd 228.802†	118.4	117.5	[0.00]	mg/L	19:17:36
2	Co 228.616†	-176.8	-175.5	[0.00]	mg/L	19:17:36
2	Cr 267.716†	1316.7	1306.9	[0.00]	mg/L	19:17:15
2	Cu 324.752†	1984.1	1969.4	[0.00]	mg/L	19:17:15
2	Fe 234.349†	1241.1	1231.9	[0.00]	mg/L	19:17:36
2	Fe 238.204†	1137.5	1129.1	[0.00]	mg/L	19:17:36

2	Mg 279.077†	505.6	501.9	[0.00] mg/L	19:17:15
2	Mn 257.610†	1883.8	1869.9	[0.00] mg/L	19:17:15
2	Mo 202.031†	38.0	37.8	[0.00] mg/L	19:17:36
2	Ni 231.604†	32.6	32.4	[0.00] mg/L	19:17:36
2	P 214.914†	36.4	36.1	[0.00] mg/L	19:17:36
2	Pb 220.353†	-156.9	-155.7	[0.00] mg/L	19:17:36
2	Sb 206.836†	18.7	18.6	[0.00] mg/L	19:17:36
2	Se 196.026†	-5.7	-5.7	[0.00] mg/L	19:17:36
2	Sn 189.927†	187.9	186.5	[0.00] mg/L	19:17:36
2	Sr 407.771†	6279.8	6233.2	[0.00] mg/L	19:17:10
2	Ti 337.279†	-1877.7	-1863.8	[0.00] mg/L	19:17:15
2	Tl 190.801†	19.4	19.3	[0.00] mg/L	19:17:36
2	V 292.402†	-1624.0	-1612.0	[0.00] mg/L	19:17:15
2	Zn 213.857†	679.1	674.1	[0.00] mg/L	19:17:36

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Calib Units
Y 371.029	3364206.0	35563.93	1.06%	1.00	mg/L
Ag 328.068†	-2553.8	70.07	2.74%	[0.00]	mg/L
Al 237.313†	-53.0	29.85	56.27%	[0.00]	mg/L
As 188.979†	4.7	0.31	6.51%	[0.00]	mg/L
B 182.528†	-2.7	2.91	107.16%	[0.00]	mg/L
Ba 233.527†	-179.9	5.20	2.89%	[0.00]	mg/L
Be 313.107†	2202.5	56.13	2.55%	[0.00]	mg/L
Ca 315.886†	1819.7	99.32	5.46%	[0.00]	mg/L
Cd 228.802†	115.7	2.58	2.23%	[0.00]	mg/L
Co 228.616†	-176.8	1.94	1.10%	[0.00]	mg/L
Cr 267.716†	1355.6	68.90	5.08%	[0.00]	mg/L
Cu 324.752†	1923.4	64.99	3.38%	[0.00]	mg/L
Fe 234.349†	1238.1	8.80	0.71%	[0.00]	mg/L
Fe 238.204†	1115.4	19.38	1.74%	[0.00]	mg/L
K 766.490†	561.4	65.04	11.58%	[0.00]	mg/L
Li 670.784†	170.0	3.07	1.81%	[0.00]	mg/L
Mg 279.077†	542.7	57.77	10.64%	[0.00]	mg/L
Mn 257.610†	1882.1	17.31	0.92%	[0.00]	mg/L
Mo 202.031†	37.3	0.66	1.77%	[0.00]	mg/L
Na 589.592	-813.2	28.95	3.56%	[0.00]	mg/L
Ni 231.604†	29.6	3.92	13.24%	[0.00]	mg/L
P 214.914†	43.8	10.85	24.79%	[0.00]	mg/L
Pb 220.353†	-151.5	5.98	3.95%	[0.00]	mg/L
Sb 206.836†	15.2	4.75	31.26%	[0.00]	mg/L
Se 196.026†	-4.0	2.31	56.97%	[0.00]	mg/L
Sn 189.927†	189.8	4.74	2.50%	[0.00]	mg/L
Sr 407.771†	6304.7	101.03	1.60%	[0.00]	mg/L
Ti 337.279†	-1974.2	156.17	7.91%	[0.00]	mg/L
Tl 190.801†	19.5	0.34	1.77%	[0.00]	mg/L
V 292.402†	-1626.9	21.09	1.30%	[0.00]	mg/L
Zn 213.857†	673.9	0.26	0.04%	[0.00]	mg/L

Sequence No.: 2
Sample ID: Calib Std 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 6/23/2006 7:19:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Analysis Time
1	K 766.490†	9692.4	9224.3	[5.0000]	mg/L	19:20:47
1	Li 670.784†	3619.3	3484.1	[0.1]	mg/L	19:20:47
1	Na 589.592	41907.3	42720.5	[5.0000]	mg/L	19:20:47
1	Y 371.029	3332146.7	3332146.7	0.990	mg/L	19:21:00
1	Ag 328.068†	12183.6	14854.6	[0.05]	mg/L	19:21:06
1	Al 237.313†	4361.0	4456.0	[0.5]	mg/L	19:21:06
1	As 188.979†	75.4	71.4	[0.1000]	mg/L	19:21:26
1	B 182.528†	39.1	42.2	[0.1000]	mg/L	19:21:26
1	Ba 233.527†	11946.9	12241.8	[0.1000]	mg/L	19:21:06
1	Be 313.107†	50113.5	48393.2	[0.0100]	mg/L	19:21:06

1	Ca 315.886†	147144.6	146740.7	[1.0000]	mg/L	19:21:00
1	Cd 228.802†	2161.7	2066.9	[0.0500]	mg/L	19:21:26
1	Co 228.616†	3743.6	3956.4	[0.1000]	mg/L	19:21:26
1	Cr 267.716†	17006.8	15814.9	[0.1000]	mg/L	19:21:06
1	Cu 324.752†	28930.1	27285.0	[0.1000]	mg/L	19:21:06
1	Fe 234.349†	27923.1	26953.7	[0.5]	mg/L	19:21:06
1	Fe 238.204†	60682.4	60150.8	[0.5]	mg/L	19:21:06
1	Mg 279.077†	26060.2	25768.3	[1.0000]	mg/L	19:21:06
1	Mn 257.610†	96018.9	95060.6	[0.1000]	mg/L	19:21:06
1	Mo 202.031†	1567.8	1545.5	[0.1000]	mg/L	19:21:26
1	Ni 231.604†	3209.6	3210.8	[0.1000]	mg/L	19:21:06
1	P 214.914†	1410.1	1379.9	[1]	mg/L	19:21:26
1	Pb 220.353†	761.5	920.4	[0.1000]	mg/L	19:21:26
1	Sb 206.836†	221.9	208.9	[0.1000]	mg/L	19:21:26
1	Se 196.026†	145.5	150.9	[0.2000]	mg/L	19:21:26
1	Sn 189.927†	622.1	438.2	[0.1000]	mg/L	19:21:26
1	Sr 407.771†	234912.4	230867.8	[0.0100]	mg/L	19:21:00
1	Ti 337.279†	76884.3	79598.3	[0.1000]	mg/L	19:21:06
1	Tl 190.801†	109.3	90.9	[0.1000]	mg/L	19:21:26
1	V 292.402†	23641.0	25495.4	[0.1000]	mg/L	19:21:06
1	Zn 213.857†	8391.0	7797.8	[0.1000]	mg/L	19:21:06
2	K 766.490†	9606.1	9045.0	[5.0000]	mg/L	19:20:52
2	Li 670.784†	3661.2	3491.3	[0.1]	mg/L	19:20:52
2	Na 589.592	41852.7	42665.9	[5.0000]	mg/L	19:20:52
2	Y 371.029	3364111.6	3364111.6	1.000	mg/L	19:21:32
2	Ag 328.068†	12106.3	14660.5	[0.05]	mg/L	19:21:37
2	Al 237.313†	4382.4	4435.5	[0.5]	mg/L	19:21:37
2	As 188.979†	80.1	75.4	[0.1000]	mg/L	19:21:58
2	B 182.528†	38.7	41.5	[0.1000]	mg/L	19:21:58
2	Ba 233.527†	11971.0	12151.3	[0.1000]	mg/L	19:21:37
2	Be 313.107†	50169.3	47968.3	[0.0100]	mg/L	19:21:37
2	Ca 315.886†	148252.8	146437.3	[1.0000]	mg/L	19:21:32
2	Cd 228.802†	2139.5	2023.9	[0.0500]	mg/L	19:21:58
2	Co 228.616†	3722.4	3899.3	[0.1000]	mg/L	19:21:58
2	Cr 267.716†	16895.9	15540.8	[0.1000]	mg/L	19:21:37
2	Cu 324.752†	28815.1	26892.5	[0.1000]	mg/L	19:21:37
2	Fe 234.349†	27753.7	26516.4	[0.5]	mg/L	19:21:37
2	Fe 238.204†	60864.3	59750.6	[0.5]	mg/L	19:21:37
2	Mg 279.077†	25959.0	25417.0	[1.0000]	mg/L	19:21:37
2	Mn 257.610†	96297.4	94418.0	[0.1000]	mg/L	19:21:37
2	Mo 202.031†	1561.4	1524.1	[0.1000]	mg/L	19:21:58
2	Ni 231.604†	3137.9	3108.3	[0.1000]	mg/L	19:21:37
2	P 214.914†	1414.8	1371.1	[1]	mg/L	19:21:58
2	Pb 220.353†	758.5	910.1	[0.1000]	mg/L	19:21:58
2	Sb 206.836†	216.3	201.1	[0.1000]	mg/L	19:21:58
2	Se 196.026†	144.8	148.9	[0.2000]	mg/L	19:21:58
2	Sn 189.927†	606.6	416.8	[0.1000]	mg/L	19:21:58
2	Sr 407.771†	236843.5	230545.5	[0.0100]	mg/L	19:21:32
2	Ti 337.279†	77213.3	79189.7	[0.1000]	mg/L	19:21:37
2	Tl 190.801†	107.1	87.6	[0.1000]	mg/L	19:21:58
2	V 292.402†	23412.5	25040.0	[0.1000]	mg/L	19:21:37
2	Zn 213.857†	8402.8	7729.1	[0.1000]	mg/L	19:21:37

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3348129.2	22602.63	0.68%	0.995	mg/L
Ag 328.068†	14757.6	137.30	0.93%	[0.05]	mg/L
Al 237.313†	4445.8	14.45	0.32%	[0.5]	mg/L
As 188.979†	73.4	2.82	3.84%	[0.1000]	mg/L
B 182.528†	41.8	0.53	1.26%	[0.1000]	mg/L
Ba 233.527†	12196.5	64.01	0.52%	[0.1000]	mg/L
Be 313.107†	48180.7	300.45	0.62%	[0.0100]	mg/L
Ca 315.886†	146589.0	214.51	0.15%	[1.0000]	mg/L
Cd 228.802†	2045.4	30.38	1.49%	[0.0500]	mg/L
Co 228.616†	3927.9	40.37	1.03%	[0.1000]	mg/L
Cr 267.716†	15677.8	193.80	1.24%	[0.1000]	mg/L
Cu 324.752†	27088.8	277.55	1.02%	[0.1000]	mg/L
Fe 234.349†	26735.1	309.20	1.16%	[0.5]	mg/L
Fe 238.204†	59950.7	282.97	0.47%	[0.5]	mg/L
K 766.490†	9134.6	126.80	1.39%	[5.0000]	mg/L

Li 670.784†	3487.7	5.09	0.15%	[0.1]	mg/L
Mg 279.077†	25592.6	248.38	0.97%	[1.0000]	mg/L
Mn 257.610†	94739.3	454.37	0.48%	[0.1000]	mg/L
Mo 202.031†	1534.8	15.13	0.99%	[0.1000]	mg/L
Na 589.592	42693.2	38.65	0.09%	[5.0000]	mg/L
Ni 231.604†	3159.6	72.48	2.29%	[0.1000]	mg/L
P 214.914†	1375.5	6.20	0.45%	[1]	mg/L
Pb 220.353†	915.2	7.29	0.80%	[0.1000]	mg/L
Sb 206.836†	205.0	5.47	2.67%	[0.1000]	mg/L
Se 196.026†	149.9	1.45	0.97%	[0.2000]	mg/L
Sn 189.927†	427.5	15.17	3.55%	[0.1000]	mg/L
Sr 407.771†	230706.7	227.93	0.10%	[0.0100]	mg/L
Ti 337.279†	79394.0	288.89	0.36%	[0.1000]	mg/L
Tl 190.801†	89.3	2.31	2.59%	[0.1000]	mg/L
V 292.402†	25267.7	322.00	1.27%	[0.1000]	mg/L
Zn 213.857†	7763.5	48.55	0.63%	[0.1000]	mg/L

Sequence No.: 3
Sample ID: Calib Std 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/23/2006 7:23:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	45716.5	46005.1	[25.0000]	mg/L	19:25:10
1	Li 670.784†	17824.4	17985.8	[0.5]	mg/L	19:25:10
1	Na 589.592	207538.1	208351.3	[25.000]	mg/L	19:25:10
1	Y 371.029	3302797.2	3302797.2	0.982	mg/L	19:25:25
1	Ag 328.068†	68550.1	72378.4	[0.25]	mg/L	19:25:30
1	Al 237.313†	21547.8	22001.5	[2.5]	mg/L	19:25:30
1	As 188.979†	356.2	358.2	[0.5000]	mg/L	19:25:50
1	B 182.528†	207.4	213.9	[0.5000]	mg/L	19:25:50
1	Ba 233.527†	58617.0	59886.8	[0.5000]	mg/L	19:25:30
1	Be 313.107†	236792.9	238993.1	[0.0500]	mg/L	19:25:25
1	Ca 315.886†	718934.3	730481.8	[5.0000]	mg/L	19:25:25
1	Cd 228.802†	10057.2	10128.5	[0.2500]	mg/L	19:25:50
1	Co 228.616†	18481.7	19002.1	[0.5000]	mg/L	19:25:30
1	Cr 267.716†	76807.0	76879.5	[0.5000]	mg/L	19:25:30
1	Cu 324.752†	131774.3	132300.9	[0.5000]	mg/L	19:25:30
1	Fe 234.349†	129594.7	130766.2	[2.5]	mg/L	19:25:30
1	Fe 238.204†	288686.5	292938.7	[2.5]	mg/L	19:25:30
1	Mg 279.077†	123166.3	124913.6	[5.0000]	mg/L	19:25:30
1	Mn 257.610†	452238.2	458764.5	[0.5000]	mg/L	19:25:25
1	Mo 202.031†	7470.7	7572.3	[0.5000]	mg/L	19:25:50
1	Ni 231.604†	15235.3	15488.9	[0.5000]	mg/L	19:25:30
1	P 214.914†	6836.2	6919.6	[5]	mg/L	19:25:50
1	Pb 220.353†	4215.5	4445.4	[0.5000]	mg/L	19:25:50
1	Sb 206.836†	1029.6	1033.6	[0.5000]	mg/L	19:25:50
1	Se 196.026†	761.4	779.6	[1.0000]	mg/L	19:25:50
1	Sn 189.927†	2073.8	1922.6	[0.5000]	mg/L	19:25:50
1	Sr 407.771†	1099531.5	1113670.3	[0.0500]	mg/L	19:25:25
1	Ti 337.279†	384935.7	394067.0	[0.5000]	mg/L	19:25:30
1	Tl 190.801†	544.9	535.5	[0.5000]	mg/L	19:25:50
1	V 292.402†	121040.1	124917.4	[0.5000]	mg/L	19:25:30
1	Zn 213.857†	38383.1	38422.8	[0.5000]	mg/L	19:25:30
2	K 766.490†	45238.6	45066.6	[25.0000]	mg/L	19:25:15
2	Li 670.784†	17588.9	17570.4	[0.5]	mg/L	19:25:15
2	Na 589.592	204854.8	205668.0	[25.000]	mg/L	19:25:15
2	Y 371.029	3335489.2	3335489.2	0.991	mg/L	19:25:57
2	Ag 328.068†	68876.4	72023.2	[0.25]	mg/L	19:26:03
2	Al 237.313†	21663.6	21903.2	[2.5]	mg/L	19:26:03
2	As 188.979†	352.2	350.5	[0.5000]	mg/L	19:26:23
2	B 182.528†	212.2	216.8	[0.5000]	mg/L	19:26:23
2	Ba 233.527†	59035.9	59724.1	[0.5000]	mg/L	19:26:03
2	Be 313.107†	239140.7	238997.1	[0.0500]	mg/L	19:25:57
2	Ca 315.886†	725443.5	729869.5	[5.0000]	mg/L	19:25:57
2	Cd 228.802†	10108.4	10079.8	[0.2500]	mg/L	19:26:23
2	Co 228.616†	18552.5	18889.0	[0.5000]	mg/L	19:26:03

2	Cr 267.716†	77385.4	76696.0	[0.5000]	mg/L	19:26:03
2	Cu 324.752†	132835.3	132055.5	[0.5000]	mg/L	19:26:03
2	Fe 234.349†	130763.8	130651.6	[2.5]	mg/L	19:26:03
2	Fe 238.204†	290751.6	292139.4	[2.5]	mg/L	19:26:03
2	Mg 279.077†	123849.3	124372.9	[5.0000]	mg/L	19:26:03
2	Mn 257.610†	456375.8	458422.9	[0.5000]	mg/L	19:25:57
2	Mo 202.031†	7517.5	7544.9	[0.5000]	mg/L	19:26:23
2	Ni 231.604†	15456.1	15559.6	[0.5000]	mg/L	19:26:03
2	P 214.914†	6854.8	6870.1	[5]	mg/L	19:26:23
2	Pb 220.353†	4254.5	4442.7	[0.5000]	mg/L	19:26:23
2	Sb 206.836†	1048.2	1042.1	[0.5000]	mg/L	19:26:23
2	Se 196.026†	760.8	771.4	[1.0000]	mg/L	19:26:23
2	Sn 189.927†	2093.8	1922.0	[0.5000]	mg/L	19:26:23
2	Sr 407.771†	1110374.8	1113629.8	[0.0500]	mg/L	19:25:57
2	Ti 337.279†	387700.9	393013.1	[0.5000]	mg/L	19:26:03
2	Tl 190.801†	568.2	553.6	[0.5000]	mg/L	19:26:23
2	V 292.402†	121949.5	124626.3	[0.5000]	mg/L	19:26:03
2	Zn 213.857†	38699.5	38358.8	[0.5000]	mg/L	19:26:03

Mean Data: Calib Std 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3319143.2	23116.69	0.70%	0.987	mg/L
Ag 328.068†	72200.8	251.17	0.35%	[0.25]	mg/L
Al 237.313†	21952.4	69.52	0.32%	[2.5]	mg/L
As 188.979†	354.3	5.43	1.53%	[0.5000]	mg/L
B 182.528†	215.4	2.02	0.94%	[0.5000]	mg/L
Ba 233.527†	59805.4	115.01	0.19%	[0.5000]	mg/L
Be 313.107†	238995.1	2.83	0.00%	[0.0500]	mg/L
Ca 315.886†	730175.6	432.91	0.06%	[5.0000]	mg/L
Cd 228.802†	10104.2	34.48	0.34%	[0.2500]	mg/L
Co 228.616†	18945.6	79.96	0.42%	[0.5000]	mg/L
Cr 267.716†	76787.8	129.73	0.17%	[0.5000]	mg/L
Cu 324.752†	132178.2	173.52	0.13%	[0.5000]	mg/L
Fe 234.349†	130708.9	81.06	0.06%	[2.5]	mg/L
Fe 238.204†	292539.1	565.14	0.19%	[2.5]	mg/L
K 766.490†	45535.9	663.61	1.46%	[25.0000]	mg/L
Li 670.784†	17778.1	293.78	1.65%	[0.5]	mg/L
Mg 279.077†	124643.3	382.37	0.31%	[5.0000]	mg/L
Mn 257.610†	458593.7	241.58	0.05%	[0.5000]	mg/L
Mo 202.031†	7558.6	19.34	0.26%	[0.5000]	mg/L
Na 589.592	207009.6	1897.39	0.92%	[25.000]	mg/L
Ni 231.604†	15524.3	49.96	0.32%	[0.5000]	mg/L
P 214.914†	6894.8	35.00	0.51%	[5]	mg/L
Pb 220.353†	4444.0	1.93	0.04%	[0.5000]	mg/L
Sb 206.836†	1037.8	6.00	0.58%	[0.5000]	mg/L
Se 196.026†	775.5	5.84	0.75%	[1.0000]	mg/L
Sn 189.927†	1922.3	0.42	0.02%	[0.5000]	mg/L
Sr 407.771†	1113650.1	28.63	0.00%	[0.0500]	mg/L
Ti 337.279†	393540.0	745.25	0.19%	[0.5000]	mg/L
Tl 190.801†	544.6	12.82	2.35%	[0.5000]	mg/L
V 292.402†	124771.9	205.84	0.16%	[0.5000]	mg/L
Zn 213.857†	38390.8	45.31	0.12%	[0.5000]	mg/L

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Sequence No.: 4
Sample ID: Calib Std 3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/23/2006 7:28:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 3

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	89171.3	91559.2	[50.0000]	mg/L	19:29:40
1	Li 670.784†	33973.8	34927.5	[1]	mg/L	19:29:40
1	Na 589.592	410626.4	411439.6	[50.000]	mg/L	19:29:40
1	Y 371.029	3256498.5	3256498.5	0.968	mg/L	19:29:57
1	Ag 328.068†	137922.3	145037.8	[0.5]	mg/L	19:30:03
1	Al 237.313†	43396.1	44884.4	[5]	mg/L	19:30:03

1	As 188.979†	719.0	738.1	[1.0000]	mg/L	19:30:23
1	B 182.528†	430.4	447.3	[1.0000]	mg/L	19:30:23
1	Ba 233.527†	117614.6	121684.6	[1.0000]	mg/L	19:30:03
1	Be 313.107†	476109.9	489654.6	[0.1000]	mg/L	19:30:03
1	Ca 315.886†	1413486.6	1458417.5	[10.0000]	mg/L	19:29:57
1	Cd 228.802†	19896.5	20438.9	[0.5000]	mg/L	19:30:23
1	Co 228.616†	37190.9	38597.8	[1.0000]	mg/L	19:30:23
1	Cr 267.716†	152703.7	156398.7	[1.0000]	mg/L	19:30:03
1	Cu 324.752†	260246.3	266930.4	[1.0000]	mg/L	19:30:03
1	Fe 234.349†	258442.1	265751.9	[5.0]	mg/L	19:30:03
1	Fe 238.204†	575655.5	593579.7	[5.0]	mg/L	19:30:03
1	Mg 279.077†	245591.7	253171.8	[10.0000]	mg/L	19:30:03
1	Mn 257.610†	883692.0	911037.7	[1.0000]	mg/L	19:29:57
1	Mo 202.031†	14858.7	15312.8	[1.0000]	mg/L	19:30:23
1	Ni 231.604†	30726.8	31713.5	[1.0000]	mg/L	19:30:03
1	P 214.914†	13745.3	14156.1	[10]	mg/L	19:30:23
1	Pb 220.353†	8510.4	8943.4	[1.0000]	mg/L	19:30:23
1	Sb 206.836†	2044.0	2096.4	[1.0000]	mg/L	19:30:23
1	Se 196.026†	1544.1	1599.2	[2.0000]	mg/L	19:30:23
1	Sn 189.927†	3873.1	3811.3	[1.0000]	mg/L	19:30:23
1	Sr 407.771†	2153330.1	2218246.0	[0.1000]	mg/L	19:29:57
1	Ti 337.279†	775169.8	802782.5	[1.0000]	mg/L	19:30:03
1	Tl 190.801†	1198.0	1218.1	[1.0000]	mg/L	19:30:23
1	V 292.402†	245455.4	255200.6	[1.0000]	mg/L	19:30:03
1	Zn 213.857†	76689.3	78551.9	[1.0000]	mg/L	19:30:03
2	K 766.490†	89857.5	90866.8	[50.0000]	mg/L	19:29:47
2	Li 670.784†	34144.3	34571.1	[1]	mg/L	19:29:47
2	Na 589.592	411949.9	412763.1	[50.000]	mg/L	19:29:47
2	Y 371.029	3306410.9	3306410.9	0.983	mg/L	19:30:31
2	Ag 328.068†	137509.4	142466.8	[0.5]	mg/L	19:30:37
2	Al 237.313†	42843.2	43645.1	[5]	mg/L	19:30:37
2	As 188.979†	719.0	726.8	[1.0000]	mg/L	19:30:57
2	B 182.528†	432.1	442.4	[1.0000]	mg/L	19:30:57
2	Ba 233.527†	116194.5	118405.5	[1.0000]	mg/L	19:30:37
2	Be 313.107†	471395.5	477432.9	[0.1000]	mg/L	19:30:37
2	Ca 315.886†	1433879.8	1457123.9	[10.0000]	mg/L	19:30:31
2	Cd 228.802†	19885.0	20116.9	[0.5000]	mg/L	19:30:57
2	Co 228.616†	37122.9	37948.6	[1.0000]	mg/L	19:30:57
2	Cr 267.716†	150765.3	152045.1	[1.0000]	mg/L	19:30:37
2	Cu 324.752†	257869.7	260453.8	[1.0000]	mg/L	19:30:37
2	Fe 234.349†	254762.7	257977.8	[5.0]	mg/L	19:30:37
2	Fe 238.204†	567974.4	576787.0	[5.0]	mg/L	19:30:37
2	Mg 279.077†	241892.3	245577.8	[10.0000]	mg/L	19:30:37
2	Mn 257.610†	895670.9	909444.8	[1.0000]	mg/L	19:30:31
2	Mo 202.031†	14884.6	15107.5	[1.0000]	mg/L	19:30:57
2	Ni 231.604†	30369.5	30870.8	[1.0000]	mg/L	19:30:37
2	P 214.914†	13724.3	13920.4	[10]	mg/L	19:30:57
2	Pb 220.353†	8482.8	8782.6	[1.0000]	mg/L	19:30:57
2	Sb 206.836†	2039.0	2059.5	[1.0000]	mg/L	19:30:57
2	Se 196.026†	1558.6	1589.9	[2.0000]	mg/L	19:30:57
2	Sn 189.927†	3896.9	3775.2	[1.0000]	mg/L	19:30:57
2	Sr 407.771†	2180632.8	2212444.9	[0.1000]	mg/L	19:30:31
2	Ti 337.279†	768387.4	783792.8	[1.0000]	mg/L	19:30:37
2	Tl 190.801†	1209.8	1211.5	[1.0000]	mg/L	19:30:57
2	V 292.402†	242724.5	248594.2	[1.0000]	mg/L	19:30:37
2	Zn 213.857†	75498.0	76143.7	[1.0000]	mg/L	19:30:37

Mean Data: Calib Std 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3281454.7	35293.36	1.08%	0.975	mg/L
Ag 328.068†	143752.3	1817.95	1.26%	[0.5]	mg/L
Al 237.313†	44264.8	876.31	1.98%	[5]	mg/L
As 188.979†	732.4	7.96	1.09%	[1.0000]	mg/L
B 182.528†	444.8	3.50	0.79%	[1.0000]	mg/L
Ba 233.527†	120045.0	2318.69	1.93%	[1.0000]	mg/L
Be 313.107†	483543.8	8642.05	1.79%	[0.1000]	mg/L
Ca 315.886†	1457770.7	914.73	0.06%	[10.0000]	mg/L
Cd 228.802†	20277.9	227.73	1.12%	[0.5000]	mg/L
Co 228.616†	38273.2	459.04	1.20%	[1.0000]	mg/L
Cr 267.716†	154221.9	3078.45	2.00%	[1.0000]	mg/L

Cu 324.752†	263692.1	4579.68	1.74%	[1.0000]	mg/L
Fe 234.349†	261864.8	5497.07	2.10%	[5.0]	mg/L
Fe 238.204†	585183.4	11874.24	2.03%	[5.0]	mg/L
K 766.490†	91213.0	489.66	0.54%	[50.0000]	mg/L
Li 670.784†	34749.3	252.03	0.73%	[1]	mg/L
Mg 279.077†	249374.8	5369.80	2.15%	[10.0000]	mg/L
Mn 257.610†	910241.3	1126.32	0.12%	[1.0000]	mg/L
Mo 202.031†	15210.2	145.16	0.95%	[1.0000]	mg/L
Na 589.592	412101.3	935.82	0.23%	[50.000]	mg/L
Ni 231.604†	31292.1	595.88	1.90%	[1.0000]	mg/L
P 214.914†	14038.3	166.68	1.19%	[10]	mg/L
Pb 220.353†	8863.0	113.68	1.28%	[1.0000]	mg/L
Sb 206.836†	2077.9	26.15	1.26%	[1.0000]	mg/L
Se 196.026†	1594.6	6.54	0.41%	[2.0000]	mg/L
Sn 189.927†	3793.3	25.56	0.67%	[1.0000]	mg/L
Sr 407.771†	2215345.5	4102.01	0.19%	[0.1000]	mg/L
Ti 337.279†	793287.7	13427.78	1.69%	[1.0000]	mg/L
Tl 190.801†	1214.8	4.71	0.39%	[1.0000]	mg/L
V 292.402†	251897.4	4671.46	1.85%	[1.0000]	mg/L
Zn 213.857†	77347.8	1702.81	2.20%	[1.0000]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin, Calc Int	229.8	287200	0.00000	0.999995	
Al 237.313	3	Lin, Calc Int	-24.8	8845	0.00000	0.999990	
As 188.979	3	Lin, Calc Int	-2.2	730.5	0.00000	0.999842	
B 182.528	3	Lin, Calc Int	-2.5	445.0	0.00000	0.999864	
Ba 233.527	3	Lin, Calc Int	44.9	119900	0.00000	0.999996	
Be 313.107	3	Lin, Calc Int	-592.1	4832000	0.00000	0.999981	
Ca 315.886	3	Lin, Calc Int	599.5	145800	0.00000	1.000000	
Cd 228.802	3	Lin, Calc Int	1.3	40530	0.00000	0.999997	
Co 228.616	3	Lin, Calc Int	9.2	38190	0.00000	0.999978	
Cr 267.716	3	Lin, Calc Int	53.4	154000	0.00000	0.999995	
Cu 324.752	3	Lin, Calc Int	380.8	263400	0.00000	0.999997	
Fe 234.349	3	Lin, Calc Int	201.9	52310	0.00000	0.999997	
Fe 238.204	3	Lin, Calc Int	625.6	116900	0.00000	0.999997	
K 766.490	3	Lin, Calc Int	-7.2	1824	0.00000	1.000000	
Li 670.784	3	Lin, Calc Int	80.5	34810	0.00000	0.999922	
Mg 279.077	3	Lin, Calc Int	282.4	24910	0.00000	0.999996	
Mn 257.610	3	Lin, Calc Int	2292.1	909000	0.00000	0.999988	
Mo 202.031	3	Lin, Calc Int	-2.5	15200	0.00000	0.999993	
Na 589.592	3	Lin, Calc Int	835.7	8231	0.00000	0.999993	
Ni 231.604	3	Lin, Calc Int	-9.1	31260	0.00000	0.999989	
P 214.914	3	Lin, Calc Int	-35.6	1403	0.00000	0.999957	
Pb 220.353	3	Lin, Calc Int	15.2	8851	0.00000	0.999995	
Sb 206.836	3	Lin, Calc Int	-1.4	2079	0.00000	0.999999	
Se 196.026	3	Lin, Calc Int	-8.3	797.8	0.00000	0.999899	
Sn 189.927	3	Lin, Calc Int	26.1	3774	0.00000	0.999921	
Sr 407.771	3	Lin, Calc Int	5177.0	22120000	0.00000	0.999991	
Ti 337.279	3	Lin, Calc Int	-546.8	792800	0.00000	0.999991	
Tl 190.801	3	Lin, Calc Int	-25.9	1220	0.00000	0.998535	
V 292.402	3	Lin, Calc Int	-183.7	251700	0.00000	0.999987	
Zn 213.857	3	Lin, Calc Int	-39.8	77290	0.00000	0.999992	

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Sequence No.: 5
Sample ID: STD2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/23/2006 7:32:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: STD2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	K 766.490†	44856.3	45056.9	24.71	mg/L	24.71	mg/L	19:34:11
1	Li 670.784†	17575.4	17703.9	0.5063	mg/L	0.5063	mg/L	19:34:11
1	Na 589.592	207218.7	208031.9	25.17	mg/L	25.17	mg/L	19:34:11
1	Y 371.029	3308013.0	3308013.0	0.983	mg/L			19:34:26
1	Ag 328.068†	68893.0	72617.1	0.2525	mg/L	0.2525	mg/L	19:34:31

1	Al 237.313†	21723.8	22145.9	2.497 mg/L	2.497 mg/L	19:34:31
1	As 188.979†	358.3	359.7	0.4942 mg/L	0.4942 mg/L	19:34:52
1	B 182.528†	214.6	221.0	0.5021 mg/L	0.5021 mg/L	19:34:52
1	Ba 233.527†	59333.8	60521.6	0.5042 mg/L	0.5042 mg/L	19:34:31
1	Be 313.107†	237326.6	239155.6	0.0492 mg/L	0.0492 mg/L	19:34:26
1	Ca 315.886†	720364.6	730781.7	5.012 mg/L	5.012 mg/L	19:34:26
1	Cd 228.802†	10180.7	10237.9	0.2524 mg/L	0.2524 mg/L	19:34:52
1	Co 228.616†	18691.5	19185.8	0.5009 mg/L	0.5009 mg/L	19:34:31
1	Cr 267.716†	77904.5	77872.3	0.5048 mg/L	0.5048 mg/L	19:34:31
1	Cu 324.752†	133265.1	133605.4	0.5065 mg/L	0.5065 mg/L	19:34:31
1	Fe 234.349†	131381.6	132375.3	2.521 mg/L	2.521 mg/L	19:34:31
1	Fe 238.204†	291916.0	295759.3	2.525 mg/L	2.525 mg/L	19:34:31
1	Mg 279.077†	124565.1	126138.3	5.058 mg/L	5.058 mg/L	19:34:31
1	Mn 257.610†	453492.3	459313.6	0.5029 mg/L	0.5029 mg/L	19:34:26
1	Mo 202.031†	7631.1	7723.4	0.5084 mg/L	0.5084 mg/L	19:34:52
1	Ni 231.604†	15476.5	15709.7	0.5035 mg/L	0.5035 mg/L	19:34:31
1	P 214.914†	6929.2	7003.1	5.016 mg/L	5.016 mg/L	19:34:52
1	Pb 220.353†	4298.3	4522.8	0.5105 mg/L	0.5105 mg/L	19:34:52
1	Sb 206.836†	1055.8	1058.5	0.4991 mg/L	0.4991 mg/L	19:34:52
1	Se 196.026†	785.1	802.5	1.016 mg/L	1.016 mg/L	19:34:52
1	Sn 189.927†	2068.2	1913.5	0.5007 mg/L	0.5007 mg/L	19:34:52
1	Sr 407.771†	1104912.2	1117376.6	0.0503 mg/L	0.0503 mg/L	19:34:26
1	Ti 337.279†	383613.6	392104.3	0.4953 mg/L	0.4953 mg/L	19:34:26
1	Tl 190.801†	617.1	608.1	0.5222 mg/L	0.5222 mg/L	19:34:52
1	V 292.402†	122629.8	126339.7	0.5100 mg/L	0.5100 mg/L	19:34:31
1	Zn 213.857†	38992.1	38980.5	0.5024 mg/L	0.5024 mg/L	19:34:31
2	K 766.490†	44942.4	45027.1	24.69 mg/L	24.69 mg/L	19:34:16
2	Li 670.784†	17538.6	17620.7	0.5039 mg/L	0.5039 mg/L	19:34:16
2	Na 589.592	206829.6	207642.8	25.13 mg/L	25.13 mg/L	19:34:16
2	Y 371.029	3316523.8	3316523.8	0.986 mg/L		19:34:58
2	Ag 328.068†	68904.4	72448.8	0.2519 mg/L	0.2519 mg/L	19:35:04
2	Al 237.313†	21632.1	21996.1	2.481 mg/L	2.481 mg/L	19:35:04
2	As 188.979†	342.2	342.4	0.4705 mg/L	0.4705 mg/L	19:35:24
2	B 182.528†	208.1	213.8	0.4860 mg/L	0.4860 mg/L	19:35:24
2	Ba 233.527†	59136.2	60166.4	0.5013 mg/L	0.5013 mg/L	19:35:04
2	Be 313.107†	238262.9	239486.0	0.0492 mg/L	0.0492 mg/L	19:34:58
2	Ca 315.886†	723729.1	732314.6	5.023 mg/L	5.023 mg/L	19:34:58
2	Cd 228.802†	10080.6	10109.8	0.2494 mg/L	0.2494 mg/L	19:35:24
2	Co 228.616†	18637.2	19082.0	0.4982 mg/L	0.4982 mg/L	19:35:04
2	Cr 267.716†	77505.5	77264.2	0.5008 mg/L	0.5008 mg/L	19:35:04
2	Cu 324.752†	132398.5	132378.5	0.5019 mg/L	0.5019 mg/L	19:35:04
2	Fe 234.349†	131075.8	131722.3	2.509 mg/L	2.509 mg/L	19:35:04
2	Fe 238.204†	291548.9	294625.1	2.516 mg/L	2.516 mg/L	19:35:04
2	Mg 279.077†	124353.5	125598.6	5.036 mg/L	5.036 mg/L	19:35:04
2	Mn 257.610†	455822.4	460493.7	0.5042 mg/L	0.5042 mg/L	19:34:58
2	Mo 202.031†	7569.1	7640.6	0.5030 mg/L	0.5030 mg/L	19:35:24
2	Ni 231.604†	15426.7	15618.9	0.5006 mg/L	0.5006 mg/L	19:35:04
2	P 214.914†	6897.4	6952.8	4.980 mg/L	4.980 mg/L	19:35:24
2	Pb 220.353†	4280.2	4493.3	0.5071 mg/L	0.5071 mg/L	19:35:24
2	Sb 206.836†	1044.9	1044.7	0.4925 mg/L	0.4925 mg/L	19:35:24
2	Se 196.026†	754.4	769.3	0.9746 mg/L	0.9746 mg/L	19:35:24
2	Sn 189.927†	2065.3	1905.2	0.4985 mg/L	0.4985 mg/L	19:35:24
2	Sr 407.771†	1109754.7	1119405.1	0.0504 mg/L	0.0504 mg/L	19:34:58
2	Ti 337.279†	385519.4	393036.3	0.4965 mg/L	0.4965 mg/L	19:34:58
2	Tl 190.801†	619.2	608.6	0.5227 mg/L	0.5227 mg/L	19:35:24
2	V 292.402†	121981.1	125361.7	0.5060 mg/L	0.5060 mg/L	19:35:04
2	Zn 213.857†	38769.3	38652.8	0.4982 mg/L	0.4982 mg/L	19:35:04

Mean Data: STD2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3312268.4	0.985	mg/L	0.0018				0.18%
Ag 328.068†	72533.0	0.2522	mg/L	0.00042	0.2522	mg/L	0.00042	0.17%
QC value within limits for Ag 328.068 Recovery = 100.87%								
Al 237.313†	22071.0	2.489	mg/L	0.0120	2.489	mg/L	0.0120	0.48%
QC value within limits for Al 237.313 Recovery = 99.56%								
As 188.979†	351.0	0.4824	mg/L	0.01674	0.4824	mg/L	0.01674	3.47%
QC value within limits for As 188.979 Recovery = 96.47%								
B 182.528†	217.4	0.4941	mg/L	0.01138	0.4941	mg/L	0.01138	2.30%
QC value within limits for B 182.528 Recovery = 98.82%								
Ba 233.527†	60344.0	0.5028	mg/L	0.00209	0.5028	mg/L	0.00209	0.42%

QC value within limits for Ba 233.527 Recovery = 100.55%						
Be 313.107†	239320.8	0.0492 mg/L	0.00005	0.0492 mg/L	0.00005	0.10%
QC value within limits for Be 313.107 Recovery = 98.43%						
Ca 315.886†	731548.1	5.017 mg/L	0.0074	5.017 mg/L	0.0074	0.15%
QC value within limits for Ca 315.886 Recovery = 100.35%						
Cd 228.802†	10173.9	0.2509 mg/L	0.00215	0.2509 mg/L	0.00215	0.86%
QC value within limits for Cd 228.802 Recovery = 100.35%						
Co 228.616†	19133.9	0.4996 mg/L	0.00192	0.4996 mg/L	0.00192	0.39%
QC value within limits for Co 228.616 Recovery = 99.91%						
Cr 267.716†	77568.2	0.5028 mg/L	0.00279	0.5028 mg/L	0.00279	0.56%
QC value within limits for Cr 267.716 Recovery = 100.56%						
Cu 324.752†	132992.0	0.5042 mg/L	0.00329	0.5042 mg/L	0.00329	0.65%
QC value within limits for Cu 324.752 Recovery = 100.84%						
Fe 234.349†	132048.8	2.515 mg/L	0.0088	2.515 mg/L	0.0088	0.35%
QC value within limits for Fe 234.349 Recovery = 100.59%						
Fe 238.204†	295192.2	2.521 mg/L	0.0069	2.521 mg/L	0.0069	0.27%
QC value within limits for Fe 238.204 Recovery = 100.82%						
K 766.490†	45042.0	24.70 mg/L	0.012	24.70 mg/L	0.012	0.05%
QC value within limits for K 766.490 Recovery = 98.80%						
Li 670.784†	17662.3	0.5051 mg/L	0.00169	0.5051 mg/L	0.00169	0.33%
QC value within limits for Li 670.784 Recovery = 101.02%						
Mg 279.077†	125868.5	5.047 mg/L	0.0153	5.047 mg/L	0.0153	0.30%
QC value within limits for Mg 279.077 Recovery = 100.93%						
Mn 257.610†	459903.7	0.5035 mg/L	0.00092	0.5035 mg/L	0.00092	0.18%
QC value within limits for Mn 257.610 Recovery = 100.70%						
Mo 202.031†	7682.0	0.5057 mg/L	0.00385	0.5057 mg/L	0.00385	0.76%
QC value within limits for Mo 202.031 Recovery = 101.14%						
Na 589.592	207837.4	25.15 mg/L	0.033	25.15 mg/L	0.033	0.13%
QC value within limits for Na 589.592 Recovery = 100.60%						
Ni 231.604†	15664.3	0.5020 mg/L	0.00206	0.5020 mg/L	0.00206	0.41%
QC value within limits for Ni 231.604 Recovery = 100.41%						
P 214.914†	6978.0	4.998 mg/L	0.0254	4.998 mg/L	0.0254	0.51%
QC value within limits for P 214.914 Recovery = 99.97%						
Pb 220.353†	4508.0	0.5088 mg/L	0.00237	0.5088 mg/L	0.00237	0.47%
QC value within limits for Pb 220.353 Recovery = 101.76%						
Sb 206.836†	1051.6	0.4958 mg/L	0.00465	0.4958 mg/L	0.00465	0.94%
QC value within limits for Sb 206.836 Recovery = 99.16%						
Se 196.026†	785.9	0.9954 mg/L	0.02942	0.9954 mg/L	0.02942	2.96%
QC value within limits for Se 196.026 Recovery = 99.54%						
Sn 189.927†	1909.4	0.4996 mg/L	0.00156	0.4996 mg/L	0.00156	0.31%
QC value within limits for Sn 189.927 Recovery = 99.92%						
Sr 407.771†	1118390.9	0.0503 mg/L	0.00006	0.0503 mg/L	0.00006	0.13%
QC value within limits for Sr 407.771 Recovery = 100.66%						
Ti 337.279†	392570.3	0.4959 mg/L	0.00083	0.4959 mg/L	0.00083	0.17%
QC value within limits for Ti 337.279 Recovery = 99.18%						
Tl 190.801†	608.4	0.5225 mg/L	0.00033	0.5225 mg/L	0.00033	0.06%
QC value within limits for Tl 190.801 Recovery = 104.49%						
V 292.402†	125850.7	0.5080 mg/L	0.00281	0.5080 mg/L	0.00281	0.55%
QC value within limits for V 292.402 Recovery = 101.59%						
Zn 213.857†	38816.6	0.5003 mg/L	0.00299	0.5003 mg/L	0.00299	0.60%
QC value within limits for Zn 213.857 Recovery = 100.05%						

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/23/2006 7:37:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	44831.8	45111.1	24.74	mg/L	24.74	mg/L	19:38:38
1	Li 670.784†	17273.7	17427.6	0.4984	mg/L	0.4984	mg/L	19:38:38
1	Na 589.592	203388.6	204201.8	24.71	mg/L	24.71	mg/L	19:38:38
1	Y 371.029	3302280.7	3302280.7	0.982	mg/L			19:38:53
1	Ag 328.068†	69035.2	72883.6	0.2534	mg/L	0.2534	mg/L	19:38:58
1	Al 237.313†	21517.0	21973.5	2.478	mg/L	2.478	mg/L	19:38:58
1	As 188.979†	337.6	339.3	0.4663	mg/L	0.4663	mg/L	19:39:19
1	B 182.528†	203.9	210.5	0.4786	mg/L	0.4786	mg/L	19:39:19

1	Ba 233.527†	58332.5	59606.3	0.4966 mg/L	0.4966 mg/L	19:38:58
1	Be 313.107†	239690.1	241982.4	0.0498 mg/L	0.0498 mg/L	19:38:53
1	Ca 315.886†	722251.6	733975.8	5.034 mg/L	5.034 mg/L	19:38:53
1	Cd 228.802†	10150.3	10224.9	0.2522 mg/L	0.2522 mg/L	19:39:19
1	Co 228.616†	18506.1	19029.9	0.4970 mg/L	0.4970 mg/L	19:38:58
1	Cr 267.716†	77813.3	77916.9	0.5050 mg/L	0.5050 mg/L	19:38:58
1	Cu 324.752†	132179.4	132734.6	0.5032 mg/L	0.5032 mg/L	19:38:58
1	Fe 234.349†	132344.5	133588.1	2.544 mg/L	2.544 mg/L	19:38:58
1	Fe 238.204†	294451.9	298858.2	2.552 mg/L	2.552 mg/L	19:38:58
1	Mg 279.077†	122592.2	124348.4	4.986 mg/L	4.986 mg/L	19:38:58
1	Mn 257.610†	451557.6	458143.2	0.5016 mg/L	0.5016 mg/L	19:38:53
1	Mo 202.031†	7492.4	7595.6	0.5000 mg/L	0.5000 mg/L	19:39:19
1	Ni 231.604†	15395.4	15654.5	0.5017 mg/L	0.5017 mg/L	19:38:58
1	P 214.914†	6734.6	6817.1	4.884 mg/L	4.884 mg/L	19:39:19
1	Pb 220.353†	4202.1	4432.4	0.5002 mg/L	0.5002 mg/L	19:39:19
1	Sb 206.836†	1021.8	1025.8	0.4834 mg/L	0.4834 mg/L	19:39:19
1	Se 196.026†	757.2	775.5	0.9823 mg/L	0.9823 mg/L	19:39:19
1	Sn 189.927†	2059.1	1907.9	0.4992 mg/L	0.4992 mg/L	19:39:19
1	Sr 407.771†	1101862.3	1116220.0	0.0502 mg/L	0.0502 mg/L	19:38:53
1	Ti 337.279†	340095.8	348447.6	0.4402 mg/L	0.4402 mg/L	19:38:58
1	Tl 190.801†	589.5	581.1	0.5002 mg/L	0.5002 mg/L	19:39:19
1	V 292.402†	121127.7	125026.0	0.5047 mg/L	0.5047 mg/L	19:38:58
1	Zn 213.857†	39006.0	39063.5	0.5034 mg/L	0.5034 mg/L	19:38:58
2	K 766.490†	45120.5	45270.3	24.82 mg/L	24.82 mg/L	19:38:44
2	Li 670.784†	17427.9	17532.6	0.5014 mg/L	0.5014 mg/L	19:38:44
2	Na 589.592	207351.3	208164.5	25.19 mg/L	25.19 mg/L	19:38:44
2	Y 371.029	3311998.3	3311998.3	0.984 mg/L		19:39:25
2	Ag 328.068†	69376.2	73023.7	0.2539 mg/L	0.2539 mg/L	19:39:31
2	Al 237.313†	21395.7	21786.1	2.457 mg/L	2.457 mg/L	19:39:31
2	As 188.979†	336.2	336.8	0.4630 mg/L	0.4630 mg/L	19:39:51
2	B 182.528†	207.4	213.4	0.4851 mg/L	0.4851 mg/L	19:39:51
2	Ba 233.527†	57990.7	59084.8	0.4923 mg/L	0.4923 mg/L	19:39:31
2	Be 313.107†	240418.8	242006.1	0.0498 mg/L	0.0498 mg/L	19:39:25
2	Ca 315.886†	726050.8	735676.1	5.046 mg/L	5.046 mg/L	19:39:25
2	Cd 228.802†	10152.2	10196.5	0.2515 mg/L	0.2515 mg/L	19:39:51
2	Co 228.616†	18388.1	18854.8	0.4924 mg/L	0.4924 mg/L	19:39:31
2	Cr 267.716†	77357.4	77221.2	0.5005 mg/L	0.5005 mg/L	19:39:31
2	Cu 324.752†	132092.7	132251.5	0.5013 mg/L	0.5013 mg/L	19:39:31
2	Fe 234.349†	131624.2	132460.9	2.523 mg/L	2.523 mg/L	19:39:31
2	Fe 238.204†	293001.7	296505.0	2.532 mg/L	2.532 mg/L	19:39:31
2	Mg 279.077†	121724.1	123100.2	4.936 mg/L	4.936 mg/L	19:39:31
2	Mn 257.610†	453185.4	458447.0	0.5019 mg/L	0.5019 mg/L	19:39:25
2	Mo 202.031†	7535.1	7616.6	0.5014 mg/L	0.5014 mg/L	19:39:51
2	Ni 231.604†	15322.9	15534.9	0.4979 mg/L	0.4979 mg/L	19:39:31
2	P 214.914†	6726.2	6788.5	4.863 mg/L	4.863 mg/L	19:39:51
2	Pb 220.353†	4210.4	4428.2	0.4998 mg/L	0.4998 mg/L	19:39:51
2	Sb 206.836†	1020.5	1021.4	0.4813 mg/L	0.4813 mg/L	19:39:51
2	Se 196.026†	745.5	761.3	0.9646 mg/L	0.9646 mg/L	19:39:51
2	Sn 189.927†	2067.0	1909.8	0.4996 mg/L	0.4996 mg/L	19:39:51
2	Sr 407.771†	1104352.3	1115455.8	0.0502 mg/L	0.0502 mg/L	19:39:25
2	Ti 337.279†	337887.6	345188.1	0.4361 mg/L	0.4361 mg/L	19:39:31
2	Tl 190.801†	608.7	598.8	0.5147 mg/L	0.5147 mg/L	19:39:51
2	V 292.402†	120520.0	124046.7	0.5008 mg/L	0.5008 mg/L	19:39:31
2	Zn 213.857†	38766.1	38703.3	0.4988 mg/L	0.4988 mg/L	19:39:31

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3307139.5	0.983	mg/L	0.0020				0.21%
Ag 328.068†	72953.6	0.2536	mg/L	0.00034	0.2536	mg/L	0.00034	0.14%
QC value within limits for Ag 328.068 Recovery = 101.46%								
Al 237.313†	21879.8	2.467	mg/L	0.0149	2.467	mg/L	0.0149	0.61%
QC value within limits for Al 237.313 Recovery = 98.69%								
As 188.979†	338.0	0.4647	mg/L	0.00235	0.4647	mg/L	0.00235	0.51%
QC value within limits for As 188.979 Recovery = 92.93%								
B 182.528†	211.9	0.4818	mg/L	0.00460	0.4818	mg/L	0.00460	0.95%
QC value within limits for B 182.528 Recovery = 96.37%								
Ba 233.527†	59345.5	0.4944	mg/L	0.00307	0.4944	mg/L	0.00307	0.62%
QC value within limits for Ba 233.527 Recovery = 98.89%								
Be 313.107†	241994.2	0.0498	mg/L	0.00001	0.0498	mg/L	0.00001	0.01%
QC value within limits for Be 313.107 Recovery = 99.66%								

Ca 315.886†	734825.9	5.040 mg/L	0.0082	5.040 mg/L	0.0082	0.16%
QC value within limits for Ca 315.886 Recovery = 100.80%						
Cd 228.802†	10210.7	0.2519 mg/L	0.00050	0.2519 mg/L	0.00050	0.20%
QC value within limits for Cd 228.802 Recovery = 100.74%						
Co 228.616†	18942.4	0.4947 mg/L	0.00324	0.4947 mg/L	0.00324	0.65%
QC value within limits for Co 228.616 Recovery = 98.93%						
Cr 267.716†	77569.0	0.5028 mg/L	0.00319	0.5028 mg/L	0.00319	0.64%
QC value within limits for Cr 267.716 Recovery = 100.56%						
Cu 324.752†	132493.0	0.5023 mg/L	0.00130	0.5023 mg/L	0.00130	0.26%
QC value within limits for Cu 324.752 Recovery = 100.45%						
Fe 234.349†	133024.5	2.534 mg/L	0.0152	2.534 mg/L	0.0152	0.60%
QC value within limits for Fe 234.349 Recovery = 101.34%						
Fe 238.204†	297681.6	2.542 mg/L	0.0142	2.542 mg/L	0.0142	0.56%
QC value within limits for Fe 238.204 Recovery = 101.67%						
K 766.490†	45190.7	24.78 mg/L	0.062	24.78 mg/L	0.062	0.25%
QC value within limits for K 766.490 Recovery = 99.12%						
Li 670.784†	17480.1	0.4999 mg/L	0.00213	0.4999 mg/L	0.00213	0.43%
QC value within limits for Li 670.784 Recovery = 99.97%						
Mg 279.077†	123724.3	4.961 mg/L	0.0354	4.961 mg/L	0.0354	0.71%
QC value within limits for Mg 279.077 Recovery = 99.21%						
Mn 257.610†	458295.1	0.5017 mg/L	0.00024	0.5017 mg/L	0.00024	0.05%
QC value within limits for Mn 257.610 Recovery = 100.35%						
Mo 202.031†	7606.1	0.5007 mg/L	0.00097	0.5007 mg/L	0.00097	0.19%
QC value within limits for Mo 202.031 Recovery = 100.14%						
Na 589.592	206183.2	24.95 mg/L	0.340	24.95 mg/L	0.340	1.36%
QC value within limits for Na 589.592 Recovery = 99.80%						
Ni 231.604†	15594.7	0.4998 mg/L	0.00271	0.4998 mg/L	0.00271	0.54%
QC value within limits for Ni 231.604 Recovery = 99.96%						
P 214.914†	6802.8	4.873 mg/L	0.0144	4.873 mg/L	0.0144	0.30%
QC value within limits for P 214.914 Recovery = 97.47%						
Pb 220.353†	4430.3	0.5000 mg/L	0.00033	0.5000 mg/L	0.00033	0.07%
QC value within limits for Pb 220.353 Recovery = 100.00%						
Sb 206.836†	1023.6	0.4824 mg/L	0.00145	0.4824 mg/L	0.00145	0.30%
QC value within limits for Sb 206.836 Recovery = 96.47%						
Se 196.026†	768.4	0.9735 mg/L	0.01253	0.9735 mg/L	0.01253	1.29%
QC value within limits for Se 196.026 Recovery = 97.35%						
Sn 189.927†	1908.8	0.4994 mg/L	0.00034	0.4994 mg/L	0.00034	0.07%
QC value within limits for Sn 189.927 Recovery = 99.88%						
Sr 407.771†	1115837.9	0.0502 mg/L	0.00002	0.0502 mg/L	0.00002	0.05%
QC value within limits for Sr 407.771 Recovery = 100.43%						
Ti 337.279†	346817.8	0.4382 mg/L	0.00291	0.4382 mg/L	0.00291	0.66%
QC value less than the lower limit for Ti 337.279 Recovery = 87.63%						
Tl 190.801†	589.9	0.5075 mg/L	0.01029	0.5075 mg/L	0.01029	2.03%
QC value within limits for Tl 190.801 Recovery = 101.49%						
V 292.402†	124536.3	0.5027 mg/L	0.00273	0.5027 mg/L	0.00273	0.54%
QC value within limits for V 292.402 Recovery = 100.55%						
Zn 213.857†	38883.4	0.5011 mg/L	0.00328	0.5011 mg/L	0.00328	0.66%
QC value within limits for Zn 213.857 Recovery = 100.22%						

QC Failed. Continue with analysis.

Sequence No.: 7
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/23/2006 7:41:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	617.1	56.1	0.0347	mg/L	0.0347	mg/L	19:43:05
1	Li 670.784†	186.7	16.8	-0.0018	mg/L	-0.0018	mg/L	19:43:05
1	Na 589.592	-370.5	442.7	-0.0477	mg/L	-0.0477	mg/L	19:43:05
1	Y 371.029	3362453.4	3362453.4	0.999	mg/L			19:43:19
1	Ag 328.068†	-2167.4	385.3	0.0005	mg/L	0.0005	mg/L	19:43:24
1	Al 237.313†	-43.5	9.5	0.0039	mg/L	0.0039	mg/L	19:43:44
1	As 188.979†	11.1	6.3	0.0116	mg/L	0.0116	mg/L	19:43:44
1	B 182.528†	1.8	4.5	0.0157	mg/L	0.0157	mg/L	19:43:44
1	Ba 233.527†	-193.0	-13.1	-0.0005	mg/L	-0.0005	mg/L	19:43:44
1	Be 313.107†	2137.5	-63.9	0.0001	mg/L	0.0001	mg/L	19:43:24
1	Ca 315.886†	1652.2	-166.6	-0.0053	mg/L	-0.0053	mg/L	19:43:24

1	Cd 228.802†	113.7	-1.9	-0.0001 mg/L	-0.0001 mg/L	19:43:44
1	Co 228.616†	-185.7	-9.0	-0.0005 mg/L	-0.0005 mg/L	19:43:44
1	Cr 267.716†	1267.1	-87.8	-0.0009 mg/L	-0.0009 mg/L	19:43:24
1	Cu 324.752†	2078.9	156.5	-0.0009 mg/L	-0.0009 mg/L	19:43:24
1	Fe 234.349†	1240.8	3.4	-0.0038 mg/L	-0.0038 mg/L	19:43:44
1	Fe 238.204†	1160.0	45.2	-0.0050 mg/L	-0.0050 mg/L	19:43:44
1	Mg 279.077†	574.2	31.8	-0.0101 mg/L	-0.0101 mg/L	19:43:24
1	Mn 257.610†	1925.2	44.1	-0.0025 mg/L	-0.0025 mg/L	19:43:24
1	Mo 202.031†	51.4	14.1	0.0011 mg/L	0.0011 mg/L	19:43:44
1	Ni 231.604†	40.2	10.6	0.0006 mg/L	0.0006 mg/L	19:43:44
1	P 214.914†	43.9	0.2	0.0255 mg/L	0.0255 mg/L	19:43:44
1	Pb 220.353†	-162.1	-10.7	-0.0029 mg/L	-0.0029 mg/L	19:43:44
1	Sb 206.836†	5.6	-9.6	-0.0039 mg/L	-0.0039 mg/L	19:43:44
1	Se 196.026†	-8.5	-4.4	0.0048 mg/L	0.0048 mg/L	19:43:44
1	Sn 189.927†	164.2	-25.5	-0.0137 mg/L	-0.0137 mg/L	19:43:44
1	Sr 407.771†	6354.5	53.1	-0.0002 mg/L	-0.0002 mg/L	19:43:19
1	Ti 337.279†	-2063.0	-89.8	0.0006 mg/L	0.0006 mg/L	19:43:24
1	Tl 190.801†	34.7	15.3	0.0337 mg/L	0.0337 mg/L	19:43:44
1	V 292.402†	-1617.6	8.5	0.0008 mg/L	0.0008 mg/L	19:43:24
1	Zn 213.857†	697.8	24.3	0.0008 mg/L	0.0008 mg/L	19:43:44
2	K 766.490†	656.2	97.2	0.0572 mg/L	0.0572 mg/L	19:43:11
2	Li 670.784†	209.4	40.1	-0.0012 mg/L	-0.0012 mg/L	19:43:11
2	Na 589.592	-374.1	439.1	-0.0482 mg/L	-0.0482 mg/L	19:43:11
2	Y 371.029	3352112.9	3352112.9	0.996 mg/L		19:43:50
2	Ag 328.068†	-2309.9	235.6	0.0000 mg/L	0.0000 mg/L	19:43:55
2	Al 237.313†	-44.5	8.4	0.0038 mg/L	0.0038 mg/L	19:44:16
2	As 188.979†	7.5	2.8	0.0068 mg/L	0.0068 mg/L	19:44:16
2	B 182.528†	2.3	5.1	0.0170 mg/L	0.0170 mg/L	19:44:16
2	Ba 233.527†	-174.2	5.1	-0.0003 mg/L	-0.0003 mg/L	19:44:16
2	Be 313.107†	2214.2	19.7	0.0001 mg/L	0.0001 mg/L	19:43:55
2	Ca 315.886†	1757.5	-55.9	-0.0045 mg/L	-0.0045 mg/L	19:43:55
2	Cd 228.802†	125.2	10.0	0.0002 mg/L	0.0002 mg/L	19:44:16
2	Co 228.616†	-181.2	-5.0	-0.0004 mg/L	-0.0004 mg/L	19:44:16
2	Cr 267.716†	1358.7	8.0	-0.0003 mg/L	-0.0003 mg/L	19:43:55
2	Cu 324.752†	1950.3	33.9	-0.0013 mg/L	-0.0013 mg/L	19:43:55
2	Fe 234.349†	1229.8	-3.8	-0.0039 mg/L	-0.0039 mg/L	19:44:16
2	Fe 238.204†	1149.4	38.2	-0.0050 mg/L	-0.0050 mg/L	19:44:16
2	Mg 279.077†	467.0	-74.0	-0.0143 mg/L	-0.0143 mg/L	19:43:55
2	Mn 257.610†	1881.3	6.0	-0.0025 mg/L	-0.0025 mg/L	19:43:55
2	Mo 202.031†	50.3	13.2	0.0010 mg/L	0.0010 mg/L	19:44:16
2	Ni 231.604†	36.5	7.0	0.0005 mg/L	0.0005 mg/L	19:44:16
2	P 214.914†	43.8	0.2	0.0255 mg/L	0.0255 mg/L	19:44:16
2	Pb 220.353†	-159.9	-9.0	-0.0027 mg/L	-0.0027 mg/L	19:44:16
2	Sb 206.836†	8.3	-6.9	-0.0026 mg/L	-0.0026 mg/L	19:44:16
2	Se 196.026†	-9.4	-5.4	0.0036 mg/L	0.0036 mg/L	19:44:16
2	Sn 189.927†	154.7	-34.5	-0.0161 mg/L	-0.0161 mg/L	19:44:16
2	Sr 407.771†	6375.9	94.2	-0.0002 mg/L	-0.0002 mg/L	19:43:50
2	Ti 337.279†	-2045.7	-78.8	0.0006 mg/L	0.0006 mg/L	19:43:55
2	Tl 190.801†	25.2	5.8	0.0259 mg/L	0.0259 mg/L	19:44:16
2	V 292.402†	-1542.1	79.3	0.0011 mg/L	0.0011 mg/L	19:43:55
2	Zn 213.857†	661.2	-10.4	0.0004 mg/L	0.0004 mg/L	19:44:16

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3357283.2	0.998	mg/L	0.0022				0.22%
Ag 328.068†	310.4	0.0003	mg/L	0.00037	0.0003	mg/L	0.00037	130.98%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	9.0	0.0038	mg/L	0.00009	0.0038	mg/L	0.00009	2.27%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	4.6	0.0092	mg/L	0.00341	0.0092	mg/L	0.00341	36.96%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	4.8	0.0163	mg/L	0.00088	0.0163	mg/L	0.00088	5.41%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	-4.0	-0.0004	mg/L	0.00011	-0.0004	mg/L	0.00011	26.26%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-22.1	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	10.53%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	-111.2	-0.0049	mg/L	0.00054	-0.0049	mg/L	0.00054	11.06%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	4.0	0.0000	mg/L	0.00023	0.0000	mg/L	0.00023	>999.9%

QC value within limits for Cd 228.802 Recovery = Not calculated

Co 228.616†	-7.0	-0.0004 mg/L	0.00007	-0.0004 mg/L	0.00007	17.11%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716†	-39.9	-0.0006 mg/L	0.00044	-0.0006 mg/L	0.00044	72.67%

QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 324.752†	95.2	-0.0011 mg/L	0.00033	-0.0011 mg/L	0.00033	30.34%

QC value within limits for Cu 324.752 Recovery = Not calculated

Fe 234.349†	-0.2	-0.0039 mg/L	0.00010	-0.0039 mg/L	0.00010	2.49%

QC value within limits for Fe 234.349 Recovery = Not calculated

Fe 238.204†	41.7	-0.0050 mg/L	0.00004	-0.0050 mg/L	0.00004	0.84%

QC value within limits for Fe 238.204 Recovery = Not calculated

K 766.490†	76.6	0.0460 mg/L	0.01595	0.0460 mg/L	0.01595	34.71%

QC value within limits for K 766.490 Recovery = Not calculated

Li 670.784†	28.5	-0.0015 mg/L	0.00047	-0.0015 mg/L	0.00047	31.69%

QC value within limits for Li 670.784 Recovery = Not calculated

Mg 279.077†	-21.1	-0.0122 mg/L	0.00300	-0.0122 mg/L	0.00300	24.60%

QC value less than the lower limit for Mg 279.077 Recovery = Not calculated

Mn 257.610†	25.1	-0.0025 mg/L	0.00003	-0.0025 mg/L	0.00003	1.19%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031†	13.6	0.0011 mg/L	0.00004	0.0011 mg/L	0.00004	4.10%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592	440.9	-0.0480 mg/L	0.00031	-0.0480 mg/L	0.00031	0.65%

QC value within limits for Na 589.592 Recovery = Not calculated

Ni 231.604†	8.8	0.0006 mg/L	0.00008	0.0006 mg/L	0.00008	14.46%

QC value within limits for Ni 231.604 Recovery = Not calculated

P 214.914†	0.2	0.0255 mg/L	0.00002	0.0255 mg/L	0.00002	0.08%

QC value within limits for P 214.914 Recovery = Not calculated

Pb 220.353†	-9.9	-0.0028 mg/L	0.00014	-0.0028 mg/L	0.00014	4.84%

QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.836†	-8.2	-0.0033 mg/L	0.00091	-0.0033 mg/L	0.00091	28.02%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026†	-4.9	0.0042 mg/L	0.00082	0.0042 mg/L	0.00082	19.30%

QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.927†	-30.0	-0.0149 mg/L	0.00168	-0.0149 mg/L	0.00168	11.32%

QC value within limits for Sn 189.927 Recovery = Not calculated

Sr 407.771†	73.7	-0.0002 mg/L	0.00000	-0.0002 mg/L	0.00000	0.57%

QC value within limits for Sr 407.771 Recovery = Not calculated

Ti 337.279†	-84.3	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	1.68%

QC value within limits for Ti 337.279 Recovery = Not calculated

Tl 190.801†	10.5	0.0298 mg/L	0.00551	0.0298 mg/L	0.00551	18.45%

QC value within limits for Tl 190.801 Recovery = Not calculated

V 292.402†	43.9	0.0009 mg/L	0.00020	0.0009 mg/L	0.00020	21.44%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857†	6.9	0.0006 mg/L	0.00032	0.0006 mg/L	0.00032	52.38%

QC value within limits for Zn 213.857 Recovery = Not calculated

QC Failed. Continue with analysis.

Sequence No.: 8
Sample ID: CRI1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/23/2006 7:45:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRI1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	5189.5	4625.2	2.540	mg/L	2.540	mg/L	19:47:28
1	Li 670.784†	1935.6	1764.5	0.0484	mg/L	0.0484	mg/L	19:47:28
1	Na 589.592	20569.0	21382.2	2.496	mg/L	2.496	mg/L	19:47:28
1	Y 371.029	3366107.6	3366107.6	1.00	mg/L			19:47:42
1	Ag 328.068†	4967.9	7518.9	0.0254	mg/L	0.0254	mg/L	19:47:47
1	Al 237.313†	2219.7	2271.5	0.2587	mg/L	0.2587	mg/L	19:47:47
1	As 188.979†	41.9	37.2	0.0538	mg/L	0.0538	mg/L	19:48:07
1	B 182.528†	21.0	23.7	0.0588	mg/L	0.0588	mg/L	19:48:07
1	Ba 233.527†	5938.5	6115.1	0.0506	mg/L	0.0506	mg/L	19:47:47
1	Be 313.107†	26315.6	24098.3	0.0051	mg/L	0.0051	mg/L	19:47:47
1	Ca 315.886†	76742.4	74879.4	0.5099	mg/L	0.5099	mg/L	19:47:47
1	Cd 228.802†	1137.7	1021.4	0.0251	mg/L	0.0251	mg/L	19:48:07
1	Co 228.616†	1801.0	1976.8	0.0514	mg/L	0.0514	mg/L	19:48:07
1	Cr 267.716†	9244.0	7883.2	0.0508	mg/L	0.0508	mg/L	19:47:47

1	Cu 324.752†	15572.9	13640.6	0.0504 mg/L	0.0504 mg/L	19:47:47
1	Fe 234.349†	14649.1	13402.7	0.2518 mg/L	0.2518 mg/L	19:47:47
1	Fe 238.204†	31289.1	30156.1	0.2527 mg/L	0.2527 mg/L	19:47:47
1	Mg 279.077†	13417.4	12867.1	0.5057 mg/L	0.5057 mg/L	19:47:47
1	Mn 257.610†	49506.5	47596.5	0.0498 mg/L	0.0498 mg/L	19:47:47
1	Mo 202.031†	819.9	782.1	0.0516 mg/L	0.0516 mg/L	19:48:07
1	Ni 231.604†	1680.0	1649.4	0.0531 mg/L	0.0531 mg/L	19:48:07
1	P 214.914†	732.6	688.4	0.5160 mg/L	0.5160 mg/L	19:48:07
1	Pb 220.353†	312.1	463.4	0.0508 mg/L	0.0508 mg/L	19:48:07
1	Sb 206.836†	114.7	99.4	0.0474 mg/L	0.0474 mg/L	19:48:07
1	Se 196.026†	70.0	74.0	0.1032 mg/L	0.1032 mg/L	19:48:07
1	Sn 189.927†	370.8	180.8	0.0410 mg/L	0.0410 mg/L	19:48:07
1	Sr 407.771†	122778.2	116404.2	0.0050 mg/L	0.0050 mg/L	19:47:42
1	Ti 337.279†	37702.6	39655.6	0.0507 mg/L	0.0507 mg/L	19:47:47
1	Tl 190.801†	62.1	42.5	0.0564 mg/L	0.0564 mg/L	19:48:07
1	V 292.402†	11130.4	12751.0	0.0521 mg/L	0.0521 mg/L	19:47:47
1	Zn 213.857†	4620.9	3944.3	0.0513 mg/L	0.0513 mg/L	19:48:07
2	K 766.490†	5191.4	4590.8	2.521 mg/L	2.521 mg/L	19:47:34
2	Li 670.784†	1982.7	1797.7	0.0493 mg/L	0.0493 mg/L	19:47:34
2	Na 589.592	20391.1	21204.3	2.475 mg/L	2.475 mg/L	19:47:34
2	Y 371.029	3389831.7	3389831.7	1.01 mg/L		19:48:13
2	Ag 328.068†	4836.2	7353.5	0.0248 mg/L	0.0248 mg/L	19:48:18
2	Al 237.313†	2214.3	2250.6	0.2563 mg/L	0.2563 mg/L	19:48:18
2	As 188.979†	40.9	35.9	0.0520 mg/L	0.0520 mg/L	19:48:39
2	B 182.528†	19.8	22.3	0.0558 mg/L	0.0558 mg/L	19:48:39
2	Ba 233.527†	5951.5	6086.4	0.0504 mg/L	0.0504 mg/L	19:48:18
2	Be 313.107†	26370.3	23968.5	0.0050 mg/L	0.0050 mg/L	19:48:18
2	Ca 315.886†	77161.8	74758.9	0.5090 mg/L	0.5090 mg/L	19:48:18
2	Cd 228.802†	1140.2	1015.9	0.0250 mg/L	0.0250 mg/L	19:48:39
2	Co 228.616†	1788.0	1951.3	0.0507 mg/L	0.0507 mg/L	19:48:39
2	Cr 267.716†	9217.4	7792.2	0.0502 mg/L	0.0502 mg/L	19:48:18
2	Cu 324.752†	15450.1	13409.9	0.0495 mg/L	0.0495 mg/L	19:48:18
2	Fe 234.349†	14777.6	13427.8	0.2523 mg/L	0.2523 mg/L	19:48:18
2	Fe 238.204†	31384.2	30031.6	0.2516 mg/L	0.2516 mg/L	19:48:18
2	Mg 279.077†	13497.1	12852.3	0.5051 mg/L	0.5051 mg/L	19:48:18
2	Mn 257.610†	49684.8	47427.1	0.0497 mg/L	0.0497 mg/L	19:48:18
2	Mo 202.031†	797.0	753.7	0.0498 mg/L	0.0498 mg/L	19:48:39
2	Ni 231.604†	1664.6	1622.4	0.0523 mg/L	0.0523 mg/L	19:48:39
2	P 214.914†	730.1	680.8	0.5106 mg/L	0.5106 mg/L	19:48:39
2	Pb 220.353†	312.5	461.6	0.0506 mg/L	0.0506 mg/L	19:48:39
2	Sb 206.836†	113.1	97.0	0.0463 mg/L	0.0463 mg/L	19:48:39
2	Se 196.026†	70.1	73.6	0.1026 mg/L	0.1026 mg/L	19:48:39
2	Sn 189.927†	360.3	167.8	0.0376 mg/L	0.0376 mg/L	19:48:39
2	Sr 407.771†	123244.4	116008.1	0.0050 mg/L	0.0050 mg/L	19:48:13
2	Ti 337.279†	37675.9	39365.3	0.0503 mg/L	0.0503 mg/L	19:48:18
2	Tl 190.801†	57.9	37.9	0.0526 mg/L	0.0526 mg/L	19:48:39
2	V 292.402†	11090.5	12633.5	0.0516 mg/L	0.0516 mg/L	19:48:18
2	Zn 213.857†	4630.7	3921.8	0.0510 mg/L	0.0510 mg/L	19:48:39

Mean Data: CRI1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3377969.6	1.00	mg/L	0.005				0.50%
Ag 328.068†	7436.2	0.0251	mg/L	0.00041	0.0251	mg/L	0.00041	1.62%
QC value within limits for Ag 328.068 Recovery = 100.54%								
Al 237.313†	2261.0	0.2575	mg/L	0.00168	0.2575	mg/L	0.00168	0.65%
QC value within limits for Al 237.313 Recovery = 103.01%								
As 188.979†	36.6	0.0529	mg/L	0.00124	0.0529	mg/L	0.00124	2.35%
QC value within limits for As 188.979 Recovery = 105.78%								
B 182.528†	23.0	0.0573	mg/L	0.00209	0.0573	mg/L	0.00209	3.65%
QC value within limits for B 182.528 Recovery = 114.56%								
Ba 233.527†	6100.8	0.0505	mg/L	0.00017	0.0505	mg/L	0.00017	0.34%
QC value within limits for Ba 233.527 Recovery = 100.98%								
Be 313.107†	24033.4	0.0051	mg/L	0.00002	0.0051	mg/L	0.00002	0.37%
QC value within limits for Be 313.107 Recovery = 101.03%								
Ca 315.886†	74819.1	0.5095	mg/L	0.00059	0.5095	mg/L	0.00059	0.11%
QC value within limits for Ca 315.886 Recovery = 101.89%								
Cd 228.802†	1018.6	0.0251	mg/L	0.00009	0.0251	mg/L	0.00009	0.36%
QC value within limits for Cd 228.802 Recovery = 100.27%								
Co 228.616†	1964.1	0.0511	mg/L	0.00047	0.0511	mg/L	0.00047	0.92%
QC value within limits for Co 228.616 Recovery = 102.13%								

Cr 267.716†	7837.7	0.0505 mg/L	0.00042	0.0505 mg/L	0.00042	0.83%
QC value within limits for Cr 267.716 Recovery = 100.98%						
Cu 324.752†	13525.3	0.0500 mg/L	0.00062	0.0500 mg/L	0.00062	1.24%
QC value within limits for Cu 324.752 Recovery = 99.96%						
Fe 234.349†	13415.3	0.2520 mg/L	0.00035	0.2520 mg/L	0.00035	0.14%
QC value within limits for Fe 234.349 Recovery = 100.80%						
Fe 238.204†	30093.8	0.2522 mg/L	0.00075	0.2522 mg/L	0.00075	0.30%
QC value within limits for Fe 238.204 Recovery = 100.86%						
K 766.490†	4608.0	2.530 mg/L	0.0133	2.530 mg/L	0.0133	0.53%
QC value within limits for K 766.490 Recovery = 101.22%						
Li 670.784†	1781.1	0.0489 mg/L	0.00067	0.0489 mg/L	0.00067	1.38%
QC value within limits for Li 670.784 Recovery = 97.71%						
Mg 279.077†	12859.7	0.5054 mg/L	0.00042	0.5054 mg/L	0.00042	0.08%
QC value within limits for Mg 279.077 Recovery = 101.08%						
Mn 257.610†	47511.8	0.0498 mg/L	0.00013	0.0498 mg/L	0.00013	0.26%
QC value within limits for Mn 257.610 Recovery = 99.51%						
Mo 202.031†	767.9	0.0507 mg/L	0.00132	0.0507 mg/L	0.00132	2.61%
QC value within limits for Mo 202.031 Recovery = 101.39%						
Na 589.592	21293.3	2.485 mg/L	0.0153	2.485 mg/L	0.0153	0.62%
QC value within limits for Na 589.592 Recovery = 99.42%						
Ni 231.604†	1635.9	0.0527 mg/L	0.00061	0.0527 mg/L	0.00061	1.16%
QC value within limits for Ni 231.604 Recovery = 105.38%						
P 214.914†	684.6	0.5133 mg/L	0.00380	0.5133 mg/L	0.00380	0.74%
QC value within limits for P 214.914 Recovery = 102.66%						
Pb 220.353†	462.5	0.0507 mg/L	0.00014	0.0507 mg/L	0.00014	0.28%
QC value within limits for Pb 220.353 Recovery = 101.33%						
Sb 206.836†	98.2	0.0469 mg/L	0.00082	0.0469 mg/L	0.00082	1.74%
QC value within limits for Sb 206.836 Recovery = 93.74%						
Se 196.026†	73.8	0.1029 mg/L	0.00042	0.1029 mg/L	0.00042	0.41%
QC value within limits for Se 196.026 Recovery = 102.88%						
Sn 189.927†	174.3	0.0393 mg/L	0.00244	0.0393 mg/L	0.00244	6.21%
QC value within limits for Sn 189.927 Recovery = 78.64%						
Sr 407.771†	116206.1	0.0050 mg/L	0.00001	0.0050 mg/L	0.00001	0.25%
QC value within limits for Sr 407.771 Recovery = 100.39%						
Ti 337.279†	39510.5	0.0505 mg/L	0.00026	0.0505 mg/L	0.00026	0.51%
QC value within limits for Ti 337.279 Recovery = 101.06%						
Tl 190.801†	40.2	0.0545 mg/L	0.00267	0.0545 mg/L	0.00267	4.90%
QC value within limits for Tl 190.801 Recovery = 108.94%						
V 292.402†	12692.3	0.0519 mg/L	0.00035	0.0519 mg/L	0.00035	0.68%
QC value within limits for V 292.402 Recovery = 103.76%						
Zn 213.857†	3933.1	0.0511 mg/L	0.00020	0.0511 mg/L	0.00020	0.40%
QC value within limits for Zn 213.857 Recovery = 102.28%						

All analyte(s) passed QC.

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Sequence No.: 9
Sample ID: CRI2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 6/23/2006 7:50:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRI2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	2384.1	1827.8	1.006	mg/L	1.006	mg/L	19:51:57
1	Li 670.784†	900.5	732.4	0.0187	mg/L	0.0187	mg/L	19:51:57
1	Na 589.592	7595.7	8408.9	0.9201	mg/L	0.9201	mg/L	19:51:57
1	Y 371.029	3356992.2	3356992.2	0.998	mg/L			19:52:10
1	Ag 328.068†	488.1	3043.0	0.0098	mg/L	0.0098	mg/L	19:52:15
1	Al 237.313†	874.7	929.6	0.1076	mg/L	0.1076	mg/L	19:52:15
1	As 188.979†	18.6	13.9	0.0219	mg/L	0.0219	mg/L	19:52:35
1	B 182.528†	3.9	6.6	0.0205	mg/L	0.0205	mg/L	19:52:35
1	Ba 233.527†	2245.1	2429.8	0.0199	mg/L	0.0199	mg/L	19:52:35
1	Be 313.107†	11752.4	9575.2	0.0021	mg/L	0.0021	mg/L	19:52:15
1	Ca 315.886†	31409.7	29657.6	0.1995	mg/L	0.1995	mg/L	19:52:15
1	Cd 228.802†	511.6	397.1	0.0097	mg/L	0.0097	mg/L	19:52:35
1	Co 228.616†	608.0	786.2	0.0203	mg/L	0.0203	mg/L	19:52:35
1	Cr 267.716†	4463.5	3117.5	0.0199	mg/L	0.0199	mg/L	19:52:15
1	Cu 324.752†	7350.9	5443.2	0.0192	mg/L	0.0192	mg/L	19:52:15
1	Fe 234.349†	6642.2	5418.4	0.0995	mg/L	0.0995	mg/L	19:52:15
1	Fe 238.204†	13156.7	12069.6	0.0979	mg/L	0.0979	mg/L	19:52:15

1	Mg 279.077†	5628.7	5098.1	0.1935 mg/L	0.1935 mg/L	19:52:15
1	Mn 257.610†	20770.2	18932.8	0.0183 mg/L	0.0183 mg/L	19:52:15
1	Mo 202.031†	333.7	297.1	0.0197 mg/L	0.0197 mg/L	19:52:35
1	Ni 231.604†	679.5	651.4	0.0212 mg/L	0.0212 mg/L	19:52:35
1	P 214.914†	311.5	268.4	0.2167 mg/L	0.2167 mg/L	19:52:35
1	Pb 220.353†	10.8	162.4	0.0167 mg/L	0.0167 mg/L	19:52:35
1	Sb 206.836†	44.5	29.4	0.0144 mg/L	0.0144 mg/L	19:52:35
1	Se 196.026†	26.8	30.9	0.0491 mg/L	0.0491 mg/L	19:52:35
1	Sn 189.927†	236.8	47.5	0.0057 mg/L	0.0057 mg/L	19:52:35
1	Sr 407.771†	51981.5	45788.5	0.0018 mg/L	0.0018 mg/L	19:52:10
1	Ti 337.279†	13591.8	15595.2	0.0204 mg/L	0.0204 mg/L	19:52:15
1	Tl 190.801†	32.5	13.0	0.0320 mg/L	0.0320 mg/L	19:52:35
1	V 292.402†	3343.2	4977.3	0.0208 mg/L	0.0208 mg/L	19:52:15
1	Zn 213.857†	2239.3	1570.2	0.0207 mg/L	0.0207 mg/L	19:52:35
2	K 766.490†	2393.8	1848.9	1.018 mg/L	1.018 mg/L	19:52:02
2	Li 670.784†	918.5	754.8	0.0194 mg/L	0.0194 mg/L	19:52:02
2	Na 589.592	7640.5	8453.7	0.9255 mg/L	0.9255 mg/L	19:52:02
2	Y 371.029	3341198.6	3341198.6	0.993 mg/L		19:52:41
2	Ag 328.068†	505.3	3062.6	0.0099 mg/L	0.0099 mg/L	19:52:47
2	Al 237.313†	877.8	936.9	0.1084 mg/L	0.1084 mg/L	19:52:47
2	As 188.979†	19.3	14.8	0.0231 mg/L	0.0231 mg/L	19:53:07
2	B 182.528†	6.7	9.5	0.0268 mg/L	0.0268 mg/L	19:53:07
2	Ba 233.527†	2247.0	2442.4	0.0200 mg/L	0.0200 mg/L	19:53:07
2	Be 313.107†	11733.1	9611.4	0.0021 mg/L	0.0021 mg/L	19:52:47
2	Ca 315.886†	31367.1	29763.4	0.2002 mg/L	0.2002 mg/L	19:52:47
2	Cd 228.802†	533.9	421.9	0.0103 mg/L	0.0103 mg/L	19:53:07
2	Co 228.616†	590.4	771.3	0.0199 mg/L	0.0199 mg/L	19:53:07
2	Cr 267.716†	4387.4	3062.0	0.0195 mg/L	0.0195 mg/L	19:52:47
2	Cu 324.752†	7359.7	5486.9	0.0194 mg/L	0.0194 mg/L	19:52:47
2	Fe 234.349†	6667.9	5475.7	0.1006 mg/L	0.1006 mg/L	19:52:47
2	Fe 238.204†	13158.8	12134.0	0.0985 mg/L	0.0985 mg/L	19:52:47
2	Mg 279.077†	5592.5	5088.3	0.1931 mg/L	0.1931 mg/L	19:52:47
2	Mn 257.610†	20695.4	18955.8	0.0183 mg/L	0.0183 mg/L	19:52:47
2	Mo 202.031†	353.5	318.7	0.0211 mg/L	0.0211 mg/L	19:53:07
2	Ni 231.604†	697.1	672.3	0.0218 mg/L	0.0218 mg/L	19:53:07
2	P 214.914†	303.5	261.9	0.2120 mg/L	0.2120 mg/L	19:53:07
2	Pb 220.353†	13.7	165.4	0.0170 mg/L	0.0170 mg/L	19:53:07
2	Sb 206.836†	51.4	36.6	0.0179 mg/L	0.0179 mg/L	19:53:07
2	Se 196.026†	15.2	19.3	0.0346 mg/L	0.0346 mg/L	19:53:07
2	Sn 189.927†	245.6	57.4	0.0083 mg/L	0.0083 mg/L	19:53:07
2	Sr 407.771†	51665.9	45717.0	0.0018 mg/L	0.0018 mg/L	19:52:41
2	Ti 337.279†	13634.7	15702.8	0.0205 mg/L	0.0205 mg/L	19:52:47
2	Tl 190.801†	31.8	12.5	0.0316 mg/L	0.0316 mg/L	19:53:07
2	V 292.402†	3414.4	5064.8	0.0212 mg/L	0.0212 mg/L	19:52:47
2	Zn 213.857†	2272.0	1613.7	0.0213 mg/L	0.0213 mg/L	19:53:07

Mean Data: CRI2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3349095.4	0.996	mg/L	0.0033				0.33%
Ag 328.068†	3052.8	0.0098	mg/L	0.00005	0.0098	mg/L	0.00005	0.50%
QC value within limits for Ag 328.068 Recovery = 98.47%								
Al 237.313†	933.3	0.1080	mg/L	0.00058	0.1080	mg/L	0.00058	0.54%
QC value within limits for Al 237.313 Recovery = 107.97%								
As 188.979†	14.3	0.0225	mg/L	0.00082	0.0225	mg/L	0.00082	3.63%
QC value within limits for As 188.979 Recovery = 112.60%								
B 182.528†	8.0	0.0237	mg/L	0.00448	0.0237	mg/L	0.00448	18.90%
QC value within limits for B 182.528 Recovery = 118.41%								
Ba 233.527†	2436.1	0.0199	mg/L	0.00007	0.0199	mg/L	0.00007	0.37%
QC value within limits for Ba 233.527 Recovery = 99.69%								
Be 313.107†	9593.3	0.0021	mg/L	0.00001	0.0021	mg/L	0.00001	0.24%
QC value within limits for Be 313.107 Recovery = 104.48%								
Ca 315.886†	29710.5	0.1998	mg/L	0.00051	0.1998	mg/L	0.00051	0.26%
QC value within limits for Ca 315.886 Recovery = 99.91%								
Cd 228.802†	409.5	0.0100	mg/L	0.00043	0.0100	mg/L	0.00043	4.24%
QC value within limits for Cd 228.802 Recovery = 100.47%								
Co 228.616†	778.7	0.0201	mg/L	0.00028	0.0201	mg/L	0.00028	1.37%
QC value within limits for Co 228.616 Recovery = 100.50%								
Cr 267.716†	3089.8	0.0197	mg/L	0.00026	0.0197	mg/L	0.00026	1.30%
QC value within limits for Cr 267.716 Recovery = 98.47%								
Cu 324.752†	5465.1	0.0193	mg/L	0.00012	0.0193	mg/L	0.00012	0.61%

QC value within limits for Cu 324.752 Recovery = 96.66%

Fe 234.349†	5447.0	0.1000 mg/L	0.00077	0.1000 mg/L	0.00077	0.77%

QC value within limits for Fe 234.349 Recovery = 100.03%

Fe 238.204†	12101.8	0.0982 mg/L	0.00039	0.0982 mg/L	0.00039	0.40%

QC value within limits for Fe 238.204 Recovery = 98.20%

K 766.490†	1838.4	1.012 mg/L	0.0082	1.012 mg/L	0.0082	0.81%

QC value within limits for K 766.490 Recovery = 101.19%

Li 670.784†	743.6	0.0191 mg/L	0.00046	0.0191 mg/L	0.00046	2.39%

QC value within limits for Li 670.784 Recovery = 95.26%

Mg 279.077†	5093.2	0.1933 mg/L	0.00028	0.1933 mg/L	0.00028	0.14%

QC value within limits for Mg 279.077 Recovery = 96.66%

Mn 257.610†	18944.3	0.0183 mg/L	0.00002	0.0183 mg/L	0.00002	0.10%

QC value within limits for Mn 257.610 Recovery = 91.61%

Mo 202.031†	307.9	0.0204 mg/L	0.00100	0.0204 mg/L	0.00100	4.90%

QC value within limits for Mo 202.031 Recovery = 102.13%

Na 589.592	8431.3	0.9228 mg/L	0.00384	0.9228 mg/L	0.00384	0.42%

QC value within limits for Na 589.592 Recovery = 92.28%

Ni 231.604†	661.8	0.0215 mg/L	0.00047	0.0215 mg/L	0.00047	2.20%

QC value within limits for Ni 231.604 Recovery = 107.45%

P 214.914†	265.1	0.2143 mg/L	0.00328	0.2143 mg/L	0.00328	1.53%

QC value within limits for P 214.914 Recovery = 107.17%

Pb 220.353†	163.9	0.0169 mg/L	0.00024	0.0169 mg/L	0.00024	1.42%

QC value within limits for Pb 220.353 Recovery = 84.26%

Sb 206.836†	33.0	0.0162 mg/L	0.00243	0.0162 mg/L	0.00243	15.04%

QC value within limits for Sb 206.836 Recovery = 80.79%

Se 196.026†	25.1	0.0419 mg/L	0.01026	0.0419 mg/L	0.01026	24.51%

QC value within limits for Se 196.026 Recovery = 104.67%

Sn 189.927†	52.5	0.0070 mg/L	0.00187	0.0070 mg/L	0.00187	26.73%

QC value less than the lower limit for Sn 189.927 Recovery = 34.99%

Sr 407.771†	45752.7	0.0018 mg/L	0.00000	0.0018 mg/L	0.00000	0.12%

QC value within limits for Sr 407.771 Recovery = 91.72%

Ti 337.279†	15649.0	0.0204 mg/L	0.00010	0.0204 mg/L	0.00010	0.47%

QC value within limits for Ti 337.279 Recovery = 102.15%

Tl 190.801†	12.8	0.0318 mg/L	0.00032	0.0318 mg/L	0.00032	1.01%

QC value greater than the upper limit for Tl 190.801 Recovery = 158.96%

V 292.402†	5021.0	0.0210 mg/L	0.00026	0.0210 mg/L	0.00026	1.25%

QC value within limits for V 292.402 Recovery = 104.86%

Zn 213.857†	1592.0	0.0210 mg/L	0.00040	0.0210 mg/L	0.00040	1.89%

QC value within limits for Zn 213.857 Recovery = 105.03%

QC Failed. Continue with analysis.

==========

Sequence No.: 10
Sample ID: CRI3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 6/23/2006 7:54:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRI3

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1451.5	891.8	0.4929	mg/L	0.4929	mg/L	19:56:23
1	Li 670.784†	505.9	336.5	0.0074	mg/L	0.0074	mg/L	19:56:23
1	Na 589.592	3209.1	4022.3	0.3872	mg/L	0.3872	mg/L	19:56:23
1	Y 371.029	3360146.8	3360146.8	0.999	mg/L			19:56:36
1	Ag 328.068†	-957.8	1594.8	0.0048	mg/L	0.0048	mg/L	19:56:42
1	Al 237.313†	405.2	458.8	0.0545	mg/L	0.0545	mg/L	19:57:02
1	As 188.979†	12.4	7.7	0.0134	mg/L	0.0134	mg/L	19:57:02
1	B 182.528†	3.6	6.3	0.0198	mg/L	0.0198	mg/L	19:57:02
1	Ba 233.527†	1015.7	1196.8	0.0096	mg/L	0.0096	mg/L	19:57:02
1	Be 313.107†	7041.8	4847.9	0.0011	mg/L	0.0011	mg/L	19:56:42
1	Ca 315.886†	16547.8	14748.1	0.0971	mg/L	0.0971	mg/L	19:56:42
1	Cd 228.802†	314.2	198.9	0.0048	mg/L	0.0048	mg/L	19:57:02
1	Co 228.616†	210.1	387.2	0.0099	mg/L	0.0099	mg/L	19:57:02
1	Cr 267.716†	2865.0	1512.9	0.0095	mg/L	0.0095	mg/L	19:56:42
1	Cu 324.752†	4606.2	2688.3	0.0088	mg/L	0.0088	mg/L	19:56:42
1	Fe 234.349†	3896.1	2662.7	0.0469	mg/L	0.0469	mg/L	19:56:42
1	Fe 238.204†	7013.9	5907.0	0.0452	mg/L	0.0452	mg/L	19:56:42
1	Mg 279.077†	3005.7	2466.6	0.0878	mg/L	0.0878	mg/L	19:56:42
1	Mn 257.610†	11230.3	9361.8	0.0078	mg/L	0.0078	mg/L	19:56:42
1	Mo 202.031†	180.3	143.2	0.0096	mg/L	0.0096	mg/L	19:57:02

Fe 238.204†	5908.7	0.0452 mg/L	0.00002	0.0452 mg/L	0.00002	0.05%
QC value within limits for Fe 238.204 Recovery = 90.42%						
K 766.490†	904.4	0.4998 mg/L	0.00976	0.4998 mg/L	0.00976	1.95%
QC value within limits for K 766.490 Recovery = 99.96%						
Li 670.784†	315.5	0.0068 mg/L	0.00085	0.0068 mg/L	0.00085	12.59%
QC value less than the lower limit for Li 670.784 Recovery = 67.53%						
Mg 279.077†	2470.1	0.0879 mg/L	0.00020	0.0879 mg/L	0.00020	0.23%
QC value within limits for Mg 279.077 Recovery = 87.90%						
Mn 257.610†	9352.4	0.0078 mg/L	0.00001	0.0078 mg/L	0.00001	0.19%
QC value within limits for Mn 257.610 Recovery = 77.69%						
Mo 202.031†	153.5	0.0103 mg/L	0.00096	0.0103 mg/L	0.00096	9.33%
QC value within limits for Mo 202.031 Recovery = 102.67%						
Na 589.592	4090.1	0.3954 mg/L	0.01165	0.3954 mg/L	0.01165	2.95%
QC value within limits for Na 589.592 Recovery = 79.08%						
Ni 231.604†	321.5	0.0106 mg/L	0.00018	0.0106 mg/L	0.00018	1.72%
QC value within limits for Ni 231.604 Recovery = 105.88%						
P 214.914†	132.5	0.1199 mg/L	0.00089	0.1199 mg/L	0.00089	0.74%
QC value within limits for P 214.914 Recovery = 119.85%						
Pb 220.353†	75.8	0.0069 mg/L	0.00059	0.0069 mg/L	0.00059	8.63%
QC value less than the lower limit for Pb 220.353 Recovery = 68.75%						
Sb 206.836†	17.0	0.0087 mg/L	0.00011	0.0087 mg/L	0.00011	1.28%
QC value within limits for Sb 206.836 Recovery = 86.97%						
Se 196.026†	11.8	0.0252 mg/L	0.00080	0.0252 mg/L	0.00080	3.20%
QC value within limits for Se 196.026 Recovery = 125.77%						
Sn 189.927†	14.2	-0.0032 mg/L	0.00275	-0.0032 mg/L	0.00275	87.03%
QC value less than the lower limit for Sn 189.927 Recovery = -31.61%						
Sr 407.771†	22664.4	0.0008 mg/L	0.00001	0.0008 mg/L	0.00001	0.89%
QC value within limits for Sr 407.771 Recovery = 79.06%						
Ti 337.279†	7847.4	0.0106 mg/L	0.00002	0.0106 mg/L	0.00002	0.23%
QC value within limits for Ti 337.279 Recovery = 105.89%						
Tl 190.801†	4.5	0.0249 mg/L	0.00478	0.0249 mg/L	0.00478	19.15%
QC value greater than the upper limit for Tl 190.801 Recovery = 249.45%						
V 292.402†	2393.4	0.0104 mg/L	0.00005	0.0104 mg/L	0.00005	0.52%
QC value within limits for V 292.402 Recovery = 103.86%						
Zn 213.857†	802.6	0.0108 mg/L	0.00018	0.0108 mg/L	0.00018	1.69%
QC value within limits for Zn 213.857 Recovery = 108.47%						

QC Failed. Continue with analysis.

Sequence No.: 11
Sample ID: ICSA
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 160
Date Collected: 6/23/2006 7:59:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	594.7	96.8	0.0570	mg/L	0.0570	mg/L	20:00:49
1	Li 670.784†	169.9	18.0	-0.0018	mg/L	-0.0018	mg/L	20:00:49
1	Na 589.592	-199.5	613.7	-0.0270	mg/L	-0.0270	mg/L	20:00:49
1	Y 371.029	3039914.8	3039914.8	0.904	mg/L			20:01:16
1	Ag 328.068†	-2964.4	-726.8	0.0004	mg/L	0.0004	mg/L	20:01:21
1	Al 237.313†	2048022.8	2266554.3	255.8	mg/L	255.8	mg/L	20:01:16
1	As 188.979†	14.5	11.4	0.0185	mg/L	0.0185	mg/L	20:01:41
1	B 182.528†	18.0	22.6	0.0564	mg/L	0.0564	mg/L	20:01:41
1	Ba 233.527†	74.4	262.3	0.0018	mg/L	0.0018	mg/L	20:01:41
1	Be 313.107†	-101.0	-2314.2	0.0002	mg/L	0.0002	mg/L	20:01:21
1	Ca 315.886†	32452221.5	35912331.5	246.4	mg/L	246.4	mg/L	20:01:08
1	Cd 228.802†	104.7	0.1	0.0005	mg/L	0.0005	mg/L	20:01:41
1	Co 228.616†	-147.0	14.2	0.0001	mg/L	0.0001	mg/L	20:01:41
1	Cr 267.716†	794.4	-476.4	0.0021	mg/L	0.0021	mg/L	20:01:21
1	Cu 324.752†	7.6	-1915.0	0.0079	mg/L	0.0079	mg/L	20:01:21
1	Fe 234.349†	4369643.2	4834548.8	92.41	mg/L	92.41	mg/L	20:01:16
1	Fe 238.204†	9310848.2	10302993.1	88.13	mg/L	88.13	mg/L	20:01:08
1	Mg 279.077†	5378677.4	5951919.8	238.9	mg/L	238.9	mg/L	20:01:16
1	Mn 257.610†	6542.5	5358.3	0.0034	mg/L	0.0034	mg/L	20:01:21
1	Mo 202.031†	239.0	227.2	0.0151	mg/L	0.0151	mg/L	20:01:41
1	Ni 231.604†	62.6	39.7	0.0016	mg/L	0.0016	mg/L	20:01:41
1	P 214.914†	-92.8	-146.4	-0.0790	mg/L	-0.0790	mg/L	20:01:41
1	Pb 220.353†	-572.0	-481.5	-0.0094	mg/L	-0.0094	mg/L	20:01:41

1	Ni 231.604†	346.7	317.5	0.0105 mg/L	0.0105 mg/L	19:57:02
1	P 214.914†	175.2	131.7	0.1192 mg/L	0.1192 mg/L	19:57:02
1	Pb 220.353†	-71.9	79.5	0.0073 mg/L	0.0073 mg/L	19:57:02
1	Sb 206.836†	32.0	16.9	0.0086 mg/L	0.0086 mg/L	19:57:02
1	Se 196.026†	8.2	12.2	0.0257 mg/L	0.0257 mg/L	19:57:02
1	Sn 189.927†	211.1	21.5	-0.0012 mg/L	-0.0012 mg/L	19:57:02
1	Sr 407.771†	29043.6	22774.1	0.0008 mg/L	0.0008 mg/L	19:56:36
1	Ti 337.279†	5852.1	7833.4	0.0106 mg/L	0.0106 mg/L	19:56:42
1	Tl 190.801†	19.8	0.4	0.0216 mg/L	0.0216 mg/L	19:57:02
1	V 292.402†	778.1	2405.9	0.0104 mg/L	0.0104 mg/L	19:56:42
1	Zn 213.857†	1464.7	792.5	0.0107 mg/L	0.0107 mg/L	19:57:02
2	K 766.490†	1460.7	917.0	0.5067 mg/L	0.5067 mg/L	19:56:29
2	Li 670.784†	459.1	294.6	0.0062 mg/L	0.0062 mg/L	19:56:29
2	Na 589.592	3344.7	4157.9	0.4036 mg/L	0.4036 mg/L	19:56:29
2	Y 371.029	3323936.9	3323936.9	0.988 mg/L		19:57:08
2	Ag 328.068†	-1044.8	1496.4	0.0044 mg/L	0.0044 mg/L	19:57:13
2	Al 237.313†	404.7	462.7	0.0550 mg/L	0.0550 mg/L	19:57:33
2	As 188.979†	16.0	11.5	0.0186 mg/L	0.0186 mg/L	19:57:33
2	B 182.528†	0.1	2.8	0.0119 mg/L	0.0119 mg/L	19:57:33
2	Ba 233.527†	1015.2	1207.4	0.0097 mg/L	0.0097 mg/L	19:57:33
2	Be 313.107†	6895.5	4776.6	0.0011 mg/L	0.0011 mg/L	19:57:13
2	Ca 315.886†	16479.8	14859.8	0.0979 mg/L	0.0979 mg/L	19:57:13
2	Cd 228.802†	323.0	211.2	0.0051 mg/L	0.0051 mg/L	19:57:33
2	Co 228.616†	215.5	394.9	0.0101 mg/L	0.0101 mg/L	19:57:33
2	Cr 267.716†	2797.8	1476.1	0.0092 mg/L	0.0092 mg/L	19:57:13
2	Cu 324.752†	4486.0	2616.9	0.0085 mg/L	0.0085 mg/L	19:57:13
2	Fe 234.349†	3856.8	2665.4	0.0470 mg/L	0.0470 mg/L	19:57:13
2	Fe 238.204†	6941.8	5910.5	0.0452 mg/L	0.0452 mg/L	19:57:13
2	Mg 279.077†	2980.3	2473.7	0.0880 mg/L	0.0880 mg/L	19:57:13
2	Mn 257.610†	11090.8	9343.1	0.0078 mg/L	0.0078 mg/L	19:57:13
2	Mo 202.031†	198.7	163.8	0.0109 mg/L	0.0109 mg/L	19:57:33
2	Ni 231.604†	350.8	325.5	0.0107 mg/L	0.0107 mg/L	19:57:33
2	P 214.914†	175.1	133.4	0.1205 mg/L	0.1205 mg/L	19:57:33
2	Pb 220.353†	-78.5	72.1	0.0065 mg/L	0.0065 mg/L	19:57:33
2	Sb 206.836†	32.0	17.2	0.0088 mg/L	0.0088 mg/L	19:57:33
2	Se 196.026†	7.2	11.3	0.0246 mg/L	0.0246 mg/L	19:57:33
2	Sn 189.927†	194.3	6.8	-0.0051 mg/L	-0.0051 mg/L	19:57:33
2	Sr 407.771†	28514.0	22554.7	0.0008 mg/L	0.0008 mg/L	19:57:08
2	Ti 337.279†	5816.6	7861.3	0.0106 mg/L	0.0106 mg/L	19:57:13
2	Tl 190.801†	27.8	8.6	0.0283 mg/L	0.0283 mg/L	19:57:33
2	V 292.402†	744.9	2380.8	0.0103 mg/L	0.0103 mg/L	19:57:13
2	Zn 213.857†	1468.8	812.6	0.0110 mg/L	0.0110 mg/L	19:57:33

Mean Data: CRI3

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3342041.9	0.993	mg/L	0.0076				0.77%
Ag 328.068†	1545.6	0.0046	mg/L	0.00024	0.0046	mg/L	0.00024	5.27%
QC value within limits for Ag 328.068 Recovery = 91.80%								
Al 237.313†	460.7	0.0547	mg/L	0.00031	0.0547	mg/L	0.00031	0.57%
QC value within limits for Al 237.313 Recovery = 109.47%								
As 188.979†	9.6	0.0160	mg/L	0.00367	0.0160	mg/L	0.00367	22.93%
QC value greater than the upper limit for As 188.979 Recovery = 160.13%								
B 182.528†	4.6	0.0158	mg/L	0.00557	0.0158	mg/L	0.00557	35.19%
QC value greater than the upper limit for B 182.528 Recovery = 158.25%								
Ba 233.527†	1202.1	0.0096	mg/L	0.00006	0.0096	mg/L	0.00006	0.65%
QC value within limits for Ba 233.527 Recovery = 96.48%								
Be 313.107†	4812.2	0.0011	mg/L	0.00001	0.0011	mg/L	0.00001	0.95%
QC value within limits for Be 313.107 Recovery = 110.87%								
Ca 315.886†	14803.9	0.0975	mg/L	0.00054	0.0975	mg/L	0.00054	0.55%
QC value within limits for Ca 315.886 Recovery = 97.51%								
Cd 228.802†	205.1	0.0050	mg/L	0.00020	0.0050	mg/L	0.00020	3.92%
QC value within limits for Cd 228.802 Recovery = 99.76%								
Co 228.616†	391.0	0.0100	mg/L	0.00014	0.0100	mg/L	0.00014	1.44%
QC value within limits for Co 228.616 Recovery = 99.73%								
Cr 267.716†	1494.5	0.0093	mg/L	0.00017	0.0093	mg/L	0.00017	1.81%
QC value within limits for Cr 267.716 Recovery = 93.48%								
Cu 324.752†	2652.6	0.0086	mg/L	0.00019	0.0086	mg/L	0.00019	2.22%
QC value within limits for Cu 324.752 Recovery = 86.40%								
Fe 234.349†	2664.1	0.0470	mg/L	0.00004	0.0470	mg/L	0.00004	0.08%
QC value within limits for Fe 234.349 Recovery = 93.90%								

1	Sb 206.836†	0.2	-15.0	-0.0065 mg/L	-0.0065 mg/L	20:01:41
1	Se 196.026†	16.8	22.7	0.0388 mg/L	0.0388 mg/L	20:01:41
1	Sn 189.927†	40.5	-145.0	-0.0416 mg/L	-0.0416 mg/L	20:01:41
1	Sr 407.771†	23611.1	19825.2	0.0007 mg/L	0.0007 mg/L	20:01:21
1	Ti 337.279†	2035.5	4226.8	0.0060 mg/L	0.0060 mg/L	20:01:21
1	Tl 190.801†	60.5	47.4	0.0601 mg/L	0.0601 mg/L	20:01:41
1	V 292.402†	1559.0	3352.2	0.0023 mg/L	0.0023 mg/L	20:01:21
1	Zn 213.857†	2335.3	1910.5	0.0169 mg/L	0.0169 mg/L	20:01:41
2	K 766.490†	571.7	71.0	0.0429 mg/L	0.0429 mg/L	20:00:54
2	Li 670.784†	202.4	53.9	-0.0008 mg/L	-0.0008 mg/L	20:00:54
2	Na 589.592	-136.2	677.0	-0.0193 mg/L	-0.0193 mg/L	20:00:54
2	Y 371.029	3041273.4	3041273.4	0.904 mg/L		20:02:00
2	Ag 328.068†	-2960.9	-721.4	0.0004 mg/L	0.0004 mg/L	20:02:05
2	Al 237.313†	2047637.5	2265115.5	255.7 mg/L	255.7 mg/L	20:02:00
2	As 188.979†	11.6	8.1	0.0140 mg/L	0.0140 mg/L	20:02:25
2	B 182.528†	13.6	17.7	0.0454 mg/L	0.0454 mg/L	20:02:25
2	Ba 233.527†	67.0	254.1	0.0017 mg/L	0.0017 mg/L	20:02:25
2	Be 313.107†	-277.1	-2509.0	0.0001 mg/L	0.0001 mg/L	20:02:05
2	Ca 315.886†	32554608.6	36009546.5	247.0 mg/L	247.0 mg/L	20:01:53
2	Cd 228.802†	87.2	-19.2	0.0001 mg/L	0.0001 mg/L	20:02:25
2	Co 228.616†	-144.3	17.2	0.0002 mg/L	0.0002 mg/L	20:02:25
2	Cr 267.716†	742.0	-534.8	0.0017 mg/L	0.0017 mg/L	20:02:05
2	Cu 324.752†	27.3	-1893.2	0.0080 mg/L	0.0080 mg/L	20:02:05
2	Fe 234.349†	4372199.6	4835216.3	92.43 mg/L	92.43 mg/L	20:02:00
2	Fe 238.204†	9318987.0	10307392.9	88.17 mg/L	88.17 mg/L	20:01:53
2	Mg 279.077†	5376730.7	5947107.3	238.7 mg/L	238.7 mg/L	20:02:00
2	Mn 257.610†	6589.4	5407.0	0.0034 mg/L	0.0034 mg/L	20:02:05
2	Mo 202.031†	233.6	221.1	0.0147 mg/L	0.0147 mg/L	20:02:25
2	Ni 231.604†	46.4	21.7	0.0010 mg/L	0.0010 mg/L	20:02:25
2	P 214.914†	-90.3	-143.6	-0.0770 mg/L	-0.0770 mg/L	20:02:25
2	Pb 220.353†	-592.9	-504.3	-0.0121 mg/L	-0.0121 mg/L	20:02:25
2	Sb 206.836†	14.0	0.3	0.0009 mg/L	0.0009 mg/L	20:02:25
2	Se 196.026†	5.5	10.1	0.0230 mg/L	0.0230 mg/L	20:02:25
2	Sn 189.927†	28.9	-157.8	-0.0450 mg/L	-0.0450 mg/L	20:02:25
2	Sr 407.771†	23889.2	20121.2	0.0007 mg/L	0.0007 mg/L	20:02:05
2	Ti 337.279†	1994.4	4180.4	0.0060 mg/L	0.0060 mg/L	20:02:05
2	Tl 190.801†	66.8	54.4	0.0658 mg/L	0.0658 mg/L	20:02:25
2	V 292.402†	1469.1	3251.9	0.0019 mg/L	0.0019 mg/L	20:02:05
2	Zn 213.857†	2341.0	1915.7	0.0170 mg/L	0.0170 mg/L	20:02:25

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3040594.1	0.904	mg/L	0.0003				0.03%
Ag 328.068†	-724.1	0.0004	mg/L	0.00001	0.0004	mg/L	0.00001	3.45%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	2265834.9	255.8	mg/L	0.12	255.8	mg/L	0.12	0.04%
QC value within limits for Al 237.313 Recovery = 102.30%								
As 188.979†	9.7	0.0162	mg/L	0.00316	0.0162	mg/L	0.00316	19.43%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	20.2	0.0509	mg/L	0.00775	0.0509	mg/L	0.00775	15.23%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	258.2	0.0018	mg/L	0.00005	0.0018	mg/L	0.00005	2.72%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-2411.6	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	16.80%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	35960939.0	246.7	mg/L	0.47	246.7	mg/L	0.47	0.19%
QC value within limits for Ca 315.886 Recovery = 98.68%								
Cd 228.802†	-9.5	0.0003	mg/L	0.00032	0.0003	mg/L	0.00032	111.88%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	15.7	0.0002	mg/L	0.00006	0.0002	mg/L	0.00006	35.19%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-505.6	0.0019	mg/L	0.00027	0.0019	mg/L	0.00027	14.03%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-1904.1	0.0080	mg/L	0.00006	0.0080	mg/L	0.00006	0.76%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	4834882.6	92.42	mg/L	0.009	92.42	mg/L	0.009	0.01%
QC value within limits for Fe 234.349 Recovery = 92.42%								
Fe 238.204†	10305193.0	88.15	mg/L	0.027	88.15	mg/L	0.027	0.03%
QC value within limits for Fe 238.204 Recovery = 88.15%								
K 766.490†	83.9	0.0499	mg/L	0.00998	0.0499	mg/L	0.00998	19.98%

QC value within limits for K 766.490 Recovery = Not calculated

Li 670.784†	35.9	-0.0013 mg/L	0.00073	-0.0013 mg/L	0.00073	56.87%

QC value within limits for Li 670.784 Recovery = Not calculated

Mg 279.077†	5949513.5	238.8 mg/L	0.14	238.8 mg/L	0.14	0.06%

QC value within limits for Mg 279.077 Recovery = 95.54%

Mn 257.610†	5382.7	0.0034 mg/L	0.00004	0.0034 mg/L	0.00004	1.11%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031†	224.2	0.0149 mg/L	0.00029	0.0149 mg/L	0.00029	1.93%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592	645.4	-0.0231 mg/L	0.00544	-0.0231 mg/L	0.00544	23.52%

QC value within limits for Na 589.592 Recovery = Not calculated

Ni 231.604†	30.7	0.0013 mg/L	0.00041	0.0013 mg/L	0.00041	31.65%

QC value within limits for Ni 231.604 Recovery = Not calculated

P 214.914†	-145.0	-0.0780 mg/L	0.00143	-0.0780 mg/L	0.00143	1.83%

QC value within limits for P 214.914 Recovery = Not calculated

Pb 220.353†	-492.9	-0.0108 mg/L	0.00185	-0.0108 mg/L	0.00185	17.19%

QC value less than the lower limit for Pb 220.353 Recovery = Not calculated

Sb 206.836†	-7.3	-0.0028 mg/L	0.00521	-0.0028 mg/L	0.00521	188.08%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026†	16.4	0.0309 mg/L	0.01113	0.0309 mg/L	0.01113	36.03%

QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.927†	-151.4	-0.0433 mg/L	0.00241	-0.0433 mg/L	0.00241	5.56%

QC value within limits for Sn 189.927 Recovery = Not calculated

Sr 407.771†	19973.2	0.0007 mg/L	0.00001	0.0007 mg/L	0.00001	1.41%

QC value within limits for Sr 407.771 Recovery = Not calculated

Ti 337.279†	4203.6	0.0060 mg/L	0.00004	0.0060 mg/L	0.00004	0.69%

QC value within limits for Ti 337.279 Recovery = Not calculated

Tl 190.801†	50.9	0.0630 mg/L	0.00403	0.0630 mg/L	0.00403	6.40%

QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated

V 292.402†	3302.0	0.0021 mg/L	0.00029	0.0021 mg/L	0.00029	13.79%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857†	1913.1	0.0170 mg/L	0.00005	0.0170 mg/L	0.00005	0.29%

QC value within limits for Zn 213.857 Recovery = Not calculated

QC Failed. Continue with analysis.

Sequence No.: 12
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 159
Date Collected: 6/23/2006 8:04:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490†	651.5	160.7	0.0920	mg/L	0.0920	mg/L	20:05:39
1	Li 670.784†	175.5	24.5	-0.0016	mg/L	-0.0016	mg/L	20:05:39
1	Na 589.592	-218.9	594.3	-0.0293	mg/L	-0.0293	mg/L	20:05:39
1	Y 371.029	3035505.1	3035505.1	0.902	mg/L			20:06:07
1	Ag 328.068†	128305.6	144753.0	0.5069	mg/L	0.5069	mg/L	20:06:12
1	Al 237.313†	2042742.4	2263994.7	255.6	mg/L	255.6	mg/L	20:06:07
1	As 188.979†	13.5	10.3	0.0167	mg/L	0.0167	mg/L	20:06:32
1	B 182.528†	15.8	20.3	0.0511	mg/L	0.0511	mg/L	20:06:32
1	Ba 233.527†	25378.1	28306.1	0.2355	mg/L	0.2355	mg/L	20:06:12
1	Be 313.107†	1066379.9	1179650.8	0.2449	mg/L	0.2449	mg/L	20:06:07
1	Ca 315.886†	32689740.8	36227742.9	248.5	mg/L	248.5	mg/L	20:05:59
1	Cd 228.802†	16481.9	18151.0	0.4495	mg/L	0.4495	mg/L	20:06:12
1	Co 228.616†	7198.8	8155.2	0.2132	mg/L	0.2132	mg/L	20:06:32
1	Cr 267.716†	33119.4	35350.2	0.2345	mg/L	0.2345	mg/L	20:06:12
1	Cu 324.752†	55723.1	59833.6	0.2424	mg/L	0.2424	mg/L	20:06:12
1	Fe 234.349†	4366753.6	4838371.2	92.48	mg/L	92.48	mg/L	20:06:07
1	Fe 238.204†	9370114.7	10383646.0	88.82	mg/L	88.82	mg/L	20:05:59
1	Mg 279.077†	5365293.1	5945733.3	238.7	mg/L	238.7	mg/L	20:06:07
1	Mn 257.610†	196333.5	215711.4	0.2348	mg/L	0.2348	mg/L	20:06:12
1	Mo 202.031†	233.8	221.8	0.0148	mg/L	0.0148	mg/L	20:06:32
1	Ni 231.604†	11990.9	13259.7	0.4247	mg/L	0.4247	mg/L	20:06:12
1	P 214.914†	-43.1	-91.5	-0.0398	mg/L	-0.0398	mg/L	20:06:32
1	Pb 220.353†	3067.2	3550.9	0.4459	mg/L	0.4459	mg/L	20:06:32
1	Sb 206.836†	9.6	-4.5	-0.0052	mg/L	-0.0052	mg/L	20:06:32
1	Se 196.026†	11.6	16.9	0.0316	mg/L	0.0316	mg/L	20:06:32
1	Sn 189.927†	29.4	-157.3	-0.0449	mg/L	-0.0449	mg/L	20:06:32

1	Sr 407.771†	22642.9	18790.2	0.0006 mg/L	0.0006 mg/L	20:06:12
1	Ti 337.279†	2037.5	4232.3	0.0060 mg/L	0.0060 mg/L	20:06:12
1	Tl 190.801†	60.8	47.9	0.0622 mg/L	0.0622 mg/L	20:06:32
1	V 292.402†	55002.6	62585.5	0.2374 mg/L	0.2374 mg/L	20:06:12
1	Zn 213.857†	34369.1	37416.9	0.4739 mg/L	0.4739 mg/L	20:06:12
2	K 766.490†	643.0	146.9	0.0845 mg/L	0.0845 mg/L	20:05:45
2	Li 670.784†	202.8	53.4	-0.0008 mg/L	-0.0008 mg/L	20:05:45
2	Na 589.592	-118.2	695.0	-0.0171 mg/L	-0.0171 mg/L	20:05:45
2	Y 371.029	3053677.8	3053677.8	0.908 mg/L		20:06:51
2	Ag 328.068†	130034.9	145811.9	0.5106 mg/L	0.5106 mg/L	20:06:57
2	Al 237.313†	2055387.4	2264452.6	255.6 mg/L	255.6 mg/L	20:06:51
2	As 188.979†	5.3	1.2	0.0042 mg/L	0.0042 mg/L	20:07:17
2	B 182.528†	11.6	15.5	0.0404 mg/L	0.0404 mg/L	20:07:17
2	Ba 233.527†	25755.4	28554.4	0.2376 mg/L	0.2376 mg/L	20:06:57
2	Be 313.107†	1071949.4	1178753.3	0.2447 mg/L	0.2447 mg/L	20:06:51
2	Ca 315.886†	32586659.7	35898574.2	246.3 mg/L	246.3 mg/L	20:06:44
2	Cd 228.802†	16704.9	18287.9	0.4530 mg/L	0.4530 mg/L	20:06:57
2	Co 228.616†	7192.1	8100.3	0.2117 mg/L	0.2117 mg/L	20:07:17
2	Cr 267.716†	33587.3	35647.2	0.2364 mg/L	0.2364 mg/L	20:06:57
2	Cu 324.752†	56766.8	60616.0	0.2453 mg/L	0.2453 mg/L	20:06:57
2	Fe 234.349†	4382580.7	4827006.8	92.26 mg/L	92.26 mg/L	20:06:51
2	Fe 238.204†	9324230.4	10271295.0	87.86 mg/L	87.86 mg/L	20:06:44
2	Mg 279.077†	5401797.1	5950562.6	238.9 mg/L	238.9 mg/L	20:06:51
2	Mn 257.610†	199042.1	217400.5	0.2367 mg/L	0.2367 mg/L	20:06:57
2	Mo 202.031†	225.0	210.6	0.0140 mg/L	0.0140 mg/L	20:07:17
2	Ni 231.604†	12350.8	13577.2	0.4348 mg/L	0.4348 mg/L	20:06:57
2	P 214.914†	-47.8	-96.4	-0.0433 mg/L	-0.0433 mg/L	20:07:17
2	Pb 220.353†	3037.1	3497.4	0.4399 mg/L	0.4399 mg/L	20:07:17
2	Sb 206.836†	9.6	-4.6	-0.0052 mg/L	-0.0052 mg/L	20:07:17
2	Se 196.026†	6.0	10.7	0.0237 mg/L	0.0237 mg/L	20:07:17
2	Sn 189.927†	31.4	-155.2	-0.0444 mg/L	-0.0444 mg/L	20:07:17
2	Sr 407.771†	23161.9	19212.6	0.0006 mg/L	0.0006 mg/L	20:06:57
2	Ti 337.279†	1932.8	4103.6	0.0059 mg/L	0.0059 mg/L	20:06:57
2	Tl 190.801†	67.2	54.6	0.0677 mg/L	0.0677 mg/L	20:07:17
2	V 292.402†	55778.1	63077.1	0.2394 mg/L	0.2394 mg/L	20:06:57
2	Zn 213.857†	34941.1	37820.3	0.4791 mg/L	0.4791 mg/L	20:06:57

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3044591.5	0.905	mg/L	0.0038				0.42%
Ag 328.068†	145282.5	0.5087	mg/L	0.00260	0.5087	mg/L	0.00260	0.51%
QC value within limits for Ag 328.068 Recovery = 101.75%								
Al 237.313†	2264223.7	255.6	mg/L	0.04	255.6	mg/L	0.04	0.01%
QC value within limits for Al 237.313 Recovery = 102.23%								
As 188.979†	5.7	0.0105	mg/L	0.00882	0.0105	mg/L	0.00882	84.30%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	17.9	0.0458	mg/L	0.00761	0.0458	mg/L	0.00761	16.63%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	28430.2	0.2365	mg/L	0.00146	0.2365	mg/L	0.00146	0.62%
QC value within limits for Ba 233.527 Recovery = 94.62%								
Be 313.107†	1179202.1	0.2448	mg/L	0.00013	0.2448	mg/L	0.00013	0.05%
QC value within limits for Be 313.107 Recovery = 97.91%								
Ca 315.886†	36063158.5	247.4	mg/L	1.60	247.4	mg/L	1.60	0.65%
QC value within limits for Ca 315.886 Recovery = 98.97%								
Cd 228.802†	18219.4	0.4513	mg/L	0.00243	0.4513	mg/L	0.00243	0.54%
QC value within limits for Cd 228.802 Recovery = 90.25%								
Co 228.616†	8127.7	0.2125	mg/L	0.00102	0.2125	mg/L	0.00102	0.48%
QC value within limits for Co 228.616 Recovery = 84.98%								
Cr 267.716†	35498.7	0.2354	mg/L	0.00135	0.2354	mg/L	0.00135	0.57%
QC value within limits for Cr 267.716 Recovery = 94.16%								
Cu 324.752†	60224.8	0.2438	mg/L	0.00207	0.2438	mg/L	0.00207	0.85%
QC value within limits for Cu 324.752 Recovery = 97.53%								
Fe 234.349†	4832689.0	92.37	mg/L	0.154	92.37	mg/L	0.154	0.17%
QC value within limits for Fe 234.349 Recovery = 92.37%								
Fe 238.204†	10327470.5	88.34	mg/L	0.680	88.34	mg/L	0.680	0.77%
QC value within limits for Fe 238.204 Recovery = 88.34%								
K 766.490†	153.8	0.0883	mg/L	0.00532	0.0883	mg/L	0.00532	6.02%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	39.0	-0.0012	mg/L	0.00059	-0.0012	mg/L	0.00059	49.23%
QC value within limits for Li 670.784 Recovery = Not calculated								

Mg 279.077†	5948148.0	238.8 mg/L	0.14	238.8 mg/L	0.14	0.06%
QC value within limits for Mg 279.077 Recovery = 95.52%						
Mn 257.610†	216556.0	0.2358 mg/L	0.00131	0.2358 mg/L	0.00131	0.56%
QC value within limits for Mn 257.610 Recovery = 94.30%						
Mo 202.031†	216.2	0.0144 mg/L	0.00052	0.0144 mg/L	0.00052	3.63%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	644.7	-0.0232 mg/L	0.00865	-0.0232 mg/L	0.00865	37.26%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	13418.5	0.4298 mg/L	0.00718	0.4298 mg/L	0.00718	1.67%
QC value within limits for Ni 231.604 Recovery = 85.95%						
P 214.914†	-94.0	-0.0416 mg/L	0.00249	-0.0416 mg/L	0.00249	5.99%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	3524.1	0.4429 mg/L	0.00426	0.4429 mg/L	0.00426	0.96%
QC value within limits for Pb 220.353 Recovery = 88.58%						
Sb 206.836†	-4.6	-0.0052 mg/L	0.00006	-0.0052 mg/L	0.00006	1.11%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	13.8	0.0277 mg/L	0.00554	0.0277 mg/L	0.00554	20.04%
QC value greater than the upper limit for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-156.3	-0.0446 mg/L	0.00038	-0.0446 mg/L	0.00038	0.85%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	19001.4	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	2.16%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	4168.0	0.0059 mg/L	0.00011	0.0059 mg/L	0.00011	1.93%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	51.2	0.0649 mg/L	0.00391	0.0649 mg/L	0.00391	6.02%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated						
V 292.402†	62831.3	0.2384 mg/L	0.00139	0.2384 mg/L	0.00139	0.58%
QC value within limits for V 292.402 Recovery = 95.37%						
Zn 213.857†	37618.6	0.4765 mg/L	0.00366	0.4765 mg/L	0.00366	0.77%
QC value within limits for Zn 213.857 Recovery = 95.30%						

QC Failed. Continue with analysis.

Sequence No.: 13
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/23/2006 8:08:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	44964.5	44761.2	24.55	mg/L	24.55	mg/L	20:10:33
1	Li 670.784†	17505.5	17474.9	0.4997	mg/L	0.4997	mg/L	20:10:33
1	Na 589.592	204074.9	204888.1	24.79	mg/L	24.79	mg/L	20:10:33
1	Y 371.029	3337627.3	3337627.3	0.992	mg/L			20:10:48
1	Ag 328.068†	68777.1	71878.6	0.2499	mg/L	0.2499	mg/L	20:10:53
1	Al 237.313†	21735.4	21961.5	2.477	mg/L	2.477	mg/L	20:10:53
1	As 188.979†	361.8	360.0	0.4947	mg/L	0.4947	mg/L	20:11:13
1	B 182.528†	209.1	213.5	0.4854	mg/L	0.4854	mg/L	20:11:13
1	Ba 233.527†	59179.2	59830.5	0.4985	mg/L	0.4985	mg/L	20:10:53
1	Be 313.107†	239724.5	239431.0	0.0492	mg/L	0.0492	mg/L	20:10:53
1	Ca 315.886†	727618.1	731592.7	5.018	mg/L	5.018	mg/L	20:10:48
1	Cd 228.802†	10080.0	10044.6	0.2476	mg/L	0.2476	mg/L	20:11:13
1	Co 228.616†	18615.2	18940.3	0.4945	mg/L	0.4945	mg/L	20:10:53
1	Cr 267.716†	77711.7	76974.9	0.4989	mg/L	0.4989	mg/L	20:10:53
1	Cu 324.752†	132943.5	132078.7	0.5007	mg/L	0.5007	mg/L	20:10:53
1	Fe 234.349†	131333.4	131141.2	2.497	mg/L	2.497	mg/L	20:10:53
1	Fe 238.204†	291794.8	293003.1	2.502	mg/L	2.502	mg/L	20:10:53
1	Mg 279.077†	124542.2	124991.2	5.012	mg/L	5.012	mg/L	20:10:53
1	Mn 257.610†	456784.1	458539.5	0.5020	mg/L	0.5020	mg/L	20:10:48
1	Mo 202.031†	7479.4	7501.7	0.4938	mg/L	0.4938	mg/L	20:11:13
1	Ni 231.604†	15713.9	15809.4	0.5067	mg/L	0.5067	mg/L	20:10:53
1	P 214.914†	6854.6	6865.4	4.918	mg/L	4.918	mg/L	20:11:13
1	Pb 220.353†	4225.2	4410.4	0.4977	mg/L	0.4977	mg/L	20:11:13
1	Sb 206.836†	1030.7	1023.7	0.4825	mg/L	0.4825	mg/L	20:11:13
1	Se 196.026†	777.0	787.2	0.9970	mg/L	0.9970	mg/L	20:11:13
1	Sn 189.927†	2032.8	1859.1	0.4863	mg/L	0.4863	mg/L	20:11:13
1	Sr 407.771†	1113410.7	1115972.5	0.0502	mg/L	0.0502	mg/L	20:10:48
1	Ti 337.279†	386562.3	391614.9	0.4947	mg/L	0.4947	mg/L	20:10:48
1	Tl 190.801†	550.3	535.2	0.4625	mg/L	0.4625	mg/L	20:11:13

Sequence No.: 49
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/23/2006 10:53:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	44221.3	44892.3	24.62	mg/L	24.62	mg/L	22:55:11
1	Li 670.784†	16964.0	17266.8	0.4937	mg/L	0.4937	mg/L	22:55:11
1	Na 589.592	197118.0	197931.2	23.95	mg/L	23.95	mg/L	22:55:11
1	Y 371.029	3272994.7	3272994.7	0.973	mg/L			22:55:26
1	Ag 328.068†	65705.8	70090.7	0.2437	mg/L	0.2437	mg/L	22:55:31
1	Al 237.313†	20696.2	21326.0	2.405	mg/L	2.405	mg/L	22:55:31
1	As 188.979†	355.2	360.4	0.4953	mg/L	0.4953	mg/L	22:55:51
1	B 182.528†	209.7	218.3	0.4962	mg/L	0.4962	mg/L	22:55:51
1	Ba 233.527†	56199.3	57945.4	0.4828	mg/L	0.4828	mg/L	22:55:31
1	Be 313.107†	228062.9	232216.1	0.0478	mg/L	0.0478	mg/L	22:55:31
1	Ca 315.886†	690621.9	708048.3	4.856	mg/L	4.856	mg/L	22:55:26
1	Cd 228.802†	9665.9	9819.6	0.2420	mg/L	0.2420	mg/L	22:55:51
1	Co 228.616†	17656.7	18325.6	0.4784	mg/L	0.4784	mg/L	22:55:31
1	Cr 267.716†	74176.4	74887.9	0.4854	mg/L	0.4854	mg/L	22:55:31
1	Cu 324.752†	128005.1	129648.9	0.4915	mg/L	0.4915	mg/L	22:55:31
1	Fe 234.349†	124621.8	126856.7	2.416	mg/L	2.416	mg/L	22:55:31
1	Fe 238.204†	277137.8	283745.6	2.423	mg/L	2.423	mg/L	22:55:31
1	Mg 279.077†	118087.8	120835.9	4.845	mg/L	4.845	mg/L	22:55:31
1	Mn 257.610†	435268.7	445516.6	0.4877	mg/L	0.4877	mg/L	22:55:26
1	Mo 202.031†	7170.3	7332.9	0.4827	mg/L	0.4827	mg/L	22:55:51
1	Ni 231.604†	14978.4	15366.2	0.4925	mg/L	0.4925	mg/L	22:55:31
1	P 214.914†	6531.4	6669.6	4.779	mg/L	4.779	mg/L	22:55:51
1	Pb 220.353†	3997.7	4260.6	0.4808	mg/L	0.4808	mg/L	22:55:51
1	Sb 206.836†	984.4	996.6	0.4697	mg/L	0.4697	mg/L	22:55:51
1	Se 196.026†	731.0	755.4	0.9572	mg/L	0.9572	mg/L	22:55:51
1	Sn 189.927†	1881.1	1743.7	0.4557	mg/L	0.4557	mg/L	22:55:51
1	Sr 407.771†	1065200.7	1088580.9	0.0490	mg/L	0.0490	mg/L	22:55:26
1	Ti 337.279†	371543.6	383872.0	0.4849	mg/L	0.4849	mg/L	22:55:31
1	Tl 190.801†	605.6	603.0	0.5180	mg/L	0.5180	mg/L	22:55:51
1	V 292.402†	117451.1	122351.1	0.4937	mg/L	0.4937	mg/L	22:55:31
1	Zn 213.857†	37072.6	37431.8	0.4824	mg/L	0.4824	mg/L	22:55:31
2	K 766.490†	44045.5	44718.6	24.52	mg/L	24.52	mg/L	22:55:17
2	Li 670.784†	16917.5	17221.6	0.4924	mg/L	0.4924	mg/L	22:55:17
2	Na 589.592	197394.0	198207.2	23.98	mg/L	23.98	mg/L	22:55:17
2	Y 371.029	3272488.3	3272488.3	0.973	mg/L			22:55:58
2	Ag 328.068†	66377.4	70791.6	0.2461	mg/L	0.2461	mg/L	22:56:03
2	Al 237.313†	20921.9	21561.3	2.432	mg/L	2.432	mg/L	22:56:03
2	As 188.979†	350.9	356.0	0.4893	mg/L	0.4893	mg/L	22:56:24
2	B 182.528†	206.4	214.9	0.4886	mg/L	0.4886	mg/L	22:56:24
2	Ba 233.527†	56864.1	58637.8	0.4885	mg/L	0.4885	mg/L	22:56:03
2	Be 313.107†	230036.9	234281.7	0.0482	mg/L	0.0482	mg/L	22:56:03
2	Ca 315.886†	689194.1	706690.4	4.847	mg/L	4.847	mg/L	22:55:58
2	Cd 228.802†	9617.4	9771.2	0.2408	mg/L	0.2408	mg/L	22:56:24
2	Co 228.616†	17826.8	18503.2	0.4831	mg/L	0.4831	mg/L	22:56:03
2	Cr 267.716†	74826.4	75568.0	0.4898	mg/L	0.4898	mg/L	22:56:03
2	Cu 324.752†	129374.4	131076.9	0.4969	mg/L	0.4969	mg/L	22:56:03
2	Fe 234.349†	126024.1	128318.1	2.444	mg/L	2.444	mg/L	22:56:03
2	Fe 238.204†	280201.0	286938.8	2.450	mg/L	2.450	mg/L	22:56:03
2	Mg 279.077†	119149.7	121946.4	4.889	mg/L	4.889	mg/L	22:56:03
2	Mn 257.610†	434567.5	444865.0	0.4870	mg/L	0.4870	mg/L	22:55:58
2	Mo 202.031†	7141.8	7304.6	0.4809	mg/L	0.4809	mg/L	22:56:24
2	Ni 231.604†	15287.0	15685.8	0.5027	mg/L	0.5027	mg/L	22:56:03
2	P 214.914†	6508.1	6646.8	4.762	mg/L	4.762	mg/L	22:56:24
2	Pb 220.353†	3993.9	4257.4	0.4804	mg/L	0.4804	mg/L	22:56:24
2	Sb 206.836†	981.2	993.5	0.4682	mg/L	0.4682	mg/L	22:56:24
2	Se 196.026†	737.0	761.7	0.9651	mg/L	0.9651	mg/L	22:56:24
2	Sn 189.927†	1867.2	1729.7	0.4520	mg/L	0.4520	mg/L	22:56:24
2	Sr 407.771†	1065611.2	1089172.3	0.0490	mg/L	0.0490	mg/L	22:55:58
2	Ti 337.279†	374590.1	387063.0	0.4889	mg/L	0.4889	mg/L	22:56:03
2	Tl 190.801†	600.4	597.7	0.5136	mg/L	0.5136	mg/L	22:56:24
2	V 292.402†	118458.1	123405.0	0.4979	mg/L	0.4979	mg/L	22:56:03
2	Zn 213.857†	37380.5	37754.3	0.4865	mg/L	0.4865	mg/L	22:56:03

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3272741.5	0.973	mg/L	0.0001				0.01%
Ag 328.068†	70441.1	0.2449	mg/L	0.00173	0.2449	mg/L	0.00173	0.70%
QC value within limits for Ag 328.068 Recovery = 97.95%								
Al 237.313†	21443.7	2.418	mg/L	0.0188	2.418	mg/L	0.0188	0.78%
QC value within limits for Al 237.313 Recovery = 96.73%								
As 188.979†	358.2	0.4923	mg/L	0.00426	0.4923	mg/L	0.00426	0.86%
QC value within limits for As 188.979 Recovery = 98.46%								
B 182.528†	216.6	0.4924	mg/L	0.00536	0.4924	mg/L	0.00536	1.09%
QC value within limits for B 182.528 Recovery = 98.47%								
Ba 233.527†	58291.6	0.4856	mg/L	0.00408	0.4856	mg/L	0.00408	0.84%
QC value within limits for Ba 233.527 Recovery = 97.13%								
Be 313.107†	233248.9	0.0480	mg/L	0.00030	0.0480	mg/L	0.00030	0.63%
QC value within limits for Be 313.107 Recovery = 95.93%								
Ca 315.886†	707369.4	4.851	mg/L	0.0066	4.851	mg/L	0.0066	0.14%
QC value within limits for Ca 315.886 Recovery = 97.03%								
Cd 228.802†	9795.4	0.2414	mg/L	0.00080	0.2414	mg/L	0.00080	0.33%
QC value within limits for Cd 228.802 Recovery = 96.55%								
Co 228.616†	18414.4	0.4807	mg/L	0.00328	0.4807	mg/L	0.00328	0.68%
QC value within limits for Co 228.616 Recovery = 96.15%								
Cr 267.716†	75227.9	0.4876	mg/L	0.00312	0.4876	mg/L	0.00312	0.64%
QC value within limits for Cr 267.716 Recovery = 97.52%								
Cu 324.752†	130362.9	0.4942	mg/L	0.00384	0.4942	mg/L	0.00384	0.78%
QC value within limits for Cu 324.752 Recovery = 98.84%								
Fe 234.349†	127587.4	2.430	mg/L	0.0197	2.430	mg/L	0.0197	0.81%
QC value within limits for Fe 234.349 Recovery = 97.18%								
Fe 238.204†	285342.2	2.436	mg/L	0.0193	2.436	mg/L	0.0193	0.79%
QC value within limits for Fe 238.204 Recovery = 97.45%								
K 766.490†	44805.4	24.57	mg/L	0.067	24.57	mg/L	0.067	0.27%
QC value within limits for K 766.490 Recovery = 98.28%								
Li 670.784†	17244.2	0.4931	mg/L	0.00092	0.4931	mg/L	0.00092	0.19%
QC value within limits for Li 670.784 Recovery = 98.62%								
Mg 279.077†	121391.2	4.867	mg/L	0.0315	4.867	mg/L	0.0315	0.65%
QC value within limits for Mg 279.077 Recovery = 97.34%								
Mn 257.610†	445190.8	0.4873	mg/L	0.00051	0.4873	mg/L	0.00051	0.10%
QC value within limits for Mn 257.610 Recovery = 97.46%								
Mo 202.031†	7318.8	0.4818	mg/L	0.00131	0.4818	mg/L	0.00131	0.27%
QC value within limits for Mo 202.031 Recovery = 96.36%								
Na 589.592	198069.2	23.96	mg/L	0.024	23.96	mg/L	0.024	0.10%
QC value within limits for Na 589.592 Recovery = 95.85%								
Ni 231.604†	15526.0	0.4976	mg/L	0.00723	0.4976	mg/L	0.00723	1.45%
QC value within limits for Ni 231.604 Recovery = 99.52%								
P 214.914†	6658.2	4.770	mg/L	0.0115	4.770	mg/L	0.0115	0.24%
QC value within limits for P 214.914 Recovery = 95.41%								
Pb 220.353†	4259.0	0.4806	mg/L	0.00027	0.4806	mg/L	0.00027	0.06%
QC value within limits for Pb 220.353 Recovery = 96.12%								
Sb 206.836†	995.1	0.4689	mg/L	0.00109	0.4689	mg/L	0.00109	0.23%
QC value within limits for Sb 206.836 Recovery = 93.79%								
Se 196.026†	758.6	0.9612	mg/L	0.00558	0.9612	mg/L	0.00558	0.58%
QC value within limits for Se 196.026 Recovery = 96.12%								
Sn 189.927†	1736.7	0.4538	mg/L	0.00263	0.4538	mg/L	0.00263	0.58%
QC value within limits for Sn 189.927 Recovery = 90.77%								
Sr 407.771†	1088876.6	0.0490	mg/L	0.00002	0.0490	mg/L	0.00002	0.04%
QC value within limits for Sr 407.771 Recovery = 97.99%								
Ti 337.279†	385467.5	0.4869	mg/L	0.00285	0.4869	mg/L	0.00285	0.58%
QC value within limits for Ti 337.279 Recovery = 97.39%								
Tl 190.801†	600.3	0.5158	mg/L	0.00309	0.5158	mg/L	0.00309	0.60%
QC value within limits for Tl 190.801 Recovery = 103.16%								
V 292.402†	122878.1	0.4958	mg/L	0.00293	0.4958	mg/L	0.00293	0.59%
QC value within limits for V 292.402 Recovery = 99.16%								
Zn 213.857†	37593.0	0.4844	mg/L	0.00291	0.4844	mg/L	0.00291	0.60%
QC value within limits for Zn 213.857 Recovery = 96.89%								

All analyte(s) passed QC.

Sequence No.: 50
Sample ID: ICCB
Analyst:

Autosampler Location: 1
Date Collected: 6/23/2006 10:58:02 PM
Data Type: Original

Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	687.1	142.0	0.0818	mg/L	0.0818	mg/L	22:59:35
1	Li 670.784†	205.1	39.9	-0.0012	mg/L	-0.0012	mg/L	22:59:35
1	Na 589.592	-656.6	156.6	-0.0825	mg/L	-0.0825	mg/L	22:59:35
1	Y 371.029	3286607.1	3286607.1	0.977	mg/L			22:59:48
1	Ag 328.068†	-1695.3	818.5	0.0020	mg/L	0.0020	mg/L	22:59:53
1	Al 237.313†	-66.5	-15.0	0.0011	mg/L	0.0011	mg/L	23:00:14
1	As 188.979†	4.3	-0.3	0.0026	mg/L	0.0026	mg/L	23:00:14
1	B 182.528†	2.3	5.1	0.0170	mg/L	0.0170	mg/L	23:00:14
1	Ba 233.527†	-182.4	-6.7	-0.0004	mg/L	-0.0004	mg/L	23:00:14
1	Be 313.107†	2332.6	185.2	0.0002	mg/L	0.0002	mg/L	22:59:53
1	Ca 315.886†	1400.1	-386.5	-0.0068	mg/L	-0.0068	mg/L	22:59:53
1	Cd 228.802†	113.8	0.8	0.0000	mg/L	0.0000	mg/L	23:00:14
1	Co 228.616†	-158.6	14.5	0.0001	mg/L	0.0001	mg/L	23:00:14
1	Cr 267.716†	1299.9	-25.0	-0.0005	mg/L	-0.0005	mg/L	22:59:53
1	Cu 324.752†	3031.1	1179.3	0.0030	mg/L	0.0030	mg/L	22:59:53
1	Fe 234.349†	1375.9	170.3	-0.0006	mg/L	-0.0006	mg/L	23:00:14
1	Fe 238.204†	1297.5	212.8	-0.0035	mg/L	-0.0035	mg/L	23:00:14
1	Mg 279.077†	535.1	5.1	-0.0112	mg/L	-0.0112	mg/L	22:59:53
1	Mn 257.610†	1841.5	2.9	-0.0025	mg/L	-0.0025	mg/L	22:59:53
1	Mo 202.031†	38.6	2.2	0.0003	mg/L	0.0003	mg/L	23:00:14
1	Ni 231.604†	53.3	25.0	0.0011	mg/L	0.0011	mg/L	23:00:14
1	P 214.914†	36.5	-6.4	0.0209	mg/L	0.0209	mg/L	23:00:14
1	Pb 220.353†	-166.1	-18.5	-0.0038	mg/L	-0.0038	mg/L	23:00:14
1	Sb 206.836†	1.6	-13.5	-0.0058	mg/L	-0.0058	mg/L	23:00:14
1	Se 196.026†	-6.5	-2.6	0.0071	mg/L	0.0071	mg/L	23:00:14
1	Sn 189.927†	98.3	-89.2	-0.0306	mg/L	-0.0306	mg/L	23:00:14
1	Sr 407.771†	6296.0	140.0	-0.0002	mg/L	-0.0002	mg/L	22:59:48
1	Ti 337.279†	-2233.9	-312.4	0.0003	mg/L	0.0003	mg/L	22:59:53
1	Tl 190.801†	-0.5	-20.0	0.0048	mg/L	0.0048	mg/L	23:00:14
1	V 292.402†	-1633.6	-45.3	0.0006	mg/L	0.0006	mg/L	22:59:53
1	Zn 213.857†	613.2	-46.3	-0.0001	mg/L	-0.0001	mg/L	23:00:14
2	K 766.490†	581.6	24.6	0.0174	mg/L	0.0174	mg/L	22:59:40
2	Li 670.784†	166.7	-2.1	-0.0024	mg/L	-0.0024	mg/L	22:59:40
2	Na 589.592	-714.0	99.2	-0.0895	mg/L	-0.0895	mg/L	22:59:40
2	Y 371.029	3339028.8	3339028.8	0.993	mg/L			23:00:20
2	Ag 328.068†	-1981.4	557.5	0.0011	mg/L	0.0011	mg/L	23:00:25
2	Al 237.313†	-62.0	-9.4	0.0018	mg/L	0.0018	mg/L	23:00:45
2	As 188.979†	6.1	1.4	0.0049	mg/L	0.0049	mg/L	23:00:45
2	B 182.528†	-0.4	2.3	0.0108	mg/L	0.0108	mg/L	23:00:45
2	Ba 233.527†	-169.0	9.6	-0.0003	mg/L	-0.0003	mg/L	23:00:45
2	Be 313.107†	2330.3	145.4	0.0002	mg/L	0.0002	mg/L	23:00:25
2	Ca 315.886†	1541.6	-266.4	-0.0059	mg/L	-0.0059	mg/L	23:00:25
2	Cd 228.802†	132.1	17.4	0.0004	mg/L	0.0004	mg/L	23:00:45
2	Co 228.616†	-163.1	12.5	0.0001	mg/L	0.0001	mg/L	23:00:45
2	Cr 267.716†	1212.7	-133.8	-0.0012	mg/L	-0.0012	mg/L	23:00:25
2	Cu 324.752†	3013.6	1112.9	0.0028	mg/L	0.0028	mg/L	23:00:25
2	Fe 234.349†	1387.9	160.3	-0.0008	mg/L	-0.0008	mg/L	23:00:45
2	Fe 238.204†	1284.9	179.2	-0.0038	mg/L	-0.0038	mg/L	23:00:45
2	Mg 279.077†	512.7	-26.2	-0.0124	mg/L	-0.0124	mg/L	23:00:25
2	Mn 257.610†	1912.5	44.9	-0.0025	mg/L	-0.0025	mg/L	23:00:25
2	Mo 202.031†	40.2	3.2	0.0004	mg/L	0.0004	mg/L	23:00:45
2	Ni 231.604†	37.9	8.5	0.0006	mg/L	0.0006	mg/L	23:00:45
2	P 214.914†	33.1	-10.4	0.0180	mg/L	0.0180	mg/L	23:00:45
2	Pb 220.353†	-165.7	-15.4	-0.0035	mg/L	-0.0035	mg/L	23:00:45
2	Sb 206.836†	5.9	-9.2	-0.0037	mg/L	-0.0037	mg/L	23:00:45
2	Se 196.026†	-4.3	-0.3	0.0100	mg/L	0.0100	mg/L	23:00:45
2	Sn 189.927†	84.3	-104.8	-0.0347	mg/L	-0.0347	mg/L	23:00:45
2	Sr 407.771†	6504.7	249.0	-0.0002	mg/L	-0.0002	mg/L	23:00:20
2	Ti 337.279†	-2108.3	-150.0	0.0005	mg/L	0.0005	mg/L	23:00:25
2	Tl 190.801†	2.4	-17.1	0.0072	mg/L	0.0072	mg/L	23:00:45
2	V 292.402†	-1662.3	-48.0	0.0005	mg/L	0.0005	mg/L	23:00:25
2	Zn 213.857†	615.9	-53.4	-0.0002	mg/L	-0.0002	mg/L	23:00:45

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3312817.9	0.985	mg/L	0.0110				1.12%
Ag 328.068†	688.0	0.0016	mg/L	0.00064	0.0016	mg/L	0.00064	40.27%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	-12.2	0.0014	mg/L	0.00045	0.0014	mg/L	0.00045	31.23%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	0.6	0.0037	mg/L	0.00163	0.0037	mg/L	0.00163	43.54%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	3.7	0.0139	mg/L	0.00434	0.0139	mg/L	0.00434	31.29%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	1.4	-0.0004	mg/L	0.00010	-0.0004	mg/L	0.00010	26.63%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	165.3	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	3.92%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	-326.4	-0.0063	mg/L	0.00058	-0.0063	mg/L	0.00058	9.17%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	9.1	0.0002	mg/L	0.00028	0.0002	mg/L	0.00028	164.36%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	13.5	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	32.03%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-79.4	-0.0009	mg/L	0.00050	-0.0009	mg/L	0.00050	57.98%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	1146.1	0.0029	mg/L	0.00018	0.0029	mg/L	0.00018	6.13%
QC value greater than the upper limit for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	165.3	-0.0007	mg/L	0.00013	-0.0007	mg/L	0.00013	18.55%
QC value within limits for Fe 234.349 Recovery = Not calculated								
Fe 238.204†	196.0	-0.0037	mg/L	0.00020	-0.0037	mg/L	0.00020	5.53%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	83.3	0.0496	mg/L	0.04552	0.0496	mg/L	0.04552	91.79%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	18.9	-0.0018	mg/L	0.00085	-0.0018	mg/L	0.00085	48.28%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	-10.6	-0.0118	mg/L	0.00089	-0.0118	mg/L	0.00089	7.53%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	23.9	-0.0025	mg/L	0.00003	-0.0025	mg/L	0.00003	1.31%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	2.7	0.0003	mg/L	0.00005	0.0003	mg/L	0.00005	13.66%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	127.9	-0.0860	mg/L	0.00493	-0.0860	mg/L	0.00493	5.73%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	16.8	0.0008	mg/L	0.00037	0.0008	mg/L	0.00037	44.94%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 214.914†	-8.4	0.0194	mg/L	0.00202	0.0194	mg/L	0.00202	10.39%
QC value within limits for P 214.914 Recovery = Not calculated								
Pb 220.353†	-17.0	-0.0036	mg/L	0.00024	-0.0036	mg/L	0.00024	6.70%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-11.4	-0.0048	mg/L	0.00147	-0.0048	mg/L	0.00147	30.85%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-1.5	0.0085	mg/L	0.00206	0.0085	mg/L	0.00206	24.10%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-97.0	-0.0326	mg/L	0.00293	-0.0326	mg/L	0.00293	8.98%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated								
Sr 407.771†	194.5	-0.0002	mg/L	0.00000	-0.0002	mg/L	0.00000	1.55%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Ti 337.279†	-231.2	0.0004	mg/L	0.00014	0.0004	mg/L	0.00014	36.40%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801†	-18.6	0.0060	mg/L	0.00171	0.0060	mg/L	0.00171	28.49%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-46.6	0.0006	mg/L	0.00001	0.0006	mg/L	0.00001	1.18%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	-49.8	-0.0001	mg/L	0.00006	-0.0001	mg/L	0.00006	46.63%
QC value within limits for Zn 213.857 Recovery = Not calculated								

QC Failed. Continue with analysis.

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Sequence No.: 51
Sample ID: BF62317-PDS2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 6/23/2006 11:02:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Y 371.029	3291675.5	0.978 mg/L	0.0070			0.71%
Ag 328.068†	410.0	0.0034 mg/L	0.00060	0.0034 mg/L	0.00060	17.59%
Al 237.313†	111194.6	12.26 mg/L	0.222	12.26 mg/L	0.222	1.81%
As 188.979†	73.6	0.1029 mg/L	0.00317	0.1029 mg/L	0.00317	3.08%
B 182.528†	6.2	0.0196 mg/L	0.00041	0.0196 mg/L	0.00041	2.10%
Ba 233.527†	12543.5	0.1042 mg/L	0.00169	0.1042 mg/L	0.00169	1.62%
Be 313.107†	3957.0	0.0005 mg/L	0.00002	0.0005 mg/L	0.00002	3.26%
Ca 315.886†	804368.8	5.515 mg/L	0.0111	5.515 mg/L	0.0111	0.20%
Cd 228.802†	130.4	0.0033 mg/L	0.00021	0.0033 mg/L	0.00021	6.46%
Co 228.616†	1773.2	0.0446 mg/L	0.00059	0.0446 mg/L	0.00059	1.33%
Cr 267.716†	6831.5	0.0459 mg/L	0.00097	0.0459 mg/L	0.00097	2.11%
Cu 324.752†	3366.5	0.0244 mg/L	0.00013	0.0244 mg/L	0.00013	0.54%
Fe 234.349†	3598841.9	68.79 mg/L	0.097	68.79 mg/L	0.097	0.14%
Fe 238.204†	7821255.2	66.90 mg/L	0.062	66.90 mg/L	0.062	0.09%
K 766.490†	4022.4	2.209 mg/L	0.0004	2.209 mg/L	0.0004	0.02%
Li 670.784†	947.1	0.0249 mg/L	0.00028	0.0249 mg/L	0.00028	1.12%
Mg 279.077†	118712.6	4.763 mg/L	0.0941	4.763 mg/L	0.0941	1.97%
Mn 257.610†	3110168.3	3.419 mg/L	0.0024	3.419 mg/L	0.0024	0.07%
Mo 202.031†	61.1	0.0042 mg/L	0.00020	0.0042 mg/L	0.00020	4.86%
Na 589.592	43628.3	5.199 mg/L	0.0197	5.199 mg/L	0.0197	0.38%
Ni 231.604†	1033.6	0.0334 mg/L	0.00019	0.0334 mg/L	0.00019	0.57%
P 214.914†	5206.8	3.736 mg/L	0.0225	3.736 mg/L	0.0225	0.60%
Pb 220.353†	76.2	0.0060 mg/L	0.00140	0.0060 mg/L	0.00140	23.45%
Sb 206.836†	-6.9	-0.0043 mg/L	0.00056	-0.0043 mg/L	0.00056	13.05%
Se 196.026†	-1.1	0.0090 mg/L	0.00115	0.0090 mg/L	0.00115	12.78%
Sn 189.927†	-22.2	-0.0093 mg/L	0.00114	-0.0093 mg/L	0.00114	12.36%
Sr 407.771†	654452.5	0.0294 mg/L	0.00002	0.0294 mg/L	0.00002	0.07%
Ti 337.279†	601975.8	0.7600 mg/L	0.00042	0.7600 mg/L	0.00042	0.05%
Tl 190.801†	-66.5	0.0236 mg/L	0.00724	0.0236 mg/L	0.00724	30.66%
V 292.402†	7439.9	0.0204 mg/L	0.00050	0.0204 mg/L	0.00050	2.45%
Zn 213.857†	6459.8	0.0780 mg/L	0.00200	0.0780 mg/L	0.00200	2.56%

Sequence No.: 53
Sample ID: BF62320-BLK1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 6/23/2006 11:11:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62320-BLK1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	598.5	47.6	0.0300	mg/L	0.0300	mg/L	23:13:16
1	Li 670.784†	102.2	-66.1	-0.0042	mg/L	-0.0042	mg/L	23:13:16
1	Na 589.592	12248.0	13061.2	1.485	mg/L	1.485	mg/L	23:13:16
1	Y 371.029	3306610.8	3306610.8	0.983	mg/L			23:13:30
1	Ag 328.068†	-2012.2	506.5	0.0010	mg/L	0.0010	mg/L	23:13:35
1	Al 237.313†	-16.7	36.1	0.0068	mg/L	0.0068	mg/L	23:13:55
1	As 188.979†	6.7	2.2	0.0059	mg/L	0.0059	mg/L	23:13:55
1	B 182.528†	-0.6	2.1	0.0103	mg/L	0.0103	mg/L	23:13:55
1	Ba 233.527†	-155.7	21.6	-0.0002	mg/L	-0.0002	mg/L	23:13:55
1	Be 313.107†	2320.8	158.8	0.0002	mg/L	0.0002	mg/L	23:13:35
1	Ca 315.886†	6868.9	5168.9	0.0314	mg/L	0.0314	mg/L	23:13:35
1	Cd 228.802†	131.6	18.2	0.0004	mg/L	0.0004	mg/L	23:13:55
1	Co 228.616†	-158.1	16.0	0.0002	mg/L	0.0002	mg/L	23:13:55
1	Cr 267.716†	2084.3	765.0	0.0046	mg/L	0.0046	mg/L	23:13:35
1	Cu 324.752†	3042.1	1171.6	0.0030	mg/L	0.0030	mg/L	23:13:35
1	Fe 234.349†	2409.1	1213.0	0.0193	mg/L	0.0193	mg/L	23:13:35
1	Fe 238.204†	3638.2	2586.2	0.0168	mg/L	0.0168	mg/L	23:13:55
1	Mg 279.077†	563.4	30.5	-0.0101	mg/L	-0.0101	mg/L	23:13:35
1	Mn 257.610†	2689.6	854.4	-0.0016	mg/L	-0.0016	mg/L	23:13:35
1	Mo 202.031†	42.1	5.5	0.0005	mg/L	0.0005	mg/L	23:13:55
1	Ni 231.604†	124.5	97.0	0.0034	mg/L	0.0034	mg/L	23:13:55
1	P 214.914†	1364.7	1344.7	0.9837	mg/L	0.9837	mg/L	23:13:55
1	Pb 220.353†	-155.5	-6.7	-0.0025	mg/L	-0.0025	mg/L	23:13:55
1	Sb 206.836†	5.5	-9.6	-0.0040	mg/L	-0.0040	mg/L	23:13:55
1	Se 196.026†	-7.8	-3.9	0.0055	mg/L	0.0055	mg/L	23:13:55
1	Sn 189.927†	138.4	-49.0	-0.0199	mg/L	-0.0199	mg/L	23:13:55
1	Sr 407.771†	6712.3	524.5	-0.0002	mg/L	-0.0002	mg/L	23:13:30
1	Ti 337.279†	-1888.0	53.4	0.0008	mg/L	0.0008	mg/L	23:13:35
1	Tl 190.801†	1.1	-18.4	0.0061	mg/L	0.0061	mg/L	23:13:55

1	V 292.402†	-1463.8	137.6	0.0013 mg/L	0.0013 mg/L	23:13:35
1	Zn 213.857†	826.0	166.4	0.0026 mg/L	0.0026 mg/L	23:13:55
2	K 766.490†	648.4	94.9	0.0560 mg/L	0.0560 mg/L	23:13:22
2	Li 670.784†	127.2	-41.3	-0.0035 mg/L	-0.0035 mg/L	23:13:22
2	Na 589.592	12259.3	13072.5	1.487 mg/L	1.487 mg/L	23:13:22
2	Y 371.029	3323513.2	3323513.2	0.988 mg/L		23:14:01
2	Ag 328.068†	-1989.4	540.0	0.0011 mg/L	0.0011 mg/L	23:14:06
2	Al 237.313†	-41.3	11.2	0.0040 mg/L	0.0040 mg/L	23:14:27
2	As 188.979†	5.6	0.9	0.0042 mg/L	0.0042 mg/L	23:14:27
2	B 182.528†	-0.4	2.3	0.0108 mg/L	0.0108 mg/L	23:14:27
2	Ba 233.527†	-148.4	29.8	-0.0001 mg/L	-0.0001 mg/L	23:14:27
2	Be 313.107†	2328.0	154.0	0.0002 mg/L	0.0002 mg/L	23:14:06
2	Ca 315.886†	6972.0	5237.7	0.0318 mg/L	0.0318 mg/L	23:14:06
2	Cd 228.802†	118.8	4.6	0.0001 mg/L	0.0001 mg/L	23:14:27
2	Co 228.616†	-172.5	2.2	-0.0002 mg/L	-0.0002 mg/L	23:14:27
2	Cr 267.716†	2080.9	750.8	0.0045 mg/L	0.0045 mg/L	23:14:06
2	Cu 324.752†	3084.5	1198.8	0.0031 mg/L	0.0031 mg/L	23:14:06
2	Fe 234.349†	2468.8	1261.0	0.0202 mg/L	0.0202 mg/L	23:14:06
2	Fe 238.204†	3517.7	2445.3	0.0156 mg/L	0.0156 mg/L	23:14:27
2	Mg 279.077†	668.6	134.0	-0.0060 mg/L	-0.0060 mg/L	23:14:06
2	Mn 257.610†	2588.6	738.2	-0.0017 mg/L	-0.0017 mg/L	23:14:06
2	Mo 202.031†	39.7	2.9	0.0004 mg/L	0.0004 mg/L	23:14:27
2	Ni 231.604†	121.3	93.2	0.0033 mg/L	0.0033 mg/L	23:14:27
2	P 214.914†	1356.6	1329.4	0.9728 mg/L	0.9728 mg/L	23:14:27
2	Pb 220.353†	-150.2	-0.5	-0.0018 mg/L	-0.0018 mg/L	23:14:27
2	Sb 206.836†	5.9	-9.2	-0.0038 mg/L	-0.0038 mg/L	23:14:27
2	Se 196.026†	-4.1	-0.1	0.0102 mg/L	0.0102 mg/L	23:14:27
2	Sn 189.927†	126.7	-61.5	-0.0232 mg/L	-0.0232 mg/L	23:14:27
2	Sr 407.771†	6720.3	497.9	-0.0002 mg/L	-0.0002 mg/L	23:14:01
2	Ti 337.279†	-1908.4	42.5	0.0007 mg/L	0.0007 mg/L	23:14:06
2	Tl 190.801†	5.1	-14.4	0.0095 mg/L	0.0095 mg/L	23:14:27
2	V 292.402†	-1687.2	-81.0	0.0004 mg/L	0.0004 mg/L	23:14:06
2	Zn 213.857†	846.9	183.4	0.0029 mg/L	0.0029 mg/L	23:14:27

Mean Data: BF62320-BLK1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3315062.0	0.985	mg/L	0.0036				0.36%
Ag 328.068†	523.3	0.0010	mg/L	0.00008	0.0010	mg/L	0.00008	8.05%
Al 237.313†	23.7	0.0054	mg/L	0.00199	0.0054	mg/L	0.00199	36.76%
As 188.979†	1.6	0.0051	mg/L	0.00116	0.0051	mg/L	0.00116	22.95%
B 182.528†	2.2	0.0105	mg/L	0.00032	0.0105	mg/L	0.00032	3.02%
Ba 233.527†	25.7	-0.0002	mg/L	0.00005	-0.0002	mg/L	0.00005	30.26%
Be 313.107†	156.4	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	0.43%
Ca 315.886†	5203.3	0.0316	mg/L	0.00033	0.0316	mg/L	0.00033	1.04%
Cd 228.802†	11.4	0.0002	mg/L	0.00023	0.0002	mg/L	0.00023	105.47%
Co 228.616†	9.1	0.0000	mg/L	0.00026	0.0000	mg/L	0.00026	>999.9%
Cr 267.716†	757.9	0.0046	mg/L	0.00007	0.0046	mg/L	0.00007	1.42%
Cu 324.752†	1185.2	0.0031	mg/L	0.00007	0.0031	mg/L	0.00007	2.39%
Fe 234.349†	1237.0	0.0198	mg/L	0.00065	0.0198	mg/L	0.00065	3.29%
Fe 238.204†	2515.7	0.0162	mg/L	0.00085	0.0162	mg/L	0.00085	5.27%
K 766.490†	71.2	0.0430	mg/L	0.01835	0.0430	mg/L	0.01835	42.68%
Li 670.784†	-53.7	-0.0039	mg/L	0.00050	-0.0039	mg/L	0.00050	13.07%
Mg 279.077†	82.3	-0.0081	mg/L	0.00294	-0.0081	mg/L	0.00294	36.44%
Mn 257.610†	796.3	-0.0016	mg/L	0.00009	-0.0016	mg/L	0.00009	5.50%
Mo 202.031†	4.2	0.0004	mg/L	0.00012	0.0004	mg/L	0.00012	27.41%
Na 589.592	13066.9	1.486	mg/L	0.0010	1.486	mg/L	0.0010	0.06%
Ni 231.604†	95.1	0.0033	mg/L	0.00009	0.0033	mg/L	0.00009	2.59%
P 214.914†	1337.1	0.9783	mg/L	0.00771	0.9783	mg/L	0.00771	0.79%
Pb 220.353†	-3.6	-0.0021	mg/L	0.00049	-0.0021	mg/L	0.00049	23.20%
Sb 206.836†	-9.4	-0.0039	mg/L	0.00010	-0.0039	mg/L	0.00010	2.61%
Se 196.026†	-2.0	0.0079	mg/L	0.00333	0.0079	mg/L	0.00333	42.22%
Sn 189.927†	-55.3	-0.0216	mg/L	0.00236	-0.0216	mg/L	0.00236	10.94%
Sr 407.771†	511.2	-0.0002	mg/L	0.00000	-0.0002	mg/L	0.00000	0.40%
Ti 337.279†	47.9	0.0008	mg/L	0.00001	0.0008	mg/L	0.00001	1.30%
Tl 190.801†	-16.4	0.0078	mg/L	0.00234	0.0078	mg/L	0.00234	30.09%
V 292.402†	28.3	0.0008	mg/L	0.00062	0.0008	mg/L	0.00062	73.10%
Zn 213.857†	174.9	0.0028	mg/L	0.00015	0.0028	mg/L	0.00015	5.59%

Sequence No.: 54 Autosampler Location: 42

Sample ID: BF62320-BS1
Analyst:
Initial Sample Wt:
Dilution:

Date Collected: 6/23/2006 11:16:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62320-BS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	44094.3	45592.0	25.00	mg/L	25.00	mg/L	23:17:38
1	Li 670.784†	16775.4	17388.8	0.4972	mg/L	0.4972	mg/L	23:17:38
1	Na 589.592	195061.8	195875.0	23.70	mg/L	23.70	mg/L	23:17:38
1	Y 371.029	3214111.1	3214111.1	0.955	mg/L			23:17:53
1	Ag 328.068†	64302.1	69858.7	0.2429	mg/L	0.2429	mg/L	23:17:58
1	Al 237.313†	20420.3	21427.0	2.416	mg/L	2.416	mg/L	23:17:58
1	As 188.979†	347.9	359.5	0.4940	mg/L	0.4940	mg/L	23:18:18
1	B 182.528†	197.9	209.8	0.4771	mg/L	0.4771	mg/L	23:18:18
1	Ba 233.527†	55987.4	58781.9	0.4897	mg/L	0.4897	mg/L	23:17:58
1	Be 313.107†	221554.5	229698.3	0.0473	mg/L	0.0473	mg/L	23:17:53
1	Ca 315.886†	690499.3	720925.0	4.945	mg/L	4.945	mg/L	23:17:53
1	Cd 228.802†	9399.4	9722.6	0.2396	mg/L	0.2396	mg/L	23:18:18
1	Co 228.616†	17485.6	18479.0	0.4826	mg/L	0.4826	mg/L	23:17:58
1	Cr 267.716†	75305.1	77466.2	0.5021	mg/L	0.5021	mg/L	23:17:58
1	Cu 324.752†	129851.7	133992.2	0.5079	mg/L	0.5079	mg/L	23:17:58
1	Fe 234.349†	127180.1	131881.2	2.512	mg/L	2.512	mg/L	23:17:58
1	Fe 238.204†	282408.3	294481.0	2.514	mg/L	2.514	mg/L	23:17:58
1	Mg 279.077†	115224.6	120062.7	4.814	mg/L	4.814	mg/L	23:17:58
1	Mn 257.610†	431257.9	449515.0	0.4921	mg/L	0.4921	mg/L	23:17:53
1	Mo 202.031†	7174.3	7472.1	0.4919	mg/L	0.4919	mg/L	23:18:18
1	Ni 231.604†	15313.4	15998.9	0.5127	mg/L	0.5127	mg/L	23:17:58
1	P 214.914†	6173.6	6418.1	4.599	mg/L	4.599	mg/L	23:18:18
1	Pb 220.353†	3886.5	4219.6	0.4762	mg/L	0.4762	mg/L	23:18:18
1	Sb 206.836†	916.8	944.4	0.4444	mg/L	0.4444	mg/L	23:18:18
1	Se 196.026†	694.9	731.4	0.9271	mg/L	0.9271	mg/L	23:18:18
1	Sn 189.927†	1956.6	1858.2	0.4860	mg/L	0.4860	mg/L	23:18:18
1	Sr 407.771†	1058385.4	1101506.0	0.0496	mg/L	0.0496	mg/L	23:17:53
1	Ti 337.279†	301508.5	317562.8	0.4013	mg/L	0.4013	mg/L	23:17:58
1	Tl 190.801†	572.0	579.2	0.4986	mg/L	0.4986	mg/L	23:18:18
1	V 292.402†	118156.1	125300.7	0.5057	mg/L	0.5057	mg/L	23:17:58
1	Zn 213.857†	36389.4	37414.8	0.4820	mg/L	0.4820	mg/L	23:17:58
2	K 766.490†	43416.8	44795.1	24.56	mg/L	24.56	mg/L	23:17:43
2	Li 670.784†	16595.8	17167.2	0.4909	mg/L	0.4909	mg/L	23:17:43
2	Na 589.592	193135.2	193948.4	23.46	mg/L	23.46	mg/L	23:17:43
2	Y 371.029	3220328.0	3220328.0	0.957	mg/L			23:18:25
2	Ag 328.068†	64491.7	69926.8	0.2431	mg/L	0.2431	mg/L	23:18:31
2	Al 237.313†	20461.4	21428.6	2.416	mg/L	2.416	mg/L	23:18:31
2	As 188.979†	342.8	353.4	0.4857	mg/L	0.4857	mg/L	23:18:51
2	B 182.528†	199.2	210.8	0.4793	mg/L	0.4793	mg/L	23:18:51
2	Ba 233.527†	55884.5	58561.3	0.4879	mg/L	0.4879	mg/L	23:18:31
2	Be 313.107†	222112.6	229833.7	0.0474	mg/L	0.0474	mg/L	23:18:25
2	Ca 315.886†	692799.1	721932.3	4.951	mg/L	4.951	mg/L	23:18:25
2	Cd 228.802†	9410.2	9715.0	0.2394	mg/L	0.2394	mg/L	23:18:51
2	Co 228.616†	17480.4	18438.3	0.4816	mg/L	0.4816	mg/L	23:18:31
2	Cr 267.716†	75404.7	77418.1	0.5018	mg/L	0.5018	mg/L	23:18:31
2	Cu 324.752†	130865.1	134788.5	0.5109	mg/L	0.5109	mg/L	23:18:31
2	Fe 234.349†	126749.4	131174.2	2.498	mg/L	2.498	mg/L	23:18:31
2	Fe 238.204†	282261.5	293757.0	2.508	mg/L	2.508	mg/L	23:18:31
2	Mg 279.077†	115209.8	119814.4	4.804	mg/L	4.804	mg/L	23:18:31
2	Mn 257.610†	432809.0	450264.0	0.4929	mg/L	0.4929	mg/L	23:18:25
2	Mo 202.031†	7161.8	7444.5	0.4901	mg/L	0.4901	mg/L	23:18:51
2	Ni 231.604†	15267.0	15919.5	0.5102	mg/L	0.5102	mg/L	23:18:31
2	P 214.914†	6150.5	6381.6	4.573	mg/L	4.573	mg/L	23:18:51
2	Pb 220.353†	3862.7	4186.8	0.4725	mg/L	0.4725	mg/L	23:18:51
2	Sb 206.836†	919.8	945.7	0.4450	mg/L	0.4450	mg/L	23:18:51
2	Se 196.026†	700.3	735.7	0.9325	mg/L	0.9325	mg/L	23:18:51
2	Sn 189.927†	1954.2	1851.7	0.4842	mg/L	0.4842	mg/L	23:18:51
2	Sr 407.771†	1062783.9	1103962.4	0.0497	mg/L	0.0497	mg/L	23:18:25
2	Ti 337.279†	301679.0	317131.6	0.4007	mg/L	0.4007	mg/L	23:18:31
2	Tl 190.801†	583.8	590.4	0.5078	mg/L	0.5078	mg/L	23:18:51
2	V 292.402†	118403.8	125320.7	0.5057	mg/L	0.5057	mg/L	23:18:31
2	Zn 213.857†	36180.8	37123.4	0.4783	mg/L	0.4783	mg/L	23:18:31

Mean Data: BF62320-BS1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3217219.6	0.956	mg/L	0.0013				0.14%
Ag 328.068†	69892.8	0.2430	mg/L	0.00017	0.2430	mg/L	0.00017	0.07%
Al 237.313†	21427.8	2.416	mg/L	0.0002	2.416	mg/L	0.0002	0.01%
As 188.979†	356.4	0.4899	mg/L	0.00593	0.4899	mg/L	0.00593	1.21%
B 182.528†	210.3	0.4782	mg/L	0.00156	0.4782	mg/L	0.00156	0.33%
Ba 233.527†	58671.6	0.4888	mg/L	0.00130	0.4888	mg/L	0.00130	0.27%
Be 313.107†	229766.0	0.0473	mg/L	0.00002	0.0473	mg/L	0.00002	0.04%
Ca 315.886†	721428.7	4.948	mg/L	0.0049	4.948	mg/L	0.0049	0.10%
Cd 228.802†	9718.8	0.2395	mg/L	0.00010	0.2395	mg/L	0.00010	0.04%
Co 228.616†	18458.6	0.4821	mg/L	0.00075	0.4821	mg/L	0.00075	0.16%
Cr 267.716†	77442.1	0.5020	mg/L	0.00022	0.5020	mg/L	0.00022	0.04%
Cu 324.752†	134390.3	0.5094	mg/L	0.00214	0.5094	mg/L	0.00214	0.42%
Fe 234.349†	131527.7	2.505	mg/L	0.0095	2.505	mg/L	0.0095	0.38%
Fe 238.204†	294119.0	2.511	mg/L	0.0044	2.511	mg/L	0.0044	0.17%
K 766.490†	45193.6	24.78	mg/L	0.309	24.78	mg/L	0.309	1.25%
Li 670.784†	17278.0	0.4941	mg/L	0.00450	0.4941	mg/L	0.00450	0.91%
Mg 279.077†	119938.6	4.809	mg/L	0.0070	4.809	mg/L	0.0070	0.15%
Mn 257.610†	449889.5	0.4925	mg/L	0.00058	0.4925	mg/L	0.00058	0.12%
Mo 202.031†	7458.3	0.4910	mg/L	0.00128	0.4910	mg/L	0.00128	0.26%
Na 589.592	194911.7	23.58	mg/L	0.166	23.58	mg/L	0.166	0.70%
Ni 231.604†	15959.2	0.5115	mg/L	0.00180	0.5115	mg/L	0.00180	0.35%
P 214.914†	6399.8	4.586	mg/L	0.0184	4.586	mg/L	0.0184	0.40%
Pb 220.353†	4203.2	0.4743	mg/L	0.00262	0.4743	mg/L	0.00262	0.55%
Sb 206.836†	945.0	0.4447	mg/L	0.00045	0.4447	mg/L	0.00045	0.10%
Se 196.026†	733.6	0.9298	mg/L	0.00377	0.9298	mg/L	0.00377	0.41%
Sn 189.927†	1854.9	0.4851	mg/L	0.00122	0.4851	mg/L	0.00122	0.25%
Sr 407.771†	1102734.2	0.0496	mg/L	0.00008	0.0496	mg/L	0.00008	0.16%
Ti 337.279†	317347.2	0.4010	mg/L	0.00038	0.4010	mg/L	0.00038	0.10%
Tl 190.801†	584.8	0.5032	mg/L	0.00649	0.5032	mg/L	0.00649	1.29%
V 292.402†	125310.7	0.5057	mg/L	0.00004	0.5057	mg/L	0.00004	0.01%
Zn 213.857†	37269.1	0.4801	mg/L	0.00265	0.4801	mg/L	0.00265	0.55%

Sequence No.: 55
Sample ID: BF62320-BSD1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 6/23/2006 11:20:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62320-BSD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	42665.1	44079.7	24.17	mg/L	24.17	mg/L	23:22:04
1	Li 670.784†	16405.2	16995.0	0.4859	mg/L	0.4859	mg/L	23:22:04
1	Na 589.592	191251.8	192065.0	23.23	mg/L	23.23	mg/L	23:22:04
1	Y 371.029	3215289.0	3215289.0	0.956	mg/L			23:22:18
1	Ag 328.068†	63330.4	68817.4	0.2392	mg/L	0.2392	mg/L	23:22:24
1	Al 237.313†	20070.9	21053.6	2.374	mg/L	2.374	mg/L	23:22:24
1	As 188.979†	335.0	345.9	0.4754	mg/L	0.4754	mg/L	23:22:44
1	B 182.528†	198.0	209.9	0.4772	mg/L	0.4772	mg/L	23:22:44
1	Ba 233.527†	54929.0	57653.0	0.4803	mg/L	0.4803	mg/L	23:22:24
1	Be 313.107†	221645.7	229708.9	0.0473	mg/L	0.0473	mg/L	23:22:24
1	Ca 315.886†	687989.7	718034.5	4.925	mg/L	4.925	mg/L	23:22:18
1	Cd 228.802†	9334.9	9651.5	0.2379	mg/L	0.2379	mg/L	23:22:44
1	Co 228.616†	17218.5	18192.8	0.4751	mg/L	0.4751	mg/L	23:22:24
1	Cr 267.716†	73859.8	75925.0	0.4921	mg/L	0.4921	mg/L	23:22:24
1	Cu 324.752†	127288.6	131260.6	0.4975	mg/L	0.4975	mg/L	23:22:24
1	Fe 234.349†	124584.6	129116.7	2.459	mg/L	2.459	mg/L	23:22:24
1	Fe 238.204†	277163.3	288884.8	2.467	mg/L	2.467	mg/L	23:22:24
1	Mg 279.077†	113413.0	118123.0	4.736	mg/L	4.736	mg/L	23:22:24
1	Mn 257.610†	429985.6	448018.4	0.4904	mg/L	0.4904	mg/L	23:22:18
1	Mo 202.031†	7163.0	7457.4	0.4909	mg/L	0.4909	mg/L	23:22:44
1	Ni 231.604†	14776.7	15431.5	0.4946	mg/L	0.4946	mg/L	23:22:24
1	P 214.914†	6127.8	6367.9	4.564	mg/L	4.564	mg/L	23:22:44
1	Pb 220.353†	3879.2	4210.4	0.4751	mg/L	0.4751	mg/L	23:22:44
1	Sb 206.836†	920.0	947.4	0.4460	mg/L	0.4460	mg/L	23:22:44
1	Se 196.026†	684.9	720.6	0.9136	mg/L	0.9136	mg/L	23:22:44

1	Sn 189.927†	1952.4	1853.1	0.4846 mg/L	0.4846 mg/L	23:22:44
1	Sr 407.771†	1051769.2	1094177.5	0.0492 mg/L	0.0492 mg/L	23:22:18
1	Ti 337.279†	295553.5	311216.4	0.3933 mg/L	0.3933 mg/L	23:22:24
1	Tl 190.801†	581.9	589.3	0.5070 mg/L	0.5070 mg/L	23:22:44
1	V 292.402†	115648.7	122631.8	0.4951 mg/L	0.4951 mg/L	23:22:24
1	Zn 213.857†	35510.8	36481.6	0.4700 mg/L	0.4700 mg/L	23:22:24
2	K 766.490†	42384.4	43132.5	23.65 mg/L	23.65 mg/L	23:22:09
2	Li 670.784†	16314.3	16648.3	0.4760 mg/L	0.4760 mg/L	23:22:09
2	Na 589.592	192371.3	193184.5	23.37 mg/L	23.37 mg/L	23:22:09
2	Y 371.029	3263381.3	3263381.3	0.970 mg/L		23:22:50
2	Ag 328.068†	64387.5	68930.7	0.2396 mg/L	0.2396 mg/L	23:22:56
2	Al 237.313†	20348.7	21030.5	2.371 mg/L	2.371 mg/L	23:22:56
2	As 188.979†	329.4	334.8	0.4603 mg/L	0.4603 mg/L	23:23:16
2	B 182.528†	192.5	201.1	0.4576 mg/L	0.4576 mg/L	23:23:16
2	Ba 233.527†	55891.1	57797.8	0.4815 mg/L	0.4815 mg/L	23:22:56
2	Be 313.107†	225416.6	230178.6	0.0474 mg/L	0.0474 mg/L	23:22:56
2	Ca 315.886†	701633.4	721491.2	4.948 mg/L	4.948 mg/L	23:22:50
2	Cd 228.802†	9301.0	9472.7	0.2336 mg/L	0.2336 mg/L	23:23:16
2	Co 228.616†	17437.5	18153.1	0.4741 mg/L	0.4741 mg/L	23:22:56
2	Cr 267.716†	75292.8	76263.5	0.4943 mg/L	0.4943 mg/L	23:22:56
2	Cu 324.752†	129432.4	131507.9	0.4985 mg/L	0.4985 mg/L	23:22:56
2	Fe 234.349†	126489.0	129159.0	2.460 mg/L	2.460 mg/L	23:22:56
2	Fe 238.204†	281657.3	289243.9	2.470 mg/L	2.470 mg/L	23:22:56
2	Mg 279.077†	115602.6	118631.6	4.756 mg/L	4.756 mg/L	23:22:56
2	Mn 257.610†	437942.3	449590.8	0.4922 mg/L	0.4922 mg/L	23:22:50
2	Mo 202.031†	7166.8	7350.9	0.4839 mg/L	0.4839 mg/L	23:23:16
2	Ni 231.604†	14986.5	15419.9	0.4942 mg/L	0.4942 mg/L	23:22:56
2	P 214.914†	6091.8	6236.3	4.470 mg/L	4.470 mg/L	23:23:16
2	Pb 220.353†	3870.4	4141.5	0.4673 mg/L	0.4673 mg/L	23:23:16
2	Sb 206.836†	923.6	936.9	0.4409 mg/L	0.4409 mg/L	23:23:16
2	Se 196.026†	684.5	709.7	0.8999 mg/L	0.8999 mg/L	23:23:16
2	Sn 189.927†	1948.1	1818.5	0.4754 mg/L	0.4754 mg/L	23:23:16
2	Sr 407.771†	1068072.6	1094766.9	0.0493 mg/L	0.0493 mg/L	23:22:50
2	Ti 337.279†	300484.6	311742.6	0.3939 mg/L	0.3939 mg/L	23:22:56
2	Tl 190.801†	575.2	573.4	0.4940 mg/L	0.4940 mg/L	23:23:16
2	V 292.402†	117689.7	122952.7	0.4962 mg/L	0.4962 mg/L	23:22:56
2	Zn 213.857†	36017.0	36455.8	0.4697 mg/L	0.4697 mg/L	23:22:56

Mean Data: BF62320-BSD1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3239335.1	0.963	mg/L	0.0101				1.05%
Ag 328.068†	68874.0	0.2394	mg/L	0.00028	0.2394	mg/L	0.00028	0.12%
Al 237.313†	21042.0	2.373	mg/L	0.0019	2.373	mg/L	0.0019	0.08%
As 188.979†	340.3	0.4679	mg/L	0.01068	0.4679	mg/L	0.01068	2.28%
B 182.528†	205.5	0.4674	mg/L	0.01389	0.4674	mg/L	0.01389	2.97%
Ba 233.527†	57725.4	0.4809	mg/L	0.00085	0.4809	mg/L	0.00085	0.18%
Be 313.107†	229943.7	0.0474	mg/L	0.00007	0.0474	mg/L	0.00007	0.14%
Ca 315.886†	719762.9	4.936	mg/L	0.0168	4.936	mg/L	0.0168	0.34%
Cd 228.802†	9562.1	0.2357	mg/L	0.00306	0.2357	mg/L	0.00306	1.30%
Co 228.616†	18173.0	0.4746	mg/L	0.00074	0.4746	mg/L	0.00074	0.16%
Cr 267.716†	76094.2	0.4932	mg/L	0.00155	0.4932	mg/L	0.00155	0.31%
Cu 324.752†	131384.2	0.4980	mg/L	0.00067	0.4980	mg/L	0.00067	0.13%
Fe 234.349†	129137.8	2.459	mg/L	0.0006	2.459	mg/L	0.0006	0.02%
Fe 238.204†	289064.4	2.468	mg/L	0.0022	2.468	mg/L	0.0022	0.09%
K 766.490†	43606.1	23.91	mg/L	0.367	23.91	mg/L	0.367	1.54%
Li 670.784†	16821.7	0.4810	mg/L	0.00704	0.4810	mg/L	0.00704	1.46%
Mg 279.077†	118377.3	4.746	mg/L	0.0145	4.746	mg/L	0.0145	0.30%
Mn 257.610†	448804.6	0.4913	mg/L	0.00122	0.4913	mg/L	0.00122	0.25%
Mo 202.031†	7404.2	0.4874	mg/L	0.00496	0.4874	mg/L	0.00496	1.02%
Na 589.592	192624.7	23.30	mg/L	0.096	23.30	mg/L	0.096	0.41%
Ni 231.604†	15425.7	0.4944	mg/L	0.00027	0.4944	mg/L	0.00027	0.05%
P 214.914†	6302.1	4.517	mg/L	0.0663	4.517	mg/L	0.0663	1.47%
Pb 220.353†	4175.9	0.4712	mg/L	0.00551	0.4712	mg/L	0.00551	1.17%
Sb 206.836†	942.2	0.4435	mg/L	0.00357	0.4435	mg/L	0.00357	0.81%
Se 196.026†	715.1	0.9067	mg/L	0.00972	0.9067	mg/L	0.00972	1.07%
Sn 189.927†	1835.8	0.4800	mg/L	0.00647	0.4800	mg/L	0.00647	1.35%
Sr 407.771†	1094472.2	0.0492	mg/L	0.00002	0.0492	mg/L	0.00002	0.04%
Ti 337.279†	311479.5	0.3936	mg/L	0.00047	0.3936	mg/L	0.00047	0.12%
Tl 190.801†	581.4	0.5005	mg/L	0.00917	0.5005	mg/L	0.00917	1.83%
V 292.402†	122792.3	0.4957	mg/L	0.00082	0.4957	mg/L	0.00082	0.16%

Zn 213.857†	36468.7	0.4699 mg/L	0.00023	0.4699 mg/L	0.00023	0.05%

Duplicate Check: BF62320-BSD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	24.78	23.91	0.367	mg/L	3.6
Li 670.784	0.4941	0.4810	0.007	mg/L	2.7
Na 589.592	23.58	23.30	0.096	mg/L	1.2
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.2430	0.2394	0.000	mg/L	1.5
Al 237.313	2.416	2.373	0.002	mg/L	1.8
As 188.979	0.4899	0.4679	0.011	mg/L	4.6
B 182.528	0.4782	0.4674	0.014	mg/L	2.3
Ba 233.527	0.4888	0.4809	0.001	mg/L	1.6
Be 313.107	0.0473	0.0474	0.000	mg/L	0.1
Ca 315.886	4.948	4.936	0.017	mg/L	0.2
Cd 228.802	0.2395	0.2357	0.003	mg/L	1.6
Co 228.616	0.4821	0.4746	0.001	mg/L	1.6
Cr 267.716	0.5020	0.4932	0.002	mg/L	1.8
Cu 324.752	0.5094	0.4980	0.001	mg/L	2.3
Fe 234.349	2.505	2.459	0.001	mg/L	1.8
Fe 238.204	2.511	2.468	0.002	mg/L	1.7
Mg 279.077	4.809	4.746	0.014	mg/L	1.3
Mn 257.610	0.4925	0.4913	0.001	mg/L	0.2
Mo 202.031	0.4910	0.4874	0.005	mg/L	0.7
Ni 231.604	0.5115	0.4944	0.000	mg/L	3.4
P 214.914	4.586	4.517	0.066	mg/L	1.5
Pb 220.353	0.4743	0.4712	0.006	mg/L	0.7
Sb 206.836	0.4447	0.4435	0.004	mg/L	0.3
Se 196.026	0.9298	0.9067	0.010	mg/L	2.5
Sn 189.927	0.4851	0.4800	0.006	mg/L	1.1
Sr 407.771	0.0496	0.0492	0.000	mg/L	0.8
Ti 337.279	0.4010	0.3936	0.000	mg/L	1.9
Tl 190.801	0.5032	0.5005	0.009	mg/L	0.5
V 292.402	0.5057	0.4957	0.001	mg/L	2.0
Zn 213.857	0.4801	0.4699	0.000	mg/L	2.2

Sequence No.: 56
Sample ID: BF62320-SRM1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 6/23/2006 11:24:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62320-SRM1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	36462.1	35314.9	19.37	mg/L	19.37	mg/L	23:26:27
1	Li 670.784†	1924.0	1723.0	0.0472	mg/L	0.0472	mg/L	23:26:27
1	Na 589.592	89868.4	90681.6	10.92	mg/L	10.92	mg/L	23:26:27
1	Y 371.029	3419137.6	3419137.6	1.02	mg/L			23:26:53
1	Ag 328.068†	244202.5	242833.0	0.8483	mg/L	0.8483	mg/L	23:26:59
1	Al 237.313†	406885.8	400401.8	44.90	mg/L	44.90	mg/L	23:26:59
1	As 188.979†	988.3	967.7	1.325	mg/L	1.325	mg/L	23:27:19
1	B 182.528†	401.8	398.0	0.9001	mg/L	0.9001	mg/L	23:27:19
1	Ba 233.527†	380901.0	374961.4	3.126	mg/L	3.126	mg/L	23:26:53
1	Be 313.107†	2726261.3	2680258.9	0.5538	mg/L	0.5538	mg/L	23:26:47
1	Ca 315.886†	5099970.1	5016214.7	34.42	mg/L	34.42	mg/L	23:26:47
1	Cd 228.802†	32799.6	32157.0	0.7890	mg/L	0.7890	mg/L	23:26:59
1	Co 228.616†	19349.7	19215.6	0.4992	mg/L	0.4992	mg/L	23:26:59
1	Cr 267.716†	244883.4	239593.5	1.558	mg/L	1.558	mg/L	23:26:59
1	Cu 324.752†	167322.6	162711.0	0.6327	mg/L	0.6327	mg/L	23:26:59
1	Fe 234.349†	4448606.4	4375897.3	83.64	mg/L	83.64	mg/L	23:26:47
1	Fe 238.204†	9551350.0	9396783.3	80.38	mg/L	80.38	mg/L	23:26:47
1	Mg 279.077†	438092.6	430511.5	17.26	mg/L	17.26	mg/L	23:26:53
1	Mn 257.610†	1644266.3	1615967.6	1.775	mg/L	1.775	mg/L	23:26:53
1	Mo 202.031†	3798.0	3699.7	0.2436	mg/L	0.2436	mg/L	23:27:19
1	Ni 231.604†	24021.8	23606.3	0.7560	mg/L	0.7560	mg/L	23:26:59
1	P 214.914†	12668.4	12421.1	8.877	mg/L	8.877	mg/L	23:27:19
1	Pb 220.353†	5049.5	5119.9	0.5823	mg/L	0.5823	mg/L	23:27:19

1	Sb 206.836†	1572.0	1531.5	0.7082 mg/L	0.7082 mg/L	23:27:19
1	Se 196.026†	515.2	511.0	0.6509 mg/L	0.6509 mg/L	23:27:19
1	Sn 189.927†	3519.1	3272.7	0.8653 mg/L	0.8653 mg/L	23:27:19
1	Sr 407.771†	6393924.5	6284895.5	0.2839 mg/L	0.2839 mg/L	23:26:47
1	Ti 337.279†	1330407.2	1311007.2	1.654 mg/L	1.654 mg/L	23:26:53
1	Tl 190.801†	936.5	902.0	0.7798 mg/L	0.7798 mg/L	23:27:19
1	V 292.402†	315887.2	312439.1	1.232 mg/L	1.232 mg/L	23:26:59
1	Zn 213.857†	271978.3	266934.8	3.445 mg/L	3.445 mg/L	23:26:59
2	K 766.490†	36760.5	35927.2	19.70 mg/L	19.70 mg/L	23:26:33
2	Li 670.784†	1948.3	1763.8	0.0484 mg/L	0.0484 mg/L	23:26:33
2	Na 589.592	90551.7	91364.9	11.00 mg/L	11.00 mg/L	23:26:33
2	Y 371.029	3389277.2	3389277.2	1.01 mg/L		23:27:36
2	Ag 328.068†	243243.7	243998.2	0.8524 mg/L	0.8524 mg/L	23:27:42
2	Al 237.313†	405836.3	402887.3	45.18 mg/L	45.18 mg/L	23:27:42
2	As 188.979†	979.8	967.8	1.325 mg/L	1.325 mg/L	23:28:02
2	B 182.528†	399.4	399.2	0.9027 mg/L	0.9027 mg/L	23:28:02
2	Ba 233.527†	378337.8	375719.1	3.132 mg/L	3.132 mg/L	23:27:36
2	Be 313.107†	2711141.7	2688884.3	0.5556 mg/L	0.5556 mg/L	23:27:30
2	Ca 315.886†	5057392.1	5018161.9	34.43 mg/L	34.43 mg/L	23:27:30
2	Cd 228.802†	32747.9	32390.0	0.7948 mg/L	0.7948 mg/L	23:27:42
2	Co 228.616†	19240.2	19274.7	0.5007 mg/L	0.5007 mg/L	23:27:42
2	Cr 267.716†	245088.1	241919.6	1.574 mg/L	1.574 mg/L	23:27:42
2	Cu 324.752†	167069.1	163909.8	0.6373 mg/L	0.6373 mg/L	23:27:42
2	Fe 234.349†	4431643.6	4397623.7	84.05 mg/L	84.05 mg/L	23:27:30
2	Fe 238.204†	9503441.9	9432027.5	80.68 mg/L	80.68 mg/L	23:27:30
2	Mg 279.077†	435095.6	431334.4	17.29 mg/L	17.29 mg/L	23:27:36
2	Mn 257.610†	1634651.7	1620677.7	1.781 mg/L	1.781 mg/L	23:27:36
2	Mo 202.031†	3742.4	3677.4	0.2422 mg/L	0.2422 mg/L	23:28:02
2	Ni 231.604†	24163.8	23955.4	0.7672 mg/L	0.7672 mg/L	23:27:42
2	P 214.914†	12551.2	12414.6	8.873 mg/L	8.873 mg/L	23:28:02
2	Pb 220.353†	5004.2	5118.7	0.5822 mg/L	0.5822 mg/L	23:28:02
2	Sb 206.836†	1567.5	1540.7	0.7124 mg/L	0.7124 mg/L	23:28:02
2	Se 196.026†	507.0	507.3	0.6462 mg/L	0.6462 mg/L	23:28:02
2	Sn 189.927†	3482.2	3266.6	0.8637 mg/L	0.8637 mg/L	23:28:02
2	Sr 407.771†	6370200.9	6316774.4	0.2854 mg/L	0.2854 mg/L	23:27:30
2	Ti 337.279†	1319023.0	1311240.2	1.655 mg/L	1.655 mg/L	23:27:36
2	Tl 190.801†	929.0	902.7	0.7804 mg/L	0.7804 mg/L	23:28:02
2	V 292.402†	316479.6	315765.4	1.245 mg/L	1.245 mg/L	23:27:42
2	Zn 213.857†	271354.9	268673.7	3.467 mg/L	3.467 mg/L	23:27:42

Mean Data: BF62320-SRM1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3404207.4	1.01	mg/L	0.006				0.62%
Ag 328.068†	243415.6	0.8504	mg/L	0.00288	0.8504	mg/L	0.00288	0.34%
Al 237.313†	401644.6	45.04	mg/L	0.197	45.04	mg/L	0.197	0.44%
As 188.979†	967.8	1.325	mg/L	0.0001	1.325	mg/L	0.0001	0.01%
B 182.528†	398.6	0.9014	mg/L	0.00183	0.9014	mg/L	0.00183	0.20%
Ba 233.527†	375340.2	3.129	mg/L	0.0045	3.129	mg/L	0.0045	0.14%
Be 313.107†	2684571.6	0.5547	mg/L	0.00127	0.5547	mg/L	0.00127	0.23%
Ca 315.886†	5017188.3	34.42	mg/L	0.010	34.42	mg/L	0.010	0.03%
Cd 228.802†	32273.5	0.7919	mg/L	0.00407	0.7919	mg/L	0.00407	0.51%
Co 228.616†	19245.2	0.5000	mg/L	0.00109	0.5000	mg/L	0.00109	0.22%
Cr 267.716†	240756.5	1.566	mg/L	0.0107	1.566	mg/L	0.0107	0.68%
Cu 324.752†	163310.4	0.6350	mg/L	0.00327	0.6350	mg/L	0.00327	0.52%
Fe 234.349†	4386760.5	83.84	mg/L	0.294	83.84	mg/L	0.294	0.35%
Fe 238.204†	9414405.4	80.53	mg/L	0.213	80.53	mg/L	0.213	0.26%
K 766.490†	35621.1	19.53	mg/L	0.237	19.53	mg/L	0.237	1.22%
Li 670.784†	1743.4	0.0478	mg/L	0.00083	0.0478	mg/L	0.00083	1.73%
Mg 279.077†	430923.0	17.28	mg/L	0.023	17.28	mg/L	0.023	0.13%
Mn 257.610†	1618322.6	1.778	mg/L	0.0037	1.778	mg/L	0.0037	0.21%
Mo 202.031†	3688.5	0.2429	mg/L	0.00104	0.2429	mg/L	0.00104	0.43%
Na 589.592	91023.3	10.96	mg/L	0.059	10.96	mg/L	0.059	0.54%
Ni 231.604†	23780.9	0.7616	mg/L	0.00790	0.7616	mg/L	0.00790	1.04%
P 214.914†	12417.8	8.875	mg/L	0.0033	8.875	mg/L	0.0033	0.04%
Pb 220.353†	5119.3	0.5822	mg/L	0.00007	0.5822	mg/L	0.00007	0.01%
Sb 206.836†	1536.1	0.7103	mg/L	0.00296	0.7103	mg/L	0.00296	0.42%
Se 196.026†	509.1	0.6485	mg/L	0.00330	0.6485	mg/L	0.00330	0.51%
Sn 189.927†	3269.7	0.8645	mg/L	0.00113	0.8645	mg/L	0.00113	0.13%
Sr 407.771†	6300834.9	0.2846	mg/L	0.00102	0.2846	mg/L	0.00102	0.36%
Ti 337.279†	1311123.7	1.655	mg/L	0.0002	1.655	mg/L	0.0002	0.01%

Tl 190.801†	902.3	0.7801 mg/L	0.00042	0.7801 mg/L	0.00042	0.05%
V 292.402†	314102.2	1.239 mg/L	0.0093	1.239 mg/L	0.0093	0.75%
Zn 213.857†	267804.3	3.456 mg/L	0.0158	3.456 mg/L	0.0158	0.46%

Sequence No.: 57
Sample ID: 0606374-01
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 45
Date Collected: 6/23/2006 11:29:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606374-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	K 766.490†	6239.4	5766.7	3.166	mg/L	3.166	mg/L	23:31:13
1	Li 670.784†	1550.0	1402.1	0.0380	mg/L	0.0380	mg/L	23:31:13
1	Na 589.592	45641.8	46455.0	5.543	mg/L	5.543	mg/L	23:31:13
1	Y 371.029	3317014.6	3317014.6	0.986	mg/L			23:31:30
1	Ag 328.068†	-1364.9	1169.5	0.0061	mg/L	0.0061	mg/L	23:31:35
1	Al 237.313†	195697.2	198534.4	22.13	mg/L	22.13	mg/L	23:31:35
1	As 188.979†	122.2	119.2	0.1649	mg/L	0.1649	mg/L	23:31:55
1	B 182.528†	2.5	5.3	0.0175	mg/L	0.0175	mg/L	23:31:55
1	Ba 233.527†	19934.4	20397.9	0.1697	mg/L	0.1697	mg/L	23:31:35
1	Be 313.107†	8637.3	6557.7	0.0006	mg/L	0.0006	mg/L	23:31:35
1	Ca 315.886†	512986.0	518464.6	3.553	mg/L	3.553	mg/L	23:31:30
1	Cd 228.802†	251.0	138.9	0.0053	mg/L	0.0053	mg/L	23:31:55
1	Co 228.616†	16852.8	17269.4	0.4493	mg/L	0.4493	mg/L	23:31:35
1	Cr 267.716†	11377.7	10184.0	0.0688	mg/L	0.0688	mg/L	23:31:35
1	Cu 324.752†	19205.3	17555.0	0.0791	mg/L	0.0791	mg/L	23:31:35
1	Fe 234.349†	3688026.3	3739258.0	71.47	mg/L	71.47	mg/L	23:31:30
1	Fe 238.204†	7997103.1	8109763.0	69.37	mg/L	69.37	mg/L	23:31:30
1	Mg 279.077†	161546.8	163302.4	6.537	mg/L	6.537	mg/L	23:31:35
1	Mn 257.610†	1700984.2	1723302.1	1.893	mg/L	1.893	mg/L	23:31:30
1	Mo 202.031†	138.3	102.9	0.0069	mg/L	0.0069	mg/L	23:31:55
1	Ni 231.604†	10343.7	10461.2	0.3353	mg/L	0.3353	mg/L	23:31:35
1	P 214.914†	5415.7	5449.0	3.909	mg/L	3.909	mg/L	23:31:55
1	Pb 220.353†	631.2	791.7	0.0884	mg/L	0.0884	mg/L	23:31:55
1	Sb 206.836†	13.0	-2.1	-0.0027	mg/L	-0.0027	mg/L	23:31:55
1	Se 196.026†	1.8	5.9	0.0178	mg/L	0.0178	mg/L	23:31:55
1	Sn 189.927†	229.0	42.5	0.0084	mg/L	0.0084	mg/L	23:31:55
1	Sr 407.771†	644595.2	647461.2	0.0290	mg/L	0.0290	mg/L	23:31:30
1	Ti 337.279†	945457.5	960882.8	1.213	mg/L	1.213	mg/L	23:31:30
1	Tl 190.801†	-8.0	-27.6	0.0259	mg/L	0.0259	mg/L	23:31:55
1	V 292.402†	14626.0	16461.0	0.0554	mg/L	0.0554	mg/L	23:31:35
1	Zn 213.857†	47986.8	47995.6	0.6133	mg/L	0.6133	mg/L	23:31:35
2	K 766.490†	6121.3	5648.4	3.101	mg/L	3.101	mg/L	23:31:18
2	Li 670.784†	1518.9	1370.9	0.0371	mg/L	0.0371	mg/L	23:31:18
2	Na 589.592	45092.2	45905.4	5.476	mg/L	5.476	mg/L	23:31:18
2	Y 371.029	3316294.2	3316294.2	0.986	mg/L			23:32:04
2	Ag 328.068†	-1603.2	927.5	0.0053	mg/L	0.0053	mg/L	23:32:10
2	Al 237.313†	197418.4	200323.6	22.33	mg/L	22.33	mg/L	23:32:10
2	As 188.979†	130.0	127.2	0.1758	mg/L	0.1758	mg/L	23:32:30
2	B 182.528†	-1.4	1.3	0.0086	mg/L	0.0086	mg/L	23:32:30
2	Ba 233.527†	20100.9	20571.2	0.1711	mg/L	0.1711	mg/L	23:32:10
2	Be 313.107†	8511.5	6432.1	0.0005	mg/L	0.0005	mg/L	23:32:10
2	Ca 315.886†	511084.7	516648.8	3.541	mg/L	3.541	mg/L	23:32:04
2	Cd 228.802†	250.7	138.6	0.0053	mg/L	0.0053	mg/L	23:32:30
2	Co 228.616†	17058.5	17481.8	0.4548	mg/L	0.4548	mg/L	23:32:10
2	Cr 267.716†	11509.8	10320.5	0.0697	mg/L	0.0697	mg/L	23:32:10
2	Cu 324.752†	19281.7	17636.8	0.0794	mg/L	0.0794	mg/L	23:32:10
2	Fe 234.349†	3673586.0	3725421.6	71.21	mg/L	71.21	mg/L	23:32:04
2	Fe 238.204†	7967664.3	8081660.9	69.13	mg/L	69.13	mg/L	23:32:04
2	Mg 279.077†	162849.5	164659.5	6.592	mg/L	6.592	mg/L	23:32:10
2	Mn 257.610†	1696258.7	1718883.1	1.888	mg/L	1.888	mg/L	23:32:04
2	Mo 202.031†	128.4	93.0	0.0063	mg/L	0.0063	mg/L	23:32:30
2	Ni 231.604†	10346.2	10466.1	0.3355	mg/L	0.3355	mg/L	23:32:10
2	P 214.914†	5421.6	5456.2	3.914	mg/L	3.914	mg/L	23:32:30
2	Pb 220.353†	603.1	763.3	0.0852	mg/L	0.0852	mg/L	23:32:30
2	Sb 206.836†	8.8	-6.3	-0.0048	mg/L	-0.0048	mg/L	23:32:30
2	Se 196.026†	-1.0	3.0	0.0141	mg/L	0.0141	mg/L	23:32:30
2	Sn 189.927†	241.0	54.7	0.0117	mg/L	0.0117	mg/L	23:32:30

2	Sr 407.771†	643077.7	646063.8	0.0290 mg/L	0.0290 mg/L	23:32:04
2	Ti 337.279†	944758.2	960381.8	1.212 mg/L	1.212 mg/L	23:32:04
2	Tl 190.801†	-10.3	-30.0	0.0239 mg/L	0.0239 mg/L	23:32:30
2	V 292.402†	14775.9	16616.3	0.0560 mg/L	0.0560 mg/L	23:32:10
2	Zn 213.857†	48349.4	48374.0	0.6183 mg/L	0.6183 mg/L	23:32:10

Mean Data: 0606374-01

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3316654.4	0.986	mg/L	0.0002				0.02%
Ag 328.068†	1048.5	0.0057	mg/L	0.00060	0.0057	mg/L	0.00060	10.55%
Al 237.313†	199429.0	22.23	mg/L	0.144	22.23	mg/L	0.144	0.65%
As 188.979†	123.2	0.1704	mg/L	0.00771	0.1704	mg/L	0.00771	4.52%
B 182.528†	3.3	0.0130	mg/L	0.00627	0.0130	mg/L	0.00627	48.12%
Ba 233.527†	20484.6	0.1704	mg/L	0.00102	0.1704	mg/L	0.00102	0.60%
Be 313.107†	6494.9	0.0006	mg/L	0.00002	0.0006	mg/L	0.00002	3.36%
Ca 315.886†	517556.7	3.547	mg/L	0.0088	3.547	mg/L	0.0088	0.25%
Cd 228.802†	138.7	0.0053	mg/L	0.00003	0.0053	mg/L	0.00003	0.56%
Co 228.616†	17375.6	0.4520	mg/L	0.00393	0.4520	mg/L	0.00393	0.87%
Cr 267.716†	10252.3	0.0692	mg/L	0.00062	0.0692	mg/L	0.00062	0.89%
Cu 324.752†	17595.9	0.0792	mg/L	0.00019	0.0792	mg/L	0.00019	0.23%
Fe 234.349†	3732339.8	71.34	mg/L	0.187	71.34	mg/L	0.187	0.26%
Fe 238.204†	8095711.9	69.25	mg/L	0.170	69.25	mg/L	0.170	0.25%
K 766.490†	5707.5	3.133	mg/L	0.0459	3.133	mg/L	0.0459	1.46%
Li 670.784†	1386.5	0.0375	mg/L	0.00063	0.0375	mg/L	0.00063	1.69%
Mg 279.077†	163981.0	6.564	mg/L	0.0386	6.564	mg/L	0.0386	0.59%
Mn 257.610†	1721092.6	1.891	mg/L	0.0034	1.891	mg/L	0.0034	0.18%
Mo 202.031†	97.9	0.0066	mg/L	0.00046	0.0066	mg/L	0.00046	7.01%
Na 589.592	46180.2	5.509	mg/L	0.0472	5.509	mg/L	0.0472	0.86%
Ni 231.604†	10463.6	0.3354	mg/L	0.00011	0.3354	mg/L	0.00011	0.03%
P 214.914†	5452.6	3.911	mg/L	0.0036	3.911	mg/L	0.0036	0.09%
Pb 220.353†	777.5	0.0868	mg/L	0.00223	0.0868	mg/L	0.00223	2.57%
Sb 206.836†	-4.2	-0.0038	mg/L	0.00145	-0.0038	mg/L	0.00145	38.50%
Se 196.026†	4.4	0.0159	mg/L	0.00259	0.0159	mg/L	0.00259	16.27%
Sn 189.927†	48.6	0.0101	mg/L	0.00228	0.0101	mg/L	0.00228	22.64%
Sr 407.771†	646762.5	0.0290	mg/L	0.00004	0.0290	mg/L	0.00004	0.15%
Ti 337.279†	960632.3	1.212	mg/L	0.0004	1.212	mg/L	0.0004	0.04%
Tl 190.801†	-28.8	0.0249	mg/L	0.00146	0.0249	mg/L	0.00146	5.84%
V 292.402†	16538.7	0.0557	mg/L	0.00045	0.0557	mg/L	0.00045	0.81%
Zn 213.857†	48184.8	0.6158	mg/L	0.00348	0.6158	mg/L	0.00348	0.56%

Sequence No.: 58
Sample ID: 0606374-02
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 46
Date Collected: 6/23/2006 11:34:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606374-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	K 766.490†	17741.7	16968.4	9.307	mg/L	9.307	mg/L	23:35:44
1	Li 670.784†	2086.1	1891.1	0.0520	mg/L	0.0520	mg/L	23:35:44
1	Na 589.592	42739.2	43552.4	5.190	mg/L	5.190	mg/L	23:35:44
1	Y 371.029	3404864.5	3404864.5	1.01	mg/L			23:36:07
1	Ag 328.068†	-3024.7	-434.8	0.0033	mg/L	0.0033	mg/L	23:36:12
1	Al 237.313†	318007.8	314263.5	34.92	mg/L	34.92	mg/L	23:36:07
1	As 188.979†	73.3	67.7	0.0929	mg/L	0.0929	mg/L	23:36:32
1	B 182.528†	10.1	12.7	0.0340	mg/L	0.0340	mg/L	23:36:32
1	Ba 233.527†	18418.8	18378.8	0.1528	mg/L	0.1528	mg/L	23:36:12
1	Be 313.107†	22260.3	19792.0	0.0020	mg/L	0.0020	mg/L	23:36:12
1	Ca 315.886†	1048759.6	1034416.4	7.093	mg/L	7.093	mg/L	23:36:07
1	Cd 228.802†	204.4	86.2	0.0029	mg/L	0.0029	mg/L	23:36:32
1	Co 228.616†	2466.9	2614.2	0.0623	mg/L	0.0623	mg/L	23:36:32
1	Cr 267.716†	8222.9	6769.1	0.0510	mg/L	0.0510	mg/L	23:36:12
1	Cu 324.752†	15750.7	13639.2	0.0776	mg/L	0.0776	mg/L	23:36:12
1	Fe 234.349†	7340300.7	7251409.9	138.6	mg/L	138.6	mg/L	23:36:00
1	Fe 238.204†	15323289.9	15139194.7	129.5	mg/L	129.5	mg/L	23:36:00
1	Mg 279.077†	371588.2	366608.3	14.67	mg/L	14.67	mg/L	23:36:12
1	Mn 257.610†	1229627.3	1213061.9	1.332	mg/L	1.332	mg/L	23:36:07

1	Mo 202.031†	99.2	60.7	0.0042 mg/L	0.0042 mg/L	23:36:32
1	Ni 231.604†	4082.7	4004.4	0.1285 mg/L	0.1285 mg/L	23:36:32
1	P 214.914†	9005.0	8853.7	6.335 mg/L	6.335 mg/L	23:36:32
1	Pb 220.353†	208.1	357.1	0.0388 mg/L	0.0388 mg/L	23:36:32
1	Sb 206.836†	9.6	-5.7	-0.0057 mg/L	-0.0057 mg/L	23:36:32
1	Se 196.026†	-2.1	2.0	0.0128 mg/L	0.0128 mg/L	23:36:32
1	Sn 189.927†	76.2	-114.5	-0.0288 mg/L	-0.0288 mg/L	23:36:32
1	Sr 407.771†	672882.3	658542.5	0.0295 mg/L	0.0295 mg/L	23:36:07
1	Ti 337.279†	2228216.8	2203583.2	2.780 mg/L	2.780 mg/L	23:36:07
1	Tl 190.801†	-26.5	-45.7	0.0010 mg/L	0.0010 mg/L	23:36:32
1	V 292.402†	23316.1	24664.5	0.0772 mg/L	0.0772 mg/L	23:36:12
1	Zn 213.857†	25445.4	24467.6	0.3050 mg/L	0.3050 mg/L	23:36:12
2	K 766.490†	17547.1	16773.2	9.200 mg/L	9.200 mg/L	23:35:49
2	Li 670.784†	2090.2	1894.8	0.0521 mg/L	0.0521 mg/L	23:35:49
2	Na 589.592	42269.6	43082.8	5.133 mg/L	5.133 mg/L	23:35:49
2	Y 371.029	3405460.8	3405460.8	1.01 mg/L		23:36:47
2	Ag 328.068†	-3213.2	-620.4	0.0025 mg/L	0.0025 mg/L	23:36:52
2	Al 237.313†	317815.9	314018.8	34.90 mg/L	34.90 mg/L	23:36:47
2	As 188.979†	71.8	66.3	0.0909 mg/L	0.0909 mg/L	23:37:12
2	B 182.528†	12.5	15.0	0.0394 mg/L	0.0394 mg/L	23:37:12
2	Ba 233.527†	18235.6	18194.6	0.1513 mg/L	0.1513 mg/L	23:36:52
2	Be 313.107†	22369.2	19895.7	0.0020 mg/L	0.0020 mg/L	23:36:52
2	Ca 315.886†	1049923.9	1035385.2	7.100 mg/L	7.100 mg/L	23:36:47
2	Cd 228.802†	181.9	64.0	0.0023 mg/L	0.0023 mg/L	23:37:12
2	Co 228.616†	2443.5	2590.7	0.0616 mg/L	0.0616 mg/L	23:37:12
2	Cr 267.716†	8026.8	6574.0	0.0496 mg/L	0.0496 mg/L	23:36:52
2	Cu 324.752†	15445.0	13334.4	0.0762 mg/L	0.0762 mg/L	23:36:52
2	Fe 234.349†	7244090.8	7155095.6	136.8 mg/L	136.8 mg/L	23:36:40
2	Fe 238.204†	15142560.9	14958003.9	128.0 mg/L	128.0 mg/L	23:36:40
2	Mg 279.077†	366654.5	361670.0	14.47 mg/L	14.47 mg/L	23:36:52
2	Mn 257.610†	1231873.1	1215067.8	1.334 mg/L	1.334 mg/L	23:36:47
2	Mo 202.031†	117.1	78.4	0.0053 mg/L	0.0053 mg/L	23:37:12
2	Ni 231.604†	4080.3	4001.2	0.1284 mg/L	0.1284 mg/L	23:37:12
2	P 214.914†	8962.6	8810.3	6.304 mg/L	6.304 mg/L	23:37:12
2	Pb 220.353†	209.0	358.0	0.0390 mg/L	0.0390 mg/L	23:37:12
2	Sb 206.836†	14.9	-0.4	-0.0031 mg/L	-0.0031 mg/L	23:37:12
2	Se 196.026†	-0.9	3.2	0.0143 mg/L	0.0143 mg/L	23:37:12
2	Sn 189.927†	83.9	-106.9	-0.0269 mg/L	-0.0269 mg/L	23:37:12
2	Sr 407.771†	673803.2	659335.9	0.0296 mg/L	0.0296 mg/L	23:36:47
2	Ti 337.279†	2226724.6	2201723.6	2.778 mg/L	2.778 mg/L	23:36:47
2	Tl 190.801†	-19.0	-38.3	0.0071 mg/L	0.0071 mg/L	23:37:12
2	V 292.402†	23365.2	24709.1	0.0776 mg/L	0.0776 mg/L	23:36:52
2	Zn 213.857†	25124.4	24146.1	0.3010 mg/L	0.3010 mg/L	23:36:52

Mean Data: 0606374-02

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3405162.6	1.01	mg/L	0.000				0.01%
Ag 328.068†	-527.6	0.0029	mg/L	0.00051	0.0029	mg/L	0.00051	17.57%
Al 237.313†	314141.1	34.91	mg/L	0.014	34.91	mg/L	0.014	0.04%
As 188.979†	67.0	0.0919	mg/L	0.00137	0.0919	mg/L	0.00137	1.49%
B 182.528†	13.8	0.0367	mg/L	0.00377	0.0367	mg/L	0.00377	10.28%
Ba 233.527†	18286.7	0.1521	mg/L	0.00109	0.1521	mg/L	0.00109	0.71%
Be 313.107†	19843.9	0.0020	mg/L	0.00001	0.0020	mg/L	0.00001	0.45%
Ca 315.886†	1034900.8	7.097	mg/L	0.0047	7.097	mg/L	0.0047	0.07%
Cd 228.802†	75.1	0.0026	mg/L	0.00039	0.0026	mg/L	0.00039	15.00%
Co 228.616†	2602.5	0.0620	mg/L	0.00043	0.0620	mg/L	0.00043	0.70%
Cr 267.716†	6671.6	0.0503	mg/L	0.00097	0.0503	mg/L	0.00097	1.94%
Cu 324.752†	13486.8	0.0769	mg/L	0.00105	0.0769	mg/L	0.00105	1.37%
Fe 234.349†	7203252.8	137.7	mg/L	1.30	137.7	mg/L	1.30	0.95%
Fe 238.204†	15048599.3	128.7	mg/L	1.10	128.7	mg/L	1.10	0.85%
K 766.490†	16870.8	9.254	mg/L	0.0757	9.254	mg/L	0.0757	0.82%
Li 670.784†	1893.0	0.0521	mg/L	0.00008	0.0521	mg/L	0.00008	0.14%
Mg 279.077†	364139.1	14.57	mg/L	0.140	14.57	mg/L	0.140	0.96%
Mn 257.610†	1214064.8	1.333	mg/L	0.0016	1.333	mg/L	0.0016	0.12%
Mo 202.031†	69.6	0.0047	mg/L	0.00082	0.0047	mg/L	0.00082	17.32%
Na 589.592	43317.6	5.161	mg/L	0.0403	5.161	mg/L	0.0403	0.78%
Ni 231.604†	4002.8	0.1284	mg/L	0.00007	0.1284	mg/L	0.00007	0.06%
P 214.914†	8832.0	6.320	mg/L	0.0219	6.320	mg/L	0.0219	0.35%
Pb 220.353†	357.6	0.0389	mg/L	0.00013	0.0389	mg/L	0.00013	0.34%
Sb 206.836†	-3.1	-0.0044	mg/L	0.00182	-0.0044	mg/L	0.00182	41.42%

Se 196.026†	2.6	0.0136	mg/L	0.00106	0.0136	mg/L	O.00106 7.80%
Sn 189.927†	-110.7	-0.0279	mg/L	0.00137	-0.0279	mg/L	O.00137 4.93%
Sr 407.771†	658939.2	0.0296	mg/L	0.00003	0.0296	mg/L	O.00003 0.09%
Ti 337.279†	2202653.4	2.779	mg/L	0.0017	2.779	mg/L	0.0017 0.06%
Tl 190.801†	-42.0	0.0041	mg/L	0.00429	0.0041	mg/L	O.00429 105.46%
V 292.402†	24686.8	0.0774	mg/L	0.00031	0.0774	mg/L	O.00031 0.40%
Zn 213.857†	24306.9	0.3030	mg/L	0.00282	0.3030	mg/L	O.00282 0.93%

Sequence No.: 59
Sample ID: 0606374-03
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 47
Date Collected: 6/23/2006 11:38:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606374-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	10551.9	9767.5	5.359	mg/L	5.359	mg/L	23:40:25
1	Li 670.784†	2721.2	2493.6	0.0693	mg/L	0.0693	mg/L	23:40:25
1	Na 589.592	52535.7	53348.9	6.380	mg/L	6.380	mg/L	23:40:25
1	Y 371.029	3436835.7	3436835.7	1.02	mg/L			23:41:06
1	Ag 328.068†	31346.0	33237.4	0.1227	mg/L	0.1227	mg/L	23:41:11
1	Al 237.313†	508771.1	498072.4	55.40	mg/L	55.40	mg/L	23:41:06
1	As 188.979†	229.9	220.3	0.3010	mg/L	0.3010	mg/L	23:41:32
1	B 182.528†	19.7	22.0	0.0550	mg/L	0.0550	mg/L	23:41:32
1	Ba 233.527†	105117.8	103076.3	0.8589	mg/L	0.8589	mg/L	23:41:11
1	Be 313.107†	25619.2	22875.4	0.0023	mg/L	0.0023	mg/L	23:41:11
1	Ca 315.886†	3833150.4	3750325.9	25.73	mg/L	25.73	mg/L	23:41:06
1	Cd 228.802†	725.2	594.1	0.0147	mg/L	0.0147	mg/L	23:41:32
1	Co 228.616†	3230.4	3339.0	0.0800	mg/L	0.0800	mg/L	23:41:32
1	Cr 267.716†	53517.3	51030.7	0.3266	mg/L	0.3266	mg/L	23:41:11
1	Cu 324.752†	374794.9	364951.1	1.421	mg/L	1.421	mg/L	23:41:06
1	Fe 234.349†	10248850.5	10031026.3	191.7	mg/L	191.7	mg/L	23:40:49
1	Fe 238.204†	20687356.7	20249061.0	173.2	mg/L	173.2	mg/L	23:40:49
1	Mg 279.077†	309143.7	302067.9	12.29	mg/L	12.29	mg/L	23:41:11
1	Mn 257.610†	22384625.8	21909695.4	24.10	mg/L	24.10	mg/L	23:40:49
1	Mo 202.031†	263.2	220.4	0.0147	mg/L	0.0147	mg/L	23:41:11
1	Ni 231.604†	6701.4	6530.2	0.2093	mg/L	0.2093	mg/L	23:41:11
1	P 214.914†	17363.1	16952.4	12.11	mg/L	12.11	mg/L	23:41:11
1	Pb 220.353†	14833.0	14671.1	1.657	mg/L	1.657	mg/L	23:41:11
1	Sb 206.836†	30.1	14.3	-0.0014	mg/L	-0.0014	mg/L	23:41:32
1	Se 196.026†	15.5	19.3	0.0345	mg/L	0.0345	mg/L	23:41:32
1	Sn 189.927†	608.3	405.6	0.1117	mg/L	0.1117	mg/L	23:41:32
1	Sr 407.771†	3801321.5	3714684.5	0.1677	mg/L	0.1677	mg/L	23:40:58
1	Ti 337.279†	2717039.3	2661595.0	3.358	mg/L	3.358	mg/L	23:41:06
1	Tl 190.801†	-434.8	-445.1	0.0616	mg/L	0.0616	mg/L	23:41:32
1	V 292.402†	95160.2	94776.1	0.3481	mg/L	0.3481	mg/L	23:41:11
1	Zn 213.857†	192102.8	187369.2	2.408	mg/L	2.408	mg/L	23:41:11
2	K 766.490†	10492.4	9721.8	5.334	mg/L	5.334	mg/L	23:40:30
2	Li 670.784†	2622.8	2400.4	0.0666	mg/L	0.0666	mg/L	23:40:30
2	Na 589.592	52220.0	53033.2	6.342	mg/L	6.342	mg/L	23:40:30
2	Y 371.029	3432653.7	3432653.7	1.02	mg/L			23:42:04
2	Ag 328.068†	30911.9	32849.3	0.1213	mg/L	0.1213	mg/L	23:42:10
2	Al 237.313†	507131.2	497072.0	55.29	mg/L	55.29	mg/L	23:42:04
2	As 188.979†	233.2	223.8	0.3057	mg/L	0.3057	mg/L	23:42:30
2	B 182.528†	18.8	21.2	0.0531	mg/L	0.0531	mg/L	23:42:30
2	Ba 233.527†	104127.1	102230.7	0.8519	mg/L	0.8519	mg/L	23:42:10
2	Be 313.107†	25546.3	22834.4	0.0023	mg/L	0.0023	mg/L	23:42:10
2	Ca 315.886†	3814592.4	3736709.1	25.63	mg/L	25.63	mg/L	23:42:04
2	Cd 228.802†	746.7	616.1	0.0152	mg/L	0.0152	mg/L	23:42:30
2	Co 228.616†	3221.9	3334.5	0.0799	mg/L	0.0799	mg/L	23:42:30
2	Cr 267.716†	52787.1	50378.9	0.3224	mg/L	0.3224	mg/L	23:42:10
2	Cu 324.752†	373333.0	363965.2	1.418	mg/L	1.418	mg/L	23:42:04
2	Fe 234.349†	10223492.7	10018396.4	191.5	mg/L	191.5	mg/L	23:41:47
2	Fe 238.204†	20625182.8	20212797.7	172.9	mg/L	172.9	mg/L	23:41:47
2	Mg 279.077†	305524.1	298889.1	12.16	mg/L	12.16	mg/L	23:42:10
2	Mn 257.610†	22334964.4	21887719.2	24.08	mg/L	24.08	mg/L	23:41:47
2	Mo 202.031†	295.3	252.1	0.0168	mg/L	0.0168	mg/L	23:42:10
2	Ni 231.604†	6557.7	6397.3	0.2050	mg/L	0.2050	mg/L	23:42:10
2	P 214.914†	17145.4	16759.8	11.97	mg/L	11.97	mg/L	23:42:10

2	Pb 220.353†	14753.6	14610.9	1.650 mg/L	1.650 mg/L	23:42:10
2	Sb 206.836†	36.4	20.5	0.0016 mg/L	0.0016 mg/L	23:42:30
2	Se 196.026†	17.3	21.0	0.0366 mg/L	0.0366 mg/L	23:42:30
2	Sn 189.927†	599.4	397.7	0.1096 mg/L	0.1096 mg/L	23:42:30
2	Sr 407.771†	3765168.4	3683785.6	0.1663 mg/L	0.1663 mg/L	23:41:57
2	Ti 337.279†	2712093.9	2659988.5	3.356 mg/L	3.356 mg/L	23:42:04
2	Tl 190.801†	-423.4	-434.5	0.0699 mg/L	0.0699 mg/L	23:42:30
2	V 292.402†	94220.2	93968.3	0.3449 mg/L	0.3449 mg/L	23:42:10
2	Zn 213.857†	189694.3	185237.8	2.381 mg/L	2.381 mg/L	23:42:10

Mean Data: 0606374-03

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3434744.7	1.02	mg/L	0.001				0.09%
Ag 328.068†	33043.3	0.1220	mg/L	0.00096	0.1220	mg/L	0.00096	0.79%
Al 237.313†	497572.2	55.35	mg/L	0.079	55.35	mg/L	0.079	0.14%
As 188.979†	222.1	0.3033	mg/L	0.00336	0.3033	mg/L	0.00336	1.11%
B 182.528†	21.6	0.0541	mg/L	0.00130	0.0541	mg/L	0.00130	2.41%
Ba 233.527†	102653.5	0.8554	mg/L	0.00498	0.8554	mg/L	0.00498	0.58%
Be 313.107†	22854.9	0.0023	mg/L	0.00001	0.0023	mg/L	0.00001	0.26%
Ca 315.886†	3743517.5	25.68	mg/L	0.066	25.68	mg/L	0.066	0.26%
Cd 228.802†	605.1	0.0149	mg/L	0.00036	0.0149	mg/L	0.00036	2.42%
Co 228.616†	3336.7	0.0799	mg/L	0.00008	0.0799	mg/L	0.00008	0.10%
Cr 267.716†	50704.8	0.3245	mg/L	0.00299	0.3245	mg/L	0.00299	0.92%
Cu 324.752†	364458.1	1.420	mg/L	0.0027	1.420	mg/L	0.0027	0.19%
Fe 234.349†	10024711.4	191.6	mg/L	0.17	191.6	mg/L	0.17	0.09%
Fe 238.204†	20230929.3	173.1	mg/L	0.22	173.1	mg/L	0.22	0.13%
K 766.490†	9744.6	5.347	mg/L	0.0177	5.347	mg/L	0.0177	0.33%
Li 670.784†	2447.0	0.0680	mg/L	0.00189	0.0680	mg/L	0.00189	2.78%
Mg 279.077†	300478.5	12.22	mg/L	0.090	12.22	mg/L	0.090	0.74%
Mn 257.610†	21898707.3	24.09	mg/L	0.017	24.09	mg/L	0.017	0.07%
Mo 202.031†	236.2	0.0157	mg/L	0.00147	0.0157	mg/L	0.00147	9.39%
Na 589.592	53191.0	6.361	mg/L	0.0271	6.361	mg/L	0.0271	0.43%
Ni 231.604†	6463.8	0.2072	mg/L	0.00301	0.2072	mg/L	0.00301	1.45%
P 214.914†	16856.1	12.04	mg/L	0.097	12.04	mg/L	0.097	0.81%
Pb 220.353†	14641.0	1.654	mg/L	0.0048	1.654	mg/L	0.0048	0.29%
Sb 206.836†	17.4	0.0001	mg/L	0.00215	0.0001	mg/L	0.00215	>999.9%
Se 196.026†	20.1	0.0356	mg/L	0.00151	0.0356	mg/L	0.00151	4.23%
Sn 189.927†	401.6	0.1107	mg/L	0.00150	0.1107	mg/L	0.00150	1.35%
Sr 407.771†	3699235.1	0.1670	mg/L	0.00099	0.1670	mg/L	0.00099	0.59%
Ti 337.279†	2660791.8	3.357	mg/L	0.0014	3.357	mg/L	0.0014	0.04%
Tl 190.801†	-439.8	0.0657	mg/L	0.00586	0.0657	mg/L	0.00586	8.91%
V 292.402†	94372.2	0.3465	mg/L	0.00222	0.3465	mg/L	0.00222	0.64%
Zn 213.857†	186303.5	2.394	mg/L	0.0195	2.394	mg/L	0.0195	0.81%

Sequence No.: 60
Sample ID: 0606374-04
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 48
Date Collected: 6/23/2006 11:44:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606374-04

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	2906.0	2366.9	1.302	mg/L	1.302	mg/L	23:45:44
1	Li 670.784†	805.0	641.1	0.0161	mg/L	0.0161	mg/L	23:45:44
1	Na 589.592	42197.7	43010.9	5.124	mg/L	5.124	mg/L	23:45:44
1	Y 371.029	3338523.5	3338523.5	0.992	mg/L			23:46:08
1	Ag 328.068†	-2223.5	313.2	0.0054	mg/L	0.0054	mg/L	23:46:14
1	Al 237.313†	92828.2	93595.3	10.01	mg/L	10.01	mg/L	23:46:08
1	As 188.979†	165.2	161.8	0.2239	mg/L	0.2239	mg/L	23:46:34
1	B 182.528†	1.8	4.5	0.0157	mg/L	0.0157	mg/L	23:46:34
1	Ba 233.527†	28200.4	28597.3	0.2381	mg/L	0.2381	mg/L	23:46:14
1	Be 313.107†	6863.2	4713.5	0.0012	mg/L	0.0012	mg/L	23:46:14
1	Ca 315.886†	1093137.9	1099727.5	7.541	mg/L	7.541	mg/L	23:46:08
1	Cd 228.802†	374.3	261.5	0.0062	mg/L	0.0062	mg/L	23:46:34
1	Co 228.616†	1223.4	1409.7	0.0354	mg/L	0.0354	mg/L	23:46:34
1	Cr 267.716†	4848.6	3530.3	0.0272	mg/L	0.0272	mg/L	23:46:14
1	Cu 324.752†	3302.0	1404.0	0.0274	mg/L	0.0274	mg/L	23:46:14

1	Fe 234.349†	6649236.7	6699149.6	128.1 mg/L	128.1 mg/L	23:46:02
1	Fe 238.204†	13969863.4	14076215.0	120.4 mg/L	120.4 mg/L	23:46:02
1	Mg 279.077†	89009.8	89151.8	3.567 mg/L	3.567 mg/L	23:46:14
1	Mn 257.610†	4276451.4	4307467.0	4.736 mg/L	4.736 mg/L	23:46:02
1	Mo 202.031†	78.5	41.8	0.0029 mg/L	0.0029 mg/L	23:46:34
1	Ni 231.604†	714.2	690.1	0.0224 mg/L	0.0224 mg/L	23:46:34
1	P 214.914†	7123.4	7134.4	5.110 mg/L	5.110 mg/L	23:46:34
1	Pb 220.353†	-108.1	42.6	-0.0012 mg/L	-0.0012 mg/L	23:46:34
1	Sb 206.836†	0.5	-14.7	-0.0073 mg/L	-0.0073 mg/L	23:46:34
1	Se 196.026†	-5.7	-1.7	0.0083 mg/L	0.0083 mg/L	23:46:34
1	Sn 189.927†	144.8	-43.9	-0.0128 mg/L	-0.0128 mg/L	23:46:34
1	Sr 407.771†	758278.9	757807.5	0.0340 mg/L	0.0340 mg/L	23:46:08
1	Ti 337.279†	453359.4	458821.2	0.5795 mg/L	0.5795 mg/L	23:46:08
1	Tl 190.801†	-85.1	-105.2	0.0148 mg/L	0.0148 mg/L	23:46:34
1	V 292.402†	7070.2	8751.4	0.0181 mg/L	0.0181 mg/L	23:46:14
1	Zn 213.857†	7750.2	7135.9	0.0815 mg/L	0.0815 mg/L	23:46:34
2	K 766.490†	3007.9	2460.6	1.353 mg/L	1.353 mg/L	23:45:50
2	Li 670.784†	850.0	684.0	0.0173 mg/L	0.0173 mg/L	23:45:50
2	Na 589.592	42346.1	43159.3	5.142 mg/L	5.142 mg/L	23:45:50
2	Y 371.029	3348546.9	3348546.9	0.995 mg/L		23:46:49
2	Ag 328.068†	-2302.4	240.6	0.0051 mg/L	0.0051 mg/L	23:46:55
2	Al 237.313†	92871.2	93358.5	9.991 mg/L	9.991 mg/L	23:46:49
2	As 188.979†	163.0	159.0	0.2200 mg/L	0.2200 mg/L	23:47:15
2	B 182.528†	8.3	11.1	0.0305 mg/L	0.0305 mg/L	23:47:15
2	Ba 233.527†	27901.5	28212.0	0.2349 mg/L	0.2349 mg/L	23:46:55
2	Be 313.107†	6835.5	4665.0	0.0012 mg/L	0.0012 mg/L	23:46:55
2	Ca 315.886†	1094090.8	1097387.5	7.525 mg/L	7.525 mg/L	23:46:49
2	Cd 228.802†	381.0	267.1	0.0064 mg/L	0.0064 mg/L	23:47:15
2	Co 228.616†	1248.6	1431.3	0.0360 mg/L	0.0360 mg/L	23:47:15
2	Cr 267.716†	4817.8	3484.7	0.0268 mg/L	0.0268 mg/L	23:46:55
2	Cu 324.752†	3231.1	1322.8	0.0268 mg/L	0.0268 mg/L	23:46:55
2	Fe 234.349†	6566710.7	6596181.0	126.1 mg/L	126.1 mg/L	23:46:43
2	Fe 238.204†	13823643.8	13887172.9	118.8 mg/L	118.8 mg/L	23:46:43
2	Mg 279.077†	87795.6	87663.4	3.507 mg/L	3.507 mg/L	23:46:55
2	Mn 257.610†	4236035.5	4253962.7	4.677 mg/L	4.677 mg/L	23:46:43
2	Mo 202.031†	97.2	60.4	0.0041 mg/L	0.0041 mg/L	23:47:15
2	Ni 231.604†	710.9	684.7	0.0222 mg/L	0.0222 mg/L	23:47:15
2	P 214.914†	7105.3	7094.7	5.082 mg/L	5.082 mg/L	23:47:15
2	Pb 220.353†	-98.3	52.7	0.0000 mg/L	0.0000 mg/L	23:47:15
2	Sb 206.836†	4.2	-11.0	-0.0055 mg/L	-0.0055 mg/L	23:47:15
2	Se 196.026†	-2.7	1.3	0.0120 mg/L	0.0120 mg/L	23:47:15
2	Sn 189.927†	140.7	-48.5	-0.0141 mg/L	-0.0141 mg/L	23:47:15
2	Sr 407.771†	761382.8	758638.6	0.0341 mg/L	0.0341 mg/L	23:46:49
2	Ti 337.279†	454581.3	458681.3	0.5793 mg/L	0.5793 mg/L	23:46:49
2	Tl 190.801†	-83.4	-103.2	0.0154 mg/L	0.0154 mg/L	23:47:15
2	V 292.402†	6870.2	8529.2	0.0175 mg/L	0.0175 mg/L	23:46:55
2	Zn 213.857†	7728.1	7090.4	0.0810 mg/L	0.0810 mg/L	23:47:15

Mean Data: 0606374-04

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3343535.2	0.994	mg/L	0.0021				0.21%
Ag 328.068†	276.9	0.0053	mg/L	0.00023	0.0053	mg/L	0.00023	4.45%
Al 237.313†	93476.9	10.00	mg/L	0.013	10.00	mg/L	0.013	0.13%
As 188.979†	160.4	0.2220	mg/L	0.00271	0.2220	mg/L	0.00271	1.22%
B 182.528†	7.8	0.0231	mg/L	0.01042	0.0231	mg/L	0.01042	45.14%
Ba 233.527†	28404.6	0.2365	mg/L	0.00227	0.2365	mg/L	0.00227	0.96%
Be 313.107†	4689.3	0.0012	mg/L	0.00002	0.0012	mg/L	0.00002	1.26%
Ca 315.886†	1098557.5	7.533	mg/L	0.0114	7.533	mg/L	0.0114	0.15%
Cd 228.802†	264.3	0.0063	mg/L	0.00010	0.0063	mg/L	0.00010	1.67%
Co 228.616†	1420.5	0.0357	mg/L	0.00040	0.0357	mg/L	0.00040	1.12%
Cr 267.716†	3507.5	0.0270	mg/L	0.00027	0.0270	mg/L	0.00027	0.98%
Cu 324.752†	1363.4	0.0271	mg/L	0.00047	0.0271	mg/L	0.00047	1.73%
Fe 234.349†	6647665.3	127.1	mg/L	1.39	127.1	mg/L	1.39	1.10%
Fe 238.204†	13981693.9	119.6	mg/L	1.14	119.6	mg/L	1.14	0.96%
K 766.490†	2413.8	1.327	mg/L	0.0363	1.327	mg/L	0.0363	2.74%
Li 670.784†	662.5	0.0167	mg/L	0.00087	0.0167	mg/L	0.00087	5.20%
Mg 279.077†	88407.6	3.537	mg/L	0.0421	3.537	mg/L	0.0421	1.19%
Mn 257.610†	4280714.8	4.707	mg/L	0.0416	4.707	mg/L	0.0416	0.88%
Mo 202.031†	51.1	0.0035	mg/L	0.00087	0.0035	mg/L	0.00087	24.54%
Na 589.592	43085.1	5.133	mg/L	0.0127	5.133	mg/L	0.0127	0.25%

Ni 231.604†	687.4	0.0223 mg/L	0.00012	0.0223 mg/L	O.00012	0.55%
P 214.914†	7114.6	5.096 mg/L	0.0200	5.096 mg/L	0.0200	0.39%
Pb 220.353†	47.6	-0.0006 mg/L	0.00088	-0.0006 mg/L	O.00088	153.64%
Sb 206.836†	-12.8	-0.0064 mg/L	0.00126	-0.0064 mg/L	O.00126	19.63%
Se 196.026†	-0.2	0.0101 mg/L	0.00264	0.0101 mg/L	O.00264	26.07%
Sn 189.927†	-46.2	-0.0135 mg/L	0.00092	-0.0135 mg/L	O.00092	6.83%
Sr 407.771†	758223.1	0.0340 mg/L	0.00003	0.0340 mg/L	O.00003	0.08%
Ti 337.279†	458751.3	0.5794 mg/L	0.00012	0.5794 mg/L	O.00012	0.02%
Tl 190.801†	-104.2	0.0151 mg/L	0.00044	0.0151 mg/L	O.00044	2.93%
V 292.402†	8640.3	0.0178 mg/L	0.00043	0.0178 mg/L	O.00043	2.40%
Zn 213.857†	7113.1	0.0812 mg/L	0.00029	0.0812 mg/L	O.00029	0.36%

Sequence No.: 61
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/23/2006 11:48:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	44473.2	45569.3	24.99	mg/L	24.99	mg/L	23:50:31
1	Li 670.784†	16981.1	17444.0	0.4988	mg/L	0.4988	mg/L	23:50:31
1	Na 589.592	195226.5	196039.7	23.72	mg/L	23.72	mg/L	23:50:31
1	Y 371.029	3243325.9	3243325.9	0.964	mg/L			23:50:46
1	Ag 328.068†	65452.4	70445.6	0.2449	mg/L	0.2449	mg/L	23:50:51
1	Al 237.313†	20720.0	21545.3	2.430	mg/L	2.430	mg/L	23:50:51
1	As 188.979†	360.5	369.2	0.5073	mg/L	0.5073	mg/L	23:51:11
1	B 182.528†	211.6	222.2	0.5049	mg/L	0.5049	mg/L	23:51:11
1	Ba 233.527†	56529.6	58816.4	0.4900	mg/L	0.4900	mg/L	23:50:51
1	Be 313.107†	224570.3	230737.7	0.0474	mg/L	0.0474	mg/L	23:50:46
1	Ca 315.886†	680695.2	704245.4	4.830	mg/L	4.830	mg/L	23:50:46
1	Cd 228.802†	9594.0	9835.9	0.2423	mg/L	0.2423	mg/L	23:51:11
1	Co 228.616†	17664.8	18500.0	0.4830	mg/L	0.4830	mg/L	23:50:51
1	Cr 267.716†	74198.3	75608.1	0.4901	mg/L	0.4901	mg/L	23:50:51
1	Cu 324.752†	127500.2	130328.8	0.4941	mg/L	0.4941	mg/L	23:50:51
1	Fe 234.349†	125141.8	128567.8	2.448	mg/L	2.448	mg/L	23:50:51
1	Fe 238.204†	278692.3	287963.9	2.459	mg/L	2.459	mg/L	23:50:51
1	Mg 279.077†	118160.1	122021.3	4.892	mg/L	4.892	mg/L	23:50:51
1	Mn 257.610†	429478.3	443603.1	0.4856	mg/L	0.4856	mg/L	23:50:46
1	Mo 202.031†	7072.8	7299.1	0.4805	mg/L	0.4805	mg/L	23:51:11
1	Ni 231.604†	15147.6	15682.6	0.5026	mg/L	0.5026	mg/L	23:50:51
1	P 214.914†	6456.5	6653.4	4.767	mg/L	4.767	mg/L	23:51:11
1	Pb 220.353†	3935.0	4233.2	0.4777	mg/L	0.4777	mg/L	23:51:11
1	Sb 206.836†	975.5	996.7	0.4697	mg/L	0.4697	mg/L	23:51:11
1	Se 196.026†	734.8	766.2	0.9708	mg/L	0.9708	mg/L	23:51:11
1	Sn 189.927†	1850.1	1729.3	0.4519	mg/L	0.4519	mg/L	23:51:11
1	Sr 407.771†	1054937.3	1087950.6	0.0490	mg/L	0.0490	mg/L	23:50:46
1	Ti 337.279†	371185.6	386994.1	0.4889	mg/L	0.4889	mg/L	23:50:51
1	Tl 190.801†	595.3	598.0	0.5138	mg/L	0.5138	mg/L	23:51:11
1	V 292.402†	117336.9	123337.0	0.4976	mg/L	0.4976	mg/L	23:50:51
1	Zn 213.857†	37085.5	37793.8	0.4870	mg/L	0.4870	mg/L	23:50:51
2	K 766.490†	43913.3	45109.9	24.74	mg/L	24.74	mg/L	23:50:36
2	Li 670.784†	16830.3	17334.0	0.4957	mg/L	0.4957	mg/L	23:50:36
2	Na 589.592	195592.7	196405.9	23.76	mg/L	23.76	mg/L	23:50:36
2	Y 371.029	3234709.3	3234709.3	0.962	mg/L			23:51:18
2	Ag 328.068†	65242.8	70408.6	0.2448	mg/L	0.2448	mg/L	23:51:24
2	Al 237.313†	20759.5	21643.6	2.441	mg/L	2.441	mg/L	23:51:24
2	As 188.979†	361.9	371.6	0.5106	mg/L	0.5106	mg/L	23:51:44
2	B 182.528†	216.4	227.8	0.5174	mg/L	0.5174	mg/L	23:51:44
2	Ba 233.527†	56175.5	58604.3	0.4882	mg/L	0.4882	mg/L	23:51:24
2	Be 313.107†	224086.4	230854.9	0.0475	mg/L	0.0475	mg/L	23:51:18
2	Ca 315.886†	679069.5	704435.4	4.831	mg/L	4.831	mg/L	23:51:18
2	Cd 228.802†	9564.2	9831.4	0.2422	mg/L	0.2422	mg/L	23:51:44
2	Co 228.616†	17610.0	18491.9	0.4828	mg/L	0.4828	mg/L	23:51:24
2	Cr 267.716†	74038.3	75646.7	0.4903	mg/L	0.4903	mg/L	23:51:24
2	Cu 324.752†	126443.2	129581.7	0.4912	mg/L	0.4912	mg/L	23:51:24
2	Fe 234.349†	124981.0	128746.4	2.452	mg/L	2.452	mg/L	23:51:24
2	Fe 238.204†	276904.6	286874.7	2.449	mg/L	2.449	mg/L	23:51:24
2	Mg 279.077†	117744.2	121915.2	4.888	mg/L	4.888	mg/L	23:51:24

Ni 231.604†	687.4	0.0223 mg/L	0.00012	0.0223 mg/L	0.00012	0.55%
P 214.914†	7114.6	5.096 mg/L	0.0200	5.096 mg/L	0.0200	0.39%
Pb 220.353†	47.6	-0.0006 mg/L	0.00088	-0.0006 mg/L	0.00088	153.64%
Sb 206.836†	-12.8	-0.0064 mg/L	0.00126	-0.0064 mg/L	0.00126	19.63%
Se 196.026†	-0.2	0.0101 mg/L	0.00264	0.0101 mg/L	0.00264	26.07%
Sn 189.927†	-46.2	-0.0135 mg/L	0.00092	-0.0135 mg/L	0.00092	6.83%
Sr 407.771†	758223.1	0.0340 mg/L	0.00003	0.0340 mg/L	0.00003	0.08%
Ti 337.279†	458751.3	0.5794 mg/L	0.00012	0.5794 mg/L	0.00012	0.02%
Tl 190.801†	-104.2	0.0151 mg/L	0.00044	0.0151 mg/L	0.00044	2.93%
V 292.402†	8640.3	0.0178 mg/L	0.00043	0.0178 mg/L	0.00043	2.40%
Zn 213.857†	7113.1	0.0812 mg/L	0.00029	0.0812 mg/L	0.00029	0.36%

Sequence No.: 61 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 6/23/2006 11:48:54 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	44473.2	45569.3	24.99	mg/L	24.99	mg/L	23:50:31
1	Li 670.784†	16981.1	17444.0	0.4988	mg/L	0.4988	mg/L	23:50:31
1	Na 589.592	195226.5	196039.7	23.72	mg/L	23.72	mg/L	23:50:31
1	Y 371.029	3243325.9	3243325.9	0.964	mg/L			23:50:46
1	Ag 328.068†	65452.4	70445.6	0.2449	mg/L	0.2449	mg/L	23:50:51
1	Al 237.313†	20720.0	21545.3	2.430	mg/L	2.430	mg/L	23:50:51
1	As 188.979†	360.5	369.2	0.5073	mg/L	0.5073	mg/L	23:51:11
1	B 182.528†	211.6	222.2	0.5049	mg/L	0.5049	mg/L	23:51:11
1	Ba 233.527†	56529.6	58816.4	0.4900	mg/L	0.4900	mg/L	23:50:51
1	Be 313.107†	224570.3	230737.7	0.0474	mg/L	0.0474	mg/L	23:50:46
1	Ca 315.886†	680695.2	704245.4	4.830	mg/L	4.830	mg/L	23:50:46
1	Cd 228.802†	9594.0	9835.9	0.2423	mg/L	0.2423	mg/L	23:51:11
1	Co 228.616†	17664.8	18500.0	0.4830	mg/L	0.4830	mg/L	23:50:51
1	Cr 267.716†	74198.3	75608.1	0.4901	mg/L	0.4901	mg/L	23:50:51
1	Cu 324.752†	127500.2	130328.8	0.4941	mg/L	0.4941	mg/L	23:50:51
1	Fe 234.349†	125141.8	128567.8	2.448	mg/L	2.448	mg/L	23:50:51
1	Fe 238.204†	278692.3	287963.9	2.459	mg/L	2.459	mg/L	23:50:51
1	Mg 279.077†	118160.1	122021.3	4.892	mg/L	4.892	mg/L	23:50:51
1	Mn 257.610†	429478.3	443603.1	0.4856	mg/L	0.4856	mg/L	23:50:46
1	Mo 202.031†	7072.8	7299.1	0.4805	mg/L	0.4805	mg/L	23:51:11
1	Ni 231.604†	15147.6	15682.6	0.5026	mg/L	0.5026	mg/L	23:50:51
1	P 214.914†	6456.5	6653.4	4.767	mg/L	4.767	mg/L	23:51:11
1	Pb 220.353†	3935.0	4233.2	0.4777	mg/L	0.4777	mg/L	23:51:11
1	Sb 206.836†	975.5	996.7	0.4697	mg/L	0.4697	mg/L	23:51:11
1	Se 196.026†	734.8	766.2	0.9708	mg/L	0.9708	mg/L	23:51:11
1	Sn 189.927†	1850.1	1729.3	0.4519	mg/L	0.4519	mg/L	23:51:11
1	Sr 407.771†	1054937.3	1087950.6	0.0490	mg/L	0.0490	mg/L	23:50:46
1	Ti 337.279†	371185.6	386994.1	0.4889	mg/L	0.4889	mg/L	23:50:51
1	Tl 190.801†	595.3	598.0	0.5138	mg/L	0.5138	mg/L	23:51:11
1	V 292.402†	117336.9	123337.0	0.4976	mg/L	0.4976	mg/L	23:50:51
1	Zn 213.857†	37085.5	37793.8	0.4870	mg/L	0.4870	mg/L	23:50:51
2	K 766.490†	43913.3	45109.9	24.74	mg/L	24.74	mg/L	23:50:36
2	Li 670.784†	16830.3	17334.0	0.4957	mg/L	0.4957	mg/L	23:50:36
2	Na 589.592	195592.7	196405.9	23.76	mg/L	23.76	mg/L	23:50:36
2	Y 371.029	3234709.3	3234709.3	0.962	mg/L			23:51:18
2	Ag 328.068†	65242.8	70408.6	0.2448	mg/L	0.2448	mg/L	23:51:24
2	Al 237.313†	20759.5	21643.6	2.441	mg/L	2.441	mg/L	23:51:24
2	As 188.979†	361.9	371.6	0.5106	mg/L	0.5106	mg/L	23:51:44
2	B 182.528†	216.4	227.8	0.5174	mg/L	0.5174	mg/L	23:51:44
2	Ba 233.527†	56175.5	58604.3	0.4882	mg/L	0.4882	mg/L	23:51:24
2	Be 313.107†	224086.4	230854.9	0.0475	mg/L	0.0475	mg/L	23:51:18
2	Ca 315.886†	679069.5	704435.4	4.831	mg/L	4.831	mg/L	23:51:18
2	Cd 228.802†	9564.2	9831.4	0.2422	mg/L	0.2422	mg/L	23:51:44
2	Co 228.616†	17610.0	18491.9	0.4828	mg/L	0.4828	mg/L	23:51:24
2	Cr 267.716†	74038.3	75646.7	0.4903	mg/L	0.4903	mg/L	23:51:24
2	Cu 324.752†	126443.2	129581.7	0.4912	mg/L	0.4912	mg/L	23:51:24
2	Fe 234.349†	124981.0	128746.4	2.452	mg/L	2.452	mg/L	23:51:24
2	Fe 238.204†	276904.6	286874.7	2.449	mg/L	2.449	mg/L	23:51:24
2	Mg 279.077†	117744.2	121915.2	4.888	mg/L	4.888	mg/L	23:51:24

2	Mn 257.610†	428164.8	443423.7	0.4854 mg/L	0.4854 mg/L	23:51:18
2	Mo 202.031†	7089.2	7335.7	0.4829 mg/L	0.4829 mg/L	23:51:44
2	Ni 231.604†	15162.0	15739.4	0.5044 mg/L	0.5044 mg/L	23:51:24
2	P 214.914†	6446.8	6661.1	4.773 mg/L	4.773 mg/L	23:51:44
2	Pb 220.353†	3930.0	4238.8	0.4783 mg/L	0.4783 mg/L	23:51:44
2	Sb 206.836†	964.6	988.0	0.4655 mg/L	0.4655 mg/L	23:51:44
2	Se 196.026†	738.5	772.1	0.9782 mg/L	0.9782 mg/L	23:51:44
2	Sn 189.927†	1843.8	1727.8	0.4515 mg/L	0.4515 mg/L	23:51:44
2	Sr 407.771†	1053375.7	1089241.4	0.0490 mg/L	0.0490 mg/L	23:51:18
2	Ti 337.279†	370560.6	387369.7	0.4893 mg/L	0.4893 mg/L	23:51:24
2	Tl 190.801†	604.3	609.0	0.5228 mg/L	0.5228 mg/L	23:51:44
2	V 292.402†	117330.5	123654.5	0.4989 mg/L	0.4989 mg/L	23:51:24
2	Zn 213.857†	37059.9	37869.6	0.4880 mg/L	0.4880 mg/L	23:51:24

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3239017.6	0.963	mg/L	0.0018				0.19%
Ag 328.068†	70427.1	0.2448	mg/L	0.00009	0.2448	mg/L	0.00009	0.04%
QC value within limits for Ag 328.068 Recovery = 97.93%								
Al 237.313†	21594.5	2.435	mg/L	0.0079	2.435	mg/L	0.0079	0.32%
QC value within limits for Al 237.313 Recovery = 97.41%								
As 188.979†	370.4	0.5089	mg/L	0.00236	0.5089	mg/L	0.00236	0.46%
QC value within limits for As 188.979 Recovery = 101.79%								
B 182.528†	225.0	0.5112	mg/L	0.00882	0.5112	mg/L	0.00882	1.73%
QC value within limits for B 182.528 Recovery = 102.24%								
Ba 233.527†	58710.4	0.4891	mg/L	0.00125	0.4891	mg/L	0.00125	0.26%
QC value within limits for Ba 233.527 Recovery = 97.83%								
Be 313.107†	230796.3	0.0475	mg/L	0.00002	0.0475	mg/L	0.00002	0.04%
QC value within limits for Be 313.107 Recovery = 94.91%								
Ca 315.886†	704340.4	4.831	mg/L	0.0009	4.831	mg/L	0.0009	0.02%
QC value within limits for Ca 315.886 Recovery = 96.61%								
Cd 228.802†	9833.7	0.2422	mg/L	0.00009	0.2422	mg/L	0.00009	0.04%
QC value within limits for Cd 228.802 Recovery = 96.90%								
Co 228.616†	18495.9	0.4829	mg/L	0.00015	0.4829	mg/L	0.00015	0.03%
QC value within limits for Co 228.616 Recovery = 96.57%								
Cr 267.716†	75627.4	0.4902	mg/L	0.00018	0.4902	mg/L	0.00018	0.04%
QC value within limits for Cr 267.716 Recovery = 98.04%								
Cu 324.752†	129955.2	0.4927	mg/L	0.00201	0.4927	mg/L	0.00201	0.41%
QC value within limits for Cu 324.752 Recovery = 98.53%								
Fe 234.349†	128657.1	2.450	mg/L	0.0024	2.450	mg/L	0.0024	0.10%
QC value within limits for Fe 234.349 Recovery = 98.00%								
Fe 238.204†	287419.3	2.454	mg/L	0.0066	2.454	mg/L	0.0066	0.27%
QC value within limits for Fe 238.204 Recovery = 98.16%								
K 766.490†	45339.6	24.86	mg/L	0.178	24.86	mg/L	0.178	0.72%
QC value within limits for K 766.490 Recovery = 99.45%								
Li 670.784†	17389.0	0.4973	mg/L	0.00223	0.4973	mg/L	0.00223	0.45%
QC value within limits for Li 670.784 Recovery = 99.45%								
Mg 279.077†	121968.2	4.890	mg/L	0.0030	4.890	mg/L	0.0030	0.06%
QC value within limits for Mg 279.077 Recovery = 97.80%								
Mn 257.610†	443513.4	0.4855	mg/L	0.00014	0.4855	mg/L	0.00014	0.03%
QC value within limits for Mn 257.610 Recovery = 97.10%								
Mo 202.031†	7317.4	0.4817	mg/L	0.00171	0.4817	mg/L	0.00171	0.35%
QC value within limits for Mo 202.031 Recovery = 96.34%								
Na 589.592	196222.8	23.74	mg/L	0.031	23.74	mg/L	0.031	0.13%
QC value within limits for Na 589.592 Recovery = 94.95%								
Ni 231.604†	15711.0	0.5035	mg/L	0.00129	0.5035	mg/L	0.00129	0.26%
QC value within limits for Ni 231.604 Recovery = 100.70%								
P 214.914†	6657.3	4.770	mg/L	0.0039	4.770	mg/L	0.0039	0.08%
QC value within limits for P 214.914 Recovery = 95.40%								
Pb 220.353†	4236.0	0.4780	mg/L	0.00045	0.4780	mg/L	0.00045	0.09%
QC value within limits for Pb 220.353 Recovery = 95.60%								
Sb 206.836†	992.3	0.4676	mg/L	0.00297	0.4676	mg/L	0.00297	0.64%
QC value within limits for Sb 206.836 Recovery = 93.52%								
Se 196.026†	769.2	0.9745	mg/L	0.00523	0.9745	mg/L	0.00523	0.54%
QC value within limits for Se 196.026 Recovery = 97.45%								
Sn 189.927†	1728.5	0.4517	mg/L	0.00027	0.4517	mg/L	0.00027	0.06%
QC value within limits for Sn 189.927 Recovery = 90.34%								
Sr 407.771†	1088596.0	0.0490	mg/L	0.00004	0.0490	mg/L	0.00004	0.08%
QC value within limits for Sr 407.771 Recovery = 97.96%								
Ti 337.279†	387181.9	0.4891	mg/L	0.00034	0.4891	mg/L	0.00034	0.07%

QC value within limits for Ti 337.279 Recovery = 97.82%

Tl 190.801†	603.5	0.5183 mg/L	0.00639	0.5183 mg/L	0.00639	1.23%

QC value within limits for Tl 190.801 Recovery = 103.66%

V 292.402†	123495.8	0.4982 mg/L	0.00092	0.4982 mg/L	0.00092	0.18%

QC value within limits for V 292.402 Recovery = 99.65%

Zn 213.857†	37831.7	0.4875 mg/L	0.00069	0.4875 mg/L	0.00069	0.14%

QC value within limits for Zn 213.857 Recovery = 97.50%

All analyte(s) passed QC.

Sequence No.: 62
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/23/2006 11:53:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	632.9	80.7	0.0482	mg/L	0.0482	mg/L	23:54:55
1	Li 670.784†	142.3	-25.6	-0.0030	mg/L	-0.0030	mg/L	23:54:55
1	Na 589.592	-727.4	85.8	-0.0911	mg/L	-0.0911	mg/L	23:54:55
1	Y 371.029	3315989.5	3315989.5	0.986	mg/L			23:55:08
1	Ag 328.068†	-1762.6	765.5	0.0019	mg/L	0.0019	mg/L	23:55:13
1	Al 237.313†	-56.1	-3.9	0.0024	mg/L	0.0024	mg/L	23:55:34
1	As 188.979†	2.5	-2.2	-0.0001	mg/L	-0.0001	mg/L	23:55:34
1	B 182.528†	-2.0	0.6	0.0070	mg/L	0.0070	mg/L	23:55:34
1	Ba 233.527†	-160.1	17.5	-0.0002	mg/L	-0.0002	mg/L	23:55:34
1	Be 313.107†	2353.5	185.3	0.0002	mg/L	0.0002	mg/L	23:55:13
1	Ca 315.886†	1309.9	-490.7	-0.0075	mg/L	-0.0075	mg/L	23:55:13
1	Cd 228.802†	123.9	10.1	0.0002	mg/L	0.0002	mg/L	23:55:34
1	Co 228.616†	-172.1	2.3	-0.0002	mg/L	-0.0002	mg/L	23:55:34
1	Cr 267.716†	1283.9	-53.1	-0.0007	mg/L	-0.0007	mg/L	23:55:13
1	Cu 324.752†	2960.4	1080.0	0.0027	mg/L	0.0027	mg/L	23:55:13
1	Fe 234.349†	1419.8	202.4	0.0000	mg/L	0.0000	mg/L	23:55:34
1	Fe 238.204†	1352.1	256.3	-0.0032	mg/L	-0.0032	mg/L	23:55:34
1	Mg 279.077†	527.1	-8.0	-0.0117	mg/L	-0.0117	mg/L	23:55:13
1	Mn 257.610†	2041.2	188.8	-0.0023	mg/L	-0.0023	mg/L	23:55:13
1	Mo 202.031†	32.7	-4.1	-0.0001	mg/L	-0.0001	mg/L	23:55:34
1	Ni 231.604†	41.6	12.6	0.0007	mg/L	0.0007	mg/L	23:55:34
1	P 214.914†	42.2	-1.0	0.0247	mg/L	0.0247	mg/L	23:55:34
1	Pb 220.353†	-170.0	-20.9	-0.0041	mg/L	-0.0041	mg/L	23:55:34
1	Sb 206.836†	12.8	-2.2	-0.0004	mg/L	-0.0004	mg/L	23:55:34
1	Se 196.026†	-12.6	-8.7	-0.0006	mg/L	-0.0006	mg/L	23:55:34
1	Sn 189.927†	86.7	-101.8	-0.0339	mg/L	-0.0339	mg/L	23:55:34
1	Sr 407.771†	6405.1	193.6	-0.0002	mg/L	-0.0002	mg/L	23:55:08
1	Ti 337.279†	-2017.1	-72.2	0.0006	mg/L	0.0006	mg/L	23:55:13
1	Tl 190.801†	2.0	-17.5	0.0069	mg/L	0.0069	mg/L	23:55:34
1	V 292.402†	-1617.1	-13.7	0.0007	mg/L	0.0007	mg/L	23:55:13
1	Zn 213.857†	624.0	-40.8	0.0000	mg/L	0.0000	mg/L	23:55:34
2	K 766.490†	638.4	94.9	0.0560	mg/L	0.0560	mg/L	23:55:00
2	Li 670.784†	136.2	-30.0	-0.0032	mg/L	-0.0032	mg/L	23:55:00
2	Na 589.592	-729.6	83.7	-0.0914	mg/L	-0.0914	mg/L	23:55:00
2	Y 371.029	3272235.2	3272235.2	0.973	mg/L			23:55:39
2	Ag 328.068†	-1806.5	696.6	0.0016	mg/L	0.0016	mg/L	23:55:45
2	Al 237.313†	-52.1	-0.5	0.0028	mg/L	0.0028	mg/L	23:56:05
2	As 188.979†	6.2	1.7	0.0052	mg/L	0.0052	mg/L	23:56:05
2	B 182.528†	1.5	4.2	0.0151	mg/L	0.0151	mg/L	23:56:05
2	Ba 233.527†	-159.5	15.9	-0.0002	mg/L	-0.0002	mg/L	23:56:05
2	Be 313.107†	2327.7	190.7	0.0002	mg/L	0.0002	mg/L	23:55:45
2	Ca 315.886†	1498.3	-279.3	-0.0060	mg/L	-0.0060	mg/L	23:55:45
2	Cd 228.802†	136.2	24.3	0.0005	mg/L	0.0005	mg/L	23:56:05
2	Co 228.616†	-157.4	15.0	0.0002	mg/L	0.0002	mg/L	23:56:05
2	Cr 267.716†	1252.8	-67.6	-0.0008	mg/L	-0.0008	mg/L	23:55:45
2	Cu 324.752†	2934.3	1093.3	0.0027	mg/L	0.0027	mg/L	23:55:45
2	Fe 234.349†	1411.4	213.0	0.0002	mg/L	0.0002	mg/L	23:56:05
2	Fe 238.204†	1296.1	217.1	-0.0035	mg/L	-0.0035	mg/L	23:56:05
2	Mg 279.077†	501.9	-26.8	-0.0124	mg/L	-0.0124	mg/L	23:55:45
2	Mn 257.610†	2070.7	246.8	-0.0022	mg/L	-0.0022	mg/L	23:55:45
2	Mo 202.031†	32.9	-3.5	-0.0001	mg/L	-0.0001	mg/L	23:56:05
2	Ni 231.604†	44.0	15.6	0.0008	mg/L	0.0008	mg/L	23:56:05

2	P 214.914†	45.0	2.5	0.0272 mg/L	0.0272 mg/L	23:56:05
2	Pb 220.353†	-152.6	-5.4	-0.0023 mg/L	-0.0023 mg/L	23:56:05
2	Sb 206.836†	9.3	-5.6	-0.0020 mg/L	-0.0020 mg/L	23:56:05
2	Se 196.026†	-5.3	-1.4	0.0086 mg/L	0.0086 mg/L	23:56:05
2	Sn 189.927†	91.7	-95.5	-0.0322 mg/L	-0.0322 mg/L	23:56:05
2	Sr 407.771†	6219.0	89.1	-0.0002 mg/L	-0.0002 mg/L	23:55:39
2	Ti 337.279†	-2188.5	-275.8	0.0003 mg/L	0.0003 mg/L	23:55:45
2	Tl 190.801†	-6.3	-26.0	-0.0001 mg/L	-0.0001 mg/L	23:56:05
2	V 292.402†	-1570.8	11.9	0.0008 mg/L	0.0008 mg/L	23:55:45
2	Zn 213.857†	612.7	-44.0	-0.0001 mg/L	-0.0001 mg/L	23:56:05

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3294112.3	0.979	mg/L	0.0092				0.94%
Ag 328.068†	731.1	0.0017	mg/L	0.00017	0.0017	mg/L	0.00017	9.73%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	-2.2	0.0026	mg/L	0.00027	0.0026	mg/L	0.00027	10.38%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	-0.3	0.0026	mg/L	0.00374	0.0026	mg/L	0.00374	145.90%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	2.4	0.0111	mg/L	0.00571	0.0111	mg/L	0.00571	51.56%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	16.7	-0.0002	mg/L	0.00001	-0.0002	mg/L	0.00001	4.01%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	188.0	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	0.60%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	-385.0	-0.0067	mg/L	0.00103	-0.0067	mg/L	0.00103	15.20%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	17.2	0.0004	mg/L	0.00023	0.0004	mg/L	0.00023	60.80%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	8.6	0.0000	mg/L	0.00024	0.0000	mg/L	0.00024	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-60.3	-0.0007	mg/L	0.00007	-0.0007	mg/L	0.00007	9.04%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	1086.7	0.0027	mg/L	0.00004	0.0027	mg/L	0.00004	1.33%
QC value greater than the upper limit for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	207.7	0.0001	mg/L	0.00014	0.0001	mg/L	0.00014	138.06%
QC value within limits for Fe 234.349 Recovery = Not calculated								
Fe 238.204†	236.7	-0.0033	mg/L	0.00024	-0.0033	mg/L	0.00024	7.13%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	87.8	0.0521	mg/L	0.00551	0.0521	mg/L	0.00551	10.58%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	-27.8	-0.0031	mg/L	0.00009	-0.0031	mg/L	0.00009	2.84%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	-17.4	-0.0121	mg/L	0.00053	-0.0121	mg/L	0.00053	4.41%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	217.8	-0.0023	mg/L	0.00005	-0.0023	mg/L	0.00005	1.98%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-3.8	-0.0001	mg/L	0.00003	-0.0001	mg/L	0.00003	33.01%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	84.8	-0.0912	mg/L	0.00019	-0.0912	mg/L	0.00019	0.21%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	14.1	0.0007	mg/L	0.00007	0.0007	mg/L	0.00007	9.23%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 214.914†	0.8	0.0259	mg/L	0.00176	0.0259	mg/L	0.00176	6.77%
QC value within limits for P 214.914 Recovery = Not calculated								
Pb 220.353†	-13.1	-0.0032	mg/L	0.00124	-0.0032	mg/L	0.00124	38.86%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-3.9	-0.0012	mg/L	0.00116	-0.0012	mg/L	0.00116	98.82%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-5.1	0.0040	mg/L	0.00646	0.0040	mg/L	0.00646	160.87%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-98.7	-0.0331	mg/L	0.00119	-0.0331	mg/L	0.00119	3.59%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated								
Sr 407.771†	141.3	-0.0002	mg/L	0.00000	-0.0002	mg/L	0.00000	1.47%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Ti 337.279†	-174.0	0.0005	mg/L	0.00018	0.0005	mg/L	0.00018	38.61%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801†	-21.7	0.0034	mg/L	0.00493	0.0034	mg/L	0.00493	143.82%
QC value within limits for Tl 190.801 Recovery = Not calculated								

V 292.402†	-0.9	0.0007 mg/L	0.00007	0.0007 mg/L	0.00007	10.06%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-42.4	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	78.49%
QC value within limits for Zn 213.857 Recovery = Not calculated						

QC Failed. Continue with analysis.

Sequence No.: 63
Sample ID: 0606374-05
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 49
Date Collected: 6/23/2006 11:57:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606374-05

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	4955.8	4458.4	2.448	mg/L	2.448	mg/L	23:59:18
1	Li 670.784†	1836.4	1690.1	0.0462	mg/L	0.0462	mg/L	23:59:18
1	Na 589.592	41439.3	42252.5	5.032	mg/L	5.032	mg/L	23:59:18
1	Y 371.029	3321274.3	3321274.3	0.987	mg/L			23:59:36
1	Ag 328.068†	-2221.4	303.7	0.0026	mg/L	0.0026	mg/L	23:59:41
1	Al 237.313†	167663.5	169883.8	18.95	mg/L	18.95	mg/L	23:59:41
1	As 188.979†	140.7	137.8	0.1903	mg/L	0.1903	mg/L	00:00:01
1	B 182.528†	-3.5	-0.8	0.0037	mg/L	0.0037	mg/L	00:00:01
1	Ba 233.527†	17366.0	17770.5	0.1478	mg/L	0.1478	mg/L	23:59:41
1	Be 313.107†	9273.8	7191.2	0.0005	mg/L	0.0005	mg/L	23:59:41
1	Ca 315.886†	1080509.9	1092657.2	7.493	mg/L	7.493	mg/L	23:59:36
1	Cd 228.802†	338.5	227.2	0.0051	mg/L	0.0051	mg/L	00:00:01
1	Co 228.616†	1041.4	1231.6	0.0292	mg/L	0.0292	mg/L	00:00:01
1	Cr 267.716†	7810.9	6556.3	0.0449	mg/L	0.0449	mg/L	23:59:41
1	Cu 324.752†	22056.2	20417.9	0.0876	mg/L	0.0876	mg/L	23:59:41
1	Fe 234.349†	2988204.4	3025592.6	57.83	mg/L	57.83	mg/L	23:59:36
1	Fe 238.204†	6519136.7	6602289.5	56.47	mg/L	56.47	mg/L	23:59:36
1	Mg 279.077†	156631.7	158113.6	6.327	mg/L	6.327	mg/L	23:59:41
1	Mn 257.610†	1054999.3	1066754.4	1.171	mg/L	1.171	mg/L	23:59:36
1	Mo 202.031†	149.5	114.1	0.0077	mg/L	0.0077	mg/L	00:00:01
1	Ni 231.604†	3171.9	3183.3	0.1022	mg/L	0.1022	mg/L	23:59:41
1	P 214.914†	5910.5	5943.1	4.261	mg/L	4.261	mg/L	00:00:01
1	Pb 220.353†	398.6	555.2	0.0619	mg/L	0.0619	mg/L	00:00:01
1	Sb 206.836†	13.0	-2.0	-0.0024	mg/L	-0.0024	mg/L	00:00:01
1	Se 196.026†	-6.6	-2.6	0.0071	mg/L	0.0071	mg/L	00:00:01
1	Sn 189.927†	146.5	-41.4	-0.0142	mg/L	-0.0142	mg/L	00:00:01
1	Sr 407.771†	824068.6	828416.1	0.0372	mg/L	0.0372	mg/L	23:59:36
1	Ti 337.279†	1013756.0	1028834.3	1.298	mg/L	1.298	mg/L	23:59:36
1	Tl 190.801†	-18.1	-37.8	0.0077	mg/L	0.0077	mg/L	00:00:01
1	V 292.402†	11294.4	13067.3	0.0436	mg/L	0.0436	mg/L	23:59:41
1	Zn 213.857†	15626.1	15154.1	0.1913	mg/L	0.1913	mg/L	23:59:41
2	K 766.490†	4949.6	4447.5	2.442	mg/L	2.442	mg/L	23:59:24
2	Li 670.784†	1821.5	1673.3	0.0458	mg/L	0.0458	mg/L	23:59:24
2	Na 589.592	41313.1	42126.3	5.017	mg/L	5.017	mg/L	23:59:24
2	Y 371.029	3324362.9	3324362.9	0.988	mg/L			00:00:10
2	Ag 328.068†	-2152.2	375.8	0.0028	mg/L	0.0028	mg/L	00:00:16
2	Al 237.313†	166311.5	168357.8	18.78	mg/L	18.78	mg/L	00:00:16
2	As 188.979†	141.5	138.5	0.1913	mg/L	0.1913	mg/L	00:00:36
2	B 182.528†	-3.6	-1.0	0.0035	mg/L	0.0035	mg/L	00:00:36
2	Ba 233.527†	17263.9	17650.8	0.1468	mg/L	0.1468	mg/L	00:00:16
2	Be 313.107†	9404.3	7314.6	0.0005	mg/L	0.0005	mg/L	00:00:16
2	Ca 315.886†	1083331.8	1094496.1	7.505	mg/L	7.505	mg/L	00:00:10
2	Cd 228.802†	349.9	238.4	0.0053	mg/L	0.0053	mg/L	00:00:36
2	Co 228.616†	1070.9	1260.6	0.0300	mg/L	0.0300	mg/L	00:00:36
2	Cr 267.716†	7729.7	6466.8	0.0443	mg/L	0.0443	mg/L	00:00:16
2	Cu 324.752†	21947.3	20286.9	0.0871	mg/L	0.0871	mg/L	00:00:16
2	Fe 234.349†	2983453.5	3017972.7	57.69	mg/L	57.69	mg/L	00:00:10
2	Fe 238.204†	6520213.1	6597243.7	56.43	mg/L	56.43	mg/L	00:00:10
2	Mg 279.077†	155370.6	156690.0	6.270	mg/L	6.270	mg/L	00:00:16
2	Mn 257.610†	1056673.4	1067455.7	1.172	mg/L	1.172	mg/L	00:00:10
2	Mo 202.031†	139.6	104.0	0.0070	mg/L	0.0070	mg/L	00:00:36
2	Ni 231.604†	3192.6	3201.3	0.1027	mg/L	0.1027	mg/L	00:00:16
2	P 214.914†	5950.3	5977.9	4.286	mg/L	4.286	mg/L	00:00:36
2	Pb 220.353†	384.5	540.6	0.0603	mg/L	0.0603	mg/L	00:00:36
2	Sb 206.836†	14.7	-0.3	-0.0016	mg/L	-0.0016	mg/L	00:00:36

2	Se 196.026†	-5.6	-1.6	0.0083 mg/L	0.0083 mg/L	00:00:36
2	Sn 189.927†	153.7	-34.3	-0.0124 mg/L	-0.0124 mg/L	00:00:36
2	Sr 407.771†	826683.7	830287.0	0.0373 mg/L	0.0373 mg/L	00:00:10
2	Ti 337.279†	1015896.2	1030046.1	1.300 mg/L	1.300 mg/L	00:00:10
2	Tl 190.801†	-22.9	-42.6	0.0037 mg/L	0.0037 mg/L	00:00:36
2	V 292.402†	11202.3	12963.4	0.0432 mg/L	0.0432 mg/L	00:00:16
2	Zn 213.857†	15523.9	15036.0	0.1897 mg/L	0.1897 mg/L	00:00:16

Mean Data: 0606374-05

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3322818.6	0.988	mg/L	0.0006				0.07%
Ag 328.068†	339.7	0.0027	mg/L	0.00017	0.0027	mg/L	0.00017	6.39%
Al 237.313†	169120.8	18.87	mg/L	0.122	18.87	mg/L	0.122	0.64%
As 188.979†	138.2	0.1908	mg/L	0.00068	0.1908	mg/L	0.00068	0.36%
B 182.528†	-0.9	0.0036	mg/L	0.00020	0.0036	mg/L	0.00020	5.61%
Ba 233.527†	17710.6	0.1473	mg/L	0.00071	0.1473	mg/L	0.00071	0.48%
Be 313.107†	7252.9	0.0005	mg/L	0.00002	0.0005	mg/L	0.00002	3.02%
Ca 315.886†	1093576.6	7.499	mg/L	0.0089	7.499	mg/L	0.0089	0.12%
Cd 228.802†	232.8	0.0052	mg/L	0.00019	0.0052	mg/L	0.00019	3.72%
Co 228.616†	1246.1	0.0296	mg/L	0.00053	0.0296	mg/L	0.00053	1.80%
Cr 267.716†	6511.5	0.0446	mg/L	0.00042	0.0446	mg/L	0.00042	0.94%
Cu 324.752†	20352.4	0.0873	mg/L	0.00037	0.0873	mg/L	0.00037	0.42%
Fe 234.349†	3021782.7	57.76	mg/L	0.103	57.76	mg/L	0.103	0.18%
Fe 238.204†	6599766.6	56.45	mg/L	0.031	56.45	mg/L	0.031	0.05%
K 766.490†	4453.0	2.445	mg/L	0.0043	2.445	mg/L	0.0043	0.17%
Li 670.784†	1681.7	0.0460	mg/L	0.00034	0.0460	mg/L	0.00034	0.74%
Mg 279.077†	157401.8	6.298	mg/L	0.0404	6.298	mg/L	0.0404	0.64%
Mn 257.610†	1067105.1	1.171	mg/L	0.0005	1.171	mg/L	0.0005	0.05%
Mo 202.031†	109.1	0.0073	mg/L	0.00047	0.0073	mg/L	0.00047	6.39%
Na 589.592	42189.4	5.024	mg/L	0.0108	5.024	mg/L	0.0108	0.22%
Ni 231.604†	3192.3	0.1025	mg/L	0.00041	0.1025	mg/L	0.00041	0.40%
P 214.914†	5960.5	4.273	mg/L	0.0175	4.273	mg/L	0.0175	0.41%
Pb 220.353†	547.9	0.0611	mg/L	0.00119	0.0611	mg/L	0.00119	1.95%
Sb 206.836†	-1.2	-0.0020	mg/L	0.00058	-0.0020	mg/L	0.00058	29.00%
Se 196.026†	-2.1	0.0077	mg/L	0.00087	0.0077	mg/L	0.00087	11.33%
Sn 189.927†	-37.9	-0.0133	mg/L	0.00134	-0.0133	mg/L	0.00134	10.05%
Sr 407.771†	829351.6	0.0373	mg/L	0.00006	0.0373	mg/L	0.00006	0.16%
Ti 337.279†	1029440.2	1.299	mg/L	0.0011	1.299	mg/L	0.0011	0.08%
Tl 190.801†	-40.2	0.0057	mg/L	0.00281	0.0057	mg/L	0.00281	49.21%
V 292.402†	13015.4	0.0434	mg/L	0.00029	0.0434	mg/L	0.00029	0.66%
Zn 213.857†	15095.1	0.1905	mg/L	0.00107	0.1905	mg/L	0.00107	0.56%

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Sequence No.: 64
Sample ID: 0606374-06
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 6/24/2006 12:02:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606374-06

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	9300.2	8892.9	4.880	mg/L	4.880	mg/L	00:03:50
1	Li 670.784†	2302.7	2170.8	0.0601	mg/L	0.0601	mg/L	00:03:50
1	Na 589.592	41171.2	41984.4	4.999	mg/L	4.999	mg/L	00:03:50
1	Y 371.029	3309362.8	3309362.8	0.984	mg/L			00:04:07
1	Ag 328.068†	-2311.3	204.2	0.0019	mg/L	0.0019	mg/L	00:04:12
1	Al 237.313†	223607.1	227365.8	25.48	mg/L	25.48	mg/L	00:04:12
1	As 188.979†	17.7	13.3	0.0192	mg/L	0.0192	mg/L	00:04:33
1	B 182.528†	5.8	8.6	0.0249	mg/L	0.0249	mg/L	00:04:33
1	Ba 233.527†	16534.0	16988.0	0.1412	mg/L	0.1412	mg/L	00:04:12
1	Be 313.107†	10631.9	8605.6	0.0000	mg/L	0.0000	mg/L	00:04:12
1	Ca 315.886†	979333.6	993743.5	6.814	mg/L	6.814	mg/L	00:04:07
1	Cd 228.802†	142.0	28.7	0.0011	mg/L	0.0011	mg/L	00:04:33
1	Co 228.616†	1070.0	1264.6	0.0286	mg/L	0.0286	mg/L	00:04:33
1	Cr 267.716†	7817.4	6591.3	0.0447	mg/L	0.0447	mg/L	00:04:12
1	Cu 324.752†	16792.8	15147.7	0.0668	mg/L	0.0668	mg/L	00:04:12
1	Fe 234.349†	2597976.7	2639792.6	50.46	mg/L	50.46	mg/L	00:04:07
1	Fe 238.204†	5683598.6	5776672.5	49.41	mg/L	49.41	mg/L	00:04:07

1	Mg 279.077†	275847.9	279876.6	11.22 mg/L	11.22 mg/L	00:04:12
1	Mn 257.610†	1066135.0	1081921.0	1.188 mg/L	1.188 mg/L	00:04:07
1	Mo 202.031†	80.0	44.0	0.0031 mg/L	0.0031 mg/L	00:04:33
1	Ni 231.604†	5499.9	5561.4	0.1782 mg/L	0.1782 mg/L	00:04:12
1	P 214.914†	6276.5	6336.7	4.541 mg/L	4.541 mg/L	00:04:12
1	Pb 220.353†	7.7	159.3	0.0189 mg/L	0.0189 mg/L	00:04:33
1	Sb 206.836†	20.3	5.4	0.0005 mg/L	0.0005 mg/L	00:04:33
1	Se 196.026†	-5.7	-1.7	0.0082 mg/L	0.0082 mg/L	00:04:33
1	Sn 189.927†	164.8	-22.2	-0.0088 mg/L	-0.0088 mg/L	00:04:33
1	Sr 407.771†	543757.4	546463.9	0.0245 mg/L	0.0245 mg/L	00:04:07
1	Ti 337.279†	1529021.0	1556334.3	1.964 mg/L	1.964 mg/L	00:04:07
1	Tl 190.801†	-19.5	-39.3	0.0055 mg/L	0.0055 mg/L	00:04:33
1	V 292.402†	14268.4	16131.7	0.0558 mg/L	0.0558 mg/L	00:04:12
1	Zn 213.857†	26402.9	26166.5	0.3342 mg/L	0.3342 mg/L	00:04:12
2	K 766.490†	9349.0	8956.6	4.915 mg/L	4.915 mg/L	00:03:55
2	Li 670.784†	2270.5	2141.5	0.0592 mg/L	0.0592 mg/L	00:03:55
2	Na 589.592	41288.5	42101.7	5.014 mg/L	5.014 mg/L	00:03:55
2	Y 371.029	3304455.0	3304455.0	0.982 mg/L		00:04:42
2	Ag 328.068†	-2450.6	58.9	0.0014 mg/L	0.0014 mg/L	00:04:47
2	Al 237.313†	227233.7	231395.6	25.94 mg/L	25.94 mg/L	00:04:47
2	As 188.979†	18.6	14.2	0.0205 mg/L	0.0205 mg/L	00:05:07
2	B 182.528†	3.0	5.7	0.0185 mg/L	0.0185 mg/L	00:05:07
2	Ba 233.527†	16732.2	17214.7	0.1431 mg/L	0.1431 mg/L	00:04:47
2	Be 313.107†	11006.6	9003.1	0.0001 mg/L	0.0001 mg/L	00:04:47
2	Ca 315.886†	977679.2	993537.8	6.813 mg/L	6.813 mg/L	00:04:42
2	Cd 228.802†	138.3	25.2	0.0010 mg/L	0.0010 mg/L	00:05:07
2	Co 228.616†	1070.6	1266.8	0.0287 mg/L	0.0287 mg/L	00:05:07
2	Cr 267.716†	7741.1	6525.5	0.0443 mg/L	0.0443 mg/L	00:04:47
2	Cu 324.752†	16956.3	15339.4	0.0676 mg/L	0.0676 mg/L	00:04:47
2	Fe 234.349†	2598607.6	2644357.4	50.54 mg/L	50.54 mg/L	00:04:42
2	Fe 238.204†	5682302.5	5783934.3	49.47 mg/L	49.47 mg/L	00:04:42
2	Mg 279.077†	280639.3	285171.0	11.43 mg/L	11.43 mg/L	00:04:47
2	Mn 257.610†	1064617.7	1081986.0	1.188 mg/L	1.188 mg/L	00:04:42
2	Mo 202.031†	87.9	52.1	0.0036 mg/L	0.0036 mg/L	00:05:07
2	Ni 231.604†	5563.2	5634.2	0.1806 mg/L	0.1806 mg/L	00:04:47
2	P 214.914†	6374.3	6445.8	4.619 mg/L	4.619 mg/L	00:04:47
2	Pb 220.353†	18.6	170.5	0.0202 mg/L	0.0202 mg/L	00:05:07
2	Sb 206.836†	10.9	-4.1	-0.0041 mg/L	-0.0041 mg/L	00:05:07
2	Se 196.026†	-7.9	-4.0	0.0053 mg/L	0.0053 mg/L	00:05:07
2	Sn 189.927†	144.9	-42.3	-0.0141 mg/L	-0.0141 mg/L	00:05:07
2	Sr 407.771†	543297.6	546816.8	0.0245 mg/L	0.0245 mg/L	00:04:42
2	Ti 337.279†	1528607.8	1558222.3	1.966 mg/L	1.966 mg/L	00:04:42
2	Tl 190.801†	-22.9	-42.8	0.0027 mg/L	0.0027 mg/L	00:05:07
2	V 292.402†	14519.7	16409.1	0.0569 mg/L	0.0569 mg/L	00:04:47
2	Zn 213.857†	26736.2	26545.7	0.3390 mg/L	0.3390 mg/L	00:04:47

Mean Data: 0606374-06

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3306908.9	0.983	mg/L	0.0010				0.10%
Ag 328.068†	131.5	0.0017	mg/L	0.00035	0.0017	mg/L	0.00035	20.95%
Al 237.313†	229380.7	25.71	mg/L	0.322	25.71	mg/L	0.322	1.25%
As 188.979†	13.8	0.0199	mg/L	0.00093	0.0199	mg/L	0.00093	4.70%
B 182.528†	7.2	0.0217	mg/L	0.00453	0.0217	mg/L	0.00453	20.86%
Ba 233.527†	17101.3	0.1422	mg/L	0.00134	0.1422	mg/L	0.00134	0.94%
Be 313.107†	8804.4	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	77.58%
Ca 315.886†	993640.7	6.813	mg/L	0.0010	6.813	mg/L	0.0010	0.01%
Cd 228.802†	26.9	0.0011	mg/L	0.00007	0.0011	mg/L	0.00007	6.17%
Co 228.616†	1265.7	0.0287	mg/L	0.00004	0.0287	mg/L	0.00004	0.13%
Cr 267.716†	6558.4	0.0445	mg/L	0.00030	0.0445	mg/L	0.00030	0.67%
Cu 324.752†	15243.6	0.0672	mg/L	0.00053	0.0672	mg/L	0.00053	0.78%
Fe 234.349†	2642075.0	50.50	mg/L	0.062	50.50	mg/L	0.062	0.12%
Fe 238.204†	5780303.4	49.44	mg/L	0.044	49.44	mg/L	0.044	0.09%
K 766.490†	8924.8	4.897	mg/L	0.0247	4.897	mg/L	0.0247	0.50%
Li 670.784†	2156.1	0.0596	mg/L	0.00060	0.0596	mg/L	0.00060	1.00%
Mg 279.077†	282523.8	11.33	mg/L	0.150	11.33	mg/L	0.150	1.33%
Mn 257.610†	1081953.5	1.188	mg/L	0.0001	1.188	mg/L	0.0001	0.00%
Mo 202.031†	48.1	0.0033	mg/L	0.00038	0.0033	mg/L	0.00038	11.40%
Na 589.592	42043.0	5.007	mg/L	0.0101	5.007	mg/L	0.0101	0.20%
Ni 231.604†	5597.8	0.1794	mg/L	0.00165	0.1794	mg/L	0.00165	0.92%
P 214.914†	6391.3	4.580	mg/L	0.0550	4.580	mg/L	0.0550	1.20%

Pb 220.353†	164.9	0.0195 mg/L	0.00096	0.0195 mg/L	0.00096	4.89%
Sb 206.836†	0.6	-0.0018 mg/L	0.00325	-0.0018 mg/L	0.00325	180.94%
Se 196.026†	-2.9	0.0068 mg/L	0.00202	0.0068 mg/L	0.00202	29.89%
Sn 189.927†	-32.3	-0.0114 mg/L	0.00375	-0.0114 mg/L	0.00375	32.84%
Sr 407.771†	546640.4	0.0245 mg/L	0.00001	0.0245 mg/L	0.00001	0.05%
Ti 337.279†	1557278.3	1.965 mg/L	0.0017	1.965 mg/L	0.0017	0.09%
Tl 190.801†	-41.0	0.0041 mg/L	0.00200	0.0041 mg/L	0.00200	48.60%
V 292.402†	16270.4	0.0563 mg/L	0.00078	0.0563 mg/L	0.00078	1.38%
Zn 213.857†	26356.1	0.3366 mg/L	0.00345	0.3366 mg/L	0.00345	1.03%

Sequence No.: 65
Sample ID: 0606374-07
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 51
Date Collected: 6/24/2006 12:06:47 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606374-07

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	7764.1	7255.9	3.982	mg/L	3.982	mg/L	00:08:26
1	Li 670.784†	2278.9	2124.5	0.0587	mg/L	0.0587	mg/L	00:08:26
1	Na 589.592	52637.5	53450.7	6.392	mg/L	6.392	mg/L	00:08:26
1	Y 371.029	3341309.3	3341309.3	0.993	mg/L			00:08:51
1	Ag 328.068†	203511.8	207460.2	0.7264	mg/L	0.7264	mg/L	00:08:56
1	Al 237.313†	443367.3	446458.6	49.94	mg/L	49.94	mg/L	00:08:51
1	As 188.979†	78.9	74.8	0.1025	mg/L	0.1025	mg/L	00:09:17
1	B 182.528†	-9.3	-6.7	-0.0094	mg/L	-0.0094	mg/L	00:09:17
1	Ba 233.527†	102148.0	103028.0	0.8585	mg/L	0.8585	mg/L	00:08:56
1	Be 313.107†	20896.7	18837.4	0.0027	mg/L	0.0027	mg/L	00:08:56
1	Ca 315.886†	4212845.7	4239895.0	29.09	mg/L	29.09	mg/L	00:08:44
1	Cd 228.802†	1109.5	1001.4	0.0254	mg/L	0.0254	mg/L	00:09:17
1	Co 228.616†	2375.6	2568.7	0.0617	mg/L	0.0617	mg/L	00:09:17
1	Cr 267.716†	382480.5	383745.9	2.496	mg/L	2.496	mg/L	00:08:51
1	Cu 324.752†	2363176.1	2377446.5	9.049	mg/L	9.049	mg/L	00:08:51
1	Fe 234.349†	6351681.8	6393969.3	122.2	mg/L	122.2	mg/L	00:08:44
1	Fe 238.204†	13379059.8	13469625.8	115.2	mg/L	115.2	mg/L	00:08:44
1	Mg 279.077†	268138.8	269433.5	10.80	mg/L	10.80	mg/L	00:08:56
1	Mn 257.610†	3274406.6	3294962.8	3.622	mg/L	3.622	mg/L	00:08:51
1	Mo 202.031†	339.7	304.8	0.0202	mg/L	0.0202	mg/L	00:09:17
1	Ni 231.604†	17847.8	17940.5	0.5743	mg/L	0.5743	mg/L	00:08:56
1	P 214.914†	18713.1	18797.6	13.42	mg/L	13.42	mg/L	00:08:56
1	Pb 220.353†	29446.3	29799.6	3.366	mg/L	3.366	mg/L	00:08:56
1	Sb 206.836†	131.0	116.7	0.0056	mg/L	0.0056	mg/L	00:09:17
1	Se 196.026†	2.9	6.9	0.0190	mg/L	0.0190	mg/L	00:09:17
1	Sn 189.927†	1961.4	1785.1	0.4735	mg/L	0.4735	mg/L	00:09:17
1	Sr 407.771†	4349124.9	4372623.1	0.1975	mg/L	0.1975	mg/L	00:08:44
1	Ti 337.279†	1920514.6	1935649.4	2.442	mg/L	2.442	mg/L	00:08:51
1	Tl 190.801†	-42.2	-62.0	0.0262	mg/L	0.0262	mg/L	00:09:17
1	V 292.402†	103995.7	106335.2	0.4026	mg/L	0.4026	mg/L	00:08:56
1	Zn 213.857†	554185.4	557309.0	7.198	mg/L	7.198	mg/L	00:08:51
2	K 766.490†	7874.2	7267.1	3.988	mg/L	3.988	mg/L	00:08:31
2	Li 670.784†	2338.2	2154.6	0.0596	mg/L	0.0596	mg/L	00:08:31
2	Na 589.592	53623.6	54436.8	6.512	mg/L	6.512	mg/L	00:08:31
2	Y 371.029	3383853.7	3383853.7	1.01	mg/L			00:09:33
2	Ag 328.068†	204813.4	206178.0	0.7219	mg/L	0.7219	mg/L	00:09:39
2	Al 237.313†	449079.6	446525.1	49.95	mg/L	49.95	mg/L	00:09:33
2	As 188.979†	72.6	67.5	0.0925	mg/L	0.0925	mg/L	00:09:59
2	B 182.528†	-8.2	-5.5	-0.0067	mg/L	-0.0067	mg/L	00:09:59
2	Ba 233.527†	103896.4	103473.1	0.8622	mg/L	0.8622	mg/L	00:09:39
2	Be 313.107†	21114.2	18789.1	0.0026	mg/L	0.0026	mg/L	00:09:39
2	Ca 315.886†	4212048.2	4185772.1	28.72	mg/L	28.72	mg/L	00:09:26
2	Cd 228.802†	1094.7	972.7	0.0247	mg/L	0.0247	mg/L	00:09:59
2	Co 228.616†	2342.6	2505.9	0.0600	mg/L	0.0600	mg/L	00:09:59
2	Cr 267.716†	388332.5	384722.2	2.502	mg/L	2.502	mg/L	00:09:33
2	Cu 324.752†	2407909.5	2392005.0	9.104	mg/L	9.104	mg/L	00:09:33
2	Fe 234.349†	6376792.4	6338528.7	121.2	mg/L	121.2	mg/L	00:09:26
2	Fe 238.204†	13412163.1	13333172.5	114.1	mg/L	114.1	mg/L	00:09:26
2	Mg 279.077†	272846.7	270719.7	10.85	mg/L	10.85	mg/L	00:09:39
2	Mn 257.610†	3319475.9	3298319.9	3.626	mg/L	3.626	mg/L	00:09:33
2	Mo 202.031†	317.7	278.6	0.0185	mg/L	0.0185	mg/L	00:09:59

2	Ni 231.604†	18263.0	18127.4	0.5803 mg/L	0.5803 mg/L	00:09:39
2	P 214.914†	19153.3	18998.4	13.56 mg/L	13.56 mg/L	00:09:39
2	Pb 220.353†	29956.3	29933.9	3.381 mg/L	3.381 mg/L	00:09:39
2	Sb 206.836†	126.0	110.1	0.0024 mg/L	0.0024 mg/L	00:09:59
2	Se 196.026†	8.4	12.4	0.0260 mg/L	0.0260 mg/L	00:09:59
2	Sn 189.927†	1952.7	1751.6	0.4646 mg/L	0.4646 mg/L	00:09:59
2	Sr 407.771†	4352728.4	4321150.5	0.1951 mg/L	0.1951 mg/L	00:09:26
2	Ti 337.279†	1945639.4	1936316.7	2.443 mg/L	2.443 mg/L	00:09:33
2	Tl 190.801†	-58.1	-77.3	0.0137 mg/L	0.0137 mg/L	00:09:59
2	V 292.402†	105728.7	106741.7	0.4043 mg/L	0.4043 mg/L	00:09:39
2	Zn 213.857†	561823.4	557887.3	7.206 mg/L	7.206 mg/L	00:09:33

Mean Data: 0606374-07

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3362581.5	1.000	mg/L	0.0089				0.89%
Ag 328.068†	206819.1	0.7242	mg/L	0.00319	0.7242	mg/L	0.00319	0.44%
Al 237.313†	446491.9	49.94	mg/L	0.009	49.94	mg/L	0.009	0.02%
As 188.979†	71.1	0.0975	mg/L	0.00706	0.0975	mg/L	0.00706	7.24%
B 182.528†	-6.1	-0.0081	mg/L	0.00194	-0.0081	mg/L	0.00194	23.97%
Ba 233.527†	103250.5	0.8604	mg/L	0.00262	0.8604	mg/L	0.00262	0.30%
Be 313.107†	18813.3	0.0027	mg/L	0.00001	0.0027	mg/L	0.00001	0.42%
Ca 315.886†	4212833.6	28.90	mg/L	0.263	28.90	mg/L	0.263	0.91%
Cd 228.802†	987.0	0.0250	mg/L	0.00047	0.0250	mg/L	0.00047	1.88%
Co 228.616†	2537.3	0.0609	mg/L	0.00117	0.0609	mg/L	0.00117	1.92%
Cr 267.716†	384234.0	2.499	mg/L	0.0044	2.499	mg/L	0.0044	0.18%
Cu 324.752†	2384725.7	9.076	mg/L	0.0389	9.076	mg/L	0.0389	0.43%
Fe 234.349†	6366249.0	121.7	mg/L	0.75	121.7	mg/L	0.75	0.62%
Fe 238.204†	13401399.1	114.6	mg/L	0.83	114.6	mg/L	0.83	0.72%
K 766.490†	7261.5	3.985	mg/L	0.0043	3.985	mg/L	0.0043	0.11%
Li 670.784†	2139.5	0.0592	mg/L	0.00061	0.0592	mg/L	0.00061	1.03%
Mg 279.077†	270076.6	10.82	mg/L	0.037	10.82	mg/L	0.037	0.34%
Mn 257.610†	3296641.3	3.624	mg/L	0.0026	3.624	mg/L	0.0026	0.07%
Mo 202.031†	291.7	0.0194	mg/L	0.00122	0.0194	mg/L	0.00122	6.30%
Na 589.592	53943.8	6.452	mg/L	0.0847	6.452	mg/L	0.0847	1.31%
Ni 231.604†	18033.9	0.5773	mg/L	0.00423	0.5773	mg/L	0.00423	0.73%
P 214.914†	18898.0	13.49	mg/L	0.101	13.49	mg/L	0.101	0.75%
Pb 220.353†	29866.7	3.374	mg/L	0.0107	3.374	mg/L	0.0107	0.32%
Sb 206.836†	113.4	0.0040	mg/L	0.00232	0.0040	mg/L	0.00232	58.11%
Se 196.026†	9.7	0.0225	mg/L	0.00490	0.0225	mg/L	0.00490	21.77%
Sn 189.927†	1768.3	0.4690	mg/L	0.00630	0.4690	mg/L	0.00630	1.34%
Sr 407.771†	4346886.8	0.1963	mg/L	0.00165	0.1963	mg/L	0.00165	0.84%
Ti 337.279†	1935983.0	2.443	mg/L	0.0006	2.443	mg/L	0.0006	0.02%
Tl 190.801†	-69.6	0.0199	mg/L	0.00883	0.0199	mg/L	0.00883	44.36%
V 292.402†	106538.5	0.4034	mg/L	0.00121	0.4034	mg/L	0.00121	0.30%
Zn 213.857†	557598.2	7.202	mg/L	0.0053	7.202	mg/L	0.0053	0.07%

Sequence No.: 66
Sample ID: 0606374-08
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 52
Date Collected: 6/24/2006 12:11:38 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606374-08

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	8199.4	7754.8	4.256	mg/L	4.256	mg/L	00:13:16
1	Li 670.784†	2720.8	2589.5	0.0721	mg/L	0.0721	mg/L	00:13:16
1	Na 589.592	42809.7	43623.0	5.198	mg/L	5.198	mg/L	00:13:16
1	Y 371.029	3316964.8	3316964.8	0.986	mg/L			00:13:33
1	Ag 328.068†	-1768.3	760.4	0.0038	mg/L	0.0038	mg/L	00:13:38
1	Al 237.313†	252050.5	255693.4	28.70	mg/L	28.70	mg/L	00:13:38
1	As 188.979†	75.7	72.1	0.0996	mg/L	0.0996	mg/L	00:13:59
1	B 182.528†	1.1	3.9	0.0143	mg/L	0.0143	mg/L	00:13:59
1	Ba 233.527†	30816.5	31435.3	0.2617	mg/L	0.2617	mg/L	00:13:38
1	Be 313.107†	7805.3	5714.0	-0.0007	mg/L	-0.0007	mg/L	00:13:38
1	Ca 315.886†	1377186.7	1394981.3	9.567	mg/L	9.567	mg/L	00:13:33
1	Cd 228.802†	236.1	123.8	0.0029	mg/L	0.0029	mg/L	00:13:59
1	Co 228.616†	795.6	983.7	0.0210	mg/L	0.0210	mg/L	00:13:59

1	Cr 267.716†	9413.6	8192.1	0.0551 mg/L	0.0551 mg/L	00:13:38
1	Cu 324.752†	12986.1	11247.6	0.0516 mg/L	0.0516 mg/L	00:13:38
1	Fe 234.349†	2448306.7	2481938.2	47.44 mg/L	47.44 mg/L	00:13:33
1	Fe 238.204†	5356082.8	5431250.3	46.46 mg/L	46.46 mg/L	00:13:33
1	Mg 279.077†	268325.9	271604.7	10.88 mg/L	10.88 mg/L	00:13:38
1	Mn 257.610†	810368.8	820028.2	0.8996 mg/L	0.8996 mg/L	00:13:33
1	Mo 202.031†	124.9	89.4	0.0060 mg/L	0.0060 mg/L	00:13:59
1	Ni 231.604†	1519.8	1511.9	0.0487 mg/L	0.0487 mg/L	00:13:38
1	P 214.914†	6570.8	6620.7	4.744 mg/L	4.744 mg/L	00:13:38
1	Pb 220.353†	83.2	235.9	0.0284 mg/L	0.0284 mg/L	00:13:59
1	Sb 206.836†	17.0	2.1	-0.0015 mg/L	-0.0015 mg/L	00:13:59
1	Se 196.026†	-5.9	-1.9	0.0080 mg/L	0.0080 mg/L	00:13:59
1	Sn 189.927†	134.1	-53.8	-0.0171 mg/L	-0.0171 mg/L	00:13:59
1	Sr 407.771†	1299748.9	1311955.7	0.0591 mg/L	0.0591 mg/L	00:13:33
1	Ti 337.279†	1644619.8	1670017.2	2.107 mg/L	2.107 mg/L	00:13:33
1	Tl 190.801†	-7.5	-27.1	0.0104 mg/L	0.0104 mg/L	00:13:59
1	V 292.402†	11439.6	13229.4	0.0445 mg/L	0.0445 mg/L	00:13:38
1	Zn 213.857†	12430.1	11933.2	0.1512 mg/L	0.1512 mg/L	00:13:38
2	K 766.490†	8080.7	7654.7	4.201 mg/L	4.201 mg/L	00:13:21
2	Li 670.784†	2756.8	2633.0	0.0733 mg/L	0.0733 mg/L	00:13:21
2	Na 589.592	42592.2	43405.4	5.172 mg/L	5.172 mg/L	00:13:21
2	Y 371.029	3308750.0	3308750.0	0.984 mg/L		00:14:08
2	Ag 328.068†	-1817.5	705.8	0.0036 mg/L	0.0036 mg/L	00:14:13
2	Al 237.313†	254656.4	258977.6	29.07 mg/L	29.07 mg/L	00:14:13
2	As 188.979†	73.3	69.8	0.0965 mg/L	0.0965 mg/L	00:14:33
2	B 182.528†	0.8	3.5	0.0135 mg/L	0.0135 mg/L	00:14:33
2	Ba 233.527†	31144.3	31846.2	0.2652 mg/L	0.2652 mg/L	00:14:13
2	Be 313.107†	8141.6	6075.6	-0.0007 mg/L	-0.0007 mg/L	00:14:13
2	Ca 315.886†	1374368.2	1395583.5	9.571 mg/L	9.571 mg/L	00:14:08
2	Cd 228.802†	225.5	113.6	0.0027 mg/L	0.0027 mg/L	00:14:33
2	Co 228.616†	805.9	996.2	0.0213 mg/L	0.0213 mg/L	00:14:33
2	Cr 267.716†	9395.8	8197.7	0.0551 mg/L	0.0551 mg/L	00:14:13
2	Cu 324.752†	13020.4	11315.1	0.0518 mg/L	0.0518 mg/L	00:14:13
2	Fe 234.349†	2427863.2	2467317.0	47.16 mg/L	47.16 mg/L	00:14:08
2	Fe 238.204†	5327705.8	5415884.9	46.33 mg/L	46.33 mg/L	00:14:08
2	Mg 279.077†	271205.5	275208.3	11.03 mg/L	11.03 mg/L	00:14:13
2	Mn 257.610†	807906.4	819565.2	0.8991 mg/L	0.8991 mg/L	00:14:08
2	Mo 202.031†	124.9	89.7	0.0061 mg/L	0.0061 mg/L	00:14:33
2	Ni 231.604†	1548.4	1544.7	0.0497 mg/L	0.0497 mg/L	00:14:13
2	P 214.914†	6585.0	6651.6	4.766 mg/L	4.766 mg/L	00:14:13
2	Pb 220.353†	91.4	244.5	0.0294 mg/L	0.0294 mg/L	00:14:33
2	Sb 206.836†	14.1	-0.8	-0.0029 mg/L	-0.0029 mg/L	00:14:33
2	Se 196.026†	-7.9	-4.0	0.0054 mg/L	0.0054 mg/L	00:14:33
2	Sn 189.927†	141.3	-46.1	-0.0151 mg/L	-0.0151 mg/L	00:14:33
2	Sr 407.771†	1298711.8	1314174.1	0.0592 mg/L	0.0592 mg/L	00:14:08
2	Ti 337.279†	1640647.9	1670120.0	2.107 mg/L	2.107 mg/L	00:14:08
2	Tl 190.801†	-13.9	-33.6	0.0051 mg/L	0.0051 mg/L	00:14:33
2	V 292.402†	11512.5	13332.4	0.0449 mg/L	0.0449 mg/L	00:14:13
2	Zn 213.857†	12553.7	12090.1	0.1532 mg/L	0.1532 mg/L	00:14:13

Mean Data: 0606374-08

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3312857.4	0.985	mg/L	0.0017				0.18%
Ag 328.068†	733.1	0.0037	mg/L	0.00014	0.0037	mg/L	0.00014	3.88%
Al 237.313†	257335.5	28.89	mg/L	0.263	28.89	mg/L	0.263	0.91%
As 188.979†	70.9	0.0980	mg/L	0.00216	0.0980	mg/L	0.00216	2.20%
B 182.528†	3.7	0.0139	mg/L	0.00056	0.0139	mg/L	0.00056	4.02%
Ba 233.527†	31640.8	0.2634	mg/L	0.00242	0.2634	mg/L	0.00242	0.92%
Be 313.107†	5894.8	-0.0007	mg/L	0.00005	-0.0007	mg/L	0.00005	7.34%
Ca 315.886†	1395282.4	9.569	mg/L	0.0029	9.569	mg/L	0.0029	0.03%
Cd 228.802†	118.7	0.0028	mg/L	0.00017	0.0028	mg/L	0.00017	5.93%
Co 228.616†	990.0	0.0212	mg/L	0.00023	0.0212	mg/L	0.00023	1.09%
Cr 267.716†	8194.9	0.0551	mg/L	0.00001	0.0551	mg/L	0.00001	0.03%
Cu 324.752†	11281.4	0.0517	mg/L	0.00015	0.0517	mg/L	0.00015	0.28%
Fe 234.349†	2474627.6	47.30	mg/L	0.198	47.30	mg/L	0.198	0.42%
Fe 238.204†	5423567.6	46.39	mg/L	0.093	46.39	mg/L	0.093	0.20%
K 766.490†	7704.7	4.228	mg/L	0.0388	4.228	mg/L	0.0388	0.92%
Li 670.784†	2611.2	0.0727	mg/L	0.00088	0.0727	mg/L	0.00088	1.22%
Mg 279.077†	273406.5	10.96	mg/L	0.102	10.96	mg/L	0.102	0.93%
Mn 257.610†	819796.7	0.8994	mg/L	0.00036	0.8994	mg/L	0.00036	0.04%

Mo 202.031†	89.5	0.0061 mg/L	0.00001	0.0061 mg/L	0.00001	0.21%
Na 589.592	43514.2	5.185 mg/L	0.0187	5.185 mg/L	0.0187	0.36%
Ni 231.604†	1528.3	0.0492 mg/L	0.00074	0.0492 mg/L	0.00074	1.51%
P 214.914†	6636.2	4.755 mg/L	0.0156	4.755 mg/L	0.0156	0.33%
Pb 220.353†	240.2	0.0289 mg/L	0.00074	0.0289 mg/L	0.00074	2.57%
Sb 206.836†	0.6	-0.0022 mg/L	0.00099	-0.0022 mg/L	0.00099	44.47%
Se 196.026†	-2.9	0.0067 mg/L	0.00181	0.0067 mg/L	0.00181	27.09%
Sn 189.927†	-50.0	-0.0161 mg/L	0.00144	-0.0161 mg/L	0.00144	8.95%
Sr 407.771†	1313064.9	0.0591 mg/L	0.00007	0.0591 mg/L	0.00007	0.12%
Ti 337.279†	1670068.6	2.107 mg/L	0.0001	2.107 mg/L	0.0001	0.00%
Tl 190.801†	-30.4	0.0078 mg/L	0.00375	0.0078 mg/L	0.00375	48.32%
V 292.402†	13280.9	0.0447 mg/L	0.00032	0.0447 mg/L	0.00032	0.70%
Zn 213.857†	12011.7	0.1522 mg/L	0.00145	0.1522 mg/L	0.00145	0.95%

Sequence No.: 67
Sample ID: 0606374-09
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 53
Date Collected: 6/24/2006 12:16:13 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606374-09

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	7848.6	7280.1	3.995	mg/L	3.995	mg/L	00:17:49
1	Li 670.784†	2277.2	2105.1	0.0582	mg/L	0.0582	mg/L	00:17:49
1	Na 589.592	53993.8	54807.0	6.557	mg/L	6.557	mg/L	00:17:49
1	Y 371.029	3367246.8	3367246.8	1.00	mg/L			00:18:14
1	Ag 328.068†	250291.8	252619.6	0.8835	mg/L	0.8835	mg/L	00:18:19
1	Al 237.313†	531796.4	531369.2	59.56	mg/L	59.56	mg/L	00:18:14
1	As 188.979†	75.9	71.1	0.0972	mg/L	0.0972	mg/L	00:18:39
1	B 182.528†	1.4	4.1	0.0148	mg/L	0.0148	mg/L	00:18:39
1	Ba 233.527†	129594.2	129657.2	1.081	mg/L	1.081	mg/L	00:18:19
1	Be 313.107†	22897.2	20674.1	0.0028	mg/L	0.0028	mg/L	00:18:19
1	Ca 315.886†	3485265.6	3480298.5	23.88	mg/L	23.88	mg/L	00:18:14
1	Cd 228.802†	1182.9	1066.1	0.0269	mg/L	0.0269	mg/L	00:18:39
1	Co 228.616†	2094.3	2269.3	0.0535	mg/L	0.0535	mg/L	00:18:39
1	Cr 267.716†	384293.9	382591.2	2.488	mg/L	2.488	mg/L	00:18:19
1	Cu 324.752†	2647942.3	2643627.5	10.06	mg/L	10.06	mg/L	00:18:07
1	Fe 234.349†	6147881.8	6141091.7	117.4	mg/L	117.4	mg/L	00:18:07
1	Fe 238.204†	12981075.6	12968237.4	110.9	mg/L	110.9	mg/L	00:18:07
1	Mg 279.077†	267761.5	266977.0	10.70	mg/L	10.70	mg/L	00:18:19
1	Mn 257.610†	3030027.2	3025408.8	3.326	mg/L	3.326	mg/L	00:18:14
1	Mo 202.031†	322.0	284.4	0.0189	mg/L	0.0189	mg/L	00:18:39
1	Ni 231.604†	19063.6	19016.7	0.6087	mg/L	0.6087	mg/L	00:18:19
1	P 214.914†	24067.2	24001.7	17.13	mg/L	17.13	mg/L	00:18:19
1	Pb 220.353†	33030.6	33152.3	3.747	mg/L	3.747	mg/L	00:18:19
1	Sb 206.836†	133.1	117.8	0.0064	mg/L	0.0064	mg/L	00:18:39
1	Se 196.026†	3.6	7.6	0.0199	mg/L	0.0199	mg/L	00:18:39
1	Sn 189.927†	2022.8	1831.1	0.4857	mg/L	0.4857	mg/L	00:18:39
1	Sr 407.771†	4188765.4	4178678.0	0.1887	mg/L	0.1887	mg/L	00:18:07
1	Ti 337.279†	2069291.6	2069397.1	2.611	mg/L	2.611	mg/L	00:18:14
1	Tl 190.801†	-49.2	-68.7	0.0151	mg/L	0.0151	mg/L	00:18:39
1	V 292.402†	121236.0	122753.4	0.4682	mg/L	0.4682	mg/L	00:18:19
1	Zn 213.857†	586061.3	584858.1	7.555	mg/L	7.555	mg/L	00:18:14
2	K 766.490†	7758.3	7171.3	3.936	mg/L	3.936	mg/L	00:17:54
2	Li 670.784†	2267.4	2089.9	0.0577	mg/L	0.0577	mg/L	00:17:54
2	Na 589.592	54069.9	54883.1	6.567	mg/L	6.567	mg/L	00:17:54
2	Y 371.029	3375347.8	3375347.8	1.00	mg/L			00:18:55
2	Ag 328.068†	251281.1	253005.5	0.8848	mg/L	0.8848	mg/L	00:19:01
2	Al 237.313†	531400.9	529699.9	59.37	mg/L	59.37	mg/L	00:18:55
2	As 188.979†	73.4	68.5	0.0936	mg/L	0.0936	mg/L	00:19:21
2	B 182.528†	-3.7	-1.0	0.0034	mg/L	0.0034	mg/L	00:19:21
2	Ba 233.527†	129691.9	129443.7	1.079	mg/L	1.079	mg/L	00:19:01
2	Be 313.107†	22646.7	20369.5	0.0028	mg/L	0.0028	mg/L	00:19:01
2	Ca 315.886†	3485404.2	3472079.4	23.82	mg/L	23.82	mg/L	00:18:55
2	Cd 228.802†	1179.3	1059.8	0.0268	mg/L	0.0268	mg/L	00:19:21
2	Co 228.616†	2066.8	2236.8	0.0526	mg/L	0.0526	mg/L	00:19:21
2	Cr 267.716†	384634.6	382009.4	2.484	mg/L	2.484	mg/L	00:19:01
2	Cu 324.752†	2665282.1	2654560.7	10.10	mg/L	10.10	mg/L	00:18:49
2	Fe 234.349†	6161034.3	6139459.0	117.4	mg/L	117.4	mg/L	00:18:49

2	Fe 238.204†	13025907.9	12981794.8	111.0 mg/L	111.0 mg/L	00:18:4
2	Mg 279.077†	267808.0	266381.3	10.67 mg/L	10.67 mg/L	00:19:0
2	Mn 257.610†	3027946.5	3016069.3	3.316 mg/L	3.316 mg/L	00:18:5
2	Mo 202.031†	323.6	285.2	0.0189 mg/L	0.0189 mg/L	00:19:2
2	Ni 231.604†	19191.0	19098.0	0.6113 mg/L	0.6113 mg/L	00:19:0
2	P 214.914†	23963.6	23840.7	17.02 mg/L	17.02 mg/L	00:19:0
2	Pb 220.353†	32909.7	32952.6	3.724 mg/L	3.724 mg/L	00:19:0
2	Sb 206.836†	134.2	118.5	0.0068 mg/L	0.0068 mg/L	00:19:2
2	Se 196.026†	11.2	15.2	0.0294 mg/L	0.0294 mg/L	00:19:2
2	Sn 189.927†	2009.6	1813.2	0.4809 mg/L	0.4809 mg/L	00:19:2
2	Sr 407.771†	4211270.3	4191064.4	0.1892 mg/L	0.1892 mg/L	00:18:4
2	Ti 337.279†	2071992.1	2067126.8	2.608 mg/L	2.608 mg/L	00:18:5
2	Tl 190.801†	-48.4	-67.7	0.0157 mg/L	0.0157 mg/L	00:19:2
2	V 292.402†	121403.3	122629.4	0.4677 mg/L	0.4677 mg/L	00:19:0
2	Zn 213.857†	586046.5	583438.1	7.537 mg/L	7.537 mg/L	00:18:5

Mean Data: 0606374-09

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3371297.3	1.00	mg/L	0.002				0.17
Ag 328.068†	252812.5	0.8842	mg/L	0.00095	0.8842	mg/L	0.00095	0.11
Al 237.313†	530534.5	59.46	mg/L	0.133	59.46	mg/L	0.133	0.22
As 188.979†	69.8	0.0954	mg/L	0.00252	0.0954	mg/L	0.00252	2.64
B 182.528†	1.6	0.0091	mg/L	0.00801	0.0091	mg/L	0.00801	88.08
Ba 233.527†	129550.4	1.080	mg/L	0.0013	1.080	mg/L	0.0013	0.12
Be 313.107†	20521.8	0.0028	mg/L	0.00004	0.0028	mg/L	0.00004	1.55
Ca 315.886†	3476188.9	23.85	mg/L	0.040	23.85	mg/L	0.040	0.17
Cd 228.802†	1063.0	0.0268	mg/L	0.00010	0.0268	mg/L	0.00010	0.37
Co 228.616†	2253.0	0.0531	mg/L	0.00060	0.0531	mg/L	0.00060	1.13
Cr 267.716†	382300.3	2.486	mg/L	0.0027	2.486	mg/L	0.0027	0.11
Cu 324.752†	2649094.1	10.08	mg/L	0.029	10.08	mg/L	0.029	0.29
Fe 234.349†	6140275.4	117.4	mg/L	0.02	117.4	mg/L	0.02	0.02
Fe 238.204†	12975016.1	111.0	mg/L	0.08	111.0	mg/L	0.08	0.07
K 766.490†	7225.7	3.966	mg/L	0.0422	3.966	mg/L	0.0422	1.06
Li 670.784†	2097.5	0.0579	mg/L	0.00031	0.0579	mg/L	0.00031	0.53
Mg 279.077†	266679.1	10.68	mg/L	0.017	10.68	mg/L	0.017	0.16
Mn 257.610†	3020739.1	3.321	mg/L	0.0073	3.321	mg/L	0.0073	0.22
Mo 202.031†	284.8	0.0189	mg/L	0.00004	0.0189	mg/L	0.00004	0.21
Na 589.592	54845.1	6.562	mg/L	0.0065	6.562	mg/L	0.0065	0.10
Ni 231.604†	19057.4	0.6100	mg/L	0.00184	0.6100	mg/L	0.00184	0.30
P 214.914†	23921.2	17.07	mg/L	0.081	17.07	mg/L	0.081	0.48
Pb 220.353†	33052.5	3.735	mg/L	0.0160	3.735	mg/L	0.0160	0.43
Sb 206.836†	118.1	0.0066	mg/L	0.00031	0.0066	mg/L	0.00031	4.69
Se 196.026†	11.4	0.0247	mg/L	0.00670	0.0247	mg/L	0.00670	27.15
Sn 189.927†	1822.2	0.4833	mg/L	0.00337	0.4833	mg/L	0.00337	0.70
Sr 407.771†	4184871.2	0.1890	mg/L	0.00040	0.1890	mg/L	0.00040	0.21
Ti 337.279†	2068261.9	2.610	mg/L	0.0020	2.610	mg/L	0.0020	0.08
Tl 190.801†	-68.2	0.0154	mg/L	0.00041	0.0154	mg/L	0.00041	2.70
V 292.402†	122691.4	0.4680	mg/L	0.00034	0.4680	mg/L	0.00034	0.07
Zn 213.857†	584148.1	7.546	mg/L	0.0130	7.546	mg/L	0.0130	0.17

Sequence No.: 68
Sample ID: 0606374-10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 54
Date Collected: 6/24/2006 12:21:00 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606374-10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1719.4	1186.7	0.6546	mg/L	0.6546	mg/L	00:22:36
1	Li 670.784†	393.6	230.1	0.0043	mg/L	0.0043	mg/L	00:22:36
1	Na 589.592	45948.1	46761.3	5.580	mg/L	5.580	mg/L	00:22:36
1	Y 371.029	3308941.4	3308941.4	0.984	mg/L			00:22:51
1	Ag 328.068†	-1443.6	1086.1	0.0040	mg/L	0.0040	mg/L	00:22:56
1	Al 237.313†	67259.8	68436.2	7.628	mg/L	7.628	mg/L	00:22:56
1	As 188.979†	51.3	47.4	0.0673	mg/L	0.0673	mg/L	00:23:17
1	B 182.528†	-5.3	-2.6	-0.0003	mg/L	-0.0003	mg/L	00:23:17
1	Ba 233.527†	6735.2	7027.6	0.0582	mg/L	0.0582	mg/L	00:22:56

1	Be 313.107†	5087.2	2969.7	0.0002 mg/L	0.0002 mg/L	00:22:56
1	Ca 315.886†	985886.2	1000532.4	6.860 mg/L	6.860 mg/L	00:22:51
1	Cd 228.802†	215.7	103.6	0.0024 mg/L	0.0024 mg/L	00:23:17
1	Co 228.616†	335.7	518.1	0.0120 mg/L	0.0120 mg/L	00:23:17
1	Cr 267.716†	6079.0	4825.0	0.0321 mg/L	0.0321 mg/L	00:22:56
1	Cu 324.752†	11455.3	9723.2	0.0405 mg/L	0.0405 mg/L	00:22:56
1	Fe 234.349†	1298115.5	1318558.0	25.20 mg/L	25.20 mg/L	00:22:51
1	Fe 238.204†	2886850.5	2933950.0	25.09 mg/L	25.09 mg/L	00:22:51
1	Mg 279.077†	48466.8	48733.5	1.942 mg/L	1.942 mg/L	00:22:56
1	Mn 257.610†	561264.5	568756.5	0.6232 mg/L	0.6232 mg/L	00:22:51
1	Mo 202.031†	196.9	162.9	0.0109 mg/L	0.0109 mg/L	00:23:17
1	Ni 231.604†	1705.0	1703.8	0.0548 mg/L	0.0548 mg/L	00:22:56
1	P 214.914†	4638.0	4671.7	3.355 mg/L	3.355 mg/L	00:23:17
1	Pb 220.353†	18.0	169.8	0.0178 mg/L	0.0178 mg/L	00:23:17
1	Sb 206.836†	14.9	-0.1	-0.0006 mg/L	-0.0006 mg/L	00:23:17
1	Se 196.026†	-7.3	-3.4	0.0061 mg/L	0.0061 mg/L	00:23:17
1	Sn 189.927†	184.2	-2.5	-0.0059 mg/L	-0.0059 mg/L	00:23:17
1	Sr 407.771†	864557.7	872692.5	0.0392 mg/L	0.0392 mg/L	00:22:51
1	Ti 337.279†	488924.2	499064.3	0.6302 mg/L	0.6302 mg/L	00:22:51
1	Tl 190.801†	-4.2	-23.7	0.0112 mg/L	0.0112 mg/L	00:23:17
1	V 292.402†	3408.6	5092.4	0.0170 mg/L	0.0170 mg/L	00:22:56
1	Zn 213.857†	7410.2	6860.0	0.0869 mg/L	0.0869 mg/L	00:22:56
2	K 766.490†	1766.0	1224.6	0.6754 mg/L	0.6754 mg/L	00:22:41
2	Li 670.784†	366.5	200.6	0.0035 mg/L	0.0035 mg/L	00:22:41
2	Na 589.592	45658.7	46471.9	5.545 mg/L	5.545 mg/L	00:22:41
2	Y 371.029	3326417.4	3326417.4	0.989 mg/L		00:23:24
2	Ag 328.068†	-1568.2	967.8	0.0036 mg/L	0.0036 mg/L	00:23:29
2	Al 237.313†	67029.3	67843.8	7.560 mg/L	7.560 mg/L	00:23:29
2	As 188.979†	47.0	42.9	0.0610 mg/L	0.0610 mg/L	00:23:49
2	B 182.528†	-3.7	-1.0	0.0033 mg/L	0.0033 mg/L	00:23:49
2	Ba 233.527†	6654.8	6910.4	0.0572 mg/L	0.0572 mg/L	00:23:29
2	Be 313.107†	5039.8	2894.6	0.0002 mg/L	0.0002 mg/L	00:23:29
2	Ca 315.886†	994932.9	1004415.8	6.887 mg/L	6.887 mg/L	00:23:24
2	Cd 228.802†	212.0	98.8	0.0023 mg/L	0.0023 mg/L	00:23:49
2	Co 228.616†	332.8	513.4	0.0118 mg/L	0.0118 mg/L	00:23:49
2	Cr 267.716†	6051.0	4764.1	0.0317 mg/L	0.0317 mg/L	00:23:29
2	Cu 324.752†	11320.3	9525.4	0.0398 mg/L	0.0398 mg/L	00:23:29
2	Fe 234.349†	1309486.2	1323124.1	25.29 mg/L	25.29 mg/L	00:23:24
2	Fe 238.204†	2908991.2	2940922.3	25.15 mg/L	25.15 mg/L	00:23:24
2	Mg 279.077†	48229.7	48234.9	1.922 mg/L	1.922 mg/L	00:23:29
2	Mn 257.610†	565991.4	570539.1	0.6251 mg/L	0.6251 mg/L	00:23:24
2	Mo 202.031†	211.8	176.9	0.0118 mg/L	0.0118 mg/L	00:23:49
2	Ni 231.604†	1706.1	1695.9	0.0546 mg/L	0.0546 mg/L	00:23:29
2	P 214.914†	4642.1	4651.1	3.340 mg/L	3.340 mg/L	00:23:49
2	Pb 220.353†	-2.7	148.8	0.0154 mg/L	0.0154 mg/L	00:23:49
2	Sb 206.836†	13.2	-1.9	-0.0015 mg/L	-0.0015 mg/L	00:23:49
2	Se 196.026†	-2.4	1.6	0.0124 mg/L	0.0124 mg/L	00:23:49
2	Sn 189.927†	184.1	-3.6	-0.0062 mg/L	-0.0062 mg/L	00:23:49
2	Sr 407.771†	870545.6	874130.4	0.0393 mg/L	0.0393 mg/L	00:23:24
2	Ti 337.279†	492706.2	500277.7	0.6318 mg/L	0.6318 mg/L	00:23:24
2	Tl 190.801†	-2.0	-21.6	0.0131 mg/L	0.0131 mg/L	00:23:49
2	V 292.402†	3218.2	4881.6	0.0162 mg/L	0.0162 mg/L	00:23:29
2	Zn 213.857†	7351.3	6760.9	0.0856 mg/L	0.0856 mg/L	00:23:29

Mean Data: 0606374-10

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3317679.4	0.986	mg/L	0.0037				0.37%
Ag 328.068†	1026.9	0.0038	mg/L	0.00029	0.0038	mg/L	0.00029	7.60%
Al 237.313†	68140.0	7.594	mg/L	0.0476	7.594	mg/L	0.0476	0.63%
As 188.979†	45.1	0.0641	mg/L	0.00444	0.0641	mg/L	0.00444	6.92%
B 182.528†	-1.8	0.0015	mg/L	0.00255	0.0015	mg/L	0.00255	172.56%
Ba 233.527†	6969.0	0.0577	mg/L	0.00069	0.0577	mg/L	0.00069	1.20%
Be 313.107†	2932.1	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	6.33%
Ca 315.886†	1002474.1	6.874	mg/L	0.0188	6.874	mg/L	0.0188	0.27%
Cd 228.802†	101.2	0.0023	mg/L	0.00006	0.0023	mg/L	0.00006	2.54%
Co 228.616†	515.8	0.0119	mg/L	0.00009	0.0119	mg/L	0.00009	0.74%
Cr 267.716†	4794.5	0.0319	mg/L	0.00028	0.0319	mg/L	0.00028	0.87%
Cu 324.752†	9624.3	0.0402	mg/L	0.00052	0.0402	mg/L	0.00052	1.29%
Fe 234.349†	1320841.0	25.24	mg/L	0.062	25.24	mg/L	0.062	0.24%
Fe 238.204†	2937436.2	25.12	mg/L	0.042	25.12	mg/L	0.042	0.17%

K 766.490†	1205.7	0.6650	mg/L	0.01470	0.6650	mg/L	0.01470	2.21%
Li 670.784†	215.4	0.0039	mg/L	0.00060	0.0039	mg/L	0.00060	15.46%
Mg 279.077†	48484.2	1.932	mg/L	0.0142	1.932	mg/L	0.0142	0.73%
Mn 257.610†	569647.8	0.6242	mg/L	0.00139	0.6242	mg/L	0.00139	0.22%
Mo 202.031†	169.9	0.0113	mg/L	0.00065	0.0113	mg/L	0.00065	5.72%
Na 589.592	46616.6	5.562	mg/L	0.0249	5.562	mg/L	0.0249	0.45%
Ni 231.604†	1699.9	0.0547	mg/L	0.00018	0.0547	mg/L	0.00018	0.33%
P 214.914†	4661.4	3.347	mg/L	0.0104	3.347	mg/L	0.0104	0.31%
Pb 220.353†	159.3	0.0166	mg/L	0.00169	0.0166	mg/L	0.00169	10.22%
Sb 206.836†	-1.0	-0.0011	mg/L	0.00062	-0.0011	mg/L	0.00062	58.20%
Se 196.026†	-0.9	0.0093	mg/L	0.00445	0.0093	mg/L	0.00445	48.05%
Sn 189.927†	-3.0	-0.0061	mg/L	0.00019	-0.0061	mg/L	0.00019	3.17%
Sr 407.771†	873411.5	0.0393	mg/L	0.00005	0.0393	mg/L	0.00005	0.12%
Ti 337.279†	499671.0	0.6310	mg/L	0.00108	0.6310	mg/L	0.00108	0.17%
Tl 190.801†	-22.6	0.0121	mg/L	0.00128	0.0121	mg/L	0.00128	10.57%
V 292.402†	4987.0	0.0166	mg/L	0.00059	0.0166	mg/L	0.00059	3.55%
Zn 213.857†	6810.4	0.0863	mg/L	0.00091	0.0863	mg/L	0.00091	1.06%

Sequence No.: 69 **Autosampler Location: 55**
Sample ID: BF62320-DUP1 **Date Collected: 6/24/2006 12:25:30 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: BF62320-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1792.6	1255.4	0.6922	mg/L	0.6922	mg/L	00:27:02
1	Li 670.784†	366.7	201.6	0.0035	mg/L	0.0035	mg/L	00:27:02
1	Na 589.592	47442.1	48255.3	5.761	mg/L	5.761	mg/L	00:27:02
1	Y 371.029	3319304.5	3319304.5	0.987	mg/L			00:27:17
1	Ag 328.068†	-1431.0	1103.4	0.0042	mg/L	0.0042	mg/L	00:27:22
1	Al 237.313†	71873.5	72898.8	8.118	mg/L	8.118	mg/L	00:27:22
1	As 188.979†	48.6	44.5	0.0633	mg/L	0.0633	mg/L	00:27:42
1	B 182.528†	-3.7	-1.0	0.0033	mg/L	0.0033	mg/L	00:27:42
1	Ba 233.527†	7426.6	7707.0	0.0639	mg/L	0.0639	mg/L	00:27:22
1	Be 313.107†	5064.3	2930.4	0.0002	mg/L	0.0002	mg/L	00:27:22
1	Ca 315.886†	1008922.4	1020750.8	6.999	mg/L	6.999	mg/L	00:27:17
1	Cd 228.802†	220.2	107.5	0.0026	mg/L	0.0026	mg/L	00:27:42
1	Co 228.616†	465.7	648.9	0.0154	mg/L	0.0154	mg/L	00:27:42
1	Cr 267.716†	6761.8	5497.7	0.0366	mg/L	0.0366	mg/L	00:27:22
1	Cu 324.752†	16159.4	14454.6	0.0591	mg/L	0.0591	mg/L	00:27:22
1	Fe 234.349†	1468696.5	1487326.0	28.43	mg/L	28.43	mg/L	00:27:17
1	Fe 238.204†	3259234.0	3302207.5	28.24	mg/L	28.24	mg/L	00:27:17
1	Mg 279.077†	49982.2	50115.6	1.997	mg/L	1.997	mg/L	00:27:22
1	Mn 257.610†	617527.0	623998.5	0.6839	mg/L	0.6839	mg/L	00:27:17
1	Mo 202.031†	203.5	168.9	0.0113	mg/L	0.0113	mg/L	00:27:42
1	Ni 231.604†	1808.3	1803.1	0.0580	mg/L	0.0580	mg/L	00:27:22
1	P 214.914†	4856.9	4878.9	3.502	mg/L	3.502	mg/L	00:27:42
1	Pb 220.353†	107.3	260.2	0.0279	mg/L	0.0279	mg/L	00:27:42
1	Sb 206.836†	14.3	-0.7	-0.0010	mg/L	-0.0010	mg/L	00:27:42
1	Se 196.026†	-3.7	0.3	0.0108	mg/L	0.0108	mg/L	00:27:42
1	Sn 189.927†	194.2	7.0	-0.0033	mg/L	-0.0033	mg/L	00:27:42
1	Sr 407.771†	890592.6	896335.3	0.0403	mg/L	0.0403	mg/L	00:27:17
1	Ti 337.279†	485424.5	493965.2	0.6238	mg/L	0.6238	mg/L	00:27:17
1	Tl 190.801†	-7.6	-27.2	0.0094	mg/L	0.0094	mg/L	00:27:42
1	V 292.402†	3742.4	5419.9	0.0179	mg/L	0.0179	mg/L	00:27:22
1	Zn 213.857†	8105.4	7541.1	0.0954	mg/L	0.0954	mg/L	00:27:22
2	K 766.490†	1774.4	1239.7	0.6836	mg/L	0.6836	mg/L	00:27:07
2	Li 670.784†	373.7	209.3	0.0037	mg/L	0.0037	mg/L	00:27:07
2	Na 589.592	47344.0	48157.2	5.749	mg/L	5.749	mg/L	00:27:07
2	Y 371.029	3314367.0	3314367.0	0.985	mg/L			00:27:49
2	Ag 328.068†	-1429.3	1103.0	0.0042	mg/L	0.0042	mg/L	00:27:55
2	Al 237.313†	72372.8	73514.1	8.188	mg/L	8.188	mg/L	00:27:55
2	As 188.979†	48.0	44.0	0.0626	mg/L	0.0626	mg/L	00:28:15
2	B 182.528†	-4.8	-2.1	0.0008	mg/L	0.0008	mg/L	00:28:15
2	Ba 233.527†	7502.7	7795.4	0.0646	mg/L	0.0646	mg/L	00:27:55
2	Be 313.107†	5137.9	3012.7	0.0002	mg/L	0.0002	mg/L	00:27:55
2	Ca 315.886†	1002952.1	1016214.1	6.968	mg/L	6.968	mg/L	00:27:49
2	Cd 228.802†	228.7	116.4	0.0028	mg/L	0.0028	mg/L	00:28:15

2	Co 228.616†	471.7	655.6	0.0156 mg/L	0.0156 mg/L	00:28:15
2	Cr 267.716†	6817.1	5564.0	0.0370 mg/L	0.0370 mg/L	00:27:55
2	Cu 324.752†	16259.8	14580.9	0.0595 mg/L	0.0595 mg/L	00:27:55
2	Fe 234.349†	1463621.5	1484392.3	28.37 mg/L	28.37 mg/L	00:27:49
2	Fe 238.204†	3241060.0	3288681.2	28.13 mg/L	28.13 mg/L	00:27:49
2	Mg 279.077†	50221.7	50434.2	2.010 mg/L	2.010 mg/L	00:27:55
2	Mn 257.610†	613963.6	621313.8	0.6810 mg/L	0.6810 mg/L	00:27:49
2	Mo 202.031†	207.5	173.3	0.0116 mg/L	0.0116 mg/L	00:28:15
2	Ni 231.604†	1822.2	1820.0	0.0585 mg/L	0.0585 mg/L	00:27:55
2	P 214.914†	4826.2	4855.0	3.485 mg/L	3.485 mg/L	00:28:15
2	Pb 220.353†	120.2	273.5	0.0294 mg/L	0.0294 mg/L	00:28:15
2	Sb 206.836†	2.8	-12.4	-0.0066 mg/L	-0.0066 mg/L	00:28:15
2	Se 196.026†	-9.4	-5.5	0.0035 mg/L	0.0035 mg/L	00:28:15
2	Sn 189.927†	184.6	-2.4	-0.0058 mg/L	-0.0058 mg/L	00:28:15
2	Sr 407.771†	890004.6	897083.1	0.0403 mg/L	0.0403 mg/L	00:27:49
2	Ti 337.279†	484709.7	493972.7	0.6238 mg/L	0.6238 mg/L	00:27:49
2	Tl 190.801†	-10.4	-30.1	0.0070 mg/L	0.0070 mg/L	00:28:15
2	V 292.402†	3716.3	5399.1	0.0179 mg/L	0.0179 mg/L	00:27:55
2	Zn 213.857†	8116.9	7565.0	0.0957 mg/L	0.0957 mg/L	00:27:55

Mean Data: BF62320-DUP1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3316835.8	0.986	mg/L	0.0010				0.11%
Ag 328.068†	1103.2	0.0042	mg/L	0.00000	0.0042	mg/L	0.00000	0.06%
Al 237.313†	73206.5	8.153	mg/L	0.0494	8.153	mg/L	0.0494	0.61%
As 188.979†	44.3	0.0630	mg/L	0.00047	0.0630	mg/L	0.00047	0.74%
B 182.528†	-1.6	0.0020	mg/L	0.00177	0.0020	mg/L	0.00177	87.85%
Ba 233.527†	7751.2	0.0643	mg/L	0.00052	0.0643	mg/L	0.00052	0.81%
Be 313.107†	2971.6	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	5.33%
Ca 315.886†	1018482.4	6.983	mg/L	0.0220	6.983	mg/L	0.0220	0.32%
Cd 228.802†	112.0	0.0027	mg/L	0.00016	0.0027	mg/L	0.00016	5.95%
Co 228.616†	652.2	0.0155	mg/L	0.00012	0.0155	mg/L	0.00012	0.80%
Cr 267.716†	5530.8	0.0368	mg/L	0.00030	0.0368	mg/L	0.00030	0.82%
Cu 324.752†	14517.7	0.0593	mg/L	0.00033	0.0593	mg/L	0.00033	0.56%
Fe 234.349†	1485859.1	28.40	mg/L	0.040	28.40	mg/L	0.040	0.14%
Fe 238.204†	3295444.4	28.19	mg/L	0.082	28.19	mg/L	0.082	0.29%
K 766.490†	1247.5	0.6879	mg/L	0.00611	0.6879	mg/L	0.00611	0.89%
Li 670.784†	205.5	0.0036	mg/L	0.00016	0.0036	mg/L	0.00016	4.38%
Mg 279.077†	50274.9	2.003	mg/L	0.0090	2.003	mg/L	0.0090	0.45%
Mn 257.610†	622656.1	0.6825	mg/L	0.00209	0.6825	mg/L	0.00209	0.31%
Mo 202.031†	171.1	0.0114	mg/L	0.00020	0.0114	mg/L	0.00020	1.79%
Na 589.592	48206.3	5.755	mg/L	0.0084	5.755	mg/L	0.0084	0.15%
Ni 231.604†	1811.6	0.0583	mg/L	0.00038	0.0583	mg/L	0.00038	0.66%
P 214.914†	4866.9	3.494	mg/L	0.0120	3.494	mg/L	0.0120	0.34%
Pb 220.353†	266.9	0.0287	mg/L	0.00107	0.0287	mg/L	0.00107	3.75%
Sb 206.836†	-6.5	-0.0038	mg/L	0.00398	-0.0038	mg/L	0.00398	104.39%
Se 196.026†	-2.6	0.0071	mg/L	0.00516	0.0071	mg/L	0.00516	72.60%
Sn 189.927†	2.3	-0.0045	mg/L	0.00177	-0.0045	mg/L	0.00177	39.08%
Sr 407.771†	896709.2	0.0403	mg/L	0.00002	0.0403	mg/L	0.00002	0.06%
Ti 337.279†	493968.9	0.6238	mg/L	0.00001	0.6238	mg/L	0.00001	0.00%
Tl 190.801†	-28.6	0.0082	mg/L	0.00173	0.0082	mg/L	0.00173	21.09%
V 292.402†	5409.5	0.0179	mg/L	0.00005	0.0179	mg/L	0.00005	0.28%
Zn 213.857†	7553.0	0.0956	mg/L	0.00022	0.0956	mg/L	0.00022	0.23%

Duplicate Check: BF62320-DUP1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	0.6650	0.6879	0.006	mg/L	3.4
Li 670.784	0.0039	0.0036	0.000	mg/L	7.7
Na 589.592	5.562	5.755	0.008	mg/L	3.4
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.0038	0.0042	0.000	mg/L	9.8
Al 237.313	7.594	8.153	0.049	mg/L	7.1
As 188.979	0.0641	0.0630	0.000	mg/L	1.8
B 182.528	0.0015	0.0020	0.002	mg/L	30.3
Ba 233.527	0.0577	0.0643	0.001	mg/L	10.7
Be 313.107	0.0002	0.0002	0.000	mg/L	17.6
Ca 315.886	6.874	6.983	0.022	mg/L	1.6
Cd 228.802	0.0023	0.0027	0.000	mg/L	12.5

Co 228.616	0.0119	0.0155	0.000	mg/L	26.2
Cr 267.716	0.0319	0.0368	0.000	mg/L	14.4
Cu 324.752	0.0402	0.0593	0.000	mg/L	38.5
Fe 234.349	25.24	28.40	0.040	mg/L	11.8
Fe 238.204	25.12	28.19	0.082	mg/L	11.5
Mg 279.077	1.932	2.003	0.009	mg/L	3.6
Mn 257.610	0.6242	0.6825	0.002	mg/L	8.9
Mo 202.031	0.0113	0.0114	0.000	mg/L	0.7
Ni 231.604	0.0547	0.0583	0.000	mg/L	6.3
P 214.914	3.347	3.494	0.012	mg/L	4.3
Pb 220.353	0.0166	0.0287	0.001	mg/L	53.5
Sb 206.836	-0.0011	-0.0038	0.004	mg/L	-113.0
Se 196.026	0.0093	0.0071	0.005	mg/L	26.3
Sn 189.927	-0.0061	-0.0045	0.002	mg/L	-29.1
Sr 407.771	0.0393	0.0403	0.000	mg/L	2.6
Ti 337.279	0.6310	0.6238	0.000	mg/L	1.1
Tl 190.801	0.0121	0.0082	0.002	mg/L	38.5
V 292.402	0.0166	0.0179	0.000	mg/L	7.4
Zn 213.857	0.0863	0.0956	0.000	mg/L	10.2

Sequence No.: 70
Sample ID: BF62320-MS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 56
Date Collected: 6/24/2006 12:29:51 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62320-MS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	43427.3	44948.0	24.65	mg/L	24.65	mg/L	00:31:26
1	Li 670.784†	16585.8	17211.0	0.4921	mg/L	0.4921	mg/L	00:31:26
1	Na 589.592	230645.5	231458.7	28.02	mg/L	28.02	mg/L	00:31:26
1	Y 371.029	3210289.8	3210289.8	0.954	mg/L			00:31:43
1	Ag 328.068†	60538.5	65994.8	0.2306	mg/L	0.2306	mg/L	00:31:49
1	Al 237.313†	108203.3	113444.1	12.69	mg/L	12.69	mg/L	00:31:49
1	As 188.979†	355.7	368.0	0.5051	mg/L	0.5051	mg/L	00:32:09
1	B 182.528†	198.0	210.3	0.4781	mg/L	0.4781	mg/L	00:32:09
1	Ba 233.527†	61752.3	64892.9	0.5407	mg/L	0.5407	mg/L	00:31:49
1	Be 313.107†	214174.8	222240.9	0.0452	mg/L	0.0452	mg/L	00:31:49
1	Ca 315.886†	1831261.3	1917240.8	13.15	mg/L	13.15	mg/L	00:31:43
1	Cd 228.802†	8679.0	8979.5	0.2213	mg/L	0.2213	mg/L	00:32:09
1	Co 228.616†	16792.3	17774.2	0.4627	mg/L	0.4627	mg/L	00:31:49
1	Cr 267.716†	76126.1	78420.4	0.5095	mg/L	0.5095	mg/L	00:31:49
1	Cu 324.752†	140033.5	144823.9	0.5549	mg/L	0.5549	mg/L	00:31:49
1	Fe 234.349†	1599853.1	1675319.4	32.02	mg/L	32.02	mg/L	00:31:43
1	Fe 238.204†	3533820.0	3702132.3	31.67	mg/L	31.67	mg/L	00:31:43
1	Mg 279.077†	160882.3	168053.0	6.738	mg/L	6.738	mg/L	00:31:49
1	Mn 257.610†	1186815.1	1241834.4	1.364	mg/L	1.364	mg/L	00:31:43
1	Mo 202.031†	6586.0	6864.5	0.4519	mg/L	0.4519	mg/L	00:32:09
1	Ni 231.604†	15779.2	16506.1	0.5289	mg/L	0.5289	mg/L	00:31:49
1	P 214.914†	10503.7	10963.5	7.839	mg/L	7.839	mg/L	00:32:09
1	Pb 220.353†	3924.9	4264.6	0.4817	mg/L	0.4817	mg/L	00:32:09
1	Sb 206.836†	724.7	744.3	0.3474	mg/L	0.3474	mg/L	00:32:09
1	Se 196.026†	649.0	684.2	0.8679	mg/L	0.8679	mg/L	00:32:09
1	Sn 189.927†	1845.2	1743.8	0.4575	mg/L	0.4575	mg/L	00:32:09
1	Sr 407.771†	2048698.8	2140618.2	0.0965	mg/L	0.0965	mg/L	00:31:43
1	Ti 337.279†	804900.7	845465.6	1.067	mg/L	1.067	mg/L	00:31:43
1	Tl 190.801†	524.0	529.6	0.4720	mg/L	0.4720	mg/L	00:32:09
1	V 292.402†	114566.2	121685.9	0.4859	mg/L	0.4859	mg/L	00:31:49
1	Zn 213.857†	43346.3	44750.6	0.5744	mg/L	0.5744	mg/L	00:31:49
2	K 766.490†	42810.3	44370.4	24.33	mg/L	24.33	mg/L	00:31:31
2	Li 670.784†	16409.6	17052.7	0.4876	mg/L	0.4876	mg/L	00:31:31
2	Na 589.592	230211.5	231024.7	27.97	mg/L	27.97	mg/L	00:31:31
2	Y 371.029	3205355.5	3205355.5	0.953	mg/L			00:32:18
2	Ag 328.068†	59992.9	65519.9	0.2289	mg/L	0.2289	mg/L	00:32:23
2	Al 237.313†	106734.2	112076.8	12.53	mg/L	12.53	mg/L	00:32:23
2	As 188.979†	354.4	367.2	0.5040	mg/L	0.5040	mg/L	00:32:43
2	B 182.528†	189.2	201.3	0.4580	mg/L	0.4580	mg/L	00:32:43
2	Ba 233.527†	60844.2	64039.4	0.5336	mg/L	0.5336	mg/L	00:32:23
2	Be 313.107†	210604.5	218839.2	0.0445	mg/L	0.0445	mg/L	00:32:23

2	Ca 315.886†	1824912.5	1913531.6	13.13 mg/L	13.13 mg/L	00:32:18
2	Cd 228.802†	8617.2	8928.5	0.2200 mg/L	0.2200 mg/L	00:32:43
2	Co 228.616†	16420.7	17411.3	0.4532 mg/L	0.4532 mg/L	00:32:23
2	Cr 267.716†	74935.3	77293.3	0.5022 mg/L	0.5022 mg/L	00:32:23
2	Cu 324.752†	138508.7	143449.5	0.5497 mg/L	0.5497 mg/L	00:32:23
2	Fe 234.349†	1594557.5	1672342.2	31.96 mg/L	31.96 mg/L	00:32:18
2	Fe 238.204†	3524118.2	3697650.6	31.63 mg/L	31.63 mg/L	00:32:18
2	Mg 279.077†	157890.3	165172.3	6.622 mg/L	6.622 mg/L	00:32:23
2	Mn 257.610†	1184329.6	1241140.3	1.363 mg/L	1.363 mg/L	00:32:18
2	Mo 202.031†	6560.3	6848.2	0.4508 mg/L	0.4508 mg/L	00:32:43
2	Ni 231.604†	15478.5	16216.0	0.5196 mg/L	0.5196 mg/L	00:32:23
2	P 214.914†	10410.4	10882.6	7.781 mg/L	7.781 mg/L	00:32:43
2	Pb 220.353†	3936.3	4282.9	0.4838 mg/L	0.4838 mg/L	00:32:43
2	Sb 206.836†	712.5	732.7	0.3419 mg/L	0.3419 mg/L	00:32:43
2	Se 196.026†	643.7	679.6	0.8622 mg/L	0.8622 mg/L	00:32:43
2	Sn 189.927†	1816.4	1716.6	0.4503 mg/L	0.4503 mg/L	00:32:43
2	Sr 407.771†	2047525.5	2142691.8	0.0966 mg/L	0.0966 mg/L	00:32:18
2	Ti 337.279†	803431.5	845222.1	1.067 mg/L	1.067 mg/L	00:32:18
2	Tl 190.801†	526.9	533.5	0.4752 mg/L	0.4752 mg/L	00:32:43
2	V 292.402†	112633.4	119842.2	0.4786 mg/L	0.4786 mg/L	00:32:23
2	Zn 213.857†	42609.3	44047.0	0.5653 mg/L	0.5653 mg/L	00:32:23

Mean Data: BF62320-MS1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3207822.6	0.954	mg/L	0.0010				0.11%
Ag 328.068†	65757.3	0.2297	mg/L	0.00117	0.2297	mg/L	0.00117	0.51%
Al 237.313†	112760.4	12.61	mg/L	0.109	12.61	mg/L	0.109	0.87%
As 188.979†	367.6	0.5046	mg/L	0.00077	0.5046	mg/L	0.00077	0.15%
B 182.528†	205.8	0.4680	mg/L	0.01424	0.4680	mg/L	0.01424	3.04%
Ba 233.527†	64466.2	0.5371	mg/L	0.00503	0.5371	mg/L	0.00503	0.94%
Be 313.107†	220540.0	0.0449	mg/L	0.00050	0.0449	mg/L	0.00050	1.11%
Ca 315.886†	1915386.2	13.14	mg/L	0.018	13.14	mg/L	0.018	0.14%
Cd 228.802†	8954.0	0.2207	mg/L	0.00092	0.2207	mg/L	0.00092	0.42%
Co 228.616†	17592.8	0.4580	mg/L	0.00672	0.4580	mg/L	0.00672	1.47%
Cr 267.716†	77856.8	0.5059	mg/L	0.00517	0.5059	mg/L	0.00517	1.02%
Cu 324.752†	144136.7	0.5523	mg/L	0.00370	0.5523	mg/L	0.00370	0.67%
Fe 234.349†	1673830.8	31.99	mg/L	0.040	31.99	mg/L	0.040	0.13%
Fe 238.204†	3699891.4	31.65	mg/L	0.027	31.65	mg/L	0.027	0.09%
K 766.490†	44659.2	24.49	mg/L	0.224	24.49	mg/L	0.224	0.91%
Li 670.784†	17131.9	0.4899	mg/L	0.00321	0.4899	mg/L	0.00321	0.66%
Mg 279.077†	166612.7	6.680	mg/L	0.0818	6.680	mg/L	0.0818	1.22%
Mn 257.610†	1241487.3	1.363	mg/L	0.0005	1.363	mg/L	0.0005	0.04%
Mo 202.031†	6856.3	0.4514	mg/L	0.00076	0.4514	mg/L	0.00076	0.17%
Na 589.592	231241.7	27.99	mg/L	0.037	27.99	mg/L	0.037	0.13%
Ni 231.604†	16361.1	0.5243	mg/L	0.00657	0.5243	mg/L	0.00657	1.25%
P 214.914†	10923.0	7.810	mg/L	0.0408	7.810	mg/L	0.0408	0.52%
Pb 220.353†	4273.7	0.4828	mg/L	0.00145	0.4828	mg/L	0.00145	0.30%
Sb 206.836†	738.5	0.3446	mg/L	0.00387	0.3446	mg/L	0.00387	1.12%
Se 196.026†	681.9	0.8650	mg/L	0.00402	0.8650	mg/L	0.00402	0.47%
Sn 189.927†	1730.2	0.4539	mg/L	0.00510	0.4539	mg/L	0.00510	1.12%
Sr 407.771†	2141655.0	0.0966	mg/L	0.00007	0.0966	mg/L	0.00007	0.07%
Ti 337.279†	845343.8	1.067	mg/L	0.0002	1.067	mg/L	0.0002	0.02%
Tl 190.801†	531.6	0.4736	mg/L	0.00233	0.4736	mg/L	0.00233	0.49%
V 292.402†	120764.0	0.4823	mg/L	0.00518	0.4823	mg/L	0.00518	1.07%
Zn 213.857†	44398.8	0.5699	mg/L	0.00640	0.5699	mg/L	0.00640	1.12%

Matrix Recovery Check: BF62320-MS1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	25.66	24.49	0.224	mg/L	95.3
Li 670.784	0.5039	0.4899	0.003	mg/L	97.2
Na 589.592	30.56	27.99	0.037	mg/L	89.7
Ag 328.068	0.2538	0.2297	0.001	mg/L	90.4
Al 237.313	10.09	12.61	0.109	mg/L	200.6
As 188.979	0.5641	0.5046	0.001	mg/L	88.1
B 182.528	0.5015	0.4680	0.014	mg/L	93.3
Ba 233.527	0.5577	0.5371	0.005	mg/L	95.9
Be 313.107	0.0502	0.0449	0.000	mg/L	89.4
Ca 315.886	11.87	13.14	0.018	mg/L	125.3

Cd 228.802	0.2523	0.2207	0.001	mg/L	87.3
Co 228.616	0.5119	0.4580	0.007	mg/L	89.2
Cr 267.716	0.5319	0.5059	0.005	mg/L	94.8
Cu 324.752	0.5402	0.5523	0.004	mg/L	102.4
Fe 234.349	27.74	31.99	0.040	mg/L	269.7
Fe 238.204	27.62	31.65	0.027	mg/L	260.9
Mg 279.077	6.932	6.680	0.082	mg/L	95.0
Mn 257.610	1.124	1.363	0.001	mg/L	147.8
Mo 202.031	0.5113	0.4514	0.001	mg/L	88.0
Ni 231.604	0.5547	0.5243	0.007	mg/L	93.9
P 214.914	8.347	7.810	0.041	mg/L	89.2
Pb 220.353	0.5166	0.4828	0.001	mg/L	93.2
Sb 206.836	0.4989	0.3446	0.004	mg/L	69.1
Se 196.026	1.009	0.8650	0.004	mg/L	85.6
Sn 189.927	0.4939	0.4539	0.005	mg/L	92.0
Sr 407.771	0.0893	0.0966	0.000	mg/L	114.7
Ti 337.279	1.131	1.067	0.000	mg/L	87.2
Tl 190.801	0.5121	0.4736	0.002	mg/L	92.3
V 292.402	0.5166	0.4823	0.005	mg/L	93.1
Zn 213.857	0.5863	0.5699	0.006	mg/L	96.7

Sequence No.: 71 **Autosampler Location:** 57
Sample ID: BF62320-SD1 **Date Collected:** 6/24/2006 12:34:20 AM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: BF62320-SD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	899.3	350.6	0.1961	mg/L	0.1961	mg/L	00:35:53
1	Li 670.784†	210.0	42.9	-0.0011	mg/L	-0.0011	mg/L	00:35:53
1	Na 589.592	8956.4	9769.6	1.085	mg/L	1.085	mg/L	00:35:53
1	Y 371.029	3317432.0	3317432.0	0.986	mg/L			00:36:08
1	Ag 328.068†	-1725.9	803.5	0.0022	mg/L	0.0022	mg/L	00:36:13
1	Al 237.313†	13671.2	13917.0	1.553	mg/L	1.553	mg/L	00:36:13
1	As 188.979†	16.3	11.8	0.0190	mg/L	0.0190	mg/L	00:36:33
1	B 182.528†	-4.0	-1.4	0.0025	mg/L	0.0025	mg/L	00:36:33
1	Ba 233.527†	1254.4	1452.0	0.0117	mg/L	0.0117	mg/L	00:36:33
1	Be 313.107†	2949.2	788.3	0.0002	mg/L	0.0002	mg/L	00:36:13
1	Ca 315.886†	201074.7	202090.1	1.382	mg/L	1.382	mg/L	00:36:08
1	Cd 228.802†	148.2	34.7	0.0008	mg/L	0.0008	mg/L	00:36:33
1	Co 228.616†	-64.1	111.8	0.0024	mg/L	0.0024	mg/L	00:36:33
1	Cr 267.716†	2513.0	1192.8	0.0076	mg/L	0.0076	mg/L	00:36:13
1	Cu 324.752†	4596.8	2738.2	0.0100	mg/L	0.0100	mg/L	00:36:13
1	Fe 234.349†	269985.2	272553.7	5.206	mg/L	5.206	mg/L	00:36:08
1	Fe 238.204†	604475.3	611882.7	5.229	mg/L	5.229	mg/L	00:36:08
1	Mg 279.077†	10415.0	10019.1	0.3902	mg/L	0.3902	mg/L	00:36:13
1	Mn 257.610†	118538.4	118327.7	0.1277	mg/L	0.1277	mg/L	00:36:13
1	Mo 202.031†	70.8	34.5	0.0024	mg/L	0.0024	mg/L	00:36:33
1	Ni 231.604†	400.2	376.2	0.0123	mg/L	0.0123	mg/L	00:36:33
1	P 214.914†	988.8	959.0	0.7088	mg/L	0.7088	mg/L	00:36:33
1	Pb 220.353†	-112.2	37.7	0.0026	mg/L	0.0026	mg/L	00:36:33
1	Sb 206.836†	-1.1	-16.3	-0.0075	mg/L	-0.0075	mg/L	00:36:33
1	Se 196.026†	-6.7	-2.8	0.0069	mg/L	0.0069	mg/L	00:36:33
1	Sn 189.927†	101.3	-87.1	-0.0297	mg/L	-0.0297	mg/L	00:36:33
1	Sr 407.771†	184374.5	180669.4	0.0079	mg/L	0.0079	mg/L	00:36:08
1	Ti 337.279†	98386.5	101748.0	0.1290	mg/L	0.1290	mg/L	00:36:13
1	Tl 190.801†	-3.7	-23.2	0.0041	mg/L	0.0041	mg/L	00:36:33
1	V 292.402†	-695.2	921.9	0.0036	mg/L	0.0036	mg/L	00:36:13
1	Zn 213.857†	2114.4	1470.3	0.0190	mg/L	0.0190	mg/L	00:36:33
2	K 766.490†	846.1	287.4	0.1615	mg/L	0.1615	mg/L	00:35:59
2	Li 670.784†	185.1	15.7	-0.0019	mg/L	-0.0019	mg/L	00:35:59
2	Na 589.592	9026.0	9839.2	1.094	mg/L	1.094	mg/L	00:35:59
2	Y 371.029	3353305.2	3353305.2	0.997	mg/L			00:36:40
2	Ag 328.068†	-1849.7	698.1	0.0018	mg/L	0.0018	mg/L	00:36:45
2	Al 237.313†	13859.4	13957.5	1.557	mg/L	1.557	mg/L	00:36:45
2	As 188.979†	13.0	8.3	0.0142	mg/L	0.0142	mg/L	00:37:05
2	B 182.528†	-2.7	0.1	0.0057	mg/L	0.0057	mg/L	00:37:05
2	Ba 233.527†	1245.0	1429.0	0.0115	mg/L	0.0115	mg/L	00:37:05

2	Be 313.107†	2957.0	764.1	0.0002 mg/L	0.0002 mg/L	00:36:45
2	Ca 315.886†	203754.6	202597.3	1.386 mg/L	1.386 mg/L	00:36:40
2	Cd 228.802†	145.8	30.6	0.0007 mg/L	0.0007 mg/L	00:37:05
2	Co 228.616†	-55.3	121.4	0.0027 mg/L	0.0027 mg/L	00:37:05
2	Cr 267.716†	2582.4	1235.2	0.0079 mg/L	0.0079 mg/L	00:36:45
2	Cu 324.752†	4667.5	2759.2	0.0101 mg/L	0.0101 mg/L	00:36:45
2	Fe 234.349†	274605.1	274259.7	5.239 mg/L	5.239 mg/L	00:36:40
2	Fe 238.204†	612884.4	613761.3	5.245 mg/L	5.245 mg/L	00:36:40
2	Mg 279.077†	10508.1	9999.5	0.3894 mg/L	0.3894 mg/L	00:36:45
2	Mn 257.610†	119801.1	118308.5	0.1276 mg/L	0.1276 mg/L	00:36:45
2	Mo 202.031†	70.2	33.1	0.0023 mg/L	0.0023 mg/L	00:37:05
2	Ni 231.604†	408.6	380.3	0.0125 mg/L	0.0125 mg/L	00:37:05
2	P 214.914†	989.8	949.3	0.7019 mg/L	0.7019 mg/L	00:37:05
2	Pb 220.353†	-125.1	26.0	0.0013 mg/L	0.0013 mg/L	00:37:05
2	Sb 206.836†	13.8	-1.3	-0.0002 mg/L	-0.0002 mg/L	00:37:05
2	Se 196.026†	-7.6	-3.6	0.0059 mg/L	0.0059 mg/L	00:37:05
2	Sn 189.927†	107.6	-81.8	-0.0283 mg/L	-0.0283 mg/L	00:37:05
2	Sr 407.771†	185946.9	180246.7	0.0079 mg/L	0.0079 mg/L	00:36:40
2	Ti 337.279†	99420.3	101717.7	0.1290 mg/L	0.1290 mg/L	00:36:45
2	Tl 190.801†	-5.2	-24.8	0.0029 mg/L	0.0029 mg/L	00:37:05
2	V 292.402†	-615.8	1009.1	0.0039 mg/L	0.0039 mg/L	00:36:45
2	Zn 213.857†	2112.4	1445.4	0.0187 mg/L	0.0187 mg/L	00:37:05

Mean Data: BF62320-SD1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3335368.6	0.991	mg/L	0.0075				0.76%
Ag 328.068†	750.8	0.0020	mg/L	0.00026	0.0020	mg/L	0.00026	12.77%
Al 237.313†	13937.3	1.555	mg/L	0.0031	1.555	mg/L	0.0031	0.20%
As 188.979†	10.0	0.0166	mg/L	0.00338	0.0166	mg/L	0.00338	20.40%
B 182.528†	-0.7	0.0041	mg/L	0.00226	0.0041	mg/L	0.00226	54.74%
Ba 233.527†	1440.5	0.0116	mg/L	0.00014	0.0116	mg/L	0.00014	1.17%
Be 313.107†	776.2	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	1.93%
Ca 315.886†	202343.7	1.384	mg/L	0.0025	1.384	mg/L	0.0025	0.18%
Cd 228.802†	32.6	0.0007	mg/L	0.00005	0.0007	mg/L	0.00005	6.90%
Co 228.616†	116.6	0.0025	mg/L	0.00018	0.0025	mg/L	0.00018	6.99%
Cr 267.716†	1214.0	0.0078	mg/L	0.00020	0.0078	mg/L	0.00020	2.53%
Cu 324.752†	2748.7	0.0100	mg/L	0.00006	0.0100	mg/L	0.00006	0.60%
Fe 234.349†	273406.7	5.222	mg/L	0.0231	5.222	mg/L	0.0231	0.44%
Fe 238.204†	612822.0	5.237	mg/L	0.0114	5.237	mg/L	0.0114	0.22%
K 766.490†	319.0	0.1788	mg/L	0.02447	0.1788	mg/L	0.02447	13.68%
Li 670.784†	29.3	-0.0015	mg/L	0.00055	-0.0015	mg/L	0.00055	37.60%
Mg 279.077†	10009.3	0.3898	mg/L	0.00057	0.3898	mg/L	0.00057	0.15%
Mn 257.610†	118318.1	0.1276	mg/L	0.00001	0.1276	mg/L	0.00001	0.01%
Mo 202.031†	33.8	0.0024	mg/L	0.00006	0.0024	mg/L	0.00006	2.62%
Na 589.592	9804.4	1.090	mg/L	0.0060	1.090	mg/L	0.0060	0.55%
Ni 231.604†	378.3	0.0124	mg/L	0.00009	0.0124	mg/L	0.00009	0.75%
P 214.914†	954.1	0.7053	mg/L	0.00489	0.7053	mg/L	0.00489	0.69%
Pb 220.353†	31.9	0.0019	mg/L	0.00094	0.0019	mg/L	0.00094	48.20%
Sb 206.836†	-8.8	-0.0038	mg/L	0.00511	-0.0038	mg/L	0.00511	133.22%
Se 196.026†	-3.2	0.0064	mg/L	0.00073	0.0064	mg/L	0.00073	11.43%
Sn 189.927†	-84.5	-0.0290	mg/L	0.00099	-0.0290	mg/L	0.00099	3.42%
Sr 407.771†	180458.0	0.0079	mg/L	0.00001	0.0079	mg/L	0.00001	0.17%
Ti 337.279†	101732.9	0.1290	mg/L	0.00003	0.1290	mg/L	0.00003	0.02%
Tl 190.801†	-24.0	0.0035	mg/L	0.00088	0.0035	mg/L	0.00088	24.96%
V 292.402†	965.5	0.0038	mg/L	0.00024	0.0038	mg/L	0.00024	6.42%
Zn 213.857†	1457.8	0.0189	mg/L	0.00023	0.0189	mg/L	0.00023	1.22%

Dilution Check: BF62320-SD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	0.1330	0.1788	0.024	mg/L	34.5
Li 670.784	0.0008	-0.0015	0.001	mg/L	289.8
Na 589.592	1.112	1.090	0.006	mg/L	2.0
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.0008	0.0020	0.000	mg/L	166.8
Al 237.313	1.519	1.555	0.003	mg/L	2.4
As 188.979	0.0128	0.0166	0.003	mg/L	29.1
B 182.528	0.0003	0.0041	0.002	mg/L	1294.2
Ba 233.527	0.0115	0.0116	0.000	mg/L	0.8

Be 313.107	0.0000	0.0002	0.000	mg/L	362.4
Ca 315.886	1.375	1.384	0.002	mg/L	0.7
Cd 228.802	0.0005	0.0007	0.000	mg/L	55.4
Co 228.616	0.0024	0.0025	0.000	mg/L	6.5
Cr 267.716	0.0064	0.0078	0.000	mg/L	21.8
Cu 324.752	0.0080	0.0100	0.000	mg/L	25.0
Fe 234.349	5.049	5.222	0.023	mg/L	3.4
Fe 238.204	5.025	5.237	0.011	mg/L	4.2
Mg 279.077	0.3864	0.3898	0.001	mg/L	0.9
Mn 257.610	0.1248	0.1276	0.000	mg/L	2.3
Mo 202.031	0.0023	0.0024	0.000	mg/L	5.3
Ni 231.604	0.0109	0.0124	0.000	mg/L	13.3
P 214.914	0.6695	0.7053	0.005	mg/L	5.4
Pb 220.353	0.0033	0.0019	0.001	mg/L	41.3
Sb 206.836	-0.0002	-0.0038	0.005	mg/L	-1710.0
Se 196.026	0.0019	0.0064	0.001	mg/L	244.6
Sn 189.927	-0.0012	-0.0290	0.001	mg/L	-2287.2
Sr 407.771	0.0079	0.0079	0.000	mg/L	0.9
Ti 337.279	0.1262	0.1290	0.000	mg/L	2.2
Tl 190.801	0.0024	0.0035	0.001	mg/L	45.2
V 292.402	0.0033	0.0038	0.000	mg/L	13.0
Zn 213.857	0.0173	0.0189	0.000	mg/L	9.4

Sequence No.: 72
Sample ID: BF62320-PDS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 58
Date Collected: 6/24/2006 12:38:42 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62320-PDS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	45226.7	46024.9	25.24	mg/L	25.24	mg/L	00:40:15
1	Li 670.784†	17175.6	17521.9	0.5011	mg/L	0.5011	mg/L	00:40:15
1	Na 589.592	242631.9	243445.1	29.48	mg/L	29.48	mg/L	00:40:15
1	Y 371.029	3266020.6	3266020.6	0.971	mg/L			00:40:33
1	Ag 328.068†	65435.6	69956.6	0.2442	mg/L	0.2442	mg/L	00:40:38
1	Al 237.313†	85162.7	87776.0	9.808	mg/L	9.808	mg/L	00:40:38
1	As 188.979†	373.3	379.8	0.5213	mg/L	0.5213	mg/L	00:40:58
1	B 182.528†	213.5	222.6	0.5058	mg/L	0.5058	mg/L	00:40:58
1	Ba 233.527†	61916.2	63957.5	0.5329	mg/L	0.5329	mg/L	00:40:38
1	Be 313.107†	228821.8	233498.4	0.0476	mg/L	0.0476	mg/L	00:40:38
1	Ca 315.886†	1637436.6	1684842.7	11.56	mg/L	11.56	mg/L	00:40:33
1	Cd 228.802†	9434.2	9602.1	0.2366	mg/L	0.2366	mg/L	00:40:58
1	Co 228.616†	17759.0	18469.7	0.4811	mg/L	0.4811	mg/L	00:40:38
1	Cr 267.716†	79750.8	80792.8	0.5248	mg/L	0.5248	mg/L	00:40:38
1	Cu 324.752†	139746.4	142024.1	0.5434	mg/L	0.5434	mg/L	00:40:38
1	Fe 234.349†	1378386.6	1418586.5	27.11	mg/L	27.11	mg/L	00:40:33
1	Fe 238.204†	3048920.2	3139463.7	26.85	mg/L	26.85	mg/L	00:40:33
1	Mg 279.077†	159264.9	163510.1	6.555	mg/L	6.555	mg/L	00:40:38
1	Mn 257.610†	965004.9	992133.5	1.089	mg/L	1.089	mg/L	00:40:33
1	Mo 202.031†	7217.2	7396.9	0.4869	mg/L	0.4869	mg/L	00:40:58
1	Ni 231.604†	16580.4	17049.3	0.5463	mg/L	0.5463	mg/L	00:40:38
1	P 214.914†	10555.4	10828.9	7.743	mg/L	7.743	mg/L	00:40:58
1	Pb 220.353†	4000.9	4272.7	0.4824	mg/L	0.4824	mg/L	00:40:58
1	Sb 206.836†	898.0	909.8	0.4267	mg/L	0.4267	mg/L	00:40:58
1	Se 196.026†	699.5	724.6	0.9186	mg/L	0.9186	mg/L	00:40:58
1	Sn 189.927†	1967.6	1836.9	0.4819	mg/L	0.4819	mg/L	00:40:58
1	Sr 407.771†	1879279.4	1929471.0	0.0870	mg/L	0.0870	mg/L	00:40:33
1	Ti 337.279†	773754.9	798990.3	1.009	mg/L	1.009	mg/L	00:40:33
1	Tl 190.801†	582.9	581.0	0.5092	mg/L	0.5092	mg/L	00:40:58
1	V 292.402†	120891.9	126153.1	0.5050	mg/L	0.5050	mg/L	00:40:38
1	Zn 213.857†	42368.2	42968.0	0.5517	mg/L	0.5517	mg/L	00:40:38
2	K 766.490†	46544.6	47496.8	26.05	mg/L	26.05	mg/L	00:40:21
2	Li 670.784†	17705.9	18111.7	0.5180	mg/L	0.5180	mg/L	00:40:21
2	Na 589.592	244025.4	244838.6	29.65	mg/L	29.65	mg/L	00:40:21
2	Y 371.029	3258252.5	3258252.5	0.969	mg/L			00:41:07
2	Ag 328.068†	65312.3	69989.9	0.2443	mg/L	0.2443	mg/L	00:41:13
2	Al 237.313†	85824.1	88668.0	9.909	mg/L	9.909	mg/L	00:41:13
2	As 188.979†	369.7	377.0	0.5175	mg/L	0.5175	mg/L	00:41:33

2	B 182.528†	209.9	219.4	0.4987 mg/L	0.4987 mg/L	00:41:33
2	Ba 233.527†	62317.5	64523.9	0.5376 mg/L	0.5376 mg/L	00:41:13
2	Be 313.107†	229316.4	234570.9	0.0478 mg/L	0.0478 mg/L	00:41:13
2	Ca 315.886†	1631530.2	1682765.4	11.54 mg/L	11.54 mg/L	00:41:07
2	Cd 228.802†	9383.3	9572.7	0.2360 mg/L	0.2360 mg/L	00:41:33
2	Co 228.616†	17908.7	18667.9	0.4863 mg/L	0.4863 mg/L	00:41:13
2	Cr 267.716†	79938.0	81181.8	0.5273 mg/L	0.5273 mg/L	00:41:13
2	Cu 324.752†	139598.7	142214.8	0.5440 mg/L	0.5440 mg/L	00:41:13
2	Fe 234.349†	1366153.7	1409340.9	26.93 mg/L	26.93 mg/L	00:41:07
2	Fe 238.204†	3034679.3	3132247.2	26.79 mg/L	26.79 mg/L	00:41:07
2	Mg 279.077†	160016.8	164677.6	6.601 mg/L	6.601 mg/L	00:41:13
2	Mn 257.610†	961634.4	991023.2	1.088 mg/L	1.088 mg/L	00:41:07
2	Mo 202.031†	7201.0	7397.9	0.4870 mg/L	0.4870 mg/L	00:41:33
2	Ni 231.604†	16501.8	17008.8	0.5450 mg/L	0.5450 mg/L	00:41:13
2	P 214.914†	10530.2	10828.8	7.743 mg/L	7.743 mg/L	00:41:33
2	Pb 220.353†	3989.0	4270.2	0.4822 mg/L	0.4822 mg/L	00:41:33
2	Sb 206.836†	901.4	915.5	0.4293 mg/L	0.4293 mg/L	00:41:33
2	Se 196.026†	691.0	717.5	0.9097 mg/L	0.9097 mg/L	00:41:33
2	Sn 189.927†	1950.9	1824.6	0.4786 mg/L	0.4786 mg/L	00:41:33
2	Sr 407.771†	1874521.3	1929173.3	0.0870 mg/L	0.0870 mg/L	00:41:07
2	Ti 337.279†	771611.0	798676.9	1.008 mg/L	1.008 mg/L	00:41:07
2	Tl 190.801†	577.5	576.8	0.5058 mg/L	0.5058 mg/L	00:41:33
2	V 292.402†	121419.1	126994.4	0.5084 mg/L	0.5084 mg/L	00:41:13
2	Zn 213.857†	42584.1	43295.0	0.5559 mg/L	0.5559 mg/L	00:41:13

Mean Data: BF62320-PDS1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3262136.5	0.970	mg/L	0.0016				0.17%
Ag 328.068†	69973.3	0.2442	mg/L	0.00008	0.2442	mg/L	0.00008	0.03%
Al 237.313†	88222.0	9.859	mg/L	0.0719	9.859	mg/L	0.0719	0.73%
As 188.979†	378.4	0.5194	mg/L	0.00273	0.5194	mg/L	0.00273	0.53%
B 182.528†	221.0	0.5022	mg/L	0.00504	0.5022	mg/L	0.00504	1.00%
Ba 233.527†	64240.7	0.5352	mg/L	0.00334	0.5352	mg/L	0.00334	0.62%
Be 313.107†	234034.7	0.0477	mg/L	0.00016	0.0477	mg/L	0.00016	0.33%
Ca 315.886†	1683804.1	11.55	mg/L	0.010	11.55	mg/L	0.010	0.09%
Cd 228.802†	9587.4	0.2363	mg/L	0.00048	0.2363	mg/L	0.00048	0.20%
Co 228.616†	18568.8	0.4837	mg/L	0.00367	0.4837	mg/L	0.00367	0.76%
Cr 267.716†	80987.3	0.5261	mg/L	0.00178	0.5261	mg/L	0.00178	0.34%
Cu 324.752†	142119.5	0.5437	mg/L	0.00049	0.5437	mg/L	0.00049	0.09%
Fe 234.349†	1413963.7	27.02	mg/L	0.125	27.02	mg/L	0.125	0.46%
Fe 238.204†	3135855.4	26.82	mg/L	0.044	26.82	mg/L	0.044	0.16%
K 766.490†	46760.9	25.64	mg/L	0.571	25.64	mg/L	0.571	2.23%
Li 670.784†	17816.8	0.5095	mg/L	0.01198	0.5095	mg/L	0.01198	2.35%
Mg 279.077†	164093.9	6.578	mg/L	0.0332	6.578	mg/L	0.0332	0.50%
Mn 257.610†	991578.3	1.088	mg/L	0.0009	1.088	mg/L	0.0009	0.08%
Mo 202.031†	7397.4	0.4870	mg/L	0.00005	0.4870	mg/L	0.00005	0.01%
Na 589.592	244141.8	29.56	mg/L	0.120	29.56	mg/L	0.120	0.40%
Ni 231.604†	17029.1	0.5457	mg/L	0.00091	0.5457	mg/L	0.00091	0.17%
P 214.914†	10828.9	7.743	mg/L	0.0001	7.743	mg/L	0.0001	0.00%
Pb 220.353†	4271.5	0.4823	mg/L	0.00018	0.4823	mg/L	0.00018	0.04%
Sb 206.836†	912.7	0.4280	mg/L	0.00189	0.4280	mg/L	0.00189	0.44%
Se 196.026†	721.1	0.9141	mg/L	0.00634	0.9141	mg/L	0.00634	0.69%
Sn 189.927†	1830.8	0.4803	mg/L	0.00233	0.4803	mg/L	0.00233	0.48%
Sr 407.771†	1929322.1	0.0870	mg/L	0.00001	0.0870	mg/L	0.00001	0.01%
Ti 337.279†	798833.6	1.008	mg/L	0.0003	1.008	mg/L	0.0003	0.03%
Tl 190.801†	578.9	0.5075	mg/L	0.00246	0.5075	mg/L	0.00246	0.49%
V 292.402†	126573.8	0.5067	mg/L	0.00238	0.5067	mg/L	0.00238	0.47%
Zn 213.857†	43131.5	0.5538	mg/L	0.00301	0.5538	mg/L	0.00301	0.54%

Matrix Recovery Check: BF62320-PDS1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	25.66	25.64	0.571	mg/L	99.9
Li 670.784	0.5039	0.5095	0.012	mg/L	101.1
Na 589.592	30.56	29.56	0.120	mg/L	96.0
Ag 328.068	0.2538	0.2442	0.000	mg/L	96.2
Al 237.313	10.09	9.859	0.072	mg/L	90.6
As 188.979	0.5641	0.5194	0.003	mg/L	91.1
B 182.528	0.5015	0.5022	0.005	mg/L	100.2

Ba 233.527	0.5577	0.5352	0.003	mg/L	95.5
Be 313.107	0.0502	0.0477	0.000	mg/L	95.0
Ca 315.886	11.87	11.55	0.010	mg/L	93.5
Cd 228.802	0.2523	0.2363	0.000	mg/L	93.6
Co 228.616	0.5119	0.4837	0.004	mg/L	94.4
Cr 267.716	0.5319	0.5261	0.002	mg/L	98.8
Cu 324.752	0.5402	0.5437	0.000	mg/L	100.7
Fe 234.349	27.74	27.02	0.125	mg/L	71.0
Fe 238.204	27.62	26.82	0.044	mg/L	67.9
Mg 279.077	6.932	6.578	0.033	mg/L	92.9
Mn 257.610	1.124	1.088	0.001	mg/L	92.9
Mo 202.031	0.5113	0.4870	0.000	mg/L	95.1
Ni 231.604	0.5547	0.5457	0.001	mg/L	98.2
P 214.914	8.347	7.743	0.000	mg/L	87.9
Pb 220.353	0.5166	0.4823	0.000	mg/L	93.1
Sb 206.836	0.4989	0.4280	0.002	mg/L	85.8
Se 196.026	1.009	0.9141	0.006	mg/L	90.5
Sn 189.927	0.4939	0.4803	0.002	mg/L	97.3
Sr 407.771	0.0893	0.0870	0.000	mg/L	95.5
Ti 337.279	1.131	1.008	0.000	mg/L	75.5
Tl 190.801	0.5121	0.5075	0.002	mg/L	99.1
V 292.402	0.5166	0.5067	0.002	mg/L	98.0
Zn 213.857	0.5863	0.5538	0.003	mg/L	93.5

Sequence No.: 73
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/24/2006 12:43:10 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	43974.4	44572.9	24.44	mg/L	24.44	mg/L	00:44:44
1	Li 670.784†	17085.2	17365.8	0.4966	mg/L	0.4966	mg/L	00:44:44
1	Na 589.592	195126.4	195939.6	23.70	mg/L	23.70	mg/L	00:44:44
1	Y 371.029	3277754.7	3277754.7	0.974	mg/L			00:44:58
1	Ag 328.068†	65550.2	69832.9	0.2428	mg/L	0.2428	mg/L	00:45:04
1	Al 237.313†	20664.5	21262.6	2.398	mg/L	2.398	mg/L	00:45:04
1	As 188.979†	353.1	357.7	0.4915	mg/L	0.4915	mg/L	00:45:24
1	B 182.528†	213.4	221.8	0.5040	mg/L	0.5040	mg/L	00:45:24
1	Ba 233.527†	56339.0	58004.9	0.4832	mg/L	0.4832	mg/L	00:45:04
1	Be 313.107†	227565.5	231365.1	0.0476	mg/L	0.0476	mg/L	00:45:04
1	Ca 315.886†	687464.8	703777.2	4.827	mg/L	4.827	mg/L	00:44:58
1	Cd 228.802†	9557.9	9694.3	0.2389	mg/L	0.2389	mg/L	00:45:24
1	Co 228.616†	17604.6	18245.8	0.4763	mg/L	0.4763	mg/L	00:45:04
1	Cr 267.716†	74130.0	74729.6	0.4844	mg/L	0.4844	mg/L	00:45:04
1	Cu 324.752†	127928.4	129379.0	0.4905	mg/L	0.4905	mg/L	00:45:04
1	Fe 234.349†	124804.5	126858.2	2.416	mg/L	2.416	mg/L	00:45:04
1	Fe 238.204†	276885.5	283073.0	2.417	mg/L	2.417	mg/L	00:45:04
1	Mg 279.077†	117880.0	120446.3	4.829	mg/L	4.829	mg/L	00:45:04
1	Mn 257.610†	433601.0	443155.2	0.4851	mg/L	0.4851	mg/L	00:44:58
1	Mo 202.031†	7044.2	7192.7	0.4735	mg/L	0.4735	mg/L	00:45:24
1	Ni 231.604†	15162.1	15532.4	0.4978	mg/L	0.4978	mg/L	00:45:04
1	P 214.914†	6434.1	6560.1	4.701	mg/L	4.701	mg/L	00:45:24
1	Pb 220.353†	3923.4	4178.4	0.4715	mg/L	0.4715	mg/L	00:45:24
1	Sb 206.836†	967.2	977.5	0.4606	mg/L	0.4606	mg/L	00:45:24
1	Se 196.026†	738.0	761.6	0.9649	mg/L	0.9649	mg/L	00:45:24
1	Sn 189.927†	1866.6	1726.0	0.4510	mg/L	0.4510	mg/L	00:45:24
1	Sr 407.771†	1063701.5	1085452.1	0.0488	mg/L	0.0488	mg/L	00:44:58
1	Ti 337.279†	370161.0	381898.3	0.4824	mg/L	0.4824	mg/L	00:45:04
1	Tl 190.801†	604.0	600.4	0.5159	mg/L	0.5159	mg/L	00:45:24
1	V 292.402†	117081.8	121796.7	0.4914	mg/L	0.4914	mg/L	00:45:04
1	Zn 213.857†	37068.3	37372.1	0.4816	mg/L	0.4816	mg/L	00:45:04
2	K 766.490†	43983.2	45062.7	24.71	mg/L	24.71	mg/L	00:44:49
2	Li 670.784†	17074.9	17541.9	0.5016	mg/L	0.5016	mg/L	00:44:49
2	Na 589.592	192028.4	192841.6	23.33	mg/L	23.33	mg/L	00:44:49
2	Y 371.029	3243208.7	3243208.7	0.964	mg/L			00:45:31
2	Ag 328.068†	64658.0	69624.1	0.2420	mg/L	0.2420	mg/L	00:45:36
2	Al 237.313†	20336.3	21148.0	2.385	mg/L	2.385	mg/L	00:45:36

2	As 188.979†	352.3	360.8	0.4958 mg/L	0.4958 mg/L	00:45:56
2	B 182.528†	210.1	220.7	0.5015 mg/L	0.5015 mg/L	00:45:56
2	Ba 233.527†	55241.3	57482.1	0.4789 mg/L	0.4789 mg/L	00:45:36
2	Be 313.107†	223868.1	230017.7	0.0473 mg/L	0.0473 mg/L	00:45:36
2	Ca 315.886†	677988.5	701463.2	4.811 mg/L	4.811 mg/L	00:45:31
2	Cd 228.802†	9538.6	9778.8	0.2409 mg/L	0.2409 mg/L	00:45:56
2	Co 228.616†	17262.1	18082.9	0.4721 mg/L	0.4721 mg/L	00:45:36
2	Cr 267.716†	72777.8	74137.4	0.4805 mg/L	0.4805 mg/L	00:45:36
2	Cu 324.752†	126024.1	128802.4	0.4883 mg/L	0.4883 mg/L	00:45:36
2	Fe 234.349†	122166.9	125486.6	2.390 mg/L	2.390 mg/L	00:45:36
2	Fe 238.204†	271722.3	280744.3	2.397 mg/L	2.397 mg/L	00:45:36
2	Mg 279.077†	115677.5	119450.4	4.789 mg/L	4.789 mg/L	00:45:36
2	Mn 257.610†	427974.8	442059.5	0.4839 mg/L	0.4839 mg/L	00:45:31
2	Mo 202.031†	7078.8	7305.6	0.4809 mg/L	0.4809 mg/L	00:45:56
2	Ni 231.604†	14805.9	15328.7	0.4913 mg/L	0.4913 mg/L	00:45:36
2	P 214.914†	6428.1	6624.1	4.746 mg/L	4.746 mg/L	00:45:56
2	Pb 220.353†	3923.5	4221.4	0.4763 mg/L	0.4763 mg/L	00:45:56
2	Sb 206.836†	963.0	983.8	0.4636 mg/L	0.4636 mg/L	00:45:56
2	Se 196.026†	741.0	772.7	0.9789 mg/L	0.9789 mg/L	00:45:56
2	Sn 189.927†	1846.8	1725.9	0.4510 mg/L	0.4510 mg/L	00:45:56
2	Sr 407.771†	1053307.8	1086299.9	0.0489 mg/L	0.0489 mg/L	00:45:31
2	Ti 337.279†	364582.2	380158.3	0.4802 mg/L	0.4802 mg/L	00:45:36
2	Tl 190.801†	598.4	601.2	0.5165 mg/L	0.5165 mg/L	00:45:56
2	V 292.402†	115244.6	121171.0	0.4890 mg/L	0.4890 mg/L	00:45:36
2	Zn 213.857†	36223.1	36900.5	0.4755 mg/L	0.4755 mg/L	00:45:36

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3260481.7	0.969	mg/L	0.0073				0.75%
Ag 328.068†	69728.5	0.2424	mg/L	0.00051	0.2424	mg/L	0.00051	0.21%
QC value within limits for Ag 328.068 Recovery = 96.96%								
Al 237.313†	21205.3	2.391	mg/L	0.0091	2.391	mg/L	0.0091	0.38%
QC value within limits for Al 237.313 Recovery = 95.66%								
As 188.979†	359.2	0.4936	mg/L	0.00301	0.4936	mg/L	0.00301	0.61%
QC value within limits for As 188.979 Recovery = 98.73%								
B 182.528†	221.2	0.5027	mg/L	0.00179	0.5027	mg/L	0.00179	0.36%
QC value within limits for B 182.528 Recovery = 100.54%								
Ba 233.527†	57743.5	0.4811	mg/L	0.00308	0.4811	mg/L	0.00308	0.64%
QC value within limits for Ba 233.527 Recovery = 96.21%								
Be 313.107†	230691.4	0.0474	mg/L	0.00020	0.0474	mg/L	0.00020	0.41%
QC value within limits for Be 313.107 Recovery = 94.88%								
Ca 315.886†	702620.2	4.819	mg/L	0.0112	4.819	mg/L	0.0112	0.23%
QC value within limits for Ca 315.886 Recovery = 96.38%								
Cd 228.802†	9736.6	0.2399	mg/L	0.00144	0.2399	mg/L	0.00144	0.60%
QC value within limits for Cd 228.802 Recovery = 95.96%								
Co 228.616†	18164.4	0.4742	mg/L	0.00301	0.4742	mg/L	0.00301	0.63%
QC value within limits for Co 228.616 Recovery = 94.84%								
Cr 267.716†	74433.5	0.4824	mg/L	0.00272	0.4824	mg/L	0.00272	0.56%
QC value within limits for Cr 267.716 Recovery = 96.49%								
Cu 324.752†	129090.7	0.4894	mg/L	0.00155	0.4894	mg/L	0.00155	0.32%
QC value within limits for Cu 324.752 Recovery = 97.87%								
Fe 234.349†	126172.4	2.403	mg/L	0.0185	2.403	mg/L	0.0185	0.77%
QC value within limits for Fe 234.349 Recovery = 96.10%								
Fe 238.204†	281908.7	2.407	mg/L	0.0141	2.407	mg/L	0.0141	0.59%
QC value within limits for Fe 238.204 Recovery = 96.28%								
K 766.490†	44817.8	24.58	mg/L	0.190	24.58	mg/L	0.190	0.77%
QC value within limits for K 766.490 Recovery = 98.31%								
Li 670.784†	17453.9	0.4991	mg/L	0.00358	0.4991	mg/L	0.00358	0.72%
QC value within limits for Li 670.784 Recovery = 99.82%								
Mg 279.077†	119948.4	4.809	mg/L	0.0283	4.809	mg/L	0.0283	0.59%
QC value within limits for Mg 279.077 Recovery = 96.18%								
Mn 257.610†	442607.4	0.4845	mg/L	0.00085	0.4845	mg/L	0.00085	0.18%
QC value within limits for Mn 257.610 Recovery = 96.90%								
Mo 202.031†	7249.1	0.4772	mg/L	0.00525	0.4772	mg/L	0.00525	1.10%
QC value within limits for Mo 202.031 Recovery = 95.44%								
Na 589.592	194390.6	23.52	mg/L	0.266	23.52	mg/L	0.266	1.13%
QC value within limits for Na 589.592 Recovery = 94.06%								
Ni 231.604†	15430.6	0.4945	mg/L	0.00461	0.4945	mg/L	0.00461	0.93%
QC value within limits for Ni 231.604 Recovery = 98.91%								
P 214.914†	6592.1	4.723	mg/L	0.0323	4.723	mg/L	0.0323	0.68%

QC value within limits for P 214.914 Recovery = 94.47%

Pb 220.353†	4199.9	0.4739 mg/L	0.00345	0.4739 mg/L	0.00345	0.73%

QC value within limits for Pb 220.353 Recovery = 94.78%

Sb 206.836†	980.6	0.4621 mg/L	0.00216	0.4621 mg/L	0.00216	0.47%

QC value within limits for Sb 206.836 Recovery = 92.42%

Se 196.026†	767.1	0.9719 mg/L	0.00987	0.9719 mg/L	0.00987	1.02%

QC value within limits for Se 196.026 Recovery = 97.19%

Sn 189.927†	1726.0	0.4510 mg/L	0.00002	0.4510 mg/L	0.00002	0.00%

QC value within limits for Sn 189.927 Recovery = 90.20%

Sr 407.771†	1085876.0	0.0489 mg/L	0.00003	0.0489 mg/L	0.00003	0.06%

QC value within limits for Sr 407.771 Recovery = 97.72%

Ti 337.279†	381028.3	0.4813 mg/L	0.00155	0.4813 mg/L	0.00155	0.32%

QC value within limits for Ti 337.279 Recovery = 96.27%

Tl 190.801†	600.8	0.5162 mg/L	0.00047	0.5162 mg/L	0.00047	0.09%

QC value within limits for Tl 190.801 Recovery = 103.24%

V 292.402†	121483.8	0.4902 mg/L	0.00166	0.4902 mg/L	0.00166	0.34%

QC value within limits for V 292.402 Recovery = 98.04%

Zn 213.857†	37136.3	0.4785 mg/L	0.00428	0.4785 mg/L	0.00428	0.90%

QC value within limits for Zn 213.857 Recovery = 95.71%

All analyte(s) passed QC.

Sequence No.: 74
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/24/2006 12:47:35 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	681.9	128.9	0.0746	mg/L	0.0746	mg/L	00:49:08
1	Li 670.784†	148.8	-19.4	-0.0029	mg/L	-0.0029	mg/L	00:49:08
1	Na 589.592	-623.7	189.5	-0.0785	mg/L	-0.0785	mg/L	00:49:08
1	Y 371.029	3323229.8	3323229.8	0.988	mg/L			00:49:21
1	Ag 328.068†	-1844.3	686.8	0.0016	mg/L	0.0016	mg/L	00:49:26
1	Al 237.313†	-43.2	9.3	0.0039	mg/L	0.0039	mg/L	00:49:47
1	As 188.979†	8.9	4.3	0.0088	mg/L	0.0088	mg/L	00:49:47
1	B 182.528†	2.9	5.6	0.0182	mg/L	0.0182	mg/L	00:49:47
1	Ba 233.527†	-171.7	6.2	-0.0003	mg/L	-0.0003	mg/L	00:49:47
1	Be 313.107†	2308.0	134.0	0.0001	mg/L	0.0001	mg/L	00:49:26
1	Ca 315.886†	1373.4	-429.3	-0.0071	mg/L	-0.0071	mg/L	00:49:26
1	Cd 228.802†	123.6	9.4	0.0001	mg/L	0.0001	mg/L	00:49:47
1	Co 228.616†	-176.0	-1.4	-0.0003	mg/L	-0.0003	mg/L	00:49:47
1	Cr 267.716†	1344.0	5.0	-0.0003	mg/L	-0.0003	mg/L	00:49:26
1	Cu 324.752†	2995.9	1109.4	0.0028	mg/L	0.0028	mg/L	00:49:26
1	Fe 234.349†	1347.1	125.7	-0.0015	mg/L	-0.0015	mg/L	00:49:47
1	Fe 238.204†	1180.7	79.9	-0.0047	mg/L	-0.0047	mg/L	00:49:47
1	Mg 279.077†	586.1	50.6	-0.0093	mg/L	-0.0093	mg/L	00:49:26
1	Mn 257.610†	1941.4	83.3	-0.0024	mg/L	-0.0024	mg/L	00:49:26
1	Mo 202.031†	51.2	14.5	0.0011	mg/L	0.0011	mg/L	00:49:47
1	Ni 231.604†	56.2	27.2	0.0012	mg/L	0.0012	mg/L	00:49:47
1	P 214.914†	27.9	-15.5	0.0144	mg/L	0.0144	mg/L	00:49:47
1	Pb 220.353†	-155.5	-5.9	-0.0024	mg/L	-0.0024	mg/L	00:49:47
1	Sb 206.836†	9.4	-5.6	-0.0020	mg/L	-0.0020	mg/L	00:49:47
1	Se 196.026†	-8.4	-4.4	0.0048	mg/L	0.0048	mg/L	00:49:47
1	Sn 189.927†	81.6	-107.2	-0.0353	mg/L	-0.0353	mg/L	00:49:47
1	Sr 407.771†	6502.0	277.5	-0.0002	mg/L	-0.0002	mg/L	00:49:21
1	Ti 337.279†	-2182.1	-234.7	0.0004	mg/L	0.0004	mg/L	00:49:26
1	Tl 190.801†	-1.4	-20.9	0.0041	mg/L	0.0041	mg/L	00:49:47
1	V 292.402†	-1543.8	64.1	0.0010	mg/L	0.0010	mg/L	00:49:26
1	Zn 213.857†	613.7	-52.7	-0.0002	mg/L	-0.0002	mg/L	00:49:47
2	K 766.490†	633.0	81.1	0.0484	mg/L	0.0484	mg/L	00:49:13
2	Li 670.784†	121.1	-47.2	-0.0037	mg/L	-0.0037	mg/L	00:49:13
2	Na 589.592	-606.6	206.6	-0.0764	mg/L	-0.0764	mg/L	00:49:13
2	Y 371.029	3314828.5	3314828.5	0.985	mg/L			00:49:52
2	Ag 328.068†	-1712.9	815.4	0.0020	mg/L	0.0020	mg/L	00:49:58
2	Al 237.313†	-35.6	16.9	0.0047	mg/L	0.0047	mg/L	00:50:18
2	As 188.979†	7.6	3.0	0.0070	mg/L	0.0070	mg/L	00:50:18
2	B 182.528†	0.4	3.1	0.0127	mg/L	0.0127	mg/L	00:50:18
2	Ba 233.527†	-154.2	23.5	-0.0002	mg/L	-0.0002	mg/L	00:50:18

2	Be 313.107†	2194.2	24.4	0.0001 mg/L	0.0001 mg/L	00:49:58
2	Ca 315.886†	1254.1	-546.9	-0.0079 mg/L	-0.0079 mg/L	00:49:58
2	Cd 228.802†	134.2	20.6	0.0004 mg/L	0.0004 mg/L	00:50:18
2	Co 228.616†	-159.0	15.4	0.0002 mg/L	0.0002 mg/L	00:50:18
2	Cr 267.716†	1269.3	-67.4	-0.0008 mg/L	-0.0008 mg/L	00:49:58
2	Cu 324.752†	2969.1	1089.9	0.0027 mg/L	0.0027 mg/L	00:49:58
2	Fe 234.349†	1335.7	117.6	-0.0016 mg/L	-0.0016 mg/L	00:50:18
2	Fe 238.204†	1152.4	54.2	-0.0049 mg/L	-0.0049 mg/L	00:50:18
2	Mg 279.077†	603.3	69.6	-0.0086 mg/L	-0.0086 mg/L	00:49:58
2	Mn 257.610†	1933.4	80.1	-0.0024 mg/L	-0.0024 mg/L	00:49:58
2	Mo 202.031†	40.0	3.3	0.0004 mg/L	0.0004 mg/L	00:50:18
2	Ni 231.604†	52.6	23.8	0.0011 mg/L	0.0011 mg/L	00:50:18
2	P 214.914†	46.7	3.6	0.0280 mg/L	0.0280 mg/L	00:50:18
2	Pb 220.353†	-157.7	-8.6	-0.0027 mg/L	-0.0027 mg/L	00:50:18
2	Sb 206.836†	8.5	-6.6	-0.0025 mg/L	-0.0025 mg/L	00:50:18
2	Se 196.026†	-11.1	-7.2	0.0013 mg/L	0.0013 mg/L	00:50:18
2	Sn 189.927†	76.2	-112.5	-0.0367 mg/L	-0.0367 mg/L	00:50:18
2	Sr 407.771†	6222.4	10.4	-0.0002 mg/L	-0.0002 mg/L	00:49:52
2	Ti 337.279†	-2120.0	-177.3	0.0005 mg/L	0.0005 mg/L	00:49:58
2	Tl 190.801†	-1.5	-21.0	0.0040 mg/L	0.0040 mg/L	00:50:18
2	V 292.402†	-1608.0	-5.0	0.0007 mg/L	0.0007 mg/L	00:49:58
2	Zn 213.857†	602.5	-62.4	-0.0003 mg/L	-0.0003 mg/L	00:50:18

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3319029.1	0.987	mg/L	0.0018				0.18%
Ag 328.068†	751.1	0.0018	mg/L	0.00032	0.0018	mg/L	0.00032	17.42%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	13.1	0.0043	mg/L	0.00061	0.0043	mg/L	0.00061	14.23%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	3.6	0.0079	mg/L	0.00125	0.0079	mg/L	0.00125	15.86%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	4.4	0.0154	mg/L	0.00391	0.0154	mg/L	0.00391	25.38%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	14.8	-0.0003	mg/L	0.00010	-0.0003	mg/L	0.00010	40.56%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	79.2	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	11.70%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	-488.1	-0.0075	mg/L	0.00057	-0.0075	mg/L	0.00057	7.66%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	15.0	0.0003	mg/L	0.00020	0.0003	mg/L	0.00020	69.89%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	7.0	-0.0001	mg/L	0.00031	-0.0001	mg/L	0.00031	543.17%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-31.2	-0.0005	mg/L	0.00033	-0.0005	mg/L	0.00033	60.59%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	1099.7	0.0027	mg/L	0.00005	0.0027	mg/L	0.00005	1.91%
QC value greater than the upper limit for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	121.6	-0.0015	mg/L	0.00011	-0.0015	mg/L	0.00011	7.01%
QC value within limits for Fe 234.349 Recovery = Not calculated								
Fe 238.204†	67.1	-0.0048	mg/L	0.00016	-0.0048	mg/L	0.00016	3.26%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	105.0	0.0615	mg/L	0.01856	0.0615	mg/L	0.01856	30.18%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	-33.3	-0.0033	mg/L	0.00056	-0.0033	mg/L	0.00056	17.24%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	60.1	-0.0090	mg/L	0.00054	-0.0090	mg/L	0.00054	6.00%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	81.7	-0.0024	mg/L	0.00000	-0.0024	mg/L	0.00000	0.10%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	8.9	0.0008	mg/L	0.00052	0.0008	mg/L	0.00052	69.57%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	198.0	-0.0775	mg/L	0.00146	-0.0775	mg/L	0.00146	1.89%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	25.5	0.0011	mg/L	0.00008	0.0011	mg/L	0.00008	7.06%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 214.914†	-5.9	0.0212	mg/L	0.00964	0.0212	mg/L	0.00964	45.52%
QC value within limits for P 214.914 Recovery = Not calculated								
Pb 220.353†	-7.2	-0.0025	mg/L	0.00022	-0.0025	mg/L	0.00022	8.55%
QC value within limits for Pb 220.353 Recovery = Not calculated								

Sb 206.836†	-6.1	-0.0022 mg/L	0.00032	-0.0022 mg/L	0.00032	14.38%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-5.8	0.0030 mg/L	0.00247	0.0030 mg/L	0.00247	81.26%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-109.8	-0.0360 mg/L	0.00100	-0.0360 mg/L	0.00100	2.78%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	144.0	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	3.75%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	-206.0	0.0004 mg/L	0.00005	0.0004 mg/L	0.00005	11.91%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	-21.0	0.0040 mg/L	0.00006	0.0040 mg/L	0.00006	1.58%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	29.5	0.0009 mg/L	0.00020	0.0009 mg/L	0.00020	23.59%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-57.6	-0.0002 mg/L	0.00009	-0.0002 mg/L	0.00009	37.94%
QC value within limits for Zn 213.857 Recovery = Not calculated						

QC Failed. Continue with analysis.

Sequence No.: 75
Sample ID: 0606374-11
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 59
Date Collected: 6/24/2006 12:51:55 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606374-11

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490†	7895.4	7263.3	3.986	mg/L	3.986	mg/L	00:53:32
1	Li 670.784†	3039.8	2842.5	0.0794	mg/L	0.0794	mg/L	00:53:32
1	Na 589.592	53764.1	54577.3	6.529	mg/L	6.529	mg/L	00:53:32
1	Y 371.029	3394610.7	3394610.7	1.01	mg/L			00:53:57
1	Ag 328.068†	231896.2	232373.0	0.8135	mg/L	0.8135	mg/L	00:54:02
1	Al 237.313†	514997.0	510437.4	57.14	mg/L	57.14	mg/L	00:53:57
1	As 188.979†	120.7	114.9	0.1568	mg/L	0.1568	mg/L	00:54:22
1	B 182.528†	-13.1	-10.2	-0.0174	mg/L	-0.0174	mg/L	00:54:22
1	Ba 233.527†	114307.3	113463.5	0.9453	mg/L	0.9453	mg/L	00:54:02
1	Be 313.107†	31174.7	28693.0	0.0043	mg/L	0.0043	mg/L	00:54:02
1	Ca 315.886†	4985743.9	4939268.2	33.89	mg/L	33.89	mg/L	00:53:50
1	Cd 228.802†	1280.9	1153.8	0.0301	mg/L	0.0301	mg/L	00:54:22
1	Co 228.616†	9523.7	9615.3	0.2456	mg/L	0.2456	mg/L	00:54:22
1	Cr 267.716†	254377.1	250743.1	1.634	mg/L	1.634	mg/L	00:54:02
1	Cu 324.752†	2120260.7	2099346.6	7.994	mg/L	7.994	mg/L	00:53:57
1	Fe 234.349†	6837580.4	6775099.8	129.5	mg/L	129.5	mg/L	00:53:50
1	Fe 238.204†	14345696.0	14216089.7	121.6	mg/L	121.6	mg/L	00:53:50
1	Mg 279.077†	319023.8	315623.7	12.63	mg/L	12.63	mg/L	00:54:02
1	Mn 257.610†	1779484.7	1761664.2	1.936	mg/L	1.936	mg/L	00:53:57
1	Mo 202.031†	318.7	278.6	0.0185	mg/L	0.0185	mg/L	00:54:22
1	Ni 231.604†	57099.6	56558.6	1.810	mg/L	1.810	mg/L	00:54:02
1	P 214.914†	28163.8	27867.8	19.89	mg/L	19.89	mg/L	00:54:02
1	Pb 220.353†	34824.3	34663.9	3.917	mg/L	3.917	mg/L	00:54:02
1	Sb 206.836†	102.6	86.5	0.0095	mg/L	0.0095	mg/L	00:54:22
1	Se 196.026†	14.4	18.3	0.0333	mg/L	0.0333	mg/L	00:54:22
1	Sn 189.927†	1512.2	1308.8	0.3477	mg/L	0.3477	mg/L	00:54:22
1	Sr 407.771†	3879802.2	3838747.1	0.1733	mg/L	0.1733	mg/L	00:53:50
1	Ti 337.279†	2074321.4	2057716.5	2.596	mg/L	2.596	mg/L	00:53:57
1	Tl 190.801†	5.5	-14.1	0.0339	mg/L	0.0339	mg/L	00:54:22
1	V 292.402†	184147.3	184124.8	0.7112	mg/L	0.7112	mg/L	00:54:02
1	Zn 213.857†	608429.8	602306.4	7.772	mg/L	7.772	mg/L	00:53:57
2	K 766.490†	8086.9	7512.6	4.123	mg/L	4.123	mg/L	00:53:37
2	Li 670.784†	3006.9	2832.1	0.0790	mg/L	0.0790	mg/L	00:53:37
2	Na 589.592	53641.5	54454.7	6.514	mg/L	6.514	mg/L	00:53:37
2	Y 371.029	3369568.7	3369568.7	1.00	mg/L			00:54:38
2	Ag 328.068†	231543.1	233728.4	0.8183	mg/L	0.8183	mg/L	00:54:44
2	Al 237.313†	508685.4	507928.9	56.86	mg/L	56.86	mg/L	00:54:38
2	As 188.979†	119.3	114.4	0.1562	mg/L	0.1562	mg/L	00:55:04
2	B 182.528†	-8.4	-5.7	-0.0071	mg/L	-0.0071	mg/L	00:55:04
2	Ba 233.527†	114497.4	114495.2	0.9539	mg/L	0.9539	mg/L	00:54:44
2	Be 313.107†	31115.4	28863.4	0.0044	mg/L	0.0044	mg/L	00:54:44
2	Ca 315.886†	4930890.1	4921222.9	33.76	mg/L	33.76	mg/L	00:54:32
2	Cd 228.802†	1279.9	1162.2	0.0303	mg/L	0.0303	mg/L	00:55:04

2	Co 228.616†	9551.4	9713.0	0.2481 mg/L	0.2481 mg/L	00:55:04
2	Cr 267.716†	255594.2	253831.8	1.654 mg/L	1.654 mg/L	00:54:44
2	Cu 324.752†	2090161.5	2084911.5	7.939 mg/L	7.939 mg/L	00:54:38
2	Fe 234.349†	6779519.8	6767492.1	129.3 mg/L	129.3 mg/L	00:54:32
2	Fe 238.204†	14174498.3	14150824.2	121.1 mg/L	121.1 mg/L	00:54:32
2	Mg 279.077†	319151.7	318101.0	12.73 mg/L	12.73 mg/L	00:54:44
2	Mn 257.610†	1758344.9	1753664.4	1.927 mg/L	1.927 mg/L	00:54:38
2	Mo 202.031†	312.3	274.5	0.0182 mg/L	0.0182 mg/L	00:55:04
2	Ni 231.604†	58289.5	58167.1	1.861 mg/L	1.861 mg/L	00:54:44
2	P 214.914†	28026.8	27938.4	19.94 mg/L	19.94 mg/L	00:54:44
2	Pb 220.353†	34811.1	34907.2	3.944 mg/L	3.944 mg/L	00:54:44
2	Sb 206.836†	87.6	72.3	0.0023 mg/L	0.0023 mg/L	00:55:04
2	Se 196.026†	11.3	15.4	0.0296 mg/L	0.0296 mg/L	00:55:04
2	Sn 189.927†	1499.8	1307.6	0.3474 mg/L	0.3474 mg/L	00:55:04
2	Sr 407.771†	3864109.4	3851655.0	0.1739 mg/L	0.1739 mg/L	00:54:32
2	Ti 337.279†	2057109.5	2055809.9	2.594 mg/L	2.594 mg/L	00:54:38
2	Tl 190.801†	-12.7	-32.2	0.0188 mg/L	0.0188 mg/L	00:55:04
2	V 292.402†	185240.4	186572.5	0.7209 mg/L	0.7209 mg/L	00:54:44
2	Zn 213.857†	600988.4	599358.0	7.733 mg/L	7.733 mg/L	00:54:38

Mean Data: 0606374-11

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3382089.7	1.01	mg/L	0.005				0.52%
Ag 328.068†	233050.7	0.8159	mg/L	0.00333	0.8159	mg/L	0.00333	0.41%
Al 237.313†	509183.1	57.00	mg/L	0.200	57.00	mg/L	0.200	0.35%
As 188.979†	114.6	0.1565	mg/L	0.00044	0.1565	mg/L	0.00044	0.28%
B 182.528†	-7.9	-0.0123	mg/L	0.00727	-0.0123	mg/L	0.00727	59.32%
Ba 233.527†	113979.3	0.9496	mg/L	0.00608	0.9496	mg/L	0.00608	0.64%
Be 313.107†	28778.2	0.0043	mg/L	0.00003	0.0043	mg/L	0.00003	0.68%
Ca 315.886†	4930245.5	33.83	mg/L	0.087	33.83	mg/L	0.087	0.26%
Cd 228.802†	1158.0	0.0302	mg/L	0.00017	0.0302	mg/L	0.00017	0.55%
Co 228.616†	9664.2	0.2469	mg/L	0.00181	0.2469	mg/L	0.00181	0.73%
Cr 267.716†	252287.5	1.644	mg/L	0.0142	1.644	mg/L	0.0142	0.86%
Cu 324.752†	2092129.1	7.967	mg/L	0.0388	7.967	mg/L	0.0388	0.49%
Fe 234.349†	6771296.0	129.4	mg/L	0.10	129.4	mg/L	0.10	0.08%
Fe 238.204†	14183457.0	121.3	mg/L	0.39	121.3	mg/L	0.39	0.33%
K 766.490†	7388.0	4.055	mg/L	0.0967	4.055	mg/L	0.0967	2.38%
Li 670.784†	2837.3	0.0792	mg/L	0.00021	0.0792	mg/L	0.00021	0.27%
Mg 279.077†	316862.3	12.68	mg/L	0.070	12.68	mg/L	0.070	0.55%
Mn 257.610†	1757664.3	1.931	mg/L	0.0062	1.931	mg/L	0.0062	0.32%
Mo 202.031†	276.5	0.0184	mg/L	0.00019	0.0184	mg/L	0.00019	1.04%
Na 589.592	54516.0	6.522	mg/L	0.0105	6.522	mg/L	0.0105	0.16%
Ni 231.604†	57362.9	1.836	mg/L	0.0364	1.836	mg/L	0.0364	1.98%
P 214.914†	27903.1	19.91	mg/L	0.036	19.91	mg/L	0.036	0.18%
Pb 220.353†	34785.6	3.930	mg/L	0.0194	3.930	mg/L	0.0194	0.49%
Sb 206.836†	79.4	0.0059	mg/L	0.00509	0.0059	mg/L	0.00509	85.57%
Se 196.026†	16.8	0.0315	mg/L	0.00263	0.0315	mg/L	0.00263	8.36%
Sn 189.927†	1308.2	0.3476	mg/L	0.00023	0.3476	mg/L	0.00023	0.07%
Sr 407.771†	3845201.1	0.1736	mg/L	0.00041	0.1736	mg/L	0.00041	0.24%
Ti 337.279†	2056763.2	2.595	mg/L	0.0017	2.595	mg/L	0.0017	0.07%
Tl 190.801†	-23.1	0.0263	mg/L	0.01066	0.0263	mg/L	0.01066	40.52%
V 292.402†	185348.7	0.7161	mg/L	0.00688	0.7161	mg/L	0.00688	0.96%
Zn 213.857†	600832.2	7.753	mg/L	0.0272	7.753	mg/L	0.0272	0.35%

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Sequence No.: 76
Sample ID: 0606374-12
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 60
Date Collected: 6/24/2006 12:56:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606374-12

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1016.8	497.7	0.2768	mg/L	0.2768	mg/L	00:58:15
1	Li 670.784†	124.5	-40.4	-0.0035	mg/L	-0.0035	mg/L	00:58:15
1	Na 589.592	47225.8	48039.0	5.735	mg/L	5.735	mg/L	00:58:15
1	Y 371.029	3229956.6	3229956.6	0.960	mg/L			00:58:37
1	Ag 328.068†	-492.4	2040.9	0.0103	mg/L	0.0103	mg/L	00:58:43

1	Al 237.313†	19533.3	20398.2	1.876 mg/L	1.876 mg/L	00:58:43
1	As 188.979†	358.5	368.6	0.5075 mg/L	0.5075 mg/L	00:59:03
1	B 182.528†	-6.6	-4.1	-0.0037 mg/L	-0.0037 mg/L	00:59:03
1	Ba 233.527†	21272.4	22336.5	0.1859 mg/L	0.1859 mg/L	00:58:43
1	Be 313.107†	4316.2	2293.1	0.0011 mg/L	0.0011 mg/L	00:58:43
1	Ca 315.886†	3595568.7	3743194.6	25.68 mg/L	25.68 mg/L	00:58:37
1	Cd 228.802†	643.3	554.3	0.0134 mg/L	0.0134 mg/L	00:59:03
1	Co 228.616†	12003.7	12679.5	0.3313 mg/L	0.3313 mg/L	00:59:03
1	Cr 267.716†	4974.2	3825.3	0.0296 mg/L	0.0296 mg/L	00:58:43
1	Cu 324.752†	15296.4	14008.8	0.0695 mg/L	0.0695 mg/L	00:58:43
1	Fe 234.349†	4938717.6	5142751.5	98.29 mg/L	98.29 mg/L	00:58:31
1	Fe 238.204†	10556651.7	10994311.1	94.05 mg/L	94.05 mg/L	00:58:31
1	Mg 279.077†	153748.6	159596.2	6.371 mg/L	6.371 mg/L	00:58:43
1	Mn 257.610†	1051360.9	1093177.4	1.200 mg/L	1.200 mg/L	00:58:37
1	Mo 202.031†	369.4	347.4	0.0230 mg/L	0.0230 mg/L	00:59:03
1	Ni 231.604†	28674.1	29836.2	0.9551 mg/L	0.9551 mg/L	00:58:43
1	P 214.914†	4889.6	5049.0	3.624 mg/L	3.624 mg/L	00:59:03
1	Pb 220.353†	97.5	253.0	0.0221 mg/L	0.0221 mg/L	00:59:03
1	Sb 206.836†	1.7	-13.4	-0.0063 mg/L	-0.0063 mg/L	00:59:03
1	Se 196.026†	-1.1	2.9	0.0141 mg/L	0.0141 mg/L	00:59:03
1	Sn 189.927†	173.2	-9.5	-0.0054 mg/L	-0.0054 mg/L	00:59:03
1	Sr 407.771†	949981.1	983161.3	0.0442 mg/L	0.0442 mg/L	00:58:37
1	Ti 337.279†	67159.9	71925.5	0.0914 mg/L	0.0914 mg/L	00:58:43
1	Tl 190.801†	-21.8	-42.2	0.0049 mg/L	0.0049 mg/L	00:59:03
1	V 292.402†	4832.6	6660.4	0.0147 mg/L	0.0147 mg/L	00:58:43
1	Zn 213.857†	92925.9	96114.3	1.229 mg/L	1.229 mg/L	00:58:43
2	K 766.490†	1091.9	582.3	0.3232 mg/L	0.3232 mg/L	00:58:21
2	Li 670.784†	160.1	-2.3	-0.0024 mg/L	-0.0024 mg/L	00:58:21
2	Na 589.592	47513.9	48327.1	5.770 mg/L	5.770 mg/L	00:58:21
2	Y 371.029	3211767.3	3211767.3	0.955 mg/L		00:59:17
2	Ag 328.068†	-466.3	2065.4	0.0103 mg/L	0.0103 mg/L	00:59:23
2	Al 237.313†	19810.9	20804.2	1.926 mg/L	1.926 mg/L	00:59:23
2	As 188.979†	351.9	363.9	0.5010 mg/L	0.5010 mg/L	00:59:43
2	B 182.528†	-7.0	-4.7	-0.0049 mg/L	-0.0049 mg/L	00:59:43
2	Ba 233.527†	21708.8	22919.1	0.1907 mg/L	0.1907 mg/L	00:59:23
2	Be 313.107†	4378.0	2383.3	0.0011 mg/L	0.0011 mg/L	00:59:23
2	Ca 315.886†	3554182.1	3721053.0	25.52 mg/L	25.52 mg/L	00:59:17
2	Cd 228.802†	642.1	556.9	0.0135 mg/L	0.0135 mg/L	00:59:43
2	Co 228.616†	11964.4	12709.1	0.3321 mg/L	0.3321 mg/L	00:59:43
2	Cr 267.716†	5065.6	3950.4	0.0304 mg/L	0.0304 mg/L	00:59:23
2	Cu 324.752†	15359.8	14165.4	0.0700 mg/L	0.0700 mg/L	00:59:23
2	Fe 234.349†	4869693.3	5099583.4	97.47 mg/L	97.47 mg/L	00:59:11
2	Fe 238.204†	10438700.8	10933032.9	93.52 mg/L	93.52 mg/L	00:59:11
2	Mg 279.077†	156676.4	163569.9	6.531 mg/L	6.531 mg/L	00:59:23
2	Mn 257.610†	1038947.5	1086376.5	1.193 mg/L	1.193 mg/L	00:59:17
2	Mo 202.031†	347.6	326.8	0.0217 mg/L	0.0217 mg/L	00:59:43
2	Ni 231.604†	29221.5	30578.8	0.9789 mg/L	0.9789 mg/L	00:59:23
2	P 214.914†	4883.3	5071.3	3.640 mg/L	3.640 mg/L	00:59:43
2	Pb 220.353†	129.7	287.4	0.0261 mg/L	0.0261 mg/L	00:59:43
2	Sb 206.836†	-5.6	-21.1	-0.0100 mg/L	-0.0100 mg/L	00:59:43
2	Se 196.026†	-3.0	0.9	0.0115 mg/L	0.0115 mg/L	00:59:43
2	Sn 189.927†	170.3	-11.4	-0.0060 mg/L	-0.0060 mg/L	00:59:43
2	Sr 407.771†	943210.3	981672.8	0.0441 mg/L	0.0441 mg/L	00:59:17
2	Ti 337.279†	68486.2	73711.0	0.0937 mg/L	0.0937 mg/L	00:59:23
2	Tl 190.801†	-15.4	-35.6	0.0102 mg/L	0.0102 mg/L	00:59:43
2	V 292.402†	4969.3	6832.1	0.0154 mg/L	0.0154 mg/L	00:59:23
2	Zn 213.857†	94227.3	98025.7	1.253 mg/L	1.253 mg/L	00:59:23

Mean Data: 0606374-12

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3220862.0	0.957	mg/L	0.0038				0.40%
Ag 328.068†	2053.2	0.0103	mg/L	0.00004	0.0103	mg/L	0.00004	0.35%
Al 237.313†	20601.2	1.901	mg/L	0.0350	1.901	mg/L	0.0350	1.84%
As 188.979†	366.3	0.5042	mg/L	0.00464	0.5042	mg/L	0.00464	0.92%
B 182.528†	-4.4	-0.0043	mg/L	0.00082	-0.0043	mg/L	0.00082	19.01%
Ba 233.527†	22627.8	0.1883	mg/L	0.00343	0.1883	mg/L	0.00343	1.82%
Be 313.107†	2338.2	0.0011	mg/L	0.00001	0.0011	mg/L	0.00001	0.74%
Ca 315.886†	3732123.8	25.60	mg/L	0.107	25.60	mg/L	0.107	0.42%
Cd 228.802†	555.6	0.0134	mg/L	0.00007	0.0134	mg/L	0.00007	0.55%
Co 228.616†	12694.3	0.3317	mg/L	0.00054	0.3317	mg/L	0.00054	0.16%

Cr 267.716†	3887.9	0.0300 mg/L	0.00054	0.0300 mg/L	0.00054	1.81%
Cu 324.752†	14087.1	0.0697 mg/L	0.00032	0.0697 mg/L	0.00032	0.45%
Fe 234.349†	5121167.4	97.88 mg/L	0.584	97.88 mg/L	0.584	0.60%
Fe 238.204†	10963672.0	93.78 mg/L	0.371	93.78 mg/L	0.371	0.40%
K 766.490†	540.0	0.3000 mg/L	0.03280	0.3000 mg/L	0.03280	10.93%
Li 670.784†	-21.3	-0.0029 mg/L	0.00077	-0.0029 mg/L	0.00077	26.43%
Mg 279.077†	161583.1	6.451 mg/L	0.1130	6.451 mg/L	0.1130	1.75%
Mn 257.610†	1089776.9	1.196 mg/L	0.0053	1.196 mg/L	0.0053	0.44%
Mo 202.031†	337.1	0.0223 mg/L	0.00096	0.0223 mg/L	0.00096	4.30%
Na 589.592	48183.1	5.752 mg/L	0.0247	5.752 mg/L	0.0247	0.43%
Ni 231.604†	30207.5	0.9670 mg/L	0.01680	0.9670 mg/L	0.01680	1.74%
P 214.914†	5060.2	3.632 mg/L	0.0112	3.632 mg/L	0.0112	0.31%
Pb 220.353†	270.2	0.0241 mg/L	0.00278	0.0241 mg/L	0.00278	11.52%
Sb 206.836†	-17.2	-0.0082 mg/L	0.00260	-0.0082 mg/L	0.00260	31.82%
Se 196.026†	1.9	0.0128 mg/L	0.00184	0.0128 mg/L	0.00184	14.43%
Sn 189.927†	-10.4	-0.0057 mg/L	0.00039	-0.0057 mg/L	0.00039	6.83%
Sr 407.771†	982417.0	0.0442 mg/L	0.00005	0.0442 mg/L	0.00005	0.11%
Ti 337.279†	72818.3	0.0925 mg/L	0.00159	0.0925 mg/L	0.00159	1.72%
Tl 190.801†	-38.9	0.0076 mg/L	0.00374	0.0076 mg/L	0.00374	49.31%
V 292.402†	6746.2	0.0150 mg/L	0.00054	0.0150 mg/L	0.00054	3.58%
Zn 213.857†	97070.0	1.241 mg/L	0.0174	1.241 mg/L	0.0174	1.40%

Sequence No.: 77
Sample ID: 0606374-13
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 61
Date Collected: 6/24/2006 1:01:20 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606374-13

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	4716.5	4192.5	2.303	mg/L	2.303	mg/L	01:02:53
1	Li 670.784†	2019.9	1865.9	0.0513	mg/L	0.0513	mg/L	01:02:53
1	Na 589.592	40528.1	41341.3	4.921	mg/L	4.921	mg/L	01:02:53
1	Y 371.029	3337712.2	3337712.2	0.992	mg/L			01:03:12
1	Ag 328.068†	-2122.6	414.4	0.0031	mg/L	0.0031	mg/L	01:03:17
1	Al 237.313†	556810.6	561283.4	63.19	mg/L	63.19	mg/L	01:03:12
1	As 188.979†	22.3	17.7	0.0232	mg/L	0.0232	mg/L	01:03:38
1	B 182.528†	6.6	9.4	0.0267	mg/L	0.0267	mg/L	01:03:38
1	Ba 233.527†	21022.3	21369.1	0.1777	mg/L	0.1777	mg/L	01:03:17
1	Be 313.107†	13304.6	11207.8	-0.0007	mg/L	-0.0007	mg/L	01:03:17
1	Ca 315.886†	713665.6	717510.8	4.919	mg/L	4.919	mg/L	01:03:12
1	Cd 228.802†	169.5	55.2	0.0018	mg/L	0.0018	mg/L	01:03:38
1	Co 228.616†	963.3	1147.8	0.0208	mg/L	0.0208	mg/L	01:03:38
1	Cr 267.716†	688950.9	693064.0	4.502	mg/L	4.502	mg/L	01:03:12
1	Cu 324.752†	28991.8	27298.5	0.1169	mg/L	0.1169	mg/L	01:03:17
1	Fe 234.349†	3215839.3	3240127.6	61.93	mg/L	61.93	mg/L	01:03:12
1	Fe 238.204†	6998907.2	7053347.1	60.33	mg/L	60.33	mg/L	01:03:12
1	Mg 279.077†	233860.1	235173.7	9.415	mg/L	9.415	mg/L	01:03:17
1	Mn 257.610†	668727.7	672153.8	0.7369	mg/L	0.7369	mg/L	01:03:12
1	Mo 202.031†	125.7	89.4	0.0060	mg/L	0.0060	mg/L	01:03:38
1	Ni 231.604†	1371.0	1352.3	0.0436	mg/L	0.0436	mg/L	01:03:38
1	P 214.914†	5852.6	5855.3	4.198	mg/L	4.198	mg/L	01:03:38
1	Pb 220.353†	2.9	154.4	0.0275	mg/L	0.0275	mg/L	01:03:38
1	Sb 206.836†	258.5	245.4	0.0240	mg/L	0.0240	mg/L	01:03:38
1	Se 196.026†	-3.3	0.7	0.0113	mg/L	0.0113	mg/L	01:03:38
1	Sn 189.927†	119.7	-69.1	-0.0184	mg/L	-0.0184	mg/L	01:03:38
1	Sr 407.771†	1000129.9	1001764.0	0.0451	mg/L	0.0451	mg/L	01:03:12
1	Ti 337.279†	3315726.4	3344019.9	4.219	mg/L	4.219	mg/L	01:03:12
1	Tl 190.801†	4.6	-14.8	0.0138	mg/L	0.0138	mg/L	01:03:38
1	V 292.402†	26086.3	27920.2	0.0947	mg/L	0.0947	mg/L	01:03:17
1	Zn 213.857†	10840.2	10252.3	0.1291	mg/L	0.1291	mg/L	01:03:38
2	K 766.490†	4617.1	4090.1	2.246	mg/L	2.246	mg/L	01:02:59
2	Li 670.784†	1997.9	1842.8	0.0506	mg/L	0.0506	mg/L	01:02:59
2	Na 589.592	40356.7	41169.9	4.900	mg/L	4.900	mg/L	01:02:59
2	Y 371.029	3339305.9	3339305.9	0.993	mg/L			01:03:48
2	Ag 328.068†	-2189.2	348.3	0.0029	mg/L	0.0029	mg/L	01:03:53
2	Al 237.313†	556822.8	561027.9	63.16	mg/L	63.16	mg/L	01:03:48
2	As 188.979†	27.5	23.0	0.0304	mg/L	0.0304	mg/L	01:04:13
2	B 182.528†	3.6	6.3	0.0198	mg/L	0.0198	mg/L	01:04:13

2	Ba 233.527†	21026.9	21363.7	0.1777 mg/L	0.1777 mg/L	01:03:53
2	Be 313.107†	13505.5	11403.7	-0.0007 mg/L	-0.0007 mg/L	01:03:53
2	Ca 315.886†	712872.2	716368.2	4.911 mg/L	4.911 mg/L	01:03:48
2	Cd 228.802†	181.4	67.1	0.0020 mg/L	0.0020 mg/L	01:04:13
2	Co 228.616†	948.2	1132.1	0.0204 mg/L	0.0204 mg/L	01:04:13
2	Cr 267.716†	689224.0	693007.7	4.502 mg/L	4.502 mg/L	01:03:48
2	Cu 324.752†	28761.8	27052.9	0.1160 mg/L	0.1160 mg/L	01:03:53
2	Fe 234.349†	3212698.6	3235416.5	61.84 mg/L	61.84 mg/L	01:03:48
2	Fe 238.204†	6996401.2	7047455.7	60.28 mg/L	60.28 mg/L	01:03:48
2	Mg 279.077†	234032.4	235234.8	9.417 mg/L	9.417 mg/L	01:03:53
2	Mn 257.610†	668660.9	671764.8	0.7365 mg/L	0.7365 mg/L	01:03:48
2	Mo 202.031†	136.4	100.2	0.0068 mg/L	0.0068 mg/L	01:04:13
2	Ni 231.604†	1347.7	1328.2	0.0428 mg/L	0.0428 mg/L	01:04:13
2	P 214.914†	5826.8	5826.5	4.178 mg/L	4.178 mg/L	01:04:13
2	Pb 220.353†	3.5	155.0	0.0275 mg/L	0.0275 mg/L	01:04:13
2	Sb 206.836†	234.7	221.2	0.0124 mg/L	0.0124 mg/L	01:04:13
2	Se 196.026†	-5.0	-0.9	0.0092 mg/L	0.0092 mg/L	01:04:13
2	Sn 189.927†	113.7	-75.2	-0.0200 mg/L	-0.0200 mg/L	01:04:13
2	Sr 407.771†	1001933.8	1003100.2	0.0451 mg/L	0.0451 mg/L	01:03:48
2	Ti 337.279†	3318871.6	3345593.6	4.221 mg/L	4.221 mg/L	01:03:48
2	Tl 190.801†	4.0	-15.5	0.0132 mg/L	0.0132 mg/L	01:04:13
2	V 292.402†	26205.4	28027.7	0.0952 mg/L	0.0952 mg/L	01:03:53
2	Zn 213.857†	10799.5	10206.1	0.1285 mg/L	0.1285 mg/L	01:04:13

Mean Data: 0606374-13

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3338509.0	0.992	mg/L	0.0003				0.03%
Ag 328.068†	381.3	0.0030	mg/L	0.00016	0.0030	mg/L	0.00016	5.44%
Al 237.313†	561155.7	63.18	mg/L	0.020	63.18	mg/L	0.020	0.03%
As 188.979†	20.4	0.0268	mg/L	0.00513	0.0268	mg/L	0.00513	19.14%
B 182.528†	7.9	0.0233	mg/L	0.00491	0.0233	mg/L	0.00491	21.10%
Ba 233.527†	21366.4	0.1777	mg/L	0.00003	0.1777	mg/L	0.00003	0.02%
Be 313.107†	11305.8	-0.0007	mg/L	0.00003	-0.0007	mg/L	0.00003	3.87%
Ca 315.886†	716939.5	4.915	mg/L	0.0055	4.915	mg/L	0.0055	0.11%
Cd 228.802†	61.2	0.0019	mg/L	0.00018	0.0019	mg/L	0.00018	9.38%
Co 228.616†	1139.9	0.0206	mg/L	0.00029	0.0206	mg/L	0.00029	1.42%
Cr 267.716†	693035.9	4.502	mg/L	0.0003	4.502	mg/L	0.0003	0.01%
Cu 324.752†	27175.7	0.1165	mg/L	0.00067	0.1165	mg/L	0.00067	0.58%
Fe 234.349†	3237772.1	61.89	mg/L	0.064	61.89	mg/L	0.064	0.10%
Fe 238.204†	7050401.4	60.31	mg/L	0.036	60.31	mg/L	0.036	0.06%
K 766.490†	4141.3	2.275	mg/L	0.0397	2.275	mg/L	0.0397	1.75%
Li 670.784†	1854.3	0.0510	mg/L	0.00047	0.0510	mg/L	0.00047	0.92%
Mg 279.077†	235204.2	9.416	mg/L	0.0018	9.416	mg/L	0.0018	0.02%
Mn 257.610†	671959.3	0.7367	mg/L	0.00030	0.7367	mg/L	0.00030	0.04%
Mo 202.031†	94.8	0.0064	mg/L	0.00050	0.0064	mg/L	0.00050	7.83%
Na 589.592	41255.6	4.911	mg/L	0.0147	4.911	mg/L	0.0147	0.30%
Ni 231.604†	1340.2	0.0432	mg/L	0.00055	0.0432	mg/L	0.00055	1.26%
P 214.914†	5840.9	4.188	mg/L	0.0146	4.188	mg/L	0.0146	0.35%
Pb 220.353†	154.7	0.0275	mg/L	0.00005	0.0275	mg/L	0.00005	0.18%
Sb 206.836†	233.3	0.0182	mg/L	0.00821	0.0182	mg/L	0.00821	45.13%
Se 196.026†	-0.1	0.0102	mg/L	0.00148	0.0102	mg/L	0.00148	14.45%
Sn 189.927†	-72.2	-0.0192	mg/L	0.00114	-0.0192	mg/L	0.00114	5.96%
Sr 407.771†	1002432.1	0.0451	mg/L	0.00004	0.0451	mg/L	0.00004	0.09%
Ti 337.279†	3344806.7	4.220	mg/L	0.0014	4.220	mg/L	0.0014	0.03%
Tl 190.801†	-15.2	0.0135	mg/L	0.00041	0.0135	mg/L	0.00041	3.03%
V 292.402†	27973.9	0.0949	mg/L	0.00032	0.0949	mg/L	0.00032	0.33%
Zn 213.857†	10229.2	0.1288	mg/L	0.00041	0.1288	mg/L	0.00041	0.32%

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Sequence No.: 78
Sample ID: 0606374-14
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 62
Date Collected: 6/24/2006 1:05:56 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606374-14

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	K 766.490†	8792.7	8348.6	4.581	mg/L	4.581	mg/L	01:07:30

1	Li 670.784†	1395.5	1244.1	0.0334 mg/L	0.0334 mg/L	01:07:30
1	Na 589.592	40762.2	41575.4	4.950 mg/L	4.950 mg/L	01:07:30
1	Y 371.029	3319918.1	3319918.1	0.987 mg/L		01:07:47
1	Ag 328.068†	-2445.6	75.6	0.0014 mg/L	0.0014 mg/L	01:07:53
1	Al 237.313†	257087.7	260570.3	29.25 mg/L	29.25 mg/L	01:07:53
1	As 188.979†	22.7	18.3	0.0263 mg/L	0.0263 mg/L	01:08:13
1	B 182.528†	2.9	5.6	0.0182 mg/L	0.0182 mg/L	01:08:13
1	Ba 233.527†	13890.5	14255.7	0.1185 mg/L	0.1185 mg/L	01:07:53
1	Be 313.107†	10403.4	8339.8	0.0005 mg/L	0.0005 mg/L	01:07:53
1	Ca 315.886†	599436.0	605612.9	4.151 mg/L	4.151 mg/L	01:07:47
1	Cd 228.802†	157.9	44.3	0.0013 mg/L	0.0013 mg/L	01:08:13
1	Co 228.616†	544.5	728.6	0.0152 mg/L	0.0152 mg/L	01:08:13
1	Cr 267.716†	170727.6	171649.5	1.116 mg/L	1.116 mg/L	01:07:53
1	Cu 324.752†	18152.6	16471.3	0.0711 mg/L	0.0711 mg/L	01:07:53
1	Fe 234.349†	2457027.9	2488566.7	47.57 mg/L	47.57 mg/L	01:07:47
1	Fe 238.204†	5389416.0	5460195.8	46.70 mg/L	46.70 mg/L	01:07:47
1	Mg 279.077†	190696.8	192697.9	7.713 mg/L	7.713 mg/L	01:07:53
1	Mn 257.610†	473670.1	478106.8	0.5235 mg/L	0.5235 mg/L	01:07:47
1	Mo 202.031†	89.5	53.4	0.0037 mg/L	0.0037 mg/L	01:08:13
1	Ni 231.604†	1269.9	1257.2	0.0405 mg/L	0.0405 mg/L	01:08:13
1	P 214.914†	6179.0	6217.7	4.456 mg/L	4.456 mg/L	01:08:13
1	Pb 220.353†	-12.0	139.4	0.0181 mg/L	0.0181 mg/L	01:08:13
1	Sb 206.836†	69.2	55.0	0.0031 mg/L	0.0031 mg/L	01:08:13
1	Se 196.026†	-4.7	-0.7	0.0095 mg/L	0.0095 mg/L	01:08:13
1	Sn 189.927†	126.7	-61.4	-0.0195 mg/L	-0.0195 mg/L	01:08:13
1	Sr 407.771†	531276.6	532059.2	0.0238 mg/L	0.0238 mg/L	01:07:47
1	Ti 337.279†	1324354.0	1343995.2	1.696 mg/L	1.696 mg/L	01:07:47
1	Tl 190.801†	-6.2	-25.8	0.0058 mg/L	0.0058 mg/L	01:08:13
1	V 292.402†	12586.9	14381.7	0.0487 mg/L	0.0487 mg/L	01:07:53
1	Zn 213.857†	10093.6	9554.4	0.1203 mg/L	0.1203 mg/L	01:07:53
2	K 766.490†	8865.7	8373.9	4.595 mg/L	4.595 mg/L	01:07:36
2	Li 670.784†	1415.9	1257.0	0.0338 mg/L	0.0338 mg/L	01:07:36
2	Na 589.592	40804.5	41617.7	4.955 mg/L	4.955 mg/L	01:07:36
2	Y 371.029	3337965.5	3337965.5	0.992 mg/L		01:08:22
2	Ag 328.068†	-2666.1	-133.2	0.0007 mg/L	0.0007 mg/L	01:08:27
2	Al 237.313†	253852.3	255901.0	28.73 mg/L	28.73 mg/L	01:08:27
2	As 188.979†	24.2	19.7	0.0282 mg/L	0.0282 mg/L	01:08:47
2	B 182.528†	1.1	3.8	0.0142 mg/L	0.0142 mg/L	01:08:47
2	Ba 233.527†	13712.9	14000.7	0.1163 mg/L	0.1163 mg/L	01:08:27
2	Be 313.107†	10365.6	8244.6	0.0005 mg/L	0.0005 mg/L	01:08:27
2	Ca 315.886†	602220.6	605135.1	4.148 mg/L	4.148 mg/L	01:08:22
2	Cd 228.802†	158.8	44.3	0.0013 mg/L	0.0013 mg/L	01:08:47
2	Co 228.616†	548.1	729.2	0.0152 mg/L	0.0152 mg/L	01:08:47
2	Cr 267.716†	168837.6	168809.2	1.098 mg/L	1.098 mg/L	01:08:27
2	Cu 324.752†	17956.7	16174.4	0.0700 mg/L	0.0700 mg/L	01:08:27
2	Fe 234.349†	2469589.4	2487765.2	47.55 mg/L	47.55 mg/L	01:08:22
2	Fe 238.204†	5407501.7	5448895.8	46.61 mg/L	46.61 mg/L	01:08:22
2	Mg 279.077†	188651.0	189591.3	7.588 mg/L	7.588 mg/L	01:08:27
2	Mn 257.610†	476189.2	478050.6	0.5234 mg/L	0.5234 mg/L	01:08:22
2	Mo 202.031†	93.7	57.1	0.0039 mg/L	0.0039 mg/L	01:08:47
2	Ni 231.604†	1259.1	1239.4	0.0400 mg/L	0.0400 mg/L	01:08:47
2	P 214.914†	6178.7	6183.5	4.432 mg/L	4.432 mg/L	01:08:47
2	Pb 220.353†	9.9	161.5	0.0204 mg/L	0.0204 mg/L	01:08:47
2	Sb 206.836†	67.7	53.0	0.0025 mg/L	0.0025 mg/L	01:08:47
2	Se 196.026†	-9.4	-5.4	0.0036 mg/L	0.0036 mg/L	01:08:47
2	Sn 189.927†	122.9	-65.9	-0.0207 mg/L	-0.0207 mg/L	01:08:47
2	Sr 407.771†	533988.2	531881.3	0.0238 mg/L	0.0238 mg/L	01:08:22
2	Ti 337.279†	1330900.9	1343337.6	1.695 mg/L	1.695 mg/L	01:08:22
2	Tl 190.801†	-8.5	-28.0	0.0040 mg/L	0.0040 mg/L	01:08:47
2	V 292.402†	12465.0	14189.8	0.0480 mg/L	0.0480 mg/L	01:08:27
2	Zn 213.857†	9950.7	9355.0	0.1177 mg/L	0.1177 mg/L	01:08:27

Mean Data: 0606374-14

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3328941.8	0.990	mg/L	0.0038				0.38%
Ag 328.068†	-28.8	0.0010	mg/L	0.00051	0.0010	mg/L	0.00051	50.61%
Al 237.313†	258235.6	28.99	mg/L	0.373	28.99	mg/L	0.373	1.29%
As 188.979†	19.0	0.0273	mg/L	0.00134	0.0273	mg/L	0.00134	4.91%
B 182.528†	4.7	0.0162	mg/L	0.00285	0.0162	mg/L	0.00285	17.62%
Ba 233.527†	14128.2	0.1174	mg/L	0.00150	0.1174	mg/L	0.00150	1.28%

Be 313.107†	8292.2	0.0005 mg/L	0.00002	0.0005 mg/L	0.00002	3.18%
Ca 315.886†	605374.0	4.150 mg/L	0.0023	4.150 mg/L	0.0023	0.06%
Cd 228.802†	44.3	0.0013 mg/L	0.00001	0.0013 mg/L	0.00001	0.53%
Co 228.616†	728.9	0.0152 mg/L	0.00001	0.0152 mg/L	0.00001	0.09%
Cr 267.716†	170229.4	1.107 mg/L	0.0130	1.107 mg/L	0.0130	1.18%
Cu 324.752†	16322.9	0.0705 mg/L	0.00080	0.0705 mg/L	0.00080	1.13%
Fe 234.349†	2488166.0	47.56 mg/L	0.011	47.56 mg/L	0.011	0.02%
Fe 238.204†	5454545.8	46.66 mg/L	0.068	46.66 mg/L	0.068	0.15%
K 766.490†	8361.3	4.588 mg/L	0.0098	4.588 mg/L	0.0098	0.21%
Li 670.784†	1250.5	0.0336 mg/L	0.00026	0.0336 mg/L	0.00026	0.78%
Mg 279.077†	191144.6	7.650 mg/L	0.0882	7.650 mg/L	0.0882	1.15%
Mn 257.610†	478078.7	0.5234 mg/L	0.00004	0.5234 mg/L	0.00004	0.01%
Mo 202.031†	55.3	0.0038 mg/L	0.00017	0.0038 mg/L	0.00017	4.52%
Na 589.592	41596.6	4.952 mg/L	0.0036	4.952 mg/L	0.0036	0.07%
Ni 231.604†	1248.3	0.0402 mg/L	0.00040	0.0402 mg/L	0.00040	1.00%
P 214.914†	6200.6	4.444 mg/L	0.0172	4.444 mg/L	0.0172	0.39%
Pb 220.353†	150.4	0.0193 mg/L	0.00169	0.0193 mg/L	0.00169	8.76%
Sb 206.836†	54.0	0.0028 mg/L	0.00040	0.0028 mg/L	0.00040	14.28%
Se 196.026†	-3.1	0.0065 mg/L	0.00417	0.0065 mg/L	0.00417	63.97%
Sn 189.927†	-63.6	-0.0201 mg/L	0.00084	-0.0201 mg/L	0.00084	4.20%
Sr 407.771†	531970.3	0.0238 mg/L	0.00001	0.0238 mg/L	0.00001	0.02%
Ti 337.279†	1343666.4	1.696 mg/L	0.0006	1.696 mg/L	0.0006	0.03%
Tl 190.801†	-26.9	0.0049 mg/L	0.00130	0.0049 mg/L	0.00130	26.48%
V 292.402†	14285.8	0.0483 mg/L	0.00052	0.0483 mg/L	0.00052	1.08%
Zn 213.857†	9454.7	0.1190 mg/L	0.00182	0.1190 mg/L	0.00182	1.53%

Sequence No.: 79
Sample ID: BF62320-DUP2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 63
Date Collected: 6/24/2006 1:10:26 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62320-DUP2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	7480.1	7075.8	3.883	mg/L	3.883	mg/L	01:12:01
1	Li 670.784†	1365.4	1224.1	0.0329	mg/L	0.0329	mg/L	01:12:01
1	Na 589.592	40987.3	41800.5	4.977	mg/L	4.977	mg/L	01:12:01
1	Y 371.029	3295010.3	3295010.3	0.979	mg/L			01:12:18
1	Ag 328.068†	-2337.0	167.8	0.0016	mg/L	0.0016	mg/L	01:12:23
1	Al 237.313†	245861.6	251077.8	28.19	mg/L	28.19	mg/L	01:12:23
1	As 188.979†	21.6	17.3	0.0251	mg/L	0.0251	mg/L	01:12:44
1	B 182.528†	0.3	3.0	0.0124	mg/L	0.0124	mg/L	01:12:44
1	Ba 233.527†	11213.4	11628.8	0.0966	mg/L	0.0966	mg/L	01:12:23
1	Be 313.107†	9633.4	7633.2	0.0005	mg/L	0.0005	mg/L	01:12:23
1	Ca 315.886†	612641.8	623687.7	4.275	mg/L	4.275	mg/L	01:12:18
1	Cd 228.802†	137.9	25.1	0.0009	mg/L	0.0009	mg/L	01:12:44
1	Co 228.616†	668.7	859.5	0.0189	mg/L	0.0189	mg/L	01:12:44
1	Cr 267.716†	148579.4	150344.0	0.9780	mg/L	0.9780	mg/L	01:12:23
1	Cu 324.752†	13712.8	12077.3	0.0539	mg/L	0.0539	mg/L	01:12:23
1	Fe 234.349†	2323053.4	2370599.8	45.31	mg/L	45.31	mg/L	01:12:18
1	Fe 238.204†	5105760.2	5211866.5	44.58	mg/L	44.58	mg/L	01:12:18
1	Mg 279.077†	221710.7	225823.9	9.044	mg/L	9.044	mg/L	01:12:23
1	Mn 257.610†	475908.0	484020.0	0.5300	mg/L	0.5300	mg/L	01:12:18
1	Mo 202.031†	94.5	59.2	0.0041	mg/L	0.0041	mg/L	01:12:44
1	Ni 231.604†	1360.2	1359.2	0.0438	mg/L	0.0438	mg/L	01:12:44
1	P 214.914†	6154.5	6240.0	4.472	mg/L	4.472	mg/L	01:12:44
1	Pb 220.353†	-42.3	108.3	0.0144	mg/L	0.0144	mg/L	01:12:44
1	Sb 206.836†	65.8	52.0	0.0046	mg/L	0.0046	mg/L	01:12:44
1	Se 196.026†	-5.6	-1.6	0.0083	mg/L	0.0083	mg/L	01:12:44
1	Sn 189.927†	122.5	-64.7	-0.0206	mg/L	-0.0206	mg/L	01:12:44
1	Sr 407.771†	518879.0	523470.9	0.0234	mg/L	0.0234	mg/L	01:12:18
1	Ti 337.279†	1218875.5	1246446.3	1.573	mg/L	1.573	mg/L	01:12:18
1	Tl 190.801†	-0.8	-20.3	0.0106	mg/L	0.0106	mg/L	01:12:44
1	V 292.402†	11616.2	13487.0	0.0457	mg/L	0.0457	mg/L	01:12:23
1	Zn 213.857†	9540.2	9066.6	0.1141	mg/L	0.1141	mg/L	01:12:23
2	K 766.490†	7410.5	6964.5	3.822	mg/L	3.822	mg/L	01:12:06
2	Li 670.784†	1374.2	1225.6	0.0329	mg/L	0.0329	mg/L	01:12:06
2	Na 589.592	40321.2	41134.4	4.896	mg/L	4.896	mg/L	01:12:06
2	Y 371.029	3312579.3	3312579.3	0.985	mg/L			01:12:52

2	Ag 328.068†	-2490.9	24.1	0.0011 mg/L	0.0011 mg/L	01:12:58
2	Al 237.313†	248345.3	252268.9	28.32 mg/L	28.32 mg/L	01:12:58
2	As 188.979†	21.5	17.2	0.0249 mg/L	0.0249 mg/L	01:13:18
2	B 182.528†	-1.7	1.0	0.0079 mg/L	0.0079 mg/L	01:13:18
2	Ba 233.527†	11326.2	11682.6	0.0970 mg/L	0.0970 mg/L	01:12:58
2	Be 313.107†	9626.8	7574.4	0.0005 mg/L	0.0005 mg/L	01:12:58
2	Ca 315.886†	615716.2	623492.5	4.274 mg/L	4.274 mg/L	01:12:52
2	Cd 228.802†	141.7	28.3	0.0010 mg/L	0.0010 mg/L	01:13:18
2	Co 228.616†	705.7	893.5	0.0198 mg/L	0.0198 mg/L	01:13:18
2	Cr 267.716†	149608.9	150584.9	0.9795 mg/L	0.9795 mg/L	01:12:58
2	Cu 324.752†	13800.6	12092.2	0.0540 mg/L	0.0540 mg/L	01:12:58
2	Fe 234.349†	2340635.1	2375875.9	45.41 mg/L	45.41 mg/L	01:12:52
2	Fe 238.204†	5142998.9	5222037.3	44.67 mg/L	44.67 mg/L	01:12:52
2	Mg 279.077†	223829.0	226774.6	9.082 mg/L	9.082 mg/L	01:12:58
2	Mn 257.610†	478803.3	484383.4	0.5304 mg/L	0.5304 mg/L	01:12:52
2	Mo 202.031†	78.0	41.9	0.0029 mg/L	0.0029 mg/L	01:13:18
2	Ni 231.604†	1337.6	1328.8	0.0428 mg/L	0.0428 mg/L	01:13:18
2	P 214.914†	6167.2	6219.6	4.458 mg/L	4.458 mg/L	01:13:18
2	Pb 220.353†	-22.0	129.2	0.0168 mg/L	0.0168 mg/L	01:13:18
2	Sb 206.836†	63.6	49.4	0.0032 mg/L	0.0032 mg/L	01:13:18
2	Se 196.026†	-5.2	-1.2	0.0088 mg/L	0.0088 mg/L	01:13:18
2	Sn 189.927†	115.7	-72.4	-0.0226 mg/L	-0.0226 mg/L	01:13:18
2	Sr 407.771†	520960.8	522775.3	0.0234 mg/L	0.0234 mg/L	01:12:52
2	Ti 337.279†	1225745.2	1246822.8	1.573 mg/L	1.573 mg/L	01:12:52
2	Tl 190.801†	-10.1	-29.7	0.0029 mg/L	0.0029 mg/L	01:13:18
2	V 292.402†	11760.8	13570.9	0.0460 mg/L	0.0460 mg/L	01:12:58
2	Zn 213.857†	9613.0	9088.9	0.1144 mg/L	0.1144 mg/L	01:12:58

Mean Data: BF62320-DUP2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3303794.8	0.982	mg/L	0.0037				0.38%
Ag 328.068†	95.9	0.0014	mg/L	0.00035	0.0014	mg/L	0.00035	25.77%
Al 237.313†	251673.3	28.26	mg/L	0.095	28.26	mg/L	0.095	0.34%
As 188.979†	17.2	0.0250	mg/L	0.00013	0.0250	mg/L	0.00013	0.54%
B 182.528†	2.0	0.0102	mg/L	0.00315	0.0102	mg/L	0.00315	31.00%
Ba 233.527†	11655.7	0.0968	mg/L	0.00032	0.0968	mg/L	0.00032	0.33%
Be 313.107†	7603.8	0.0005	mg/L	0.00001	0.0005	mg/L	0.00001	1.75%
Ca 315.886†	623590.1	4.274	mg/L	0.0009	4.274	mg/L	0.0009	0.02%
Cd 228.802†	26.7	0.0009	mg/L	0.00006	0.0009	mg/L	0.00006	6.59%
Co 228.616†	876.5	0.0193	mg/L	0.00063	0.0193	mg/L	0.00063	3.25%
Cr 267.716†	150464.4	0.9788	mg/L	0.00111	0.9788	mg/L	0.00111	0.11%
Cu 324.752†	12084.8	0.0539	mg/L	0.00005	0.0539	mg/L	0.00005	0.10%
Fe 234.349†	2373237.8	45.36	mg/L	0.071	45.36	mg/L	0.071	0.16%
Fe 238.204†	5216951.9	44.62	mg/L	0.062	44.62	mg/L	0.062	0.14%
K 766.490†	7020.2	3.853	mg/L	0.0431	3.853	mg/L	0.0431	1.12%
Li 670.784†	1224.8	0.0329	mg/L	0.00003	0.0329	mg/L	0.00003	0.09%
Mg 279.077†	226299.3	9.063	mg/L	0.0270	9.063	mg/L	0.0270	0.30%
Mn 257.610†	484201.7	0.5302	mg/L	0.00028	0.5302	mg/L	0.00028	0.05%
Mo 202.031†	50.5	0.0035	mg/L	0.00081	0.0035	mg/L	0.00081	23.11%
Na 589.592	41467.5	4.937	mg/L	0.0572	4.937	mg/L	0.0572	1.16%
Ni 231.604†	1344.0	0.0433	mg/L	0.00069	0.0433	mg/L	0.00069	1.59%
P 214.914†	6229.8	4.465	mg/L	0.0103	4.465	mg/L	0.0103	0.23%
Pb 220.353†	118.8	0.0156	mg/L	0.00168	0.0156	mg/L	0.00168	10.78%
Sb 206.836†	50.7	0.0039	mg/L	0.00092	0.0039	mg/L	0.00092	23.69%
Se 196.026†	-1.4	0.0086	mg/L	0.00037	0.0086	mg/L	0.00037	4.29%
Sn 189.927†	-68.5	-0.0216	mg/L	0.00143	-0.0216	mg/L	0.00143	6.61%
Sr 407.771†	523123.1	0.0234	mg/L	0.00002	0.0234	mg/L	0.00002	0.09%
Ti 337.279†	1246634.5	1.573	mg/L	0.0003	1.573	mg/L	0.0003	0.02%
Tl 190.801†	-25.0	0.0068	mg/L	0.00548	0.0068	mg/L	0.00548	81.13%
V 292.402†	13529.0	0.0459	mg/L	0.00021	0.0459	mg/L	0.00021	0.46%
Zn 213.857†	9077.7	0.1143	mg/L	0.00020	0.1143	mg/L	0.00020	0.18%

Duplicate Check: BF62320-DUP2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	4.588	3.853	0.043	mg/L	17.4
Li 670.784	0.0336	0.0329	0.000	mg/L	2.2
Na 589.592	4.952	4.937	0.057	mg/L	0.3
Y 371.029			0.000	mg/L	Not calculated

Ag 328.068	0.0010	0.0014	0.000	mg/L	29.1
Al 237.313	28.99	28.26	0.095	mg/L	2.6
As 188.979	0.0273	0.0250	0.000	mg/L	8.7
B 182.528	0.0162	0.0102	0.003	mg/L	45.8
Ba 233.527	0.1174	0.0968	0.000	mg/L	19.3
Be 313.107	0.0005	0.0005	0.000	mg/L	10.6
Ca 315.886	4.150	4.274	0.001	mg/L	3.0
Cd 228.802	0.0013	0.0009	0.000	mg/L	37.2
Co 228.616	0.0152	0.0193	0.001	mg/L	23.9
Cr 267.716	1.107	0.9788	0.001	mg/L	12.3
Cu 324.752	0.0705	0.0539	0.000	mg/L	26.7
Fe 234.349	47.56	45.36	0.071	mg/L	4.7
Fe 238.204	46.66	44.62	0.062	mg/L	4.5
Mg 279.077	7.650	9.063	0.027	mg/L	16.9
Mn 257.610	0.5234	0.5302	0.000	mg/L	1.3
Mo 202.031	0.0038	0.0035	0.001	mg/L	8.6
Ni 231.604	0.0402	0.0433	0.001	mg/L	7.3
P 214.914	4.444	4.465	0.010	mg/L	0.5
Pb 220.353	0.0193	0.0156	0.002	mg/L	21.1
Sb 206.836	0.0028	0.0039	0.001	mg/L	33.4
Se 196.026	0.0065	0.0086	0.000	mg/L	27.3
Sn 189.927	-0.0201	-0.0216	0.001	mg/L	-7.2
Sr 407.771	0.0238	0.0234	0.000	mg/L	1.7
Ti 337.279	1.696	1.573	0.000	mg/L	7.5
Tl 190.801	0.0049	0.0068	0.005	mg/L	32.0
V 292.402	0.0483	0.0459	0.000	mg/L	5.2
Zn 213.857	0.1190	0.1143	0.000	mg/L	4.1

Sequence No.: 80
Sample ID: BF62320-MS2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 64
Date Collected: 6/24/2006 1:14:57 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62320-MS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	52546.5	53474.9	29.32	mg/L	29.32	mg/L	01:16:34
1	Li 670.784†	16894.2	17203.1	0.4919	mg/L	0.4919	mg/L	01:16:34
1	Na 589.592	219998.1	220811.3	26.73	mg/L	26.73	mg/L	01:16:34
1	Y 371.029	3271455.3	3271455.3	0.972	mg/L			01:16:51
1	Ag 328.068†	57744.7	61935.7	0.2172	mg/L	0.2172	mg/L	01:16:57
1	Al 237.313†	281504.1	289538.2	32.51	mg/L	32.51	mg/L	01:16:57
1	As 188.979†	322.2	326.7	0.4475	mg/L	0.4475	mg/L	01:17:17
1	B 182.528†	184.1	192.0	0.4371	mg/L	0.4371	mg/L	01:17:17
1	Ba 233.527†	68119.1	70230.3	0.5852	mg/L	0.5852	mg/L	01:16:57
1	Be 313.107†	213545.5	217397.3	0.0434	mg/L	0.0434	mg/L	01:16:57
1	Ca 315.886†	1184536.8	1216300.5	8.343	mg/L	8.343	mg/L	01:16:51
1	Cd 228.802†	8577.9	8705.4	0.2149	mg/L	0.2149	mg/L	01:17:17
1	Co 228.616†	16261.3	16899.1	0.4375	mg/L	0.4375	mg/L	01:16:57
1	Cr 267.716†	216331.3	221109.0	1.437	mg/L	1.437	mg/L	01:16:57
1	Cu 324.752†	124346.9	125948.8	0.4878	mg/L	0.4878	mg/L	01:16:57
1	Fe 234.349†	2634631.3	2708089.0	51.76	mg/L	51.76	mg/L	01:16:51
1	Fe 238.204†	5765781.2	5928134.4	50.71	mg/L	50.71	mg/L	01:16:51
1	Mg 279.077†	318312.9	326794.8	13.10	mg/L	13.10	mg/L	01:16:57
1	Mn 257.610†	943845.9	968723.2	1.063	mg/L	1.063	mg/L	01:16:51
1	Mo 202.031†	6393.1	6537.0	0.4303	mg/L	0.4303	mg/L	01:17:17
1	Ni 231.604†	14634.2	15019.5	0.4813	mg/L	0.4813	mg/L	01:16:57
1	P 214.914†	11650.3	11936.9	8.532	mg/L	8.532	mg/L	01:17:17
1	Pb 220.353†	3632.0	3886.5	0.4425	mg/L	0.4425	mg/L	01:17:17
1	Sb 206.836†	834.6	843.0	0.3752	mg/L	0.3752	mg/L	01:17:17
1	Se 196.026†	645.8	668.1	0.8478	mg/L	0.8478	mg/L	01:17:17
1	Sn 189.927†	1799.9	1661.1	0.4376	mg/L	0.4376	mg/L	01:17:17
1	Sr 407.771†	1453731.3	1488642.1	0.0671	mg/L	0.0671	mg/L	01:16:51
1	Ti 337.279†	1673659.0	1723084.0	2.174	mg/L	2.174	mg/L	01:16:51
1	Tl 190.801†	511.9	506.9	0.4463	mg/L	0.4463	mg/L	01:17:17
1	V 292.402†	120937.8	125993.4	0.4980	mg/L	0.4980	mg/L	01:16:57
1	Zn 213.857†	42338.8	42865.2	0.5490	mg/L	0.5490	mg/L	01:16:57
2	K 766.490†	52450.4	53272.1	29.21	mg/L	29.21	mg/L	01:16:39
2	Li 670.784†	16894.2	17169.7	0.4910	mg/L	0.4910	mg/L	01:16:39

2	Na 589.592	217687.3	218500.5	26.45 mg/L	26.45 mg/L	01:16:39
2	Y 371.029	3277768.7	3277768.7	0.974 mg/L		01:17:26
2	Ag 328.068†	58258.1	62348.2	0.2187 mg/L	0.2187 mg/L	01:17:31
2	Al 237.313†	282990.9	290506.6	32.62 mg/L	32.62 mg/L	01:17:31
2	As 188.979†	328.6	332.5	0.4555 mg/L	0.4555 mg/L	01:17:51
2	B 182.528†	192.7	200.5	0.4561 mg/L	0.4561 mg/L	01:17:51
2	Ba 233.527†	68520.3	70507.1	0.5875 mg/L	0.5875 mg/L	01:17:31
2	Be 313.107†	214904.5	218369.3	0.0436 mg/L	0.0436 mg/L	01:17:31
2	Ca 315.886†	1185519.9	1214963.3	8.334 mg/L	8.334 mg/L	01:17:26
2	Cd 228.802†	8578.3	8688.8	0.2144 mg/L	0.2144 mg/L	01:17:51
2	Co 228.616†	16338.7	16946.4	0.4387 mg/L	0.4387 mg/L	01:17:31
2	Cr 267.716†	217220.3	221593.0	1.440 mg/L	1.440 mg/L	01:17:31
2	Cu 324.752†	125171.0	126548.5	0.4901 mg/L	0.4901 mg/L	01:17:31
2	Fe 234.349†	2649627.1	2718261.7	51.95 mg/L	51.95 mg/L	01:17:26
2	Fe 238.204†	5786037.8	5937504.6	50.79 mg/L	50.79 mg/L	01:17:26
2	Mg 279.077†	320248.1	328150.6	13.16 mg/L	13.16 mg/L	01:17:31
2	Mn 257.610†	946394.8	969469.8	1.064 mg/L	1.064 mg/L	01:17:26
2	Mo 202.031†	6388.2	6519.4	0.4292 mg/L	0.4292 mg/L	01:17:51
2	Ni 231.604†	14695.9	15053.9	0.4824 mg/L	0.4824 mg/L	01:17:31
2	P 214.914†	11615.8	11878.4	8.491 mg/L	8.491 mg/L	01:17:51
2	Pb 220.353†	3640.3	3887.8	0.4426 mg/L	0.4426 mg/L	01:17:51
2	Sb 206.836†	819.7	826.1	0.3670 mg/L	0.3670 mg/L	01:17:51
2	Se 196.026†	647.5	668.6	0.8484 mg/L	0.8484 mg/L	01:17:51
2	Sn 189.927†	1787.0	1644.3	0.4331 mg/L	0.4331 mg/L	01:17:51
2	Sr 407.771†	1457190.9	1489313.4	0.0671 mg/L	0.0671 mg/L	01:17:26
2	Ti 337.279†	1676134.1	1722309.3	2.173 mg/L	2.173 mg/L	01:17:26
2	Tl 190.801†	509.4	503.3	0.4434 mg/L	0.4434 mg/L	01:17:51
2	V 292.402†	121260.5	126085.1	0.4983 mg/L	0.4983 mg/L	01:17:31
2	Zn 213.857†	42533.9	42981.6	0.5505 mg/L	0.5505 mg/L	01:17:31

Mean Data: BF62320-MS2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3274612.0	0.973	mg/L	0.0013				0.14%
Ag 328.068†	62142.0	0.2179	mg/L	0.00102	0.2179	mg/L	0.00102	0.47%
Al 237.313†	290022.4	32.57	mg/L	0.077	32.57	mg/L	0.077	0.24%
As 188.979†	329.6	0.4515	mg/L	0.00565	0.4515	mg/L	0.00565	1.25%
B 182.528†	196.3	0.4466	mg/L	0.01344	0.4466	mg/L	0.01344	3.01%
Ba 233.527†	70368.7	0.5863	mg/L	0.00163	0.5863	mg/L	0.00163	0.28%
Be 313.107†	217883.3	0.0435	mg/L	0.00014	0.0435	mg/L	0.00014	0.33%
Ca 315.886†	1215631.9	8.339	mg/L	0.0065	8.339	mg/L	0.0065	0.08%
Cd 228.802†	8697.1	0.2146	mg/L	0.00032	0.2146	mg/L	0.00032	0.15%
Co 228.616†	16922.8	0.4381	mg/L	0.00088	0.4381	mg/L	0.00088	0.20%
Cr 267.716†	221351.0	1.439	mg/L	0.0022	1.439	mg/L	0.0022	0.15%
Cu 324.752†	126248.7	0.4889	mg/L	0.00163	0.4889	mg/L	0.00163	0.33%
Fe 234.349†	2713175.4	51.86	mg/L	0.137	51.86	mg/L	0.137	0.27%
Fe 238.204†	5932819.5	50.75	mg/L	0.057	50.75	mg/L	0.057	0.11%
K 766.490†	53373.5	29.27	mg/L	0.079	29.27	mg/L	0.079	0.27%
Li 670.784†	17186.4	0.4914	mg/L	0.00068	0.4914	mg/L	0.00068	0.14%
Mg 279.077†	327472.7	13.13	mg/L	0.038	13.13	mg/L	0.038	0.29%
Mn 257.610†	969096.5	1.064	mg/L	0.0006	1.064	mg/L	0.0006	0.05%
Mo 202.031†	6528.2	0.4298	mg/L	0.00082	0.4298	mg/L	0.00082	0.19%
Na 589.592	219655.9	26.59	mg/L	0.199	26.59	mg/L	0.199	0.75%
Ni 231.604†	15036.7	0.4819	mg/L	0.00078	0.4819	mg/L	0.00078	0.16%
P 214.914†	11907.6	8.512	mg/L	0.0295	8.512	mg/L	0.0295	0.35%
Pb 220.353†	3887.1	0.4426	mg/L	0.00011	0.4426	mg/L	0.00011	0.03%
Sb 206.836†	834.6	0.3711	mg/L	0.00579	0.3711	mg/L	0.00579	1.56%
Se 196.026†	668.4	0.8481	mg/L	0.00042	0.8481	mg/L	0.00042	0.05%
Sn 189.927†	1652.7	0.4353	mg/L	0.00316	0.4353	mg/L	0.00316	0.73%
Sr 407.771†	1488977.8	0.0671	mg/L	0.00002	0.0671	mg/L	0.00002	0.03%
Ti 337.279†	1722696.6	2.174	mg/L	0.0007	2.174	mg/L	0.0007	0.03%
Tl 190.801†	505.1	0.4449	mg/L	0.00206	0.4449	mg/L	0.00206	0.46%
V 292.402†	126039.3	0.4981	mg/L	0.00022	0.4981	mg/L	0.00022	0.05%
Zn 213.857†	42923.4	0.5497	mg/L	0.00105	0.5497	mg/L	0.00105	0.19%

Matrix Recovery Check: BF62320-MS2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	29.59	29.27	0.079	mg/L	98.7
Li 670.784	0.5336	0.4914	0.001	mg/L	91.6

Na 589.592	29.95	26.59	0.199	mg/L	86.5
Ag 328.068	0.2510	0.2179	0.001	mg/L	86.8
Al 237.313	31.49	32.57	0.077	mg/L	143.0
As 188.979	0.5273	0.4515	0.006	mg/L	84.8
B 182.528	0.5162	0.4466	0.013	mg/L	86.1
Ba 233.527	0.6174	0.5863	0.002	mg/L	93.8
Be 313.107	0.0505	0.0435	0.000	mg/L	85.9
Ca 315.886	9.150	8.339	0.006	mg/L	83.8
Cd 228.802	0.2513	0.2146	0.000	mg/L	85.3
Co 228.616	0.5152	0.4381	0.001	mg/L	84.6
Cr 267.716	1.607	1.439	0.002	mg/L	66.3
Cu 324.752	0.5705	0.4889	0.002	mg/L	83.7
Fe 234.349	50.06	51.86	0.137	mg/L	171.9
Fe 238.204	49.16	50.75	0.057	mg/L	163.7
Mg 279.077	12.65	13.13	0.038	mg/L	109.6
Mn 257.610	1.023	1.064	0.001	mg/L	108.1
Mo 202.031	0.5038	0.4298	0.001	mg/L	85.2
Ni 231.604	0.5402	0.4819	0.001	mg/L	88.3
P 214.914	9.444	8.512	0.029	mg/L	81.3
Pb 220.353	0.5193	0.4426	0.000	mg/L	84.7
Sb 206.836	0.5028	0.3711	0.006	mg/L	73.7
Se 196.026	1.007	0.8481	0.000	mg/L	84.2
Sn 189.927	0.4799	0.4353	0.003	mg/L	91.1
Sr 407.771	0.0738	0.0671	0.000	mg/L	86.5
Ti 337.279	2.196	2.174	0.001	mg/L	95.6
Tl 190.801	0.5049	0.4449	0.002	mg/L	88.0
V 292.402	0.5483	0.4981	0.000	mg/L	90.0
Zn 213.857	0.6190	0.5497	0.001	mg/L	86.1

Sequence No.: 81
Sample ID: BF62320-SD2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 65
Date Collected: 6/24/2006 1:19:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62320-SD2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	2510.3	1862.3	1.025	mg/L	1.025	mg/L	01:21:05
1	Li 670.784†	429.8	245.0	0.0047	mg/L	0.0047	mg/L	01:21:05
1	Na 589.592	8246.2	9059.4	0.9991	mg/L	0.9991	mg/L	01:21:05
1	Y 371.029	3484365.6	3484365.6	1.04	mg/L			01:21:20
1	Ag 328.068†	-1955.6	665.6	0.0019	mg/L	0.0019	mg/L	01:21:25
1	Al 237.313†	54086.8	52274.6	5.870	mg/L	5.870	mg/L	01:21:25
1	As 188.979†	8.7	3.7	0.0077	mg/L	0.0077	mg/L	01:21:45
1	B 182.528†	-0.4	2.3	0.0107	mg/L	0.0107	mg/L	01:21:45
1	Ba 233.527†	2837.2	2919.3	0.0240	mg/L	0.0240	mg/L	01:21:45
1	Be 313.107†	4324.9	1973.3	0.0003	mg/L	0.0003	mg/L	01:21:25
1	Ca 315.886†	129420.7	123137.9	0.8408	mg/L	0.8408	mg/L	01:21:20
1	Cd 228.802†	138.1	17.7	0.0005	mg/L	0.0005	mg/L	01:21:45
1	Co 228.616†	1.8	178.6	0.0037	mg/L	0.0037	mg/L	01:21:45
1	Cr 267.716†	36908.6	34280.2	0.2227	mg/L	0.2227	mg/L	01:21:25
1	Cu 324.752†	6353.1	4210.6	0.0166	mg/L	0.0166	mg/L	01:21:25
1	Fe 234.349†	525691.1	506324.4	9.675	mg/L	9.675	mg/L	01:21:20
1	Fe 238.204†	1176579.4	1134889.2	9.703	mg/L	9.703	mg/L	01:21:20
1	Mg 279.077†	41380.8	39411.0	1.569	mg/L	1.569	mg/L	01:21:25
1	Mn 257.610†	118893.1	112911.0	0.1217	mg/L	0.1217	mg/L	01:21:25
1	Mo 202.031†	38.6	-0.1	0.0002	mg/L	0.0002	mg/L	01:21:45
1	Ni 231.604†	908.2	847.3	0.0274	mg/L	0.0274	mg/L	01:21:45
1	P 214.914†	1363.2	1272.4	0.9322	mg/L	0.9322	mg/L	01:21:45
1	Pb 220.353†	-116.3	39.2	0.0035	mg/L	0.0035	mg/L	01:21:45
1	Sb 206.836†	21.0	5.0	-0.0017	mg/L	-0.0017	mg/L	01:21:45
1	Se 196.026†	-4.5	-0.3	0.0100	mg/L	0.0100	mg/L	01:21:45
1	Sn 189.927†	98.5	-94.7	-0.0313	mg/L	-0.0313	mg/L	01:21:45
1	Sr 407.771†	118301.0	107916.7	0.0046	mg/L	0.0046	mg/L	01:21:20
1	Ti 337.279†	273105.2	265661.3	0.3358	mg/L	0.3358	mg/L	01:21:20
1	Tl 190.801†	-1.8	-21.2	0.0053	mg/L	0.0053	mg/L	01:21:45
1	V 292.402†	1511.3	3086.1	0.0111	mg/L	0.0111	mg/L	01:21:25
1	Zn 213.857†	3331.0	2542.2	0.0325	mg/L	0.0325	mg/L	01:21:45
2	K 766.490†	2507.8	1859.6	1.023	mg/L	1.023	mg/L	01:21:11

2	Li 670.784†	417.3	232.8	0.0044 mg/L	0.0044 mg/L	01:21:11
2	Na 589.592	8301.4	9114.6	1.006 mg/L	1.006 mg/L	01:21:11
2	Y 371.029	3484914.6	3484914.6	1.04 mg/L		01:21:52
2	Ag 328.068†	-2016.0	607.6	0.0017 mg/L	0.0017 mg/L	01:21:57
2	Al 237.313†	53928.3	52113.5	5.852 mg/L	5.852 mg/L	01:21:57
2	As 188.979†	14.1	8.9	0.0149 mg/L	0.0149 mg/L	01:22:18
2	B 182.528†	-1.4	1.4	0.0087 mg/L	0.0087 mg/L	01:22:18
2	Ba 233.527†	2826.2	2908.2	0.0239 mg/L	0.0239 mg/L	01:22:18
2	Be 313.107†	4180.3	1833.1	0.0002 mg/L	0.0002 mg/L	01:21:57
2	Ca 315.886†	129031.3	122742.3	0.8381 mg/L	0.8381 mg/L	01:21:52
2	Cd 228.802†	126.0	6.0	0.0001 mg/L	0.0001 mg/L	01:22:18
2	Co 228.616†	25.7	201.7	0.0043 mg/L	0.0043 mg/L	01:22:18
2	Cr 267.716†	36721.5	34093.9	0.2215 mg/L	0.2215 mg/L	01:21:57
2	Cu 324.752†	6393.3	4248.4	0.0167 mg/L	0.0167 mg/L	01:21:57
2	Fe 234.349†	524737.6	505323.9	9.656 mg/L	9.656 mg/L	01:21:52
2	Fe 238.204†	1173292.9	1131537.6	9.675 mg/L	9.675 mg/L	01:21:52
2	Mg 279.077†	41297.9	39324.7	1.565 mg/L	1.565 mg/L	01:21:57
2	Mn 257.610†	118574.6	112585.4	0.1213 mg/L	0.1213 mg/L	01:21:57
2	Mo 202.031†	46.8	7.9	0.0007 mg/L	0.0007 mg/L	01:22:18
2	Ni 231.604†	887.5	827.2	0.0268 mg/L	0.0268 mg/L	01:22:18
2	P 214.914†	1352.8	1262.2	0.9249 mg/L	0.9249 mg/L	01:22:18
2	Pb 220.353†	-122.2	33.5	0.0029 mg/L	0.0029 mg/L	01:22:18
2	Sb 206.836†	15.4	-0.3	-0.0042 mg/L	-0.0042 mg/L	01:22:18
2	Se 196.026†	-6.0	-1.7	0.0082 mg/L	0.0082 mg/L	01:22:18
2	Sn 189.927†	98.6	-94.7	-0.0313 mg/L	-0.0313 mg/L	01:22:18
2	Sr 407.771†	118309.5	107906.9	0.0046 mg/L	0.0046 mg/L	01:21:52
2	Ti 337.279†	272730.6	265258.1	0.3353 mg/L	0.3353 mg/L	01:21:52
2	Tl 190.801†	2.5	-17.1	0.0087 mg/L	0.0087 mg/L	01:22:18
2	V 292.402†	1582.4	3154.4	0.0114 mg/L	0.0114 mg/L	01:21:57
2	Zn 213.857†	3346.8	2556.9	0.0327 mg/L	0.0327 mg/L	01:22:18

Mean Data: BF62320-SD2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3484640.1	1.04	mg/L	0.000				0.01%
Ag 328.068†	636.6	0.0018	mg/L	0.00014	0.0018	mg/L	0.00014	7.93%
Al 237.313†	52194.0	5.861	mg/L	0.0128	5.861	mg/L	0.0128	0.22%
As 188.979†	6.3	0.0113	mg/L	0.00507	0.0113	mg/L	0.00507	45.01%
B 182.528†	1.8	0.0097	mg/L	0.00144	0.0097	mg/L	0.00144	14.85%
Ba 233.527†	2913.8	0.0239	mg/L	0.00007	0.0239	mg/L	0.00007	0.27%
Be 313.107†	1903.2	0.0003	mg/L	0.00002	0.0003	mg/L	0.00002	7.90%
Ca 315.886†	122940.1	0.8394	mg/L	0.00192	0.8394	mg/L	0.00192	0.23%
Cd 228.802†	11.8	0.0003	mg/L	0.00023	0.0003	mg/L	0.00023	79.74%
Co 228.616†	190.1	0.0040	mg/L	0.00043	0.0040	mg/L	0.00043	10.65%
Cr 267.716†	34187.1	0.2221	mg/L	0.00086	0.2221	mg/L	0.00086	0.39%
Cu 324.752†	4229.5	0.0166	mg/L	0.00010	0.0166	mg/L	0.00010	0.59%
Fe 234.349†	505824.1	9.665	mg/L	0.0135	9.665	mg/L	0.0135	0.14%
Fe 238.204†	1133213.4	9.689	mg/L	0.0203	9.689	mg/L	0.0203	0.21%
K 766.490†	1860.9	1.024	mg/L	0.0011	1.024	mg/L	0.0011	0.10%
Li 670.784†	238.9	0.0046	mg/L	0.00025	0.0046	mg/L	0.00025	5.42%
Mg 279.077†	39367.9	1.567	mg/L	0.0024	1.567	mg/L	0.0024	0.16%
Mn 257.610†	112748.2	0.1215	mg/L	0.00025	0.1215	mg/L	0.00025	0.21%
Mo 202.031†	3.9	0.0004	mg/L	0.00037	0.0004	mg/L	0.00037	87.83%
Na 589.592	9087.0	1.002	mg/L	0.0047	1.002	mg/L	0.0047	0.47%
Ni 231.604†	837.2	0.0271	mg/L	0.00045	0.0271	mg/L	0.00045	1.67%
P 214.914†	1267.3	0.9286	mg/L	0.00513	0.9286	mg/L	0.00513	0.55%
Pb 220.353†	36.4	0.0032	mg/L	0.00046	0.0032	mg/L	0.00046	14.31%
Sb 206.836†	2.3	-0.0030	mg/L	0.00181	-0.0030	mg/L	0.00181	61.33%
Se 196.026†	-1.0	0.0091	mg/L	0.00127	0.0091	mg/L	0.00127	13.95%
Sn 189.927†	-94.7	-0.0313	mg/L	0.00000	-0.0313	mg/L	0.00000	0.01%
Sr 407.771†	107911.8	0.0046	mg/L	0.00000	0.0046	mg/L	0.00000	0.01%
Ti 337.279†	265459.7	0.3355	mg/L	0.00036	0.3355	mg/L	0.00036	0.11%
Tl 190.801†	-19.1	0.0070	mg/L	0.00238	0.0070	mg/L	0.00238	33.95%
V 292.402†	3120.2	0.0113	mg/L	0.00020	0.0113	mg/L	0.00020	1.79%
Zn 213.857†	2549.6	0.0326	mg/L	0.00014	0.0326	mg/L	0.00014	0.43%

Dilution Check: BF62320-SD2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	0.9176	1.024	0.001	mg/L	11.6

Li 670.784	0.0067	0.0046	0.000	mg/L	32.3
Na 589.592	0.9905	1.002	0.005	mg/L	1.2
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.0002	0.0018	0.000	mg/L	788.4
Al 237.313	5.798	5.861	0.013	mg/L	1.1
As 188.979	0.0055	0.0113	0.005	mg/L	106.6
B 182.528	0.0032	0.0097	0.001	mg/L	199.9
Ba 233.527	0.0235	0.0239	0.000	mg/L	1.8
Be 313.107	0.0001	0.0003	0.000	mg/L	146.3
Ca 315.886	0.8299	0.8394	0.002	mg/L	1.1
Cd 228.802	0.0003	0.0003	0.000	mg/L	9.2
Co 228.616	0.0030	0.0040	0.000	mg/L	31.9
Cr 267.716	0.2214	0.2221	0.001	mg/L	0.3
Cu 324.752	0.0141	0.0166	0.000	mg/L	17.9
Fe 234.349	9.512	9.665	0.014	mg/L	1.6
Fe 238.204	9.331	9.689	0.020	mg/L	3.8
Mg 279.077	1.530	1.567	0.002	mg/L	2.4
Mn 257.610	0.1047	0.1215	0.000	mg/L	16.1
Mo 202.031	0.0008	0.0004	0.000	mg/L	44.7
Ni 231.604	0.0080	0.0271	0.000	mg/L	236.4
P 214.914	0.8889	0.9286	0.005	mg/L	4.5
Pb 220.353	0.0039	0.0032	0.000	mg/L	17.2
Sb 206.836	0.0006	-0.0030	0.002	mg/L	630.2
Se 196.026	0.0013	0.0091	0.001	mg/L	599.2
Sn 189.927	-0.0040	-0.0313	0.000	mg/L	-677.0
Sr 407.771	0.0048	0.0046	0.000	mg/L	2.5
Ti 337.279	0.3391	0.3355	0.000	mg/L	1.1
Tl 190.801	0.0010	0.0070	0.002	mg/L	615.6
V 292.402	0.0097	0.0113	0.000	mg/L	16.6
Zn 213.857	0.0238	0.0326	0.000	mg/L	36.9

Sequence No.: 82
Sample ID: BF62320-PDS2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 66
Date Collected: 6/24/2006 1:23:56 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62320-PDS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	51624.2	52036.4	28.53	mg/L	28.53	mg/L	01:25:31
1	Li 670.784†	17595.8	17757.6	0.5078	mg/L	0.5078	mg/L	01:25:31
1	Na 589.592	228067.6	228880.8	27.71	mg/L	27.71	mg/L	01:25:31
1	Y 371.029	3301932.5	3301932.5	0.981	mg/L			01:25:49
1	Ag 328.068†	61511.8	65225.7	0.2286	mg/L	0.2286	mg/L	01:25:54
1	Al 237.313†	272743.0	277939.9	31.21	mg/L	31.21	mg/L	01:25:54
1	As 188.979†	352.7	354.6	0.4858	mg/L	0.4858	mg/L	01:26:15
1	B 182.528†	208.0	214.6	0.4879	mg/L	0.4879	mg/L	01:26:15
1	Ba 233.527†	67977.9	69439.9	0.5786	mg/L	0.5786	mg/L	01:25:54
1	Be 313.107†	226659.0	228731.3	0.0458	mg/L	0.0458	mg/L	01:25:49
1	Ca 315.886†	1272514.9	1294694.5	8.881	mg/L	8.881	mg/L	01:25:49
1	Cd 228.802†	9209.5	9267.5	0.2286	mg/L	0.2286	mg/L	01:26:15
1	Co 228.616†	17361.7	17865.9	0.4630	mg/L	0.4630	mg/L	01:25:54
1	Cr 267.716†	237316.7	240436.8	1.563	mg/L	1.563	mg/L	01:25:54
1	Cu 324.752†	135618.9	136253.2	0.5264	mg/L	0.5264	mg/L	01:25:54
1	Fe 234.349†	2549359.6	2596201.7	49.62	mg/L	49.62	mg/L	01:25:49
1	Fe 238.204†	5586302.8	5690543.5	48.68	mg/L	48.68	mg/L	01:25:49
1	Mg 279.077†	296135.6	301177.9	12.07	mg/L	12.07	mg/L	01:25:54
1	Mn 257.610†	884033.6	898824.1	0.9864	mg/L	0.9864	mg/L	01:25:49
1	Mo 202.031†	6951.8	7045.7	0.4638	mg/L	0.4638	mg/L	01:26:15
1	Ni 231.604†	15850.1	16119.5	0.5166	mg/L	0.5166	mg/L	01:25:54
1	P 214.914†	12128.1	12313.1	8.800	mg/L	8.800	mg/L	01:26:15
1	Pb 220.353†	3884.7	4109.5	0.4676	mg/L	0.4676	mg/L	01:26:15
1	Sb 206.836†	942.8	945.4	0.4219	mg/L	0.4219	mg/L	01:26:15
1	Se 196.026†	705.5	722.9	0.9164	mg/L	0.9164	mg/L	01:26:15
1	Sn 189.927†	1935.5	1782.2	0.4694	mg/L	0.4694	mg/L	01:26:15
1	Sr 407.771†	1551189.6	1574139.9	0.0709	mg/L	0.0709	mg/L	01:25:49
1	Ti 337.279†	1605750.4	1638008.6	2.067	mg/L	2.067	mg/L	01:25:49
1	Tl 190.801†	552.2	543.1	0.4747	mg/L	0.4747	mg/L	01:26:15
1	V 292.402†	126849.4	130868.6	0.5182	mg/L	0.5182	mg/L	01:25:54

1	Zn 213.857†	44464.6	44629.2	0.5718 mg/L	0.5718 mg/L	01:25:54
2	K 766.490†	51286.8	51908.7	28.46 mg/L	28.46 mg/L	01:25:37
2	Li 670.784†	17474.5	17707.7	0.5064 mg/L	0.5064 mg/L	01:25:37
2	Na 589.592	227634.2	228447.4	27.65 mg/L	27.65 mg/L	01:25:37
2	Y 371.029	3288337.1	3288337.1	0.977 mg/L		01:26:24
2	Ag 328.068†	61711.1	65688.8	0.2302 mg/L	0.2302 mg/L	01:26:30
2	Al 237.313†	270973.2	277278.2	31.14 mg/L	31.14 mg/L	01:26:30
2	As 188.979†	352.0	355.4	0.4869 mg/L	0.4869 mg/L	01:26:50
2	B 182.528†	204.1	211.5	0.4809 mg/L	0.4809 mg/L	01:26:50
2	Ba 233.527†	67535.0	69273.2	0.5772 mg/L	0.5772 mg/L	01:26:30
2	Be 313.107†	224918.0	227904.8	0.0457 mg/L	0.0457 mg/L	01:26:24
2	Ca 315.886†	1260637.4	1287903.4	8.835 mg/L	8.835 mg/L	01:26:24
2	Cd 228.802†	9198.8	9295.3	0.2293 mg/L	0.2293 mg/L	01:26:50
2	Co 228.616†	17251.2	17826.1	0.4620 mg/L	0.4620 mg/L	01:26:30
2	Cr 267.716†	236338.5	240435.7	1.563 mg/L	1.563 mg/L	01:26:30
2	Cu 324.752†	135661.9	136868.4	0.5287 mg/L	0.5287 mg/L	01:26:30
2	Fe 234.349†	2522079.3	2579031.0	49.29 mg/L	49.29 mg/L	01:26:24
2	Fe 238.204†	5528231.0	5654663.6	48.37 mg/L	48.37 mg/L	01:26:24
2	Mg 279.077†	294111.7	300354.8	12.04 mg/L	12.04 mg/L	01:26:30
2	Mn 257.610†	876474.2	894814.2	0.9820 mg/L	0.9820 mg/L	01:26:24
2	Mo 202.031†	6900.4	7022.3	0.4623 mg/L	0.4623 mg/L	01:26:50
2	Ni 231.604†	15677.0	16009.1	0.5130 mg/L	0.5130 mg/L	01:26:30
2	P 214.914†	12090.1	12325.2	8.809 mg/L	8.809 mg/L	01:26:50
2	Pb 220.353†	3876.0	4117.0	0.4685 mg/L	0.4685 mg/L	01:26:50
2	Sb 206.836†	949.1	955.8	0.4269 mg/L	0.4269 mg/L	01:26:50
2	Se 196.026†	702.5	722.8	0.9163 mg/L	0.9163 mg/L	01:26:50
2	Sn 189.927†	1904.4	1758.5	0.4631 mg/L	0.4631 mg/L	01:26:50
2	Sr 407.771†	1541305.4	1570561.9	0.0708 mg/L	0.0708 mg/L	01:26:24
2	Ti 337.279†	1598311.1	1637161.8	2.066 mg/L	2.066 mg/L	01:26:24
2	Tl 190.801†	543.9	536.9	0.4695 mg/L	0.4695 mg/L	01:26:50
2	V 292.402†	126486.2	131031.4	0.5189 mg/L	0.5189 mg/L	01:26:30
2	Zn 213.857†	44071.8	44414.7	0.5690 mg/L	0.5690 mg/L	01:26:30

Mean Data: BF62320-PDS2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3295134.8	0.979	mg/L	0.0029				0.29%
Ag 328.068†	65457.2	0.2294	mg/L	0.00113	0.2294	mg/L	0.00113	0.49%
Al 237.313†	277609.1	31.17	mg/L	0.052	31.17	mg/L	0.052	0.17%
As 188.979†	355.0	0.4864	mg/L	0.00074	0.4864	mg/L	0.00074	0.15%
B 182.528†	213.0	0.4844	mg/L	0.00493	0.4844	mg/L	0.00493	1.02%
Ba 233.527†	69356.5	0.5779	mg/L	0.00098	0.5779	mg/L	0.00098	0.17%
Be 313.107†	228318.0	0.0457	mg/L	0.00012	0.0457	mg/L	0.00012	0.27%
Ca 315.886†	1291298.9	8.858	mg/L	0.0329	8.858	mg/L	0.0329	0.37%
Cd 228.802†	9281.4	0.2290	mg/L	0.00048	0.2290	mg/L	0.00048	0.21%
Co 228.616†	17846.0	0.4625	mg/L	0.00074	0.4625	mg/L	0.00074	0.16%
Cr 267.716†	240436.3	1.563	mg/L	0.0000	1.563	mg/L	0.0000	0.00%
Cu 324.752†	136560.8	0.5275	mg/L	0.00161	0.5275	mg/L	0.00161	0.31%
Fe 234.349†	2587616.4	49.45	mg/L	0.232	49.45	mg/L	0.232	0.47%
Fe 238.204†	5672603.5	48.52	mg/L	0.217	48.52	mg/L	0.217	0.45%
K 766.490†	51972.5	28.50	mg/L	0.050	28.50	mg/L	0.050	0.17%
Li 670.784†	17732.6	0.5071	mg/L	0.00101	0.5071	mg/L	0.00101	0.20%
Mg 279.077†	300766.3	12.06	mg/L	0.023	12.06	mg/L	0.023	0.19%
Mn 257.610†	896819.2	0.9842	mg/L	0.00312	0.9842	mg/L	0.00312	0.32%
Mo 202.031†	7034.0	0.4630	mg/L	0.00108	0.4630	mg/L	0.00108	0.23%
Na 589.592	228664.1	27.68	mg/L	0.037	27.68	mg/L	0.037	0.13%
Ni 231.604†	16064.3	0.5148	mg/L	0.00250	0.5148	mg/L	0.00250	0.49%
P 214.914†	12319.2	8.805	mg/L	0.0061	8.805	mg/L	0.0061	0.07%
Pb 220.353†	4113.2	0.4680	mg/L	0.00060	0.4680	mg/L	0.00060	0.13%
Sb 206.836†	950.6	0.4244	mg/L	0.00355	0.4244	mg/L	0.00355	0.84%
Se 196.026†	722.8	0.9164	mg/L	0.00012	0.9164	mg/L	0.00012	0.01%
Sn 189.927†	1770.4	0.4663	mg/L	0.00444	0.4663	mg/L	0.00444	0.95%
Sr 407.771†	1572350.9	0.0709	mg/L	0.00011	0.0709	mg/L	0.00011	0.16%
Ti 337.279†	1637585.2	2.066	mg/L	0.0008	2.066	mg/L	0.0008	0.04%
Tl 190.801†	540.0	0.4721	mg/L	0.00366	0.4721	mg/L	0.00366	0.77%
V 292.402†	130950.0	0.5186	mg/L	0.00047	0.5186	mg/L	0.00047	0.09%
Zn 213.857†	44522.0	0.5704	mg/L	0.00192	0.5704	mg/L	0.00192	0.34%

Matrix Recovery Check: BF62320-PDS2

Analyte	Expected	Measured	Std.	Units	Recovery

	Conc.	Conc.	Dev.		(%)
K 766.490	29.59	28.50	0.050	mg/L	95.6
Li 670.784	0.5336	0.5071	0.001	mg/L	94.7
Na 589.592	29.95	27.68	0.037	mg/L	90.9
Ag 328.068	0.2510	0.2294	0.001	mg/L	91.4
Al 237.313	31.49	31.17	0.052	mg/L	87.3
As 188.979	0.5273	0.4864	0.001	mg/L	91.8
B 182.528	0.5162	0.4844	0.005	mg/L	93.6
Ba 233.527	0.6174	0.5779	0.001	mg/L	92.1
Be 313.107	0.0505	0.0457	0.000	mg/L	90.4
Ca 315.886	9.150	8.858	0.033	mg/L	94.2
Cd 228.802	0.2513	0.2290	0.000	mg/L	91.1
Co 228.616	0.5152	0.4625	0.001	mg/L	89.5
Cr 267.716	1.607	1.563	0.000	mg/L	91.1
Cu 324.752	0.5705	0.5275	0.002	mg/L	91.4
Fe 234.349	50.06	49.45	0.232	mg/L	75.8
Fe 238.204	49.16	48.52	0.217	mg/L	74.6
Mg 279.077	12.65	12.06	0.023	mg/L	88.1
Mn 257.610	1.023	0.9842	0.003	mg/L	92.1
Mo 202.031	0.5038	0.4630	0.001	mg/L	91.8
Ni 231.604	0.5402	0.5148	0.002	mg/L	94.9
P 214.914	9.444	8.805	0.006	mg/L	87.2
Pb 220.353	0.5193	0.4680	0.001	mg/L	89.8
Sb 206.836	0.5028	0.4244	0.004	mg/L	84.3
Se 196.026	1.007	0.9164	0.000	mg/L	91.0
Sn 189.927	0.4799	0.4663	0.004	mg/L	97.3
Sr 407.771	0.0738	0.0709	0.000	mg/L	94.1
Ti 337.279	2.196	2.066	0.001	mg/L	74.2
Tl 190.801	0.5049	0.4721	0.004	mg/L	93.4
V 292.402	0.5483	0.5186	0.000	mg/L	94.0
Zn 213.857	0.6190	0.5704	0.002	mg/L	90.3

Sequence No.: 83
Sample ID: 0606374-15
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 67
Date Collected: 6/24/2006 1:28:28 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606374-15

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490†	3018.7	2580.0	1.418	mg/L	1.418	mg/L	01:30:03
1	Li 670.784†	1352.3	1237.2	0.0332	mg/L	0.0332	mg/L	01:30:03
1	Na 589.592	42585.6	43398.8	5.171	mg/L	5.171	mg/L	01:30:03
1	Y 371.029	3232766.2	3232766.2	0.961	mg/L			01:30:20
1	Ag 328.068†	7716.2	10583.8	0.0377	mg/L	0.0377	mg/L	01:30:26
1	Al 237.313†	220207.0	229213.3	25.74	mg/L	25.74	mg/L	01:30:26
1	As 188.979†	28.1	24.5	0.0351	mg/L	0.0351	mg/L	01:30:46
1	B 182.528†	3.9	6.8	0.0208	mg/L	0.0208	mg/L	01:30:46
1	Ba 233.527†	20295.9	21301.0	0.1772	mg/L	0.1772	mg/L	01:30:26
1	Be 313.107†	16836.2	15318.3	0.0020	mg/L	0.0020	mg/L	01:30:26
1	Ca 315.886†	628311.4	652038.0	4.470	mg/L	4.470	mg/L	01:30:20
1	Cd 228.802†	190.5	82.6	0.0022	mg/L	0.0022	mg/L	01:30:46
1	Co 228.616†	669.4	873.4	0.0196	mg/L	0.0196	mg/L	01:30:46
1	Cr 267.716†	15388.6	14658.7	0.0964	mg/L	0.0964	mg/L	01:30:26
1	Cu 324.752†	69226.3	70117.5	0.2733	mg/L	0.2733	mg/L	01:30:26
1	Fe 234.349†	2034702.1	2116192.2	40.45	mg/L	40.45	mg/L	01:30:20
1	Fe 238.204†	4485622.2	4666886.0	39.92	mg/L	39.92	mg/L	01:30:20
1	Mg 279.077†	132993.9	137858.5	5.521	mg/L	5.521	mg/L	01:30:26
1	Mn 257.610†	1094372.4	1136985.9	1.248	mg/L	1.248	mg/L	01:30:20
1	Mo 202.031†	110.1	77.3	0.0052	mg/L	0.0052	mg/L	01:30:46
1	Ni 231.604†	2795.7	2879.8	0.0924	mg/L	0.0924	mg/L	01:30:26
1	P 214.914†	6447.2	6665.5	4.776	mg/L	4.776	mg/L	01:30:46
1	Pb 220.353†	1261.9	1464.7	0.1668	mg/L	0.1668	mg/L	01:30:46
1	Sb 206.836†	25.0	10.8	0.0027	mg/L	0.0027	mg/L	01:30:46
1	Se 196.026†	-7.4	-3.6	0.0058	mg/L	0.0058	mg/L	01:30:46
1	Sn 189.927†	465.7	294.9	0.0743	mg/L	0.0743	mg/L	01:30:46
1	Sr 407.771†	561451.1	577974.2	0.0259	mg/L	0.0259	mg/L	01:30:20
1	Ti 337.279†	1087329.6	1133513.1	1.431	mg/L	1.431	mg/L	01:30:20
1	Tl 190.801†	-10.3	-30.2	0.0149	mg/L	0.0149	mg/L	01:30:46

1	V 292.402†	19973.4	22412.4	0.0827 mg/L	0.0827 mg/L	01:30:26
1	Zn 213.857†	73311.0	75617.8	0.9753 mg/L	0.9753 mg/L	01:30:26
2	K 766.490†	3089.8	2623.0	1.442 mg/L	1.442 mg/L	01:30:09
2	Li 670.784†	1340.1	1211.1	0.0325 mg/L	0.0325 mg/L	01:30:09
2	Na 589.592	42557.8	43371.0	5.168 mg/L	5.168 mg/L	01:30:09
2	Y 371.029	3264215.6	3264215.6	0.970 mg/L		01:30:55
2	Ag 328.068†	7607.1	10393.9	0.0370 mg/L	0.0370 mg/L	01:31:00
2	Al 237.313†	219096.5	225861.0	25.36 mg/L	25.36 mg/L	01:31:00
2	As 188.979†	27.6	23.7	0.0340 mg/L	0.0340 mg/L	01:31:21
2	B 182.528†	2.8	5.6	0.0181 mg/L	0.0181 mg/L	01:31:21
2	Ba 233.527†	20190.0	20988.4	0.1746 mg/L	0.1746 mg/L	01:31:00
2	Be 313.107†	16885.1	15199.8	0.0019 mg/L	0.0019 mg/L	01:31:00
2	Ca 315.886†	632276.2	649824.6	4.455 mg/L	4.455 mg/L	01:30:55
2	Cd 228.802†	189.5	79.6	0.0021 mg/L	0.0021 mg/L	01:31:21
2	Co 228.616†	653.4	850.2	0.0189 mg/L	0.0189 mg/L	01:31:21
2	Cr 267.716†	15428.4	14545.4	0.0957 mg/L	0.0957 mg/L	01:31:00
2	Cu 324.752†	69123.6	69317.6	0.2702 mg/L	0.2702 mg/L	01:31:00
2	Fe 234.349†	2048671.3	2110188.7	40.33 mg/L	40.33 mg/L	01:30:55
2	Fe 238.204†	4510655.6	4647711.9	39.75 mg/L	39.75 mg/L	01:30:55
2	Mg 279.077†	132106.3	135610.3	5.431 mg/L	5.431 mg/L	01:31:00
2	Mn 257.610†	1102244.1	1134126.3	1.245 mg/L	1.245 mg/L	01:30:55
2	Mo 202.031†	111.7	77.8	0.0053 mg/L	0.0053 mg/L	01:31:21
2	Ni 231.604†	2752.1	2806.7	0.0901 mg/L	0.0901 mg/L	01:31:00
2	P 214.914†	6493.4	6648.5	4.764 mg/L	4.764 mg/L	01:31:21
2	Pb 220.353†	1246.2	1435.9	0.1635 mg/L	0.1635 mg/L	01:31:21
2	Sb 206.836†	19.4	4.7	-0.0002 mg/L	-0.0002 mg/L	01:31:21
2	Se 196.026†	-4.9	-1.0	0.0091 mg/L	0.0091 mg/L	01:31:21
2	Sn 189.927†	457.8	282.0	0.0709 mg/L	0.0709 mg/L	01:31:21
2	Sr 407.771†	566039.9	577074.3	0.0259 mg/L	0.0259 mg/L	01:30:55
2	Ti 337.279†	1100511.7	1136197.1	1.434 mg/L	1.434 mg/L	01:30:55
2	Tl 190.801†	-12.7	-32.6	0.0129 mg/L	0.0129 mg/L	01:31:21
2	V 292.402†	19867.3	22102.8	0.0815 mg/L	0.0815 mg/L	01:31:00
2	Zn 213.857†	72776.0	74331.4	0.9587 mg/L	0.9587 mg/L	01:31:00

Mean Data: 0606374-15

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3248490.9	0.966	mg/L	0.0066				0.68%
Ag 328.068†	10488.8	0.0374	mg/L	0.00047	0.0374	mg/L	0.00047	1.26%
Al 237.313†	227537.2	25.55	mg/L	0.268	25.55	mg/L	0.268	1.05%
As 188.979†	24.1	0.0345	mg/L	0.00079	0.0345	mg/L	0.00079	2.28%
B 182.528†	6.2	0.0195	mg/L	0.00189	0.0195	mg/L	0.00189	9.69%
Ba 233.527†	21144.7	0.1759	mg/L	0.00184	0.1759	mg/L	0.00184	1.05%
Be 313.107†	15259.1	0.0020	mg/L	0.00002	0.0020	mg/L	0.00002	1.05%
Ca 315.886†	650931.3	4.462	mg/L	0.0107	4.462	mg/L	0.0107	0.24%
Cd 228.802†	81.1	0.0022	mg/L	0.00005	0.0022	mg/L	0.00005	2.31%
Co 228.616†	861.8	0.0193	mg/L	0.00043	0.0193	mg/L	0.00043	2.26%
Cr 267.716†	14602.0	0.0960	mg/L	0.00052	0.0960	mg/L	0.00052	0.54%
Cu 324.752†	69717.5	0.2717	mg/L	0.00216	0.2717	mg/L	0.00216	0.79%
Fe 234.349†	2113190.5	40.39	mg/L	0.081	40.39	mg/L	0.081	0.20%
Fe 238.204†	4657299.0	39.84	mg/L	0.116	39.84	mg/L	0.116	0.29%
K 766.490†	2601.5	1.430	mg/L	0.0167	1.430	mg/L	0.0167	1.17%
Li 670.784†	1224.2	0.0329	mg/L	0.00053	0.0329	mg/L	0.00053	1.62%
Mg 279.077†	136734.4	5.476	mg/L	0.0638	5.476	mg/L	0.0638	1.17%
Mn 257.610†	1135556.1	1.247	mg/L	0.0022	1.247	mg/L	0.0022	0.18%
Mo 202.031†	77.5	0.0053	mg/L	0.00003	0.0053	mg/L	0.00003	0.49%
Na 589.592	43384.9	5.170	mg/L	0.0024	5.170	mg/L	0.0024	0.05%
Ni 231.604†	2843.3	0.0913	mg/L	0.00165	0.0913	mg/L	0.00165	1.81%
P 214.914†	6657.0	4.770	mg/L	0.0086	4.770	mg/L	0.0086	0.18%
Pb 220.353†	1450.3	0.1652	mg/L	0.00235	0.1652	mg/L	0.00235	1.42%
Sb 206.836†	7.8	0.0013	mg/L	0.00207	0.0013	mg/L	0.00207	161.59%
Se 196.026†	-2.3	0.0075	mg/L	0.00235	0.0075	mg/L	0.00235	31.37%
Sn 189.927†	288.5	0.0726	mg/L	0.00241	0.0726	mg/L	0.00241	3.31%
Sr 407.771†	577524.3	0.0259	mg/L	0.00003	0.0259	mg/L	0.00003	0.11%
Ti 337.279†	1134855.1	1.432	mg/L	0.0024	1.432	mg/L	0.0024	0.17%
Tl 190.801†	-31.4	0.0139	mg/L	0.00142	0.0139	mg/L	0.00142	10.21%
V 292.402†	22257.6	0.0821	mg/L	0.00086	0.0821	mg/L	0.00086	1.05%
Zn 213.857†	74974.6	0.9670	mg/L	0.01175	0.9670	mg/L	0.01175	1.22%

Sequence No.: 84 **Autosampler Location: 68**

Sample ID: 0606374-16
Analyst:
Initial Sample Wt:
Dilution:

Date Collected: 6/24/2006 1:33:00 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606374-16

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	4599.6	4116.6	2.261	mg/L	2.261	mg/L	01:34:35
1	Li 670.784†	1607.5	1464.8	0.0398	mg/L	0.0398	mg/L	01:34:35
1	Na 589.592	41896.7	42709.9	5.088	mg/L	5.088	mg/L	01:34:35
1	Y 371.029	3307840.4	3307840.4	0.983	mg/L			01:34:51
1	Ag 328.068†	-2386.8	126.4	0.0009	mg/L	0.0009	mg/L	01:34:56
1	Al 237.313†	221754.8	225586.5	25.37	mg/L	25.37	mg/L	01:34:51
1	As 188.979†	21.5	17.2	0.0245	mg/L	0.0245	mg/L	01:35:16
1	B 182.528†	2.7	5.4	0.0178	mg/L	0.0178	mg/L	01:35:16
1	Ba 233.527†	9326.0	9664.9	0.0802	mg/L	0.0802	mg/L	01:34:56
1	Be 313.107†	9714.5	7677.5	-0.0003	mg/L	-0.0003	mg/L	01:34:56
1	Ca 315.886†	893687.1	907095.8	6.219	mg/L	6.219	mg/L	01:34:51
1	Cd 228.802†	148.1	34.9	0.0010	mg/L	0.0010	mg/L	01:35:16
1	Co 228.616†	361.5	544.5	0.0098	mg/L	0.0098	mg/L	01:35:16
1	Cr 267.716†	7962.1	6742.1	0.0450	mg/L	0.0450	mg/L	01:34:56
1	Cu 324.752†	8953.1	7182.2	0.0333	mg/L	0.0333	mg/L	01:34:56
1	Fe 234.349†	1646176.4	1672989.1	31.98	mg/L	31.98	mg/L	01:34:51
1	Fe 238.204†	3651279.2	3712381.5	31.75	mg/L	31.75	mg/L	01:34:51
1	Mg 279.077†	165345.7	167620.5	6.711	mg/L	6.711	mg/L	01:34:51
1	Mn 257.610†	405554.7	410583.3	0.4492	mg/L	0.4492	mg/L	01:34:51
1	Mo 202.031†	168.7	134.3	0.0090	mg/L	0.0090	mg/L	01:35:16
1	Ni 231.604†	973.3	960.3	0.0310	mg/L	0.0310	mg/L	01:35:16
1	P 214.914†	6050.7	6110.1	4.380	mg/L	4.380	mg/L	01:35:16
1	Pb 220.353†	-16.0	135.2	0.0171	mg/L	0.0171	mg/L	01:35:16
1	Sb 206.836†	24.6	9.8	0.0025	mg/L	0.0025	mg/L	01:35:16
1	Se 196.026†	-8.5	-4.6	0.0046	mg/L	0.0046	mg/L	01:35:16
1	Sn 189.927†	145.5	-41.8	-0.0147	mg/L	-0.0147	mg/L	01:35:16
1	Sr 407.771†	717248.1	723165.4	0.0325	mg/L	0.0325	mg/L	01:34:51
1	Ti 337.279†	1543413.4	1571687.4	1.983	mg/L	1.983	mg/L	01:34:51
1	Tl 190.801†	6.1	-13.3	0.0144	mg/L	0.0144	mg/L	01:35:16
1	V 292.402†	10849.6	12661.4	0.0445	mg/L	0.0445	mg/L	01:34:56
1	Zn 213.857†	11528.4	11050.9	0.1412	mg/L	0.1412	mg/L	01:34:56
2	K 766.490†	4623.3	4119.5	2.263	mg/L	2.263	mg/L	01:34:41
2	Li 670.784†	1609.5	1459.5	0.0396	mg/L	0.0396	mg/L	01:34:41
2	Na 589.592	41930.9	42744.1	5.092	mg/L	5.092	mg/L	01:34:41
2	Y 371.029	3322843.8	3322843.8	0.988	mg/L			01:35:24
2	Ag 328.068†	-2459.1	64.1	0.0007	mg/L	0.0007	mg/L	01:35:29
2	Al 237.313†	221969.5	224785.5	25.28	mg/L	25.28	mg/L	01:35:24
2	As 188.979†	22.1	17.7	0.0252	mg/L	0.0252	mg/L	01:35:49
2	B 182.528†	3.7	6.4	0.0201	mg/L	0.0201	mg/L	01:35:49
2	Ba 233.527†	9334.6	9630.7	0.0799	mg/L	0.0799	mg/L	01:35:29
2	Be 313.107†	9859.9	7780.2	-0.0003	mg/L	-0.0003	mg/L	01:35:29
2	Ca 315.886†	896282.6	905619.7	6.209	mg/L	6.209	mg/L	01:35:24
2	Cd 228.802†	146.0	32.1	0.0009	mg/L	0.0009	mg/L	01:35:49
2	Co 228.616†	369.6	551.0	0.0100	mg/L	0.0100	mg/L	01:35:49
2	Cr 267.716†	7902.2	6644.9	0.0444	mg/L	0.0444	mg/L	01:35:29
2	Cu 324.752†	8989.4	7177.8	0.0332	mg/L	0.0332	mg/L	01:35:29
2	Fe 234.349†	1648138.2	1667415.9	31.87	mg/L	31.87	mg/L	01:35:24
2	Fe 238.204†	3653666.1	3698030.9	31.63	mg/L	31.63	mg/L	01:35:24
2	Mg 279.077†	165728.7	167248.9	6.696	mg/L	6.696	mg/L	01:35:24
2	Mn 257.610†	406583.4	409762.4	0.4483	mg/L	0.4483	mg/L	01:35:24
2	Mo 202.031†	175.5	140.4	0.0094	mg/L	0.0094	mg/L	01:35:49
2	Ni 231.604†	972.0	954.4	0.0308	mg/L	0.0308	mg/L	01:35:49
2	P 214.914†	6047.1	6078.6	4.357	mg/L	4.357	mg/L	01:35:49
2	Pb 220.353†	-35.3	115.8	0.0149	mg/L	0.0149	mg/L	01:35:49
2	Sb 206.836†	18.5	3.5	-0.0005	mg/L	-0.0005	mg/L	01:35:49
2	Se 196.026†	-3.4	0.6	0.0111	mg/L	0.0111	mg/L	01:35:49
2	Sn 189.927†	149.7	-38.3	-0.0137	mg/L	-0.0137	mg/L	01:35:49
2	Sr 407.771†	720986.2	723656.2	0.0325	mg/L	0.0325	mg/L	01:35:24
2	Ti 337.279†	1549003.6	1570259.5	1.981	mg/L	1.981	mg/L	01:35:24
2	Tl 190.801†	0.8	-18.7	0.0099	mg/L	0.0099	mg/L	01:35:49
2	V 292.402†	10823.2	12584.9	0.0442	mg/L	0.0442	mg/L	01:35:29
2	Zn 213.857†	11511.5	10980.8	0.1403	mg/L	0.1403	mg/L	01:35:29

Mean Data: 0606374-16

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3315342.1	0.985	mg/L	0.0032				0.32%
Ag 328.068†	95.2	0.0008	mg/L	0.00016	0.0008	mg/L	0.00016	18.97%
Al 237.313†	225186.0	25.32	mg/L	0.064	25.32	mg/L	0.064	0.25%
As 188.979†	17.4	0.0249	mg/L	0.00047	0.0249	mg/L	0.00047	1.89%
B 182.528†	5.9	0.0189	mg/L	0.00161	0.0189	mg/L	0.00161	8.49%
Ba 233.527†	9647.8	0.0800	mg/L	0.00020	0.0800	mg/L	0.00020	0.25%
Be 313.107†	7728.8	-0.0003	mg/L	0.00002	-0.0003	mg/L	0.00002	5.69%
Ca 315.886†	906357.8	6.214	mg/L	0.0072	6.214	mg/L	0.0072	0.12%
Cd 228.802†	33.5	0.0009	mg/L	0.00005	0.0009	mg/L	0.00005	5.47%
Co 228.616†	547.8	0.0099	mg/L	0.00012	0.0099	mg/L	0.00012	1.25%
Cr 267.716†	6693.5	0.0447	mg/L	0.00045	0.0447	mg/L	0.00045	1.01%
Cu 324.752†	7180.0	0.0332	mg/L	0.00003	0.0332	mg/L	0.00003	0.08%
Fe 234.349†	1670202.5	31.92	mg/L	0.075	31.92	mg/L	0.075	0.24%
Fe 238.204†	3705206.2	31.69	mg/L	0.087	31.69	mg/L	0.087	0.27%
K 766.490†	4118.0	2.262	mg/L	0.0011	2.262	mg/L	0.0011	0.05%
Li 670.784†	1462.2	0.0397	mg/L	0.00011	0.0397	mg/L	0.00011	0.27%
Mg 279.077†	167434.7	6.704	mg/L	0.0105	6.704	mg/L	0.0105	0.16%
Mn 257.610†	410172.8	0.4487	mg/L	0.00064	0.4487	mg/L	0.00064	0.14%
Mo 202.031†	137.3	0.0092	mg/L	0.00028	0.0092	mg/L	0.00028	3.08%
Na 589.592	42727.0	5.090	mg/L	0.0029	5.090	mg/L	0.0029	0.06%
Ni 231.604†	957.4	0.0309	mg/L	0.00013	0.0309	mg/L	0.00013	0.43%
P 214.914†	6094.4	4.369	mg/L	0.0158	4.369	mg/L	0.0158	0.36%
Pb 220.353†	125.5	0.0160	mg/L	0.00156	0.0160	mg/L	0.00156	9.78%
Sb 206.836†	6.6	0.0010	mg/L	0.00213	0.0010	mg/L	0.00213	219.89%
Se 196.026†	-2.0	0.0078	mg/L	0.00462	0.0078	mg/L	0.00462	59.08%
Sn 189.927†	-40.0	-0.0142	mg/L	0.00066	-0.0142	mg/L	0.00066	4.62%
Sr 407.771†	723410.8	0.0325	mg/L	0.00002	0.0325	mg/L	0.00002	0.05%
Ti 337.279†	1570973.5	1.982	mg/L	0.0013	1.982	mg/L	0.0013	0.06%
Tl 190.801†	-16.0	0.0121	mg/L	0.00316	0.0121	mg/L	0.00316	26.09%
V 292.402†	12623.1	0.0443	mg/L	0.00020	0.0443	mg/L	0.00020	0.45%
Zn 213.857†	11015.9	0.1408	mg/L	0.00063	0.1408	mg/L	0.00063	0.45%

Sequence No.: 85
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/24/2006 1:37:29 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	43280.4	44188.7	24.23	mg/L	24.23	mg/L	01:39:07
1	Li 670.784†	16807.3	17208.0	0.4921	mg/L	0.4921	mg/L	01:39:07
1	Na 589.592	193149.8	193963.0	23.46	mg/L	23.46	mg/L	01:39:07
1	Y 371.029	3253715.2	3253715.2	0.967	mg/L			01:39:21
1	Ag 328.068†	64769.8	69523.1	0.2417	mg/L	0.2417	mg/L	01:39:27
1	Al 237.313†	20348.4	21092.4	2.379	mg/L	2.379	mg/L	01:39:27
1	As 188.979†	351.4	358.7	0.4929	mg/L	0.4929	mg/L	01:39:47
1	B 182.528†	204.8	214.5	0.4875	mg/L	0.4875	mg/L	01:39:47
1	Ba 233.527†	55339.1	57398.3	0.4782	mg/L	0.4782	mg/L	01:39:27
1	Be 313.107†	224650.3	230076.6	0.0473	mg/L	0.0473	mg/L	01:39:27
1	Ca 315.886†	682098.3	703441.6	4.824	mg/L	4.824	mg/L	01:39:21
1	Cd 228.802†	9491.5	9698.2	0.2389	mg/L	0.2389	mg/L	01:39:47
1	Co 228.616†	17302.6	18067.0	0.4717	mg/L	0.4717	mg/L	01:39:27
1	Cr 267.716†	72877.9	73997.1	0.4796	mg/L	0.4796	mg/L	01:39:27
1	Cu 324.752†	126441.3	128811.6	0.4883	mg/L	0.4883	mg/L	01:39:27
1	Fe 234.349†	123135.6	126079.0	2.401	mg/L	2.401	mg/L	01:39:27
1	Fe 238.204†	272871.7	281022.5	2.399	mg/L	2.399	mg/L	01:39:27
1	Mg 279.077†	116422.0	119832.8	4.804	mg/L	4.804	mg/L	01:39:27
1	Mn 257.610†	430290.6	443020.4	0.4849	mg/L	0.4849	mg/L	01:39:21
1	Mo 202.031†	6985.8	7185.7	0.4730	mg/L	0.4730	mg/L	01:39:47
1	Ni 231.604†	14732.7	15203.4	0.4873	mg/L	0.4873	mg/L	01:39:27
1	P 214.914†	6383.5	6556.6	4.698	mg/L	4.698	mg/L	01:39:47
1	Pb 220.353†	3907.8	4192.0	0.4730	mg/L	0.4730	mg/L	01:39:47
1	Sb 206.836†	957.7	975.0	0.4595	mg/L	0.4595	mg/L	01:39:47
1	Se 196.026†	736.7	765.7	0.9701	mg/L	0.9701	mg/L	01:39:47

1	Sn 189.927†	1826.6	1698.8	0.4438 mg/L	0.4438 mg/L	01:39:47
1	Sr 407.771†	1052770.2	1082215.9	0.0487 mg/L	0.0487 mg/L	01:39:21
1	Ti 337.279†	364997.7	379366.7	0.4792 mg/L	0.4792 mg/L	01:39:27
1	Tl 190.801†	594.8	595.5	0.5119 mg/L	0.5119 mg/L	01:39:47
1	V 292.402†	115223.3	120763.0	0.4873 mg/L	0.4873 mg/L	01:39:27
1	Zn 213.857†	36512.9	37078.9	0.4778 mg/L	0.4778 mg/L	01:39:27
2	K 766.490†	43796.7	45230.5	24.80 mg/L	24.80 mg/L	01:39:12
2	Li 670.784†	16917.5	17518.1	0.5010 mg/L	0.5010 mg/L	01:39:12
2	Na 589.592	193320.2	194133.4	23.48 mg/L	23.48 mg/L	01:39:12
2	Y 371.029	3217624.7	3217624.7	0.956 mg/L		01:39:54
2	Ag 328.068†	64297.2	69780.1	0.2426 mg/L	0.2426 mg/L	01:39:59
2	Al 237.313†	20322.8	21301.7	2.402 mg/L	2.402 mg/L	01:39:59
2	As 188.979†	349.8	361.1	0.4962 mg/L	0.4962 mg/L	01:40:19
2	B 182.528†	208.9	221.1	0.5025 mg/L	0.5025 mg/L	01:40:19
2	Ba 233.527†	55435.4	58140.8	0.4844 mg/L	0.4844 mg/L	01:39:59
2	Be 313.107†	224052.7	232057.2	0.0477 mg/L	0.0477 mg/L	01:39:59
2	Ca 315.886†	671913.4	700703.3	4.806 mg/L	4.806 mg/L	01:39:54
2	Cd 228.802†	9493.0	9809.8	0.2417 mg/L	0.2417 mg/L	01:40:19
2	Co 228.616†	17429.2	18400.0	0.4804 mg/L	0.4804 mg/L	01:39:59
2	Cr 267.716†	73195.1	75174.0	0.4873 mg/L	0.4873 mg/L	01:39:59
2	Cu 324.752†	125637.6	129437.6	0.4907 mg/L	0.4907 mg/L	01:39:59
2	Fe 234.349†	122501.8	126844.4	2.415 mg/L	2.415 mg/L	01:39:59
2	Fe 238.204†	272423.3	283718.3	2.422 mg/L	2.422 mg/L	01:39:59
2	Mg 279.077†	115808.4	120541.4	4.833 mg/L	4.833 mg/L	01:39:59
2	Mn 257.610†	423609.7	441025.4	0.4827 mg/L	0.4827 mg/L	01:39:54
2	Mo 202.031†	7025.5	7308.2	0.4811 mg/L	0.4811 mg/L	01:40:19
2	Ni 231.604†	14901.4	15550.6	0.4984 mg/L	0.4984 mg/L	01:39:59
2	P 214.914†	6391.0	6638.3	4.756 mg/L	4.756 mg/L	01:40:19
2	Pb 220.353†	3919.6	4249.7	0.4795 mg/L	0.4795 mg/L	01:40:19
2	Sb 206.836†	959.9	988.4	0.4658 mg/L	0.4658 mg/L	01:40:19
2	Se 196.026†	728.9	766.2	0.9707 mg/L	0.9707 mg/L	01:40:19
2	Sn 189.927†	1835.2	1729.0	0.4518 mg/L	0.4518 mg/L	01:40:19
2	Sr 407.771†	1041379.8	1082516.0	0.0487 mg/L	0.0487 mg/L	01:39:54
2	Ti 337.279†	364989.1	383590.7	0.4846 mg/L	0.4846 mg/L	01:39:59
2	Tl 190.801†	596.3	603.9	0.5186 mg/L	0.5186 mg/L	01:40:19
2	V 292.402†	115861.6	122766.7	0.4953 mg/L	0.4953 mg/L	01:39:59
2	Zn 213.857†	36484.6	37472.7	0.4829 mg/L	0.4829 mg/L	01:39:59

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3235670.0	0.962	mg/L	0.0076				0.79%
Ag 328.068†	69651.6	0.2421	mg/L	0.00064	0.2421	mg/L	0.00064	0.26%
QC value within limits for Ag 328.068 Recovery = 96.85%								
Al 237.313†	21197.0	2.391	mg/L	0.0167	2.391	mg/L	0.0167	0.70%
QC value within limits for Al 237.313 Recovery = 95.62%								
As 188.979†	359.9	0.4945	mg/L	0.00232	0.4945	mg/L	0.00232	0.47%
QC value within limits for As 188.979 Recovery = 98.90%								
B 182.528†	217.8	0.4950	mg/L	0.01055	0.4950	mg/L	0.01055	2.13%
QC value within limits for B 182.528 Recovery = 99.00%								
Ba 233.527†	57769.5	0.4813	mg/L	0.00438	0.4813	mg/L	0.00438	0.91%
QC value within limits for Ba 233.527 Recovery = 96.26%								
Be 313.107†	231066.9	0.0475	mg/L	0.00029	0.0475	mg/L	0.00029	0.60%
QC value within limits for Be 313.107 Recovery = 95.03%								
Ca 315.886†	702072.4	4.815	mg/L	0.0133	4.815	mg/L	0.0133	0.28%
QC value within limits for Ca 315.886 Recovery = 96.30%								
Cd 228.802†	9754.0	0.2403	mg/L	0.00197	0.2403	mg/L	0.00197	0.82%
QC value within limits for Cd 228.802 Recovery = 96.13%								
Co 228.616†	18233.5	0.4760	mg/L	0.00616	0.4760	mg/L	0.00616	1.29%
QC value within limits for Co 228.616 Recovery = 95.20%								
Cr 267.716†	74585.5	0.4834	mg/L	0.00540	0.4834	mg/L	0.00540	1.12%
QC value within limits for Cr 267.716 Recovery = 96.69%								
Cu 324.752†	129124.6	0.4895	mg/L	0.00168	0.4895	mg/L	0.00168	0.34%
QC value within limits for Cu 324.752 Recovery = 97.90%								
Fe 234.349†	126461.7	2.408	mg/L	0.0103	2.408	mg/L	0.0103	0.43%
QC value within limits for Fe 234.349 Recovery = 96.33%								
Fe 238.204†	282370.4	2.411	mg/L	0.0163	2.411	mg/L	0.0163	0.68%
QC value within limits for Fe 238.204 Recovery = 96.43%								
K 766.490†	44709.6	24.52	mg/L	0.404	24.52	mg/L	0.404	1.65%
QC value within limits for K 766.490 Recovery = 98.07%								
Li 670.784†	17363.1	0.4965	mg/L	0.00630	0.4965	mg/L	0.00630	1.27%

QC value within limits for Li 670.784 Recovery = 99.30%

Mg 279.077†	120187.1	4.818 mg/L	0.0201	4.818 mg/L	0.0201	0.42%

QC value within limits for Mg 279.077 Recovery = 96.37%

Mn 257.610†	442022.9	0.4838 mg/L	0.00155	0.4838 mg/L	0.00155	0.32%

QC value within limits for Mn 257.610 Recovery = 96.77%

Mo 202.031†	7247.0	0.4771 mg/L	0.00570	0.4771 mg/L	0.00570	1.19%

QC value within limits for Mo 202.031 Recovery = 95.41%

Na 589.592	194048.2	23.47 mg/L	0.015	23.47 mg/L	0.015	0.06%

QC value within limits for Na 589.592 Recovery = 93.90%

Ni 231.604†	15377.0	0.4928 mg/L	0.00786	0.4928 mg/L	0.00786	1.60%

QC value within limits for Ni 231.604 Recovery = 98.56%

P 214.914†	6597.4	4.727 mg/L	0.0412	4.727 mg/L	0.0412	0.87%

QC value within limits for P 214.914 Recovery = 94.54%

Pb 220.353†	4220.8	0.4763 mg/L	0.00462	0.4763 mg/L	0.00462	0.97%

QC value within limits for Pb 220.353 Recovery = 95.25%

Sb 206.836†	981.7	0.4626 mg/L	0.00446	0.4626 mg/L	0.00446	0.96%

QC value within limits for Sb 206.836 Recovery = 92.52%

Se 196.026†	766.0	0.9704 mg/L	0.00041	0.9704 mg/L	0.00041	0.04%

QC value within limits for Se 196.026 Recovery = 97.04%

Sn 189.927†	1713.9	0.4478 mg/L	0.00566	0.4478 mg/L	0.00566	1.26%

QC value less than the lower limit for Sn 189.927 Recovery = 89.56%

Sr 407.771†	1082365.9	0.0487 mg/L	0.00001	0.0487 mg/L	0.00001	0.02%

QC value within limits for Sr 407.771 Recovery = 97.40%

Ti 337.279†	381478.7	0.4819 mg/L	0.00377	0.4819 mg/L	0.00377	0.78%

QC value within limits for Ti 337.279 Recovery = 96.38%

Tl 190.801†	599.7	0.5153 mg/L	0.00480	0.5153 mg/L	0.00480	0.93%

QC value within limits for Tl 190.801 Recovery = 103.05%

V 292.402†	121764.8	0.4913 mg/L	0.00572	0.4913 mg/L	0.00572	1.16%

QC value within limits for V 292.402 Recovery = 98.26%

Zn 213.857†	37275.8	0.4804 mg/L	0.00356	0.4804 mg/L	0.00356	0.74%

QC value within limits for Zn 213.857 Recovery = 96.07%

QC Failed. Continue with analysis.

==========

Sequence No.: 86
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/24/2006 1:41:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	701.5	156.4	0.0897	mg/L	0.0897	mg/L	01:43:32
1	Li 670.784†	147.7	-18.9	-0.0029	mg/L	-0.0029	mg/L	01:43:32
1	Na 589.592	-774.9	38.3	-0.0969	mg/L	-0.0969	mg/L	01:43:32
1	Y 371.029	3287481.9	3287481.9	0.977	mg/L			01:43:46
1	Ag 328.068†	-1831.5	679.6	0.0016	mg/L	0.0016	mg/L	01:43:51
1	Al 237.313†	-55.7	-3.9	0.0024	mg/L	0.0024	mg/L	01:44:11
1	As 188.979†	4.3	-0.3	0.0025	mg/L	0.0025	mg/L	01:44:11
1	B 182.528†	-2.1	0.5	0.0068	mg/L	0.0068	mg/L	01:44:11
1	Ba 233.527†	-154.4	21.9	-0.0002	mg/L	-0.0002	mg/L	01:44:11
1	Be 313.107†	2352.4	204.8	0.0002	mg/L	0.0002	mg/L	01:43:51
1	Ca 315.886†	1327.6	-461.0	-0.0073	mg/L	-0.0073	mg/L	01:43:51
1	Cd 228.802†	129.3	16.6	0.0004	mg/L	0.0004	mg/L	01:44:11
1	Co 228.616†	-182.5	-9.9	-0.0005	mg/L	-0.0005	mg/L	01:44:11
1	Cr 267.716†	1269.6	-56.3	-0.0007	mg/L	-0.0007	mg/L	01:43:51
1	Cu 324.752†	2878.6	1022.3	0.0024	mg/L	0.0024	mg/L	01:43:51
1	Fe 234.349†	1311.3	103.8	-0.0019	mg/L	-0.0019	mg/L	01:44:11
1	Fe 238.204†	1154.5	66.1	-0.0048	mg/L	-0.0048	mg/L	01:44:11
1	Mg 279.077†	551.7	21.8	-0.0105	mg/L	-0.0105	mg/L	01:43:51
1	Mn 257.610†	1842.8	3.7	-0.0025	mg/L	-0.0025	mg/L	01:43:51
1	Mo 202.031†	52.9	16.8	0.0013	mg/L	0.0013	mg/L	01:44:11
1	Ni 231.604†	49.6	21.1	0.0010	mg/L	0.0010	mg/L	01:44:11
1	P 214.914†	34.6	-8.4	0.0194	mg/L	0.0194	mg/L	01:44:11
1	Pb 220.353†	-166.5	-18.9	-0.0038	mg/L	-0.0038	mg/L	01:44:11
1	Sb 206.836†	11.9	-3.0	-0.0007	mg/L	-0.0007	mg/L	01:44:11
1	Se 196.026†	-7.6	-3.7	0.0057	mg/L	0.0057	mg/L	01:44:11
1	Sn 189.927†	84.7	-103.1	-0.0342	mg/L	-0.0342	mg/L	01:44:11
1	Sr 407.771†	6564.1	412.7	-0.0002	mg/L	-0.0002	mg/L	01:43:46
1	Ti 337.279†	-2210.8	-288.2	0.0003	mg/L	0.0003	mg/L	01:43:51

1	Tl 190.801†	6.7	-12.7	0.0108 mg/L	0.0108 mg/L	01:44:11
1	V 292.402†	-1683.8	-96.3	0.0004 mg/L	0.0004 mg/L	01:43:51
1	Zn 213.857†	617.5	-42.0	0.0000 mg/L	0.0000 mg/L	01:44:11
2	K 766.490†	676.5	131.9	0.0763 mg/L	0.0763 mg/L	01:43:38
2	Li 670.784†	97.4	-70.2	-0.0043 mg/L	-0.0043 mg/L	01:43:38
2	Na 589.592	-741.0	72.2	-0.0928 mg/L	-0.0928 mg/L	01:43:38
2	Y 371.029	3282528.8	3282528.8	0.976 mg/L		01:44:17
2	Ag 328.068†	-1925.9	580.0	0.0012 mg/L	0.0012 mg/L	01:44:22
2	Al 237.313†	-67.6	-16.3	0.0010 mg/L	0.0010 mg/L	01:44:43
2	As 188.979†	6.4	1.9	0.0055 mg/L	0.0055 mg/L	01:44:43
2	B 182.528†	0.4	3.1	0.0125 mg/L	0.0125 mg/L	01:44:43
2	Ba 233.527†	-159.2	16.8	-0.0002 mg/L	-0.0002 mg/L	01:44:43
2	Be 313.107†	2147.5	-1.6	0.0001 mg/L	0.0001 mg/L	01:44:22
2	Ca 315.886†	1461.0	-322.3	-0.0063 mg/L	-0.0063 mg/L	01:44:22
2	Cd 228.802†	125.9	13.4	0.0003 mg/L	0.0003 mg/L	01:44:43
2	Co 228.616†	-163.1	9.7	0.0000 mg/L	0.0000 mg/L	01:44:43
2	Cr 267.716†	1287.4	-36.1	-0.0006 mg/L	-0.0006 mg/L	01:44:22
2	Cu 324.752†	2820.9	967.7	0.0022 mg/L	0.0022 mg/L	01:44:22
2	Fe 234.349†	1314.8	109.4	-0.0018 mg/L	-0.0018 mg/L	01:44:43
2	Fe 238.204†	1127.7	40.4	-0.0050 mg/L	-0.0050 mg/L	01:44:43
2	Mg 279.077†	600.9	73.2	-0.0084 mg/L	-0.0084 mg/L	01:44:22
2	Mn 257.610†	1828.2	-8.4	-0.0025 mg/L	-0.0025 mg/L	01:44:22
2	Mo 202.031†	46.0	9.8	0.0008 mg/L	0.0008 mg/L	01:44:43
2	Ni 231.604†	50.2	21.9	0.0010 mg/L	0.0010 mg/L	01:44:43
2	P 214.914†	32.5	-10.5	0.0179 mg/L	0.0179 mg/L	01:44:43
2	Pb 220.353†	-162.8	-15.3	-0.0034 mg/L	-0.0034 mg/L	01:44:43
2	Sb 206.836†	5.3	-9.8	-0.0040 mg/L	-0.0040 mg/L	01:44:43
2	Se 196.026†	-1.3	2.7	0.0138 mg/L	0.0138 mg/L	01:44:43
2	Sn 189.927†	78.6	-109.2	-0.0359 mg/L	-0.0359 mg/L	01:44:43
2	Sr 407.771†	6313.1	165.5	-0.0002 mg/L	-0.0002 mg/L	01:44:17
2	Ti 337.279†	-2154.0	-233.4	0.0004 mg/L	0.0004 mg/L	01:44:22
2	Tl 190.801†	1.7	-17.7	0.0067 mg/L	0.0067 mg/L	01:44:43
2	V 292.402†	-1568.3	19.5	0.0008 mg/L	0.0008 mg/L	01:44:22
2	Zn 213.857†	613.3	-45.4	-0.0001 mg/L	-0.0001 mg/L	01:44:43

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3285005.3	0.976	mg/L	0.0010				0.11%
Ag 328.068†	629.8	0.0014	mg/L	0.00025	0.0014	mg/L	0.00025	17.61%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	-10.1	0.0017	mg/L	0.00099	0.0017	mg/L	0.00099	58.62%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	0.8	0.0040	mg/L	0.00217	0.0040	mg/L	0.00217	54.22%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	1.8	0.0097	mg/L	0.00403	0.0097	mg/L	0.00403	41.70%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	19.4	-0.0002	mg/L	0.00003	-0.0002	mg/L	0.00003	14.26%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	101.6	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	21.17%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	-391.7	-0.0068	mg/L	0.00068	-0.0068	mg/L	0.00068	9.94%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	15.0	0.0003	mg/L	0.00007	0.0003	mg/L	0.00007	21.48%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-0.1	-0.0002	mg/L	0.00036	-0.0002	mg/L	0.00036	149.01%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-46.2	-0.0006	mg/L	0.00009	-0.0006	mg/L	0.00009	14.35%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	995.0	0.0023	mg/L	0.00015	0.0023	mg/L	0.00015	6.29%
QC value greater than the upper limit for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	106.6	-0.0018	mg/L	0.00008	-0.0018	mg/L	0.00008	4.10%
QC value within limits for Fe 234.349 Recovery = Not calculated								
Fe 238.204†	53.2	-0.0049	mg/L	0.00016	-0.0049	mg/L	0.00016	3.17%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	144.2	0.0830	mg/L	0.00951	0.0830	mg/L	0.00951	11.47%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated								
Li 670.784†	-44.6	-0.0036	mg/L	0.00104	-0.0036	mg/L	0.00104	29.01%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	47.5	-0.0095	mg/L	0.00146	-0.0095	mg/L	0.00146	15.41%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated								

Mn 257.610†	-2.4	-0.0025 mg/L	0.00001	-0.0025 mg/L	0.00001	0.37%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	13.3	0.0010 mg/L	0.00032	0.0010 mg/L	0.00032	31.13%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	55.3	-0.0948 mg/L	0.00291	-0.0948 mg/L	0.00291	3.07%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	21.5	0.0010 mg/L	0.00002	0.0010 mg/L	0.00002	1.75%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-9.4	0.0187 mg/L	0.00105	0.0187 mg/L	0.00105	5.63%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-17.1	-0.0036 mg/L	0.00028	-0.0036 mg/L	0.00028	7.77%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-6.4	-0.0024 mg/L	0.00229	-0.0024 mg/L	0.00229	97.04%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-0.5	0.0097 mg/L	0.00571	0.0097 mg/L	0.00571	58.67%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-106.2	-0.0351 mg/L	0.00114	-0.0351 mg/L	0.00114	3.25%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	289.1	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	3.58%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	-260.8	0.0004 mg/L	0.00005	0.0004 mg/L	0.00005	13.55%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	-15.2	0.0088 mg/L	0.00291	0.0088 mg/L	0.00291	33.23%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	-38.4	0.0006 mg/L	0.00032	0.0006 mg/L	0.00032	53.69%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-43.7	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	54.14%
QC value within limits for Zn 213.857 Recovery = Not calculated						

QC Failed. Continue with analysis.

==========

Sequence No.: 87
Sample ID: 0606373-20
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 69
Date Collected: 6/24/2006 1:46:20 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606373-20

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	14117.3	13106.3	7.190	mg/L	7.190	mg/L	01:47:55
1	Li 670.784†	2410.9	2164.1	0.0599	mg/L	0.0599	mg/L	01:47:55
1	Na 589.592	46147.7	46960.9	5.604	mg/L	5.604	mg/L	01:47:55
1	Y 371.029	3474858.2	3474858.2	1.03	mg/L			01:48:13
1	Ag 328.068†	-1912.8	701.9	0.0042	mg/L	0.0042	mg/L	01:48:19
1	Al 237.313†	375690.9	363780.6	40.84	mg/L	40.84	mg/L	01:48:19
1	As 188.979†	27.1	21.5	0.0302	mg/L	0.0302	mg/L	01:48:39
1	B 182.528†	7.1	9.6	0.0272	mg/L	0.0272	mg/L	01:48:39
1	Ba 233.527†	34282.1	33370.4	0.2779	mg/L	0.2779	mg/L	01:48:19
1	Be 313.107†	25038.5	22038.7	0.0026	mg/L	0.0026	mg/L	01:48:19
1	Ca 315.886†	8461953.5	8190674.4	56.19	mg/L	56.19	mg/L	01:48:13
1	Cd 228.802†	179.3	57.9	0.0018	mg/L	0.0018	mg/L	01:48:39
1	Co 228.616†	735.0	888.4	0.0182	mg/L	0.0182	mg/L	01:48:39
1	Cr 267.716†	10426.3	8738.7	0.0587	mg/L	0.0587	mg/L	01:48:19
1	Cu 324.752†	27201.8	24412.1	0.1047	mg/L	0.1047	mg/L	01:48:19
1	Fe 234.349†	3459439.6	3348040.3	64.00	mg/L	64.00	mg/L	01:48:13
1	Fe 238.204†	7502253.5	7262238.9	62.12	mg/L	62.12	mg/L	01:48:13
1	Mg 279.077†	642305.2	621309.1	24.93	mg/L	24.93	mg/L	01:48:13
1	Mn 257.610†	2209991.4	2137735.1	2.349	mg/L	2.349	mg/L	01:48:13
1	Mo 202.031†	216.4	172.2	0.0115	mg/L	0.0115	mg/L	01:48:39
1	Ni 231.604†	1606.6	1525.8	0.0491	mg/L	0.0491	mg/L	01:48:39
1	P 214.914†	6468.8	6219.0	4.457	mg/L	4.457	mg/L	01:48:39
1	Pb 220.353†	1397.6	1504.6	0.1733	mg/L	0.1733	mg/L	01:48:39
1	Sb 206.836†	0.5	-14.7	-0.0098	mg/L	-0.0098	mg/L	01:48:39
1	Se 196.026†	0.7	4.7	0.0163	mg/L	0.0163	mg/L	01:48:39
1	Sn 189.927†	883.8	665.8	0.1744	mg/L	0.1744	mg/L	01:48:39
1	Sr 407.771†	3174523.9	3067130.8	0.1384	mg/L	0.1384	mg/L	01:48:13
1	Ti 337.279†	1844707.9	1787939.9	2.256	mg/L	2.256	mg/L	01:48:13
1	Tl 190.801†	-32.5	-50.9	0.0154	mg/L	0.0154	mg/L	01:48:39
1	V 292.402†	17636.4	18701.7	0.0640	mg/L	0.0640	mg/L	01:48:19
1	Zn 213.857†	24339.1	22890.2	0.2916	mg/L	0.2916	mg/L	01:48:19

ANALYSIS SEQUENCE

BPG0225

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0225-CAL1	QC		5		6F28044		
BPG0225-CAL2	QC		6		6F28010		
BPG0225-CAL3	QC		7		6F28011		
BPG0225-CAL4	QC		8		6F28012		
BPG0225-CAL5	QC		9		6F28013		
BPG0225-ICV1	QC		10		6F28012		
BPG0225-CCB1	QC		11		6F28014		
BPG0225-CCV1	QC		12		6F28012		
BPG0225-SCV1	QC		13				
BPG0225-ICB1	QC		14				
BF62317-BLK2	QC		15				
BF62317-BS2	QC		16				
BF62317-BSD2	QC		17				
BF62317-SRM2	QC		18				
BF62317-DUP3	QC		19				
BF62317-MS3	QC		20				
BF62317-PS3	QC		21				
BF62317-DUP4	QC		22				
BF62317-MS4	QC		23				
BPG0225-CCB2	QC		24				
BPG0225-CCV2	QC		25		6F28012		
BF62317-PS4	QC		26				
0606373-01	As: ppm Arsenic 7060	F	27				MACTEC Engineering & Consulting, In
0606373-01	Tl: ppm Thallium 7841	F	27				MACTEC Engineering & Consulting, In
0606373-02	Tl: ppm Thallium 7841	F	28				MACTEC Engineering & Consulting, In
0606373-02	As: ppm Arsenic 7060	F	28				MACTEC Engineering & Consulting, In
0606373-03	As: ppm Arsenic 7060	F	29				MACTEC Engineering & Consulting, In
0606373-03	Tl: ppm Thallium 7841	F	29				MACTEC Engineering & Consulting, In
0606373-04	Tl: ppm Thallium 7841	F	30				MACTEC Engineering & Consulting, In
0606373-04	As: ppm Arsenic 7060	F	30				MACTEC Engineering & Consulting, In
0606373-05	As: ppm Arsenic 7060	F	31				MACTEC Engineering & Consulting, In
0606373-05	Tl: ppm Thallium 7841	F	31				MACTEC Engineering & Consulting, In
0606373-06	As: ppm Arsenic 7060	F	32				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0225

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606373-06	Tl: ppm Thallium 7841	F	32				MACTEC Engineering & Consulting, In
0606373-07	Tl: ppm Thallium 7841	F	33				MACTEC Engineering & Consulting, In
0606373-07	As: ppm Arsenic 7060	F	33				MACTEC Engineering & Consulting, In
0606373-08	Tl: ppm Thallium 7841	F	34				MACTEC Engineering & Consulting, In
0606373-08	As: ppm Arsenic 7060	F	34				MACTEC Engineering & Consulting, In
0606373-09	Tl: ppm Thallium 7841	F	35				MACTEC Engineering & Consulting, In
0606373-09	As: ppm Arsenic 7060	F	35				MACTEC Engineering & Consulting, In
BPG0225-CCB3	QC		36				
BPG0225-CCV3	QC		37		6F28012		
0606373-10	Tl: ppm Thallium 7841	F	38				MACTEC Engineering & Consulting, In
0606373-10	As: ppm Arsenic 7060	F	38				MACTEC Engineering & Consulting, In
0606373-12	Tl: ppm Thallium 7841	F	39				MACTEC Engineering & Consulting, In
0606373-12	As: ppm Arsenic 7060	F	39				MACTEC Engineering & Consulting, In
0606373-13	Tl: ppm Thallium 7841	F	40				MACTEC Engineering & Consulting, In
0606373-13	As: ppm Arsenic 7060	F	40				MACTEC Engineering & Consulting, In
0606373-14	As: ppm Arsenic 7060	F	41				MACTEC Engineering & Consulting, In
0606373-14	Tl: ppm Thallium 7841	F	41				MACTEC Engineering & Consulting, In
0606373-15	Tl: ppm Thallium 7841	F	42				MACTEC Engineering & Consulting, In
0606373-15	As: ppm Arsenic 7060	F	42				MACTEC Engineering & Consulting, In
0606373-16	As: ppm Arsenic 7060	F	43				MACTEC Engineering & Consulting, In
0606373-16	Tl: ppm Thallium 7841	F	43				MACTEC Engineering & Consulting, In
0606373-17	As: ppm Arsenic 7060	F	44				MACTEC Engineering & Consulting, In
0606373-17	Tl: ppm Thallium 7841	F	44				MACTEC Engineering & Consulting, In
0606373-18	Tl: ppm Thallium 7841	F	45				MACTEC Engineering & Consulting, In
0606373-18	As: ppm Arsenic 7060	F	45				MACTEC Engineering & Consulting, In
0606373-19	As: ppm Arsenic 7060	F	46				MACTEC Engineering & Consulting, In
0606373-19	Tl: ppm Thallium 7841	F	46				MACTEC Engineering & Consulting, In
BPG0225-SRD1	QC		47				
BPG0225-CCB4	QC		48				
BPG0225-CCV4	QC		49		6F28012		
BPG0225-SRD2	QC		50				
BF62320-BLK2	QC		51				
BF62320-BS2	QC		52				

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0225

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BF62320-BSD2	QC		53				
BF62320-SRM2	QC		54				
BF62320-DUP3	QC		55				
BF62320-MS3	QC		56				
BF62320-PS3	QC		57				
BF62320-DUP4	QC		58				
BF62320-MS4	QC		59				
BPG0225-CCB5	QC		60				
BPG0225-CCV5	QC		61		6F28012		
BF62320-PS4	QC		62				
0606373-20	Tl: ppm Thallium 7841	F	63				MACTEC Engineering & Consulti
0606373-21	Tl: ppm Thallium 7841	F	64				MACTEC Engineering & Consulti
0606374-01	As: ppm Arsenic 7060	F	65				MACTEC Engineering & Consulti
0606374-01	Tl: ppm Thallium 7841	F	65				MACTEC Engineering & Consulti
0606374-02	Tl: ppm Thallium 7841	F	66				MACTEC Engineering & Consulti
0606374-02	As: ppm Arsenic 7060	F	66				MACTEC Engineering & Consulti
0606374-03	As: ppm Arsenic 7060	F	67				MACTEC Engineering & Consulti
0606374-03	Tl: ppm Thallium 7841	F	67				MACTEC Engineering & Consulti
0606374-03RE1	As: ppm Arsenic 7060	F	68				MACTEC Engineering & Consulti
0606374-04	As: ppm Arsenic 7060	F	69				MACTEC Engineering & Consulti
0606374-04	Tl: ppm Thallium 7841	F	69				MACTEC Engineering & Consulti
0606374-05	As: ppm Arsenic 7060	F	70				MACTEC Engineering & Consulti
0606374-05	Tl: ppm Thallium 7841	F	70				MACTEC Engineering & Consulti
0606374-06	Tl: ppm Thallium 7841	F	71				MACTEC Engineering & Consulti
0606374-06	As: ppm Arsenic 7060	F	71				MACTEC Engineering & Consulti
BPG0225-CCB6	QC		72				
BPG0225-CCV6	QC		73		6F28012		
0606374-07	Tl: ppm Thallium 7841	F	74				MACTEC Engineering & Consultin
0606374-08	Tl: ppm Thallium 7841	F	75				MACTEC Engineering & Consultin
0606374-09	Tl: ppm Thallium 7841	F	76				MACTEC Engineering & Consultin
0606374-10	Tl: ppm Thallium 7841	F	77				MACTEC Engineering & Consultin
0606374-11	Tl: ppm Thallium 7841	F	78				MACTEC Engineering & Consultin
0606374-12	Tl: ppm Thallium 7841	F	79				MACTEC Engineering & Consultin

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0225

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BF62320-BSD2	QC		53				
BF62320-SRM2	QC		54				
BF62320-DUP3	QC		55				
BF62320-MS3	QC		56				
BF62320-PS3	QC		57				
BF62320-DUP4	QC		58				
BF62320-MS4	QC		59				
BPG0225-CCB5	QC		60				
BPG0225-CCV5	QC		61		6F28012		
BF62320-PS4	QC		62				
0606373-20	Tl: ppm Thallium 7841	F	63				MACTEC Engineering & Consulting, In
0606373-21	Tl: ppm Thallium 7841	F	64				MACTEC Engineering & Consulting, In
0606374-01	As: ppm Arsenic 7060	F	65				MACTEC Engineering & Consulting, In
0606374-01	Tl: ppm Thallium 7841	F	65				MACTEC Engineering & Consulting, In
0606374-02	Tl: ppm Thallium 7841	F	66				MACTEC Engineering & Consulting, In
0606374-02	As: ppm Arsenic 7060	F	66				MACTEC Engineering & Consulting, In
0606374-03	As: ppm Arsenic 7060	F	67				MACTEC Engineering & Consulting, In
0606374-03	Tl: ppm Thallium 7841	F	67				MACTEC Engineering & Consulting, In
0606374-03RE1	As: ppm Arsenic 7060	F	68				MACTEC Engineering & Consulting, In
0606374-04	As: ppm Arsenic 7060	F	69				MACTEC Engineering & Consulting, In
0606374-04	Tl: ppm Thallium 7841	F	69				MACTEC Engineering & Consulting, In
0606374-05	As: ppm Arsenic 7060	F	70				MACTEC Engineering & Consulting, In
0606374-05	Tl: ppm Thallium 7841	F	70				MACTEC Engineering & Consulting, In
0606374-06	Tl: ppm Thallium 7841	F	71				MACTEC Engineering & Consulting, In
0606374-06	As: ppm Arsenic 7060	F	71				MACTEC Engineering & Consulting, In
BPG0225-CCB6	QC		72				
BPG0225-CCV6	QC		73		6F28012		
0606374-07	Tl: ppm Thallium 7841	F	74				MACTEC Engineering & Consulting, In
0606374-08	Tl: ppm Thallium 7841	F	75				MACTEC Engineering & Consulting, In
0606374-09	Tl: ppm Thallium 7841	F	76				MACTEC Engineering & Consulting, In
0606374-10	Tl: ppm Thallium 7841	F	77				MACTEC Engineering & Consulting, In
0606374-11	Tl: ppm Thallium 7841	F	78				MACTEC Engineering & Consulting, In
0606374-12	Tl: ppm Thallium 7841	F	79				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0225

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606374-13	Tl: ppm Thallium 7841	F	80				MACTEC Engineering & Consulting, In
0606374-14	Tl: ppm Thallium 7841	F	81				MACTEC Engineering & Consulting, In
0606374-15	Tl: ppm Thallium 7841	F	82				MACTEC Engineering & Consulting, In
0606374-16	Tl: ppm Thallium 7841	F	83				MACTEC Engineering & Consulting, In
BPG0225-CCB7	QC		84				
BPG0225-CCV7	QC		85		6F28012		
BPG0225-SRD3	QC		86				
BPG0225-SRD4	QC		87				
BF62617-BLK2	QC		88				
BF62617-BS2	QC		89				
BF62617-BSD2	QC		90				
BF62617-SRM2	QC		91				
BF62617-PS3	QC		92				
BF62617-DUP3	QC		93				
BF62617-MS3	QC		94				
BF62617-DUP4	QC		95				
BPG0225-CCB8	QC		96				
BPG0225-CCV8	QC		97		6F28012		
BF62617-MS4	QC		98				
BF62617-PS4	QC		99				
0606383-14	Tl: ppm Thallium 7841	E	100				MACTEC Engineering & Consulting, In
0606383-13	Tl: ppm Thallium 7841	E	101				MACTEC Engineering & Consulting, In
0606383-12	Tl: ppm Thallium 7841	E	102				MACTEC Engineering & Consulting, In
0606383-11	Tl: ppm Thallium 7841	E	103				MACTEC Engineering & Consulting, In
0606383-10	Tl: ppm Thallium 7841	G	104				MACTEC Engineering & Consulting, In
0606383-09	Tl: ppm Thallium 7841	E	105				MACTEC Engineering & Consulting, In
0606383-08	Tl: ppm Thallium 7841	E	106				MACTEC Engineering & Consulting, In
0606383-07	Tl: ppm Thallium 7841	G	107				MACTEC Engineering & Consulting, In
BPG0225-CCB9	QC		108				
BPG0225-CCV9	QC		109		6F28012		
0606383-06	Tl: ppm Thallium 7841	E	110				MACTEC Engineering & Consulting, In
0606383-05	Tl: ppm Thallium 7841	G	111				MACTEC Engineering & Consulting, In
0606383-04	Tl: ppm Thallium 7841	E	112				MACTEC Engineering & Consulting, In

Samples Loaded By Date Data Processed By Date

ANALYSIS SEQUENCE

BPG0225

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606383-03	Tl: ppm Thallium 7841	G	113				MACTEC Engineering & Consulting, In
0606383-02	Tl: ppm Thallium 7841	E	114				MACTEC Engineering & Consulting, In
0606383-01	Tl: ppm Thallium 7841	G	115				MACTEC Engineering & Consulting, In
BPG0225-SRD5	QC		116				
BPG0225-SRD6	QC		117				
BPG0225-CCBA	QC		118				
BPG0225-CCVA	QC		119		6F28012		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GFAA Data Review Check List

SIF Method: Pb Tl2 Tl5 As Sb **Run Date:** 6/28/06

Project Number(s): 063416-05d, 06d, ~~375~~, 361, 373, 374, 360, 383, 405, 428, 430, 429

Batch Number (s): 062806HA

SOP NO. 30_2009

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the cal curve consist of four Calibration Standards including a blank and is its correlation within QC limits (≥0.995)?	X		
2. Is the low calibration standard at the reporting limit?	X		
3. If the low standard is above the reporting limit, is a CRI analyzed at the beginning of the run? Does the recovery meet QC limits(80-120%)?			X
4. Is the midpoint calibration standard reanalyzed immediately after the curve and is it within QC limits of 90-110% (± 5% for 200.9)?	X		
5. Is the ICV from a second source and is its recovery within QC limits (90-110%)	X		
6. Is the mid-point calibration standard re-analyzed every 10 samples and at the end of the run and are its recoveries within QC limits (90-110%)?		X	
7. Is the CCB analyzed at beginning, after every 10 samples and at end of the run and are its recoveries within QC limits (<2xMDL)?	X		
8. Are the method blank recoveries within QC limits?		X	
9. Are the LCS and ERA recoveries within QC limits (LCS: 80-120% for 7000, 85-115% for 200.9, ERA see COA)?	X		
10. Are matrix dups run at desired frequency (1 per 10 samples or per analytical batch) and are RPD's within QC limits (<20%)?	X		
11. Are matrix spikes run at desired frequency frequency (1 per 10 samples or per analytical batch) and are recoveries within QC limits (80-120%)?	X		
12. Are all samples with concentrations > the highest calibration standard diluted and reanalyzed?	X		
13. Has the serial dilution been analyzed at the required frequency (once per analytical batch) and are results within criterion (± 10%RPD)?	X		
14. Is the batch post digestion spike within QC limits (85-115%)?	X		
15. Are all sample hold times met?	X		
16. Are all non-conformances included and noted?	X		
17. Is the correct methodology used for sample prep and analysis?	X		
18. Are all calculations checked?	X		
19. Did analyst sign/date appropriate printouts and report sheets?	X		
20. Are all samples located in the correct auto-sampler locations?	X		

Comments on any "No" response:

Pb - Blank hits redigest all smps w/ hits

RLa329-03d0

Tl2 - OK, Tl5 - CCVs out high - smps ND

As - 063374-03 X15

Sb - OK

Analyst: [signature] Date: 6/30/06 2nd Rvw: [signature] Date: 6/30/06

Control Number: 30.0022-0602A Page _____

0023

Autosampler Loading List

Sample Information File: 062806YA.SIF
Methods: Pb 2 Λ Tl 5 As 5 Sb 5 ~~Tl 2~~ SD 6/29/06
Tl2

Location	Elements	Solution
1	Pb	Sample: BF62206-DUP2
2	Pb	Sample: 0606346-05DIS
3	Pb	Sample: 0606346-06DIS
4	Pb	Sample: BF62301-BLK1
5	Pb	Sample: BF62301-BS2
6	Pb	Sample: BF62301-BSD2
7	Pb	Sample: BF62302-BLK1
8	Pb	Sample: BF62302-DUP1
9	Pb	Sample: 0606375-01
10	Pb	Sample: BF62403-BLK1
11	Pb	Sample: BF62403-BS2
12	Pb	Sample: BF62403-BSD2
13	Pb	Sample: 0606407-01
14	Pb	Sample: 0606407-02
15	Pb	Sample: BF62403-DUP1
16	Pb	Sample: BF62403-MS3
17	Pb	Sample: BF62403-SD1
18	Pb	Sample: 0606407-03
19	Pb	Sample: 0606407-01DIS
20	Pb	Sample: 0606407-02DIS
21	Pb	Sample: 0606407-03DIS
22	Pb	Sample: 0606382-01
23	Tl,As	Sample: BF62317-BLK1
24	Tl,As	Sample: BF62317-BS1X20
25	Tl,As	Sample: BF62317-BSD1X20
26	Tl,As	Sample: BF62317-SRM1X50
27	Tl,As	Sample: 0606361-01X5
28	As, Tl	Sample: 0606361-02X5
29	Tl,As	Sample: 0606373-01X5
30	Tl,As	Sample: 0606373-02X5
31	Tl,As	Sample: 0606373-03X5
32	Tl,As	Sample: 0606373-04X5
33	Tl,As	Sample: 0606373-05X5
34	Tl,As	Sample: 0606373-06X5
35	Tl,As	Sample: 0606373-07X5
36	Tl,As	Sample: 0606373-08X5
37	Tl,As	Sample: BF62317-DUP1X5
38	Tl,As	Sample: BF62317-MS1X20
39	Tl,As	Sample: BF62317-SD1X25
40	Tl,As	Sample: 0606373-09X5
41	Tl,As	Sample: 0606373-10X5
42	Tl,As	Sample: 0606373-19X5
43	Tl,As	Sample: 0606373-12X5
44	Tl,As	Sample: 0606373-13X5
45	Tl,As	Sample: 0606373-14X5
46	Tl,As	Sample: 0606373-15X5
47	Tl,As	Sample: 0606373-16X5
48	Tl,As	Sample: 0606373-17X5
49	Tl,As	Sample: 0606373-18X5
50	Tl,As	Sample: BF62317-DUP2X5
51	Tl,As	Sample: BF62317-MS2X20
52	Tl,As	Sample: BF62317-SD2X25
53	Tl,As	Sample: BF62320-BLK1
54	Tl,As	Sample: BF62320-BS1X20
55	Tl,As	Sample: BF62320-BSD1X20
56	Tl,As	Sample: BF62320-SRM1X50
57	Tl,As	Sample: 0606374-01X5
58	Tl,As	Sample: 0606374-02X5
59	Tl,As	Sample: 0606374-03X5
60	Tl,As	Sample: 0606374-04X5
61	Tl,As	Sample: 0606374-05X5

As taken from loc 35-61 SD 6/30/06

62	Tl,As	Sample: 0606374-06X5
63	Tl,As	Sample: 0606374-07X5
64	Tl,As	Sample: 0606374-08X5
65	Tl,As	Sample: 0606374-09X5
66	Tl,As	Sample: 0606374-10X5
67	Tl,As	Sample: BF62320-DUP1X5
68	Tl,As	Sample: BF62320-MS1X20
69	Tl,As	Sample: BF62320-SD1X25
70	Tl,As	Sample: 0606374-11X5
71	Tl,As	Sample: 0606374-12X5
72	Tl,As	Sample: 0606374-13X5
73	Tl,As	Sample: 0606374-14X5
74	Tl,As	Sample: BF62320-DUP2X5
75	Tl,As	Sample: BF62320-MS2X20
76	Tl,As	Sample: BF62320-SD2X25
77	Tl,As	Sample: 0606374-15X5
78	Tl,As	Sample: 0606374-16X5
79	Tl,As	Sample: 0606373-20X5
80	Tl,As	Sample: 0606373-21X5
81	Tl,As	Sample: BF62713-BLK1
82	Tl,As	Sample: BF62713-BS1X20
83	Tl,As	Sample: BF62713-BSD1X20
84	Tl,As	Sample: BF62713-SRM1X50
85	Tl,As	Sample: 0606360-01X5
86	Tl,As	Sample: BF62617-BLK1
87	Tl,As	Sample: BF62617-BS1X20
88	Tl,As	Sample: BF62617-BSD1X20
89	Tl,As	Sample: BF62617-SRM1X50
90	Tl,As	Sample: 0606383-01X5
91	Tl,As	Sample: 0606383-02X5
92	Tl,As	Sample: 0606383-03X5
93	Tl,As	Sample: 0606383-04X5
94	Tl,As	Sample: 0606383-05X5
95	Tl,As	Sample: 0606383-06X5
96	Tl,As	Sample: 0606383-07X5
97	Tl,As	Sample: 0606383-08X5
98	Tl,As	Sample: 0606383-09X5
99	Tl,As	Sample: 0606383-10X5
100	Tl,As	Sample: 0606383-11X5
101	Tl,As	Sample: BF62617-DUP1X5
102	Tl,As	Sample: BF62617-MS1X20
103	Tl,As	Sample: BF62617-SD1X25
104	Tl,As	Sample: 0606383-12X5
105	Tl,As	Sample: 0606383-13X5
106	Tl,As	Sample: BF62617-DUP2X5
107	Tl,As	Sample: BF62617-MS2X20
108	Tl,As	Sample: BF62617-SD2X25
109	Tl,As	Sample: 0606383-14X5
110	Tl,As	Sample: 0606405-01X5
111	Tl,As	Sample: 0606405-02X5
112	Tl,As	Sample: 0606405-03X5
113	Tl,As	Sample: 0606405-04X5
114	Pb,As,Sb,Tl	Sample: BF62705-BLK1
115	Pb,As,Sb,Tl	Sample: BF62705-BS2
116	Pb,As,Sb,Tl	Sample: BF62705-BSD2
117	Pb,As	Sample: 0606428-01
118	Pb,As,Sb,Tl	Sample: 0606430-01
119	Pb,As,Sb,Tl	Sample: 0606430-02
120	Pb,As,Sb,Tl	Sample: BF62705-BLK2
121	Pb,Tl,As,Sb	Stock Standard: 5.0 µg/L
122	Pb,As,Sb,Tl	Sample: 0606429-01DIS
123	Pb,As,Sb,Tl	Sample: 0606429-02DIS
124	Pb,Tl,As,Sb	Stock Standard: 10.0 µg/L
	Tl	STD 3: 10.0000 µg/L
	Tl	CCV: 10.0000 µg/L
125	Pb,As,Sb,Tl	Sample: 0606429-03DIS
126	Pb,Tl,As,Sb	Stock Standard: 25.0 µg/L

	Pb,Tl,As,Sb	STD 3: 25.0000 µg/L
	Pb,Tl,As,Sb	CCV: 25.0000 µg/L
127	Pb,As,Sb,Tl	Sample: 0606429-04DIS
128	Pb,As,Sb,Tl	Sample: 0606429-05DIS
129	Pb,Tl,As,Sb	Stock Standard: 50.0 µg/L
130	Pb,As,Sb,Tl	Sample: 0606430-01DIS
131	Pb,Tl,As,Sb	Recovery Stock: 50.0 µg/L
132	Pb,As,Sb,Tl	Sample: 0606430-02DIS
133	Pb,As,Sb,Tl	Sample: BF62705-DUP2
134	Pb,Tl,As,Sb	ICV: 25.0000 µg/L
135	Pb,As,Sb,Tl	Sample: BF62705-MS4
136	Pb,Tl,As,Sb	CRA 2: 2.0000 µg/L
	Tl	Stock Standard: 2.0 µg/L
137	Pb,As,Sb,Tl	Sample: BF62705-SD2X5
139	Tl	ICV: 10.0000 µg/L
141	Pb	Standard 0
	Pb	ICB/CCB: 0.0000 µg/L
	Pb	Diluent
146	Pb	Modifier 2
147	Tl,As,Sb	Modifier 1
148	Tl,As,Sb	Standard 0
	Tl,As,Sb	ICB/CCB: 0.0000 µg/L
	Tl,As,Sb	Diluent

Method Name: Tl 5
Method Description: Tl 5
Element: Tl

Date: 06/29/2006
Technique:Furnace
Calibration Type:
Tl, Calc. Intercept : Linear
Wavelength: 276.8 nm
Energy: 100
Slit Width: 0.7
Lamp Current: 6 mA
Sample Info Name: 062806YA.SIF Results Data Set Name: 062806YAD

Element: Tl Seq. No.: 90 AS Loc.: 148 Date: 06/29/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Pea Sto
1			0.0011	0.0011	0.0034	-0.0008	0.0031	12:44:30	N
2			0.0012	0.0012	0.0051	-0.0009	0.0055	12:47:19	N
Mean:			0.0011						
SD :			0.0001						
%RSD:			5.64						

Auto-zero performed.

Element: Tl Seq. No.: 91 AS Loc.: 121 Date: 06/29/2006
Sample ID: Standard 5
µL dispensed: 10 from 148, 5 from 147, 15 from 121

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peal Sto
1			0.0077	0.0089	0.0129	0.0036	0.0078	12:50:34	N
2			0.0077	0.0088	0.0133	0.0056	0.0102	12:53:25	N
Mean:			0.0077						
SD :			0.0001						
%RSD:			0.76						

[Tl] Standard number 1 applied. [5.0]
Correlation Coefficient: 1.00000 Slope: 0.00154
Intercept : 0.00000

Element: Tl Seq. No.: 92 AS Loc.: 124 Date: 06/29/2006
Sample ID: Standard 10
µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1			0.0165	0.0176	0.0230	0.0113	0.0146	12:56:42	No
2			0.0169	0.0180	0.0222	0.0104	0.0138	12:59:33	No
Mean:			0.0167						
SD :			0.0003						
%RSD:			1.70						

[Tl] Standard number 2 applied. [10.0]
Correlation Coefficient: 0.99908 Slope: 0.00167
Intercept : -0.00021

Element: Tl Seq. No.: 93 AS Loc.: 126 Date: 06/29/2006
Sample ID: Standard 25
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Bkgnd	Bkgnd	Time	Peak

#	µg/L	µg/L	Signal	Area	Height	Area	Height		Stored
1			0.0413	0.0424	0.0645	0.0271	0.0411	01:02:52	No
2			0.0438	0.0449	0.0581	0.0267	0.0356	01:05:44	No
Mean:			0.0426						
SD :			0.0018						
%RSD:			4.19						

[Tl] Standard number 3 applied. [25.0]
Correlation Coefficient: 0.99981 Slope: 0.00171
Intercept : -0.00041

Element: Tl Seq. No.: 94 AS Loc.: 129 Date: 06/29/2006
Sample ID: Standard 50
µL dispensed: 10 from 148, 5 from 147, 15 from 129

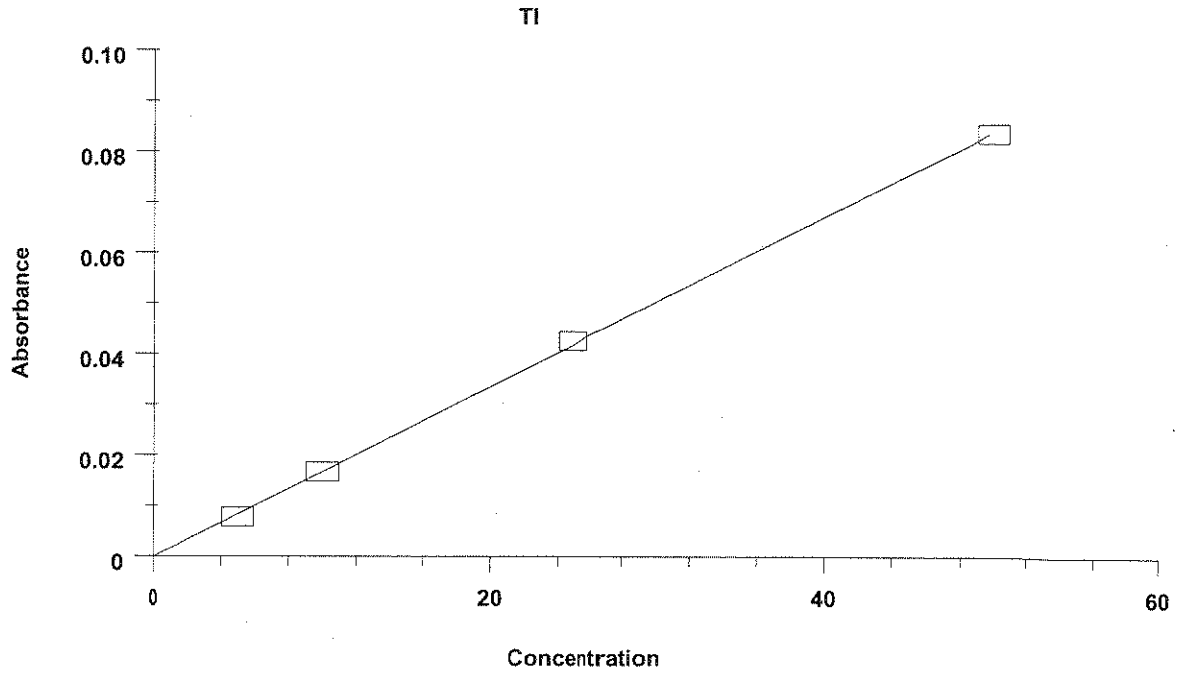
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0836	0.0847	0.1067	0.0514	0.0659	01:09:01	No
2			0.0837	0.0848	0.1211	0.0525	0.0747	01:11:51	No
Mean:			0.0836						
SD :			0.0000						
%RSD:			0.05						

[Tl] Standard number 4 applied. [50.0]
Correlation Coefficient: 0.99991 Slope: 0.00168
Intercept : -0.00015

Calibration data for Tl

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0011	-	----	----	----
Standard 5	0.0077	5.0	4.7	0.00	0.76
Standard 10	0.0167	10.0	10.0	0.00	1.70
Standard 25	0.0426	25.0	25.4	0.00	4.19
Standard 50	0.0836	50.0	49.8	0.00	0.05

Correlation Coefficient: 0.99991 Slope: 0.00168 Intercept: -0.0002



Element: Tl Seq. No.: 95 AS Loc.: 126 Date: 06/29/2006
Sample ID: STD 3
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.9	25.9	0.0435	0.0446	0.0690	0.0256	0.0435	01:14:50	No
2	24.8	24.8	0.0416	0.0427	0.0601	0.0257	0.0364	01:17:43	No
Mean:	25.4	25.4	0.0425						
SD :	0.78	0.78	0.0013						
%RSD:	3.06	3.06	3.07						

QC value within specified limits.

Element: Tl Seq. No.: 96 AS Loc.: 134 Date: 06/29/2006
Sample ID: ICV
µL dispensed: 10 from 148, 5 from 147, 15 from 134

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.2	25.2	0.0422	0.0433	0.0482	0.0246	0.0293	01:20:33	No
2	25.3	25.3	0.0424	0.0435	0.0498	0.0263	0.0307	01:23:23	No
Mean:	25.2	25.2	0.0423						
SD :	0.09	0.09	0.0001						
%RSD:	0.34	0.34	0.34						

QC value within specified limits.

Element: Tl Seq. No.: 97 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0006	0.0005	0.0037	-0.0001	0.0031	01:26:13	No
2	-0.2	-0.2	-0.0005	0.0006	0.0043	-0.0010	0.0049	01:29:02	No
Mean:	-0.3	-0.3	-0.0006						
SD :	0.06	0.06	0.0001						
%RSD:	22.19	22.19	16.29						

QC value within specified limits.

Element: Tl Seq. No.: 98 AS Loc.: 23 Date: 06/29/2006
Sample ID: BF62317-BLK1
µL dispensed: 10 from 148, 5 from 147, 15 from 23

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0005	0.0007	0.0042	-0.0005	0.0047	01:31:52	No
2	-0.8	-0.8	-0.0015	-0.0004	0.0050	-0.0006	0.0052	01:34:42	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.43	0.43	0.0007						
%RSD:	88.56	88.56	74.70						

Element: Tl Seq. No.: 99 AS Loc.: 24 Date: 06/29/2006
Sample ID: BF62317-BS1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 24

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.3	25.3	0.0424	0.0435	0.0547	0.0276	0.0352	01:37:32	No
2	26.6	26.6	0.0445	0.0456	0.0556	0.0256	0.0344	01:40:23	No
Mean:	25.9	25.9	0.0434						
SD :	0.91	0.91	0.0015						
%RSD:	3.49	3.49	3.50						

144

Element: Tl Seq. No.: 100 AS Loc.: 25 Date: 06/29/2006
Sample ID: BF62317-BSD1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 25

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.3	25.3	0.0424	0.0435	0.0560	0.0271	0.0325	01:43:14	No
2	26.2	26.2	0.0439	0.0450	0.0573	0.0254	0.0333	01:46:04	No
Mean:	25.8	25.8	0.0431						
SD :	0.63	0.63	0.0011						
%RSD:	2.44	2.44	2.45						

103%

Element: Tl Seq. No.: 101 AS Loc.: 26 Date: 06/29/2006
Sample ID: BF62317-SRM1X50
µL dispensed: 10 from 148, 5 from 147, 15 from 26

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	15.5	15.5	0.0259	0.0270	0.0380	0.0169	0.0234	01:48:54	No
2	16.1	16.1	0.0269	0.0280	0.0390	0.0155	0.0243	01:51:43	No
Mean:	15.8	15.8	0.0264						
SD :	0.41	0.41	0.0007						
%RSD:	2.61	2.61	2.62						

$\frac{15.8(50)/100}{1} / 1000 = 79$

Element: Tl Seq. No.: 102 AS Loc.: 27 Date: 06/29/2006
Sample ID: 0606361-01X5
µL dispensed: 10 from 148, 5 from 147, 15 from 27

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0013	-0.0002	0.0036	-0.0001	0.0046	01:54:32	No
2	0.6	0.6	0.0008	0.0019	0.0045	-0.0011	0.0038	01:57:21	No
Mean:	0.0	0.0	-0.0002						
SD :	0.88	0.88	0.0015						
%RSD:	1842	1842	636.70						

ND

Element: Tl Seq. No.: 103 AS Loc.: 28 Date: 06/29/2006
Sample ID: 0606361-02X5
µL dispensed: 10 from 148, 5 from 147, 15 from 28

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0003	0.0014	0.0043	0.0002	0.0058	02:00:10	No
2	-0.1	-0.1	-0.0003	0.0008	0.0041	0.0008	0.0060	02:03:00	No
Mean:	0.1	0.1	0.0000						
SD :	0.25	0.25	0.0004						
%RSD:	332.5	332.5	1463.93						

ND

Element: Tl Seq. No.: 104 AS Loc.: 29 Date: 06/29/2006
Sample ID: 0606373-01X5
µL dispensed: 10 from 148, 5 from 147, 15 from 29

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0004	0.0008	0.0044	0.0006	0.0047	02:05:49	No
2	-1.0	-1.0	-0.0019	-0.0007	0.0040	0.0009	0.0038	02:08:38	No
Mean:	-0.6	-0.6	-0.0011						
SD :	0.64	0.64	0.0011						
%RSD:	112.3	112.3	96.86						

ND

Element: Tl Seq. No.: 105 AS Loc.: 30 Date: 06/29/2006
Sample ID: 0606373-02X5
µL dispensed: 10 from 148, 5 from 147, 145 from 30

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0009	0.0002	0.0035	-0.0003	0.0047	02:11:27	No
2	-0.8	-0.8	-0.0015	-0.0004	0.0035	0.0000	0.0044	02:14:17	No
Mean:	-0.6	-0.6	-0.0012						
SD :	0.25	0.25	0.0004						
%RSD:	40.32	40.32	35.21						

Element: Tl Seq. No.: 106 AS Loc.: 31 Date: 06/29/2006
Sample ID: 0606373-03X5
µL dispensed: 10 from 148, 5 from 147, 15 from 31

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0009	0.0003	0.0034	0.0018	0.0053	02:17:06	No
2	-1.3	-1.3	-0.0023	-0.0012	0.0055	0.0005	0.0040	02:19:55	No
Mean:	-0.9	-0.9	-0.0016						
SD :	0.61	0.61	0.0010						
%RSD:	71.17	71.17	64.32						

Element: Tl Seq. No.: 107 AS Loc.: 32 Date: 06/29/2006
Sample ID: 0606373-04X5
µL dispensed: 10 from 148, 5 from 147, 15 from 32

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0011	0.0000	0.0032	0.0020	0.0042	02:22:45	No
2	-1.0	-1.0	-0.0019	-0.0007	0.0035	0.0012	0.0047	02:25:35	No
Mean:	-0.8	-0.8	-0.0015						
SD :	0.31	0.31	0.0005						
%RSD:	38.21	38.21	34.33						

Element: Tl Seq. No.: 108 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.5	25.5	0.0427	0.0438	0.0649	0.0271	0.0410	02:28:27	No
2	26.2	26.2	0.0440	0.0451	0.0578	0.0267	0.0383	02:31:19	No
Mean:	25.9	25.9	0.0433						
SD :	0.53	0.53	0.0009						
%RSD:	2.05	2.05	2.06						

QC value within specified limits.

Element: Tl Seq. No.: 109 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0002	0.0013	0.0043	-0.0003	0.0043	02:34:09	No
2	-0.5	-0.5	-0.0010	0.0002	0.0044	-0.0008	0.0050	02:36:59	No
Mean:	-0.1	-0.1	-0.0004						
SD :	0.48	0.48	0.0008						
%RSD:	321.3	321.3	199.35						

QC value within specified limits.

Element: Tl Seq. No.: 110 AS Loc.: 33 Date: 06/29/2006
Sample ID: 0606373-05X5
µL dispensed: 10 from 148, 5 from 147, 146 from 33

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0000	0.0011	0.0042	0.0000	0.0057	02:39:48	No
2	-0.5	-0.5	-0.0010	0.0002	0.0020	0.0008	0.0025	02:42:38	No
Mean:	-0.2	-0.2	-0.0005						
SD :	0.39	0.39	0.0007						
%RSD:	186.3	186.3	130.35						

Element: Tl Seq. No.: 111 AS Loc.: 34 Date: 06/29/2006
Sample ID: 0606373-06X5
µL dispensed: 10 from 148, 5 from 147, 15 from 34

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0000	0.0012	0.0026	-0.0004	0.0023	02:45:28	No
2	0.0	0.0	-0.0001	0.0010	0.0035	-0.0011	0.0042	02:48:19	No
Mean:	0.1	0.1	-0.0001						
SD :	0.08	0.08	0.0001						
%RSD:	125.1	125.1	256.25						

Element: Tl Seq. No.: 112 AS Loc.: 35 Date: 06/29/2006
Sample ID: 0606373-07X5
µL dispensed: 10 from 148, 5 from 147, 15 from 35

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0000	0.0011	0.0060	0.0023	0.0067	02:51:09	No
2	1.1	1.1	0.0017	0.0028	0.0057	-0.0013	0.0050	02:53:59	No
Mean:	0.6	0.6	0.0008						
SD :	0.73	0.73	0.0012						
%RSD:	126.4	126.4	149.83						

Element: Tl Seq. No.: 113 AS Loc.: 36 Date: 06/29/2006
Sample ID: 0606373-08X5
µL dispensed: 10 from 148, 5 from 147, 15 from 36

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0003	0.0009	0.0045	0.0002	0.0053	02:56:49	No
2	0.1	0.1	0.0001	0.0012	0.0031	0.0004	0.0035	02:59:40	No
Mean:	0.0	0.0	-0.0001						
SD :	0.15	0.15	0.0002						
%RSD:	326.0	326.0	321.16						

Element: Tl Seq. No.: 114 AS Loc.: 36 Date: 06/29/2006
Sample ID: 0606373-08X5
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 36

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.8	20.8	0.0348	0.0360	0.0591	0.0220	0.0368	03:02:38	No
2	20.3	20.3	0.0340	0.0351	0.0583	0.0260	0.0348	03:05:36	No
Mean:	20.6	20.6	0.0344						
SD :	0.36	0.36	0.0006						
%RSD:	1.74	1.74	1.75						

Recovery for Tl = 102.8 % within 85 % to 115 %

Element: Tl Seq. No.: 115 AS Loc.: 37 Date: 06/29/2006
Sample ID: BF62317-DUP1X5
µL dispensed: 10 from 148, 5 from 147, 15 from 37

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0004	0.0016	0.0043	0.0018	0.0044	03:08:26	No
2	-0.5	-0.5	-0.0009	0.0002	0.0043	0.0001	0.0034	03:11:17	No
Mean:	-0.1	-0.1	-0.0002						
SD :	0.57	0.57	0.0010						
%RSD:	1134	1134	404.10						

ND

Element: Tl Seq. No.: 116 AS Loc.: 38 Date: 06/29/2006
Sample ID: BF62317-MS1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 38

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.5	23.5	0.0394	0.0405	0.0587	0.0249	0.0368	03:14:07	No
2	23.3	23.3	0.0390	0.0401	0.0593	0.0270	0.0404	03:16:57	No
Mean:	23.4	23.4	0.0392						
SD :	0.18	0.18	0.0003						
%RSD:	0.78	0.78	0.78						

94%

Element: Tl Seq. No.: 117 AS Loc.: 39 Date: 06/29/2006
Sample ID: BF62317-SD1X25
µL dispensed: 10 from 148, 5 from 147, 15 from 39

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	-0.0001	0.0010	0.0043	-0.0005	0.0039	03:19:47	No
2	0.0	0.0	-0.0002	0.0009	0.0050	-0.0009	0.0042	03:22:38	No
Mean:	0.0	0.0	-0.0001						
SD :	0.04	0.04	0.0001						
%RSD:	753.4	753.4	42.65						

ND

Element: Tl Seq. No.: 118 AS Loc.: 40 Date: 06/29/2006
Sample ID: 0606373-09X5
µL dispensed: 10 from 148, 5 from 147, 15 from 40

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0005	0.0006	0.0046	0.0011	0.0045	03:25:28	No
2	-0.4	-0.4	-0.0008	0.0004	0.0050	0.0009	0.0044	03:28:18	No
Mean:	-0.3	-0.3	-0.0006						
SD :	0.10	0.10	0.0002						
%RSD:	35.80	35.80	27.28						

ND

Element: Tl Seq. No.: 119 AS Loc.: 41 Date: 06/29/2006
Sample ID: 0606373-10X5
µL dispensed: 10 from 148, 5 from 147, 15 from 41

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0004	0.0007	0.0042	-0.0006	0.0034	03:31:07	No
2	0.0	0.0	-0.0002	0.0009	0.0029	0.0000	0.0023	03:33:57	No
Mean:	-0.1	-0.1	-0.0003						
SD :	0.08	0.08	0.0001						
%RSD:	94.93	94.93	45.62						

ND

Element: Tl Seq. No.: 120 AS Loc.: 42 Date: 06/29/2006
Sample ID: 0606373-19X5
µL dispensed: 10 from 148, 5 from 147, 15 from 42

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored

148

1	-0.4	-0.4	-0.0008	0.0003	0.0033	0.0000	0.0051	03:36:47	No
2	-0.6	-0.6	-0.0012	0.0000	0.0035	-0.0004	0.0047	03:39:36	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.15	0.15	0.0003						
%RSD:	31.03	31.03	26.18						

Element: Tl Seq. No.: 121 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.2	25.2	0.0423	0.0434	0.0640	0.0274	0.0389	03:42:28	No
2	26.6	26.6	0.0446	0.0458	0.0685	0.0278	0.0419	03:45:20	No
Mean:	25.9	25.9	0.0434						
SD :	1.00	1.00	0.0017						
%RSD:	3.85	3.85	3.87						

QC value within specified limits.

Element: Tl Seq. No.: 122 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0008	0.0004	0.0046	0.0002	0.0040	03:48:11	No
2	-0.4	-0.4	-0.0008	0.0003	0.0037	0.0012	0.0040	03:51:00	No
Mean:	-0.4	-0.4	-0.0008						
SD :	0.02	0.02	0.0000						
%RSD:	5.05	5.05	4.07						

QC value within specified limits.

Element: Tl Seq. No.: 123 AS Loc.: 43 Date: 06/29/2006
Sample ID: 0606373-12X5
µL dispensed: 10 from 148, 5 from 147, 15 from 43

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0005	0.0016	0.0051	0.0014	0.0046	03:53:49	No
2	0.2	0.2	0.0002	0.0013	0.0036	-0.0005	0.0037	03:56:38	No
Mean:	0.3	0.3	0.0003						
SD :	0.13	0.13	0.0002						
%RSD:	42.89	42.89	62.15						

Element: Tl Seq. No.: 124 AS Loc.: 44 Date: 06/29/2006
Sample ID: 0606373-13X5
µL dispensed: 10 from 148, 5 from 147, 15 from 44

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0005	0.0007	0.0044	0.0006	0.0040	03:59:29	No
2	-0.4	-0.4	-0.0009	0.0002	0.0047	-0.0001	0.0050	04:02:20	No
Mean:	-0.3	-0.3	-0.0007						
SD :	0.18	0.18	0.0003						
%RSD:	58.67	58.67	45.50						

Element: Tl Seq. No.: 125 AS Loc.: 45 Date: 06/29/2006
Sample ID: 0606373-14X5
µL dispensed: 10 from 148, 5 from 147, 15 from 45

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored

1	0.3	0.3	0.0004	0.0015	0.0051	-0.0007	0.0044	04:05:10	No
2	-0.3	-0.3	-0.0007	0.0004	0.0033	0.0001	0.0046	04:08:01	No
Mean:	0.0	0.0	-0.0001						
SD :	0.47	0.47	0.0008						
%RSD:	16970	16970	527.95						

Element: Tl Seq. No.: 126 AS Loc.: 46 Date: 06/29/2006
Sample ID: 0606373-15X5
µL dispensed: 10 from 148, 5 from 147, 15 from 46

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0005	0.0006	0.0026	0.0001	0.0021	04:10:53	No
2	0.2	0.2	0.0001	0.0012	0.0027	-0.0006	0.0022	04:13:44	No
Mean:	0.0	0.0	-0.0002						
SD :	0.27	0.27	0.0004						
%RSD:	723.8	723.8	208.55						

Element: Tl Seq. No.: 127 AS Loc.: 47 Date: 06/29/2006
Sample ID: 0606373-16X5
µL dispensed: 10 from 148, 5 from 147, 15 from 47

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0007	0.0005	0.0042	0.0005	0.0041	04:16:34	No
2	-0.3	-0.3	-0.0007	0.0004	0.0042	-0.0012	0.0051	04:19:24	No
Mean:	-0.3	-0.3	-0.0007						
SD :	0.02	0.02	0.0000						
%RSD:	7.07	7.07	5.50						

Element: Tl Seq. No.: 128 AS Loc.: 48 Date: 06/29/2006
Sample ID: 0606373-17X5
µL dispensed: 10 from 148, 5 from 147, 15 from 48

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0007	0.0004	0.0022	0.0008	0.0022	04:22:15	No
2	-0.2	-0.2	-0.0006	0.0006	0.0027	-0.0004	0.0021	04:25:04	No
Mean:	-0.3	-0.3	-0.0006						
SD :	0.06	0.06	0.0001						
%RSD:	21.35	21.35	16.26						

Element: Tl Seq. No.: 129 AS Loc.: 49 Date: 06/29/2006
Sample ID: 0606373-18X5
µL dispensed: 10 from 148, 5 from 147, 15 from 49

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0008	0.0003	0.0027	0.0001	0.0025	04:27:53	No
2	0.0	0.0	-0.0002	0.0010	0.0028	0.0011	0.0024	04:30:43	No
Mean:	-0.2	-0.2	-0.0005						
SD :	0.26	0.26	0.0004						
%RSD:	132.5	132.5	90.58						

Element: Tl Seq. No.: 130 AS Loc.: 49 Date: 06/29/2006
Sample ID: 0606373-18X5
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 49

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.2	20.2	0.0337	0.0349	0.0691	0.0215	0.0428	04:33:42	No
2	19.2	19.2	0.0321	0.0332	0.0676	0.0210	0.0435	04:36:40	No

Mean:	19.7	19.7	0.0329
SD :	0.71	0.71	0.0012
%RSD:	3.59	3.59	3.61

Recovery for Tl = 98.3 % within 85 % to 115 %

Element: Tl Seq. No.: 131 AS Loc.: 50 Date: 06/29/2006
Sample ID: BF62317-DUP2X5
µL dispensed: 10 from 148, 5 from 147, 15 from 50

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0003	0.0009	0.0052	-0.0001	0.0052	04:39:32	No
2	0.2	0.2	0.0002	0.0013	0.0034	0.0006	0.0021	04:42:22	No
Mean:	0.1	0.1	0.0000						
SD :	0.18	0.18	0.0003						
%RSD:	275.7	275.7	738.76						

Element: Tl Seq. No.: 132 AS Loc.: 51 Date: 06/29/2006
Sample ID: BF62317-MS2X20
µL dispensed: 10 from 148, 5 from 147, 15 from 51

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.1	23.1	0.0386	0.0398	0.0712	0.0254	0.0447	04:45:13	No
2	23.8	23.8	0.0399	0.0410	0.0731	0.0249	0.0462	04:48:02	No
Mean:	23.4	23.4	0.0393						
SD :	0.53	0.53	0.0009						
%RSD:	2.28	2.28	2.29						

Element: Tl Seq. No.: 133 AS Loc.: 52 Date: 06/29/2006
Sample ID: BF62317-SD2X25
µL dispensed: 10 from 148, 5 from 147, 15 from 52

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0006	0.0017	0.0035	0.0000	0.0022	04:50:51	No
2	-0.4	-0.4	-0.0009	0.0003	0.0038	-0.0012	0.0042	04:53:42	No
Mean:	0.0	0.0	-0.0002						
SD :	0.60	0.60	0.0010						
%RSD:	17240	17240	639.89						

Element: Tl Seq. No.: 134 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.8	25.8	0.0433	0.0444	0.0681	0.0282	0.0407	04:56:33	No
2	25.9	25.9	0.0433	0.0444	0.0598	0.0276	0.0395	04:59:25	No
Mean:	25.8	25.8	0.0433						
SD :	0.01	0.01	0.0000						
%RSD:	0.04	0.04	0.04						

QC value within specified limits.

Element: Tl Seq. No.: 135 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0009	0.0020	0.0035	0.0001	0.0042	05:02:15	No
2	0.3	0.3	0.0003	0.0014	0.0058	-0.0005	0.0038	05:05:06	No

Mean:	0.4	0.4	0.0006
SD :	0.26	0.26	0.0004
%RSD:	58.06	58.06	72.88

QC value within specified limits.

Element: Tl Seq. No.: 136 AS Loc.: 53 Date: 06/29/2006
Sample ID: BF62320-BLK1
µL dispensed: 10 from 148, 5 from 147, 15 from 53

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0010	0.0001	0.0024	-0.0005	0.0024	05:07:59	No
2	-0.2	-0.2	-0.0005	0.0006	0.0026	0.0001	0.0023	05:10:49	No
Mean:	-0.4	-0.4	-0.0007						
SD :	0.22	0.22	0.0004						
%RSD:	61.75	61.75	49.09						

Element: Tl Seq. No.: 137 AS Loc.: 54 Date: 06/29/2006
Sample ID: BF62320-BS1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 54

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.0	25.0	0.0420	0.0431	0.0510	0.0258	0.0324	05:13:37	No
2	25.2	25.2	0.0422	0.0433	0.0563	0.0263	0.0355	05:16:26	No
Mean:	25.1	25.1	0.0421						
SD :	0.08	0.08	0.0001						
%RSD:	0.33	0.33	0.33						

100%

Element: Tl Seq. No.: 138 AS Loc.: 55 Date: 06/29/2006
Sample ID: BF62320-BSD1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 55

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.0	27.0	0.0452	0.0463	0.0565	0.0277	0.0337	05:19:14	No
2	26.9	26.9	0.0450	0.0462	0.0599	0.0279	0.0359	05:22:03	No
Mean:	26.9	26.9	0.0451						
SD :	0.05	0.05	0.0001						
%RSD:	0.19	0.19	0.19						

108%

Element: Tl Seq. No.: 139 AS Loc.: 56 Date: 06/29/2006
Sample ID: BF62320-SRM1X50
µL dispensed: 10 from 148, 5 from 147, 15 from 56

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	17.4	17.4	0.0290	0.0302	0.0466	0.0180	0.0270	05:24:51	No
2	18.0	18.0	0.0300	0.0312	0.0435	0.0183	0.0264	05:27:39	No
Mean:	17.7	17.7	0.0295						
SD :	0.41	0.41	0.0007						
%RSD:	2.34	2.34	2.35						

$\frac{17.7(50)/100}{1} / 1000 = 88.5$

Element: Tl Seq. No.: 140 AS Loc.: 57 Date: 06/29/2006
Sample ID: 0606374-01X5
µL dispensed: 10 from 148, 5 from 147, 15 from 57

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.1	3.1	0.0051	0.0062	0.0114	0.0040	0.0090	05:30:29	No
2	2.8	2.8	0.0046	0.0057	0.0128	0.0038	0.0094	05:33:19	No
Mean:	3.0	3.0	0.0048						

SD :	0.21	0.21	0.0003
%RSD:	6.94	6.94	7.16

Element: Tl Seq. No.: 141 AS Loc.: 58 Date: 06/29/2006
Sample ID: 0606374-02X5
µL dispensed: 10 from 148, 5 from 147, 15 from 58

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	0.0	0.0	-0.0002	0.0010	0.0048	0.0007	0.0032	05:36:11	No
2	-0.4	-0.4	-0.0009	0.0002	0.0049	0.0012	0.0051	05:39:01	No
Mean:	-0.2	-0.2	-0.0005						
SD :	0.31	0.31	0.0005						
%RSD:	138.0	138.0	97.92						

Element: Tl Seq. No.: 142 AS Loc.: 59 Date: 06/29/2006
Sample ID: 0606374-03X5
µL dispensed: 10 from 148, 5 from 147, 15 from 59

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	0.2	0.2	0.0001	0.0012	0.0044	-0.0005	0.0039	05:41:52	No
2	0.6	0.6	0.0009	0.0020	0.0042	0.0016	0.0068	05:44:41	No
Mean:	0.4	0.4	0.0005						
SD :	0.32	0.32	0.0005						
%RSD:	83.93	83.93	109.96						

Element: Tl Seq. No.: 143 AS Loc.: 60 Date: 06/29/2006
Sample ID: 0606374-04X5
µL dispensed: 10 from 148, 5 from 147, 15 from 60

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	-0.4	-0.4	-0.0008	0.0004	0.0023	0.0002	0.0023	05:47:30	No
2	-0.5	-0.5	-0.0010	0.0002	0.0027	0.0012	0.0024	05:50:20	No
Mean:	-0.4	-0.4	-0.0009						
SD :	0.09	0.09	0.0002						
%RSD:	21.43	21.43	17.66						

Element: Tl Seq. No.: 144 AS Loc.: 61 Date: 06/29/2006
Sample ID: 0606374-05X5
µL dispensed: 10 from 148, 5 from 147, 15 from 61

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	0.2	0.2	0.0001	0.0013	0.0048	-0.0019	0.0062	05:53:10	No
2	0.0	0.0	-0.0002	0.0010	0.0043	0.0014	0.0047	05:56:00	No
Mean:	0.1	0.1	0.0000						
SD :	0.13	0.13	0.0002						
%RSD:	147.1	147.1	3202.46						

Element: Tl Seq. No.: 145 AS Loc.: 62 Date: 06/29/2006
Sample ID: 0606374-06X5
µL dispensed: 10 from 148, 5 from 147, 15 from 62

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	-0.9	-0.9	-0.0016	-0.0005	0.0040	-0.0006	0.0040	05:58:50	No
2	-1.7	-1.7	-0.0029	-0.0018	0.0036	0.0013	0.0048	06:01:39	No
Mean:	-1.3	-1.3	-0.0023						
SD :	0.56	0.56	0.0009						
%RSD:	44.45	44.45	41.46						

Element: Tl Seq. No.: 146 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.7	26.7	0.0448	0.0459	0.0687	0.0277	0.0417	06:04:34	No
2	26.7	26.7	0.0447	0.0458	0.0631	0.0271	0.0377	06:07:26	No
Mean:	26.7	26.7	0.0447						
SD :	0.05	0.05	0.0001						
%RSD:	0.19	0.19	0.19						

QC value within specified limits.

Element: Tl Seq. No.: 147 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0006	0.0005	0.0043	0.0002	0.0057	06:10:16	No
2	-0.3	-0.3	-0.0007	0.0005	0.0040	0.0020	0.0053	06:13:06	No
Mean:	-0.3	-0.3	-0.0006						
SD :	0.01	0.01	0.0000						
%RSD:	3.59	3.59	2.73						

QC value within specified limits.

Element: Tl Seq. No.: 148 AS Loc.: 63 Date: 06/29/2006
Sample ID: 0606374-07X5
µL dispensed: 10 from 148, 5 from 147, 15 from 63

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0009	0.0020	0.0053	-0.0005	0.0062	06:15:54	No
2	-0.2	-0.2	-0.0005	0.0007	0.0037	0.0010	0.0040	06:18:45	No
Mean:	0.2	0.2	0.0002						
SD :	0.57	0.57	0.0010						
%RSD:	251.1	251.1	416.53						

Element: Tl Seq. No.: 149 AS Loc.: 64 Date: 06/29/2006
Sample ID: 0606374-08X5
µL dispensed: 10 from 148, 5 from 147, 15 from 64

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.9	-0.9	-0.0017	-0.0006	0.0038	0.0011	0.0055	06:21:35	No
2	-0.2	-0.2	-0.0005	0.0007	0.0041	0.0003	0.0041	06:24:25	No
Mean:	-0.6	-0.6	-0.0011						
SD :	0.53	0.53	0.0009						
%RSD:	95.40	95.40	81.98						

Element: Tl Seq. No.: 150 AS Loc.: 65 Date: 06/29/2006
Sample ID: 0606374-09X5
µL dispensed: 10 from 148, 5 from 147, 15 from 65

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0005	0.0007	0.0045	0.0017	0.0053	06:27:16	No
2	-0.2	-0.2	-0.0005	0.0007	0.0045	0.0011	0.0042	06:30:06	No
Mean:	-0.2	-0.2	-0.0005						
SD :	0.01	0.01	0.0000						
%RSD:	5.07	5.07	3.40						

Element: Tl Seq. No.: 151 AS Loc.: 66 Date: 06/29/2006

Sample ID: 0606374-10X5
µL dispensed: 10 from 148, 5 from 147, 15 from 66

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0004	0.0007	0.0025	-0.0003	0.0021	06:32:56	No
2	-0.7	-0.7	-0.0013	-0.0002	0.0038	-0.0005	0.0046	06:35:46	No
Mean:	-0.4	-0.4	-0.0009						
SD :	0.37	0.37	0.0006						
%RSD:	89.12	89.12	73.24						

Element: Tl Seq. No.: 152 AS Loc.: 66 Date: 06/29/2006
Sample ID: 0606374-10X5
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 66

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.9	20.9	0.0350	0.0362	0.0684	0.0250	0.0431	06:38:46	No
2	21.3	21.3	0.0357	0.0368	0.0669	0.0217	0.0404	06:41:46	No
Mean:	21.1	21.1	0.0353						
SD :	0.27	0.27	0.0005						
%RSD:	1.28	1.28	1.28						

Recovery for Tl = 105.6 % within 85 % to 115 %

Element: Tl Seq. No.: 153 AS Loc.: 67 Date: 06/29/2006
Sample ID: BF62320-DUP1X5
µL dispensed: 10 from 148, 5 from 147, 15 from 67

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0013	-0.0002	0.0052	0.0011	0.0057	06:44:36	No
2	0.9	0.9	0.0014	0.0025	0.0039	0.0010	0.0053	06:47:26	No
Mean:	0.1	0.1	0.0000						
SD :	1.16	1.16	0.0020						
%RSD:	1034	1034	5379.36						

Element: Tl Seq. No.: 154 AS Loc.: 68 Date: 06/29/2006
Sample ID: BF62320-MS1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 68

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.1	25.1	0.0421	0.0432	0.0671	0.0260	0.0410	06:50:19	No
2	24.2	24.2	0.0406	0.0417	0.0672	0.0274	0.0432	06:53:10	No
Mean:	24.7	24.7	0.0413						
SD :	0.64	0.64	0.0011						
%RSD:	2.60	2.60	2.61						

Element: Tl Seq. No.: 155 AS Loc.: 69 Date: 06/29/2006
Sample ID: BF62320-SD1X25
µL dispensed: 10 from 148, 5 from 147, 15 from 69

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	-0.0001	0.0010	0.0042	-0.0006	0.0048	06:56:01	No
2	0.3	0.3	0.0004	0.0015	0.0029	-0.0009	0.0036	06:58:52	No
Mean:	0.2	0.2	0.0001						
SD :	0.21	0.21	0.0003						
%RSD:	128.4	128.4	292.78						

Element: Tl Seq. No.: 156 AS Loc.: 70 Date: 06/29/2006
Sample ID: 0606374-11X5

µL dispensed: 10 from 148, 5 from 147, 15 from 70

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0009	0.0020	0.0048	0.0014	0.0030	07:01:44	No
2	1.2	1.2	0.0018	0.0030	0.0040	0.0002	0.0042	07:04:35	No
Mean:	0.9	0.9	0.0014						
SD :	0.40	0.40	0.0007						
%RSD:	44.09	44.09	49.05						

Element: Tl Seq. No.: 157 AS Loc.: 71 Date: 06/29/2006
Sample ID: 0606374-12X5
µL dispensed: 10 from 148, 5 from 147, 15 from 71

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0011	0.0000	0.0053	0.0002	0.0053	07:07:26	No
2	0.4	0.4	0.0004	0.0016	0.0036	-0.0013	0.0047	07:10:18	No
Mean:	-0.1	-0.1	-0.0003						
SD :	0.65	0.65	0.0011						
%RSD:	637.6	637.6	336.26						

Element: Tl Seq. No.: 158 AS Loc.: 72 Date: 06/29/2006
Sample ID: 0606374-13X5
µL dispensed: 10 from 148, 5 from 147, 15 from 72

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0003	0.0009	0.0043	-0.0002	0.0043	07:13:09	No
2	-0.9	-0.9	-0.0016	-0.0005	0.0036	0.0011	0.0054	07:16:00	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.58	0.58	0.0010						
%RSD:	121.1	121.1	101.70						

Element: Tl Seq. No.: 159 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.6	26.6	0.0446	0.0457	0.0695	0.0284	0.0420	07:18:53	No
2	26.3	26.3	0.0441	0.0453	0.0652	0.0262	0.0391	07:21:45	No
Mean:	26.5	26.5	0.0444						
SD :	0.19	0.19	0.0003						
%RSD:	0.73	0.73	0.73						

QC value within specified limits.

Element: Tl Seq. No.: 160 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0006	0.0005	0.0040	0.0016	0.0048	07:24:36	No
2	-0.4	-0.4	-0.0008	0.0003	0.0037	0.0022	0.0051	07:27:25	No
Mean:	-0.3	-0.3	-0.0007						
SD :	0.10	0.10	0.0002						
%RSD:	28.78	28.78	22.61						

QC value within specified limits.

Element: Tl Seq. No.: 161 AS Loc.: 73 Date: 06/29/2006
Sample ID: 0606374-14X5

µL dispensed: 10 from 148, 5 from 147, 15 from 73

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	-0.2	-0.2	-0.0005	0.0006	0.0056	-0.0002	0.0049	07:30:15	No
2	-0.4	-0.4	-0.0009	0.0002	0.0032	0.0005	0.0055	07:33:05	No
Mean:	-0.3	-0.3	-0.0007						
SD :	0.17	0.17	0.0003						
%RSD:	53.65	53.65	41.63						

Element: Tl Seq. No.: 162 AS Loc.: 73 Date: 06/29/2006
Sample ID: 0606374-14X5
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 73

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	19.4	19.4	0.0324	0.0335	0.0615	0.0198	0.0372	07:36:04	No
2	19.5	19.5	0.0326	0.0337	0.0620	0.0219	0.0402	07:39:01	No
Mean:	19.4	19.4	0.0325						
SD :	0.07	0.07	0.0001						
%RSD:	0.35	0.35	0.35						

Recovery for Tl = 97.1 % within 85 % to 115 %

Element: Tl Seq. No.: 163 AS Loc.: 74 Date: 06/29/2006
Sample ID: BF62320-DUP2X5
µL dispensed: 10 from 148, 5 from 147, 15 from 74

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	0.1	0.1	-0.0001	0.0011	0.0035	0.0004	0.0043	07:41:51	No
2	-0.4	-0.4	-0.0009	0.0003	0.0050	0.0005	0.0051	07:44:41	No
Mean:	-0.2	-0.2	-0.0005						
SD :	0.34	0.34	0.0006						
%RSD:	185.1	185.1	123.49						

Element: Tl Seq. No.: 164 AS Loc.: 75 Date: 06/29/2006
Sample ID: BF62320-MS2X20
µL dispensed: 10 from 148, 5 from 147, 15 from 75

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	23.8	23.8	0.0398	0.0409	0.0532	0.0251	0.0349	07:47:30	No
2	23.9	23.9	0.0400	0.0411	0.0599	0.0241	0.0355	07:50:20	No
Mean:	23.8	23.8	0.0399						
SD :	0.09	0.09	0.0002						
%RSD:	0.38	0.38	0.39						

Element: Tl Seq. No.: 165 AS Loc.: 76 Date: 06/29/2006
Sample ID: BF62320-SD2X25
µL dispensed: 10 from 148, 5 from 147, 15 from 76

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	-0.1	-0.1	-0.0003	0.0008	0.0049	0.0000	0.0048	07:53:09	No
2	-0.5	-0.5	-0.0010	0.0001	0.0032	0.0008	0.0051	07:55:58	No
Mean:	-0.3	-0.3	-0.0006						
SD :	0.28	0.28	0.0005						
%RSD:	96.67	96.67	73.74						

Element: Tl Seq. No.: 166 AS Loc.: 77 Date: 06/29/2006
Sample ID: 0606374-15X5
µL dispensed: 10 from 148, 5 from 147, 15 from 77

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-1.2	-1.2	-0.0022	-0.0010	0.0045	0.0008	0.0053	07:58:47	No
2	0.5	0.5	0.0007	0.0018	0.0048	0.0012	0.0052	08:01:37	No
Mean:	-0.4	-0.4	-0.0007						
SD :	1.19	1.19	0.0020						
%RSD:	339.7	339.7	269.80						

Element: Tl Seq. No.: 167 AS Loc.: 78 Date: 06/29/2006
Sample ID: 0606374-16X5
µL dispensed: 10 from 148, 5 from 147, 15 from 78

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0013	-0.0001	0.0049	0.0025	0.0063	08:04:27	No
2	-0.2	-0.2	-0.0005	0.0007	0.0047	-0.0010	0.0044	08:07:16	No
Mean:	-0.4	-0.4	-0.0009						
SD :	0.33	0.33	0.0006						
%RSD:	77.38	77.38	63.84						

Element: Tl Seq. No.: 168 AS Loc.: 79 Date: 06/29/2006
Sample ID: 0606373-20X5
µL dispensed: 10 from 148, 5 from 147, 15 from 79

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0006	0.0005	0.0045	0.0012	0.0043	08:10:06	No
2	0.0	0.0	-0.0001	0.0010	0.0037	0.0019	0.0048	08:12:55	No
Mean:	-0.1	-0.1	-0.0004						
SD :	0.21	0.21	0.0004						
%RSD:	163.3	163.3	95.98						

Element: Tl Seq. No.: 169 AS Loc.: 80 Date: 06/29/2006
Sample ID: 0606373-21X5
µL dispensed: 10 from 148, 5 from 147, 15 from 80

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0004	0.0007	0.0045	0.0013	0.0044	08:15:44	No
2	0.1	0.1	0.0001	0.0012	0.0037	0.0011	0.0044	08:18:33	No
Mean:	0.0	0.0	-0.0002						
SD :	0.19	0.19	0.0003						
%RSD:	84610	84610	212.80						

Element: Tl Seq. No.: 170 AS Loc.: 81 Date: 06/29/2006
Sample ID: BF62713-BLK1
µL dispensed: 10 from 148, 5 from 147, 15 from 81

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0012	-0.0001	0.0047	-0.0011	0.0040	08:21:23	No
2	-0.4	-0.4	-0.0008	0.0004	0.0049	-0.0004	0.0038	08:24:12	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.18	0.18	0.0003						
%RSD:	37.46	37.46	31.58						

Element: Tl Seq. No.: 171 AS Loc.: 82 Date: 06/29/2006
Sample ID: BF62713-BS1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 82

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Bkgnd	Bkgnd	Time	Peak

#	µg/L	µg/L	Signal	Area	Height	Area	Height		Stored
1	26.8	26.8	0.0448	0.0460	0.0499	0.0269	0.0304	08:27:01	No
2	26.4	26.4	0.0442	0.0453	0.0577	0.0286	0.0348	08:29:50	No
Mean:	26.6	26.6	0.0445						
SD :	0.27	0.27	0.0005						
%RSD:	1.01	1.01	1.01						

106%

Element: Tl Seq. No.: 172 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.9	26.9	0.0450	0.0462	0.0683	0.0277	0.0407	08:32:41	No
2	26.6	26.6	0.0445	0.0456	0.0675	0.0268	0.0407	08:35:34	No
Mean:	26.7	26.7	0.0448						
SD :	0.22	0.22	0.0004						
%RSD:	0.83	0.83	0.83						

QC value within specified limits.

Element: Tl Seq. No.: 173 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0012	0.0000	0.0053	-0.0003	0.0045	08:38:24	No
2	-0.5	-0.5	-0.0011	0.0001	0.0041	-0.0006	0.0030	08:41:13	No
Mean:	-0.6	-0.6	-0.0011						
SD :	0.04	0.04	0.0001						
%RSD:	6.30	6.30	5.43						

QC value within specified limits.

Element: Tl Seq. No.: 174 AS Loc.: 83 Date: 06/29/2006
Sample ID: BF62713-BSD1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 83

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.6	25.6	0.0429	0.0440	0.0517	0.0264	0.0309	08:44:03	No
2	26.1	26.1	0.0438	0.0449	0.0562	0.0271	0.0368	08:46:52	No
Mean:	25.9	25.9	0.0433						
SD :	0.38	0.38	0.0006						
%RSD:	1.46	1.46	1.47						

104%

Element: Tl Seq. No.: 175 AS Loc.: 84 Date: 06/29/2006
Sample ID: BF62713-SRM1X50
µL dispensed: 10 from 148, 5 from 147, 15 from 84

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	17.6	17.6	0.0295	0.0306	0.0448	0.0191	0.0278	08:49:41	No
2	17.7	17.7	0.0297	0.0308	0.0462	0.0200	0.0291	08:52:30	No
Mean:	17.7	17.7	0.0296						
SD :	0.07	0.07	0.0001						
%RSD:	0.38	0.38	0.38						

$\frac{17.7(50)(100)}{1000} = 88.5$

Element: Tl Seq. No.: 176 AS Loc.: 85 Date: 06/29/2006
Sample ID: 0606360-01X5
µL dispensed: 10 from 148, 5 from 147, 15 from 85

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Bkgnd	Bkgnd	Time	Peak

#	µg/L	µg/L	Signal	Area	Height	Area	Height		Stored
1	-0.3	-0.3	-0.0006	0.0005	0.0040	0.0018	0.0044	08:55:20	No
2	-0.4	-0.4	-0.0009	0.0002	0.0049	0.0003	0.0060	08:58:09	No
Mean:	-0.4	-0.4	-0.0008						
SD :	0.10	0.10	0.0002						
%RSD:	27.87	27.87	22.31						

µD

Element: Tl Seq. No.: 177 AS Loc.: 86 Date: 06/29/2006
Sample ID: BF62617-BLK1
µL dispensed: 10 from 148, 5 from 147, 15 from 86

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0009	0.0002	0.0031	0.0010	0.0042	09:00:58	No
2	0.2	0.2	0.0003	0.0014	0.0042	0.0003	0.0044	09:03:47	No
Mean:	-0.1	-0.1	-0.0003						
SD :	0.50	0.50	0.0008						
%RSD:	454.4	454.4	249.11						

µD

Element: Tl Seq. No.: 178 AS Loc.: 87 Date: 06/29/2006
Sample ID: BF62617-BS1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 87

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.0	26.0	0.0436	0.0447	0.0537	0.0258	0.0325	09:06:36	No
2	26.0	26.0	0.0435	0.0446	0.0513	0.0268	0.0307	09:09:26	No
Mean:	26.0	26.0	0.0436						
SD :	0.04	0.04	0.0001						
%RSD:	0.17	0.17	0.17						

1045

Element: Tl Seq. No.: 179 AS Loc.: 88 Date: 06/29/2006
Sample ID: BF62617-BSD1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 88

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.7	25.7	0.0430	0.0441	0.0522	0.0288	0.0336	09:12:14	No
2	26.4	26.4	0.0442	0.0453	0.0588	0.0279	0.0348	09:15:02	No
Mean:	26.0	26.0	0.0436						
SD :	0.50	0.50	0.0008						
%RSD:	1.91	1.91	1.91						

1045

Element: Tl Seq. No.: 180 AS Loc.: 89 Date: 06/29/2006
Sample ID: BF62617-SRM1X50
µL dispensed: 10 from 148, 5 from 147, 15 from 89

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	18.3	18.3	0.0306	0.0317	0.0429	0.0181	0.0253	09:17:50	No
2	18.8	18.8	0.0314	0.0326	0.0460	0.0187	0.0267	09:20:39	No
Mean:	18.5	18.5	0.0310						
SD :	0.36	0.36	0.0006						
%RSD:	1.96	1.96	1.97						

$\frac{18.5(50)(100)}{1000} = 92.5$

Element: Tl Seq. No.: 181 AS Loc.: 90 Date: 06/29/2006
Sample ID: 0606383-01X5
µL dispensed: 10 from 148, 5 from 147, 15 from 90

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0003	0.0008	0.0031	0.0015	0.0030	09:23:27	No

160

2	-0.3	-0.3	-0.0007	0.0004	0.0044	0.0011	0.0040	09:26:18	No
Mean:	-0.2	-0.2	-0.0005						
SD :	0.17	0.17	0.0003						
%RSD:	80.26	80.26	56.40						

Element: Tl Seq. No.: 182 AS Loc.: 91 Date: 06/29/2006
Sample ID: 0606383-02X5
µL dispensed: 10 from 148, 5 from 147, 15 from 91

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0013	-0.0002	0.0037	0.0005	0.0046	09:29:07	No
2	-0.6	-0.6	-0.0012	-0.0001	0.0033	0.0013	0.0038	09:31:56	No
Mean:	-0.7	-0.7	-0.0013						
SD :	0.05	0.05	0.0001						
%RSD:	8.24	8.24	7.25						

Element: Tl Seq. No.: 183 AS Loc.: 92 Date: 06/29/2006
Sample ID: 0606383-03X5
µL dispensed: 10 from 148, 5 from 147, 15 from 92

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	0.0007	0.0018	0.0051	0.0007	0.0043	09:34:44	No
2	-0.4	-0.4	-0.0008	0.0003	0.0037	0.0005	0.0021	09:37:34	No
Mean:	0.1	0.1	-0.0001						
SD :	0.64	0.64	0.0011						
%RSD:	1057	1057	2073.29						

Element: Tl Seq. No.: 184 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.7	27.7	0.0464	0.0476	0.0702	0.0286	0.0430	09:40:25	No
2	27.3	27.3	0.0457	0.0468	0.0701	0.0292	0.0425	09:43:19	No
Mean:	27.5	27.5	0.0461						
SD :	0.31	0.31	0.0005						
%RSD:	1.11	1.11	1.11						

QC value within specified limits.

Element: Tl Seq. No.: 185 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0010	0.0002	0.0034	0.0009	0.0060	09:46:09	No
2	0.3	0.3	0.0004	0.0015	0.0027	-0.0004	0.0025	09:48:58	No
Mean:	-0.1	-0.1	-0.0003						
SD :	0.57	0.57	0.0010						
%RSD:	710.5	710.5	333.92						

QC value within specified limits.

Element: Tl Seq. No.: 186 AS Loc.: 93 Date: 06/29/2006
Sample ID: 0606383-04X5
µL dispensed: 10 from 148, 5 from 147, 15 from 93

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0013	-0.0002	0.0035	0.0020	0.0049	09:51:46	No

2	-0.3	-0.3	-0.0007	0.0005	0.0065	0.0018	0.0054	09:54:35	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.27	0.27	0.0005						
%RSD:	54.19	54.19	45.88						

Element: Tl Seq. No.: 187 AS Loc.: 94 Date: 06/29/2006
Sample ID: 0606383-05X5
µL dispensed: 10 from 148, 5 from 147, 15 from 94

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.0	1.0	0.0015	0.0026	0.0059	0.0008	0.0041	09:57:23	No
2	0.7	0.7	0.0011	0.0022	0.0086	0.0010	0.0054	10:00:12	No
Mean:	0.9	0.9	0.0013						
SD :	0.19	0.19	0.0003						
%RSD:	22.17	22.17	24.80						

Element: Tl Seq. No.: 188 AS Loc.: 95 Date: 06/29/2006
Sample ID: 0606383-06X5
µL dispensed: 10 from 148, 5 from 147, 15 from 95

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0005	0.0006	0.0038	0.0018	0.0038	10:03:01	No
2	-0.7	-0.7	-0.0013	-0.0001	0.0048	0.0015	0.0053	10:05:51	No
Mean:	-0.4	-0.4	-0.0009						
SD :	0.33	0.33	0.0005						
%RSD:	76.76	76.76	63.24						

Element: Tl Seq. No.: 189 AS Loc.: 96 Date: 06/29/2006
Sample ID: 0606383-07X5
µL dispensed: 10 from 148, 5 from 147, 15 from 96

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.5	2.5	0.0040	0.0051	0.0117	0.0021	0.0065	10:08:40	No
2	2.8	2.8	0.0045	0.0056	0.0137	0.0031	0.0074	10:11:30	No
Mean:	2.6	2.6	0.0042						
SD :	0.22	0.22	0.0004						
%RSD:	8.28	8.28	8.58						

Element: Tl Seq. No.: 190 AS Loc.: 97 Date: 06/29/2006
Sample ID: 0606383-08X5
µL dispensed: 10 from 148, 5 from 147, 15 from 97

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.5	5.5	0.0091	0.0103	0.0175	0.0069	0.0118	10:14:19	No
2	4.9	4.9	0.0081	0.0092	0.0204	0.0070	0.0125	10:17:09	No
Mean:	5.2	5.2	0.0086						
SD :	0.44	0.44	0.0007						
%RSD:	8.52	8.52	8.67						

Element: Tl Seq. No.: 191 AS Loc.: 98 Date: 06/29/2006
Sample ID: 0606383-09X5
µL dispensed: 10 from 148, 5 from 147, 15 from 98

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.8	-0.8	-0.0016	-0.0004	0.0046	0.0011	0.0063	10:19:59	No
2	-0.3	-0.3	-0.0007	0.0004	0.0036	0.0014	0.0053	10:22:48	No
Mean:	-0.6	-0.6	-0.0011						

SD :	0.37	0.37	0.0006
%RSD:	63.21	63.21	54.69

Element: Tl Seq. No.: 192 AS Loc.: 99 Date: 06/29/2006
Sample ID: 0606383-10X5
µL dispensed: 10 from 148, 5 from 147, 15 from 99

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	0.0006	0.0017	0.0040	0.0015	0.0053	10:25:39	No
2	0.3	0.3	0.0004	0.0016	0.0038	0.0020	0.0033	10:28:28	No
Mean:	0.4	0.4	0.0005						
SD :	0.07	0.07	0.0001						
%RSD:	18.20	18.20	23.54						

Element: Tl Seq. No.: 193 AS Loc.: 100 Date: 06/29/2006
Sample ID: 0606383-11X5
µL dispensed: 10 from 148, 5 from 147, 15 from 100

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0010	0.0002	0.0027	0.0024	0.0027	10:31:18	No
2	-0.3	-0.3	-0.0007	0.0004	0.0036	0.0011	0.0047	10:34:07	No
Mean:	-0.4	-0.4	-0.0008						
SD :	0.10	0.10	0.0002						
%RSD:	23.45	23.45	19.19						

Element: Tl Seq. No.: 194 AS Loc.: 100 Date: 06/29/2006
Sample ID: 0606383-11X5
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 100

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	22.6	22.6	0.0379	0.0390	0.0671	0.0230	0.0436	10:37:06	No
2	20.8	20.8	0.0348	0.0360	0.0639	0.0214	0.0399	10:40:05	No
Mean:	21.7	21.7	0.0364						
SD :	1.28	1.28	0.0021						
%RSD:	5.88	5.88	5.90						

Recovery for Tl = 108.6 % within 85 % to 115 %

Element: Tl Seq. No.: 195 AS Loc.: 101 Date: 06/29/2006
Sample ID: BF62617-DUP1X5
µL dispensed: 10 from 148, 5 from 147, 15 from 101

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0008	0.0003	0.0026	0.0012	0.0022	10:42:56	No
2	0.0	0.0	-0.0002	0.0009	0.0049	0.0018	0.0048	10:45:46	No
Mean:	-0.2	-0.2	-0.0005						
SD :	0.26	0.26	0.0004						
%RSD:	114.3	114.3	81.23						

Element: Tl Seq. No.: 196 AS Loc.: 102 Date: 06/29/2006
Sample ID: BF62617-MS1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 102

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.8	24.8	0.0416	0.0427	0.0672	0.0282	0.0396	10:48:36	No
2	25.7	25.7	0.0430	0.0442	0.0707	0.0287	0.0463	10:51:26	No
Mean:	25.3	25.3	0.0423						
SD :	0.62	0.62	0.0010						

%RSD: 2.46 2.46 2.47

Element: Tl Seq. No.: 197 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	28.6	28.6	0.0479	0.0491	0.0789	0.0325	0.0497	10:54:21	No
2	27.6	27.6	0.0462	0.0474	0.0761	0.0303	0.0462	10:57:14	No
Mean:	28.1	28.1	0.0471						
SD :	0.72	0.72	0.0012						
%RSD:	2.55	2.55	2.56						

QC failed, value greater than upper limit for Tl.

Element: Tl Seq. No.: 198 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	29.6	29.6	0.0496	0.0507	0.0800	0.0308	0.0464	11:00:06	No
2	27.8	27.8	0.0466	0.0477	0.0714	0.0293	0.0441	11:02:58	No
Mean:	28.7	28.7	0.0481						
SD :	1.24	1.24	0.0021						
%RSD:	4.31	4.31	4.33						

QC failed, value greater than upper limit for Tl.
Current analysis method being continued.

Element: Tl Seq. No.: 199 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0001	0.0012	0.0044	0.0001	0.0043	11:05:49	No
2	0.0	0.0	-0.0002	0.0009	0.0023	0.0005	0.0023	11:08:38	No
Mean:	0.1	0.1	-0.0001						
SD :	0.15	0.15	0.0002						
%RSD:	266.4	266.4	422.81						

QC value within specified limits.

Element: Tl Seq. No.: 200 AS Loc.: 103 Date: 06/29/2006
Sample ID: BF62617-SD1X25
µL dispensed: 10 from 148, 5 from 147, 15 from 103

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0013	-0.0001	0.0042	0.0001	0.0058	11:11:28	No
2	-0.3	-0.3	-0.0007	0.0005	0.0037	0.0022	0.0050	11:14:19	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.25	0.25	0.0004						
%RSD:	51.86	51.86	43.58						

Element: Tl Seq. No.: 201 AS Loc.: 104 Date: 06/29/2006
Sample ID: 0606383-12X5
µL dispensed: 10 from 148, 5 from 147, 15 from 104

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	-0.0001	0.0010	0.0044	0.0015	0.0047	11:17:11	No
2	-0.4	-0.4	-0.0009	0.0003	0.0039	0.0015	0.0051	11:20:02	No

Mean:	-0.2	-0.2	-0.0005
SD :	0.31	0.31	0.0005
%RSD:	149.0	149.0	103.70

M

Element: Tl Seq. No.: 202 AS Loc.: 105 Date: 06/29/2006
Sample ID: 0606383-13X5
µL dispensed: 10 from 148, 5 from 147, 15 from 105

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0003	0.0009	0.0065	0.0019	0.0065	11:22:54	No
2	-0.9	-0.9	-0.0017	-0.0006	0.0041	0.0027	0.0045	11:25:46	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.61	0.61	0.0010						
%RSD:	121.0	121.0	102.58						

M

Element: Tl Seq. No.: 203 AS Loc.: 105 Date: 06/29/2006
Sample ID: 0606383-13X5
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 105

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	22.3	22.3	0.0374	0.0385	0.0689	0.0248	0.0453	11:28:46	No
2	22.3	22.3	0.0374	0.0385	0.0709	0.0237	0.0446	11:31:45	No
Mean:	22.3	22.3	0.0374						
SD :	0.02	0.02	0.0000						
%RSD:	0.10	0.10	0.11						

Recovery for Tl = 111.6 % within 85 % to 115 %

✓

Element: Tl Seq. No.: 204 AS Loc.: 106 Date: 06/29/2006
Sample ID: BF62617-DUP2X5
µL dispensed: 10 from 148, 5 from 147, 15 from 106

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0011	0.0000	0.0027	0.0016	0.0031	11:34:37	No
2	-1.1	-1.1	-0.0019	-0.0008	0.0019	0.0012	0.0023	11:37:29	No
Mean:	-0.8	-0.8	-0.0015						
SD :	0.35	0.35	0.0006						
%RSD:	43.97	43.97	39.51						

M

Element: Tl Seq. No.: 205 AS Loc.: 107 Date: 06/29/2006
Sample ID: BF62617-MS2X20
µL dispensed: 10 from 148, 5 from 147, 15 from 107

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.5	23.5	0.0393	0.0404	0.0646	0.0251	0.0380	11:40:22	No
2	23.4	23.4	0.0393	0.0404	0.0676	0.0274	0.0420	11:43:13	No
Mean:	23.4	23.4	0.0393						
SD :	0.01	0.01	0.0000						
%RSD:	0.04	0.04	0.04						

94%

Element: Tl Seq. No.: 206 AS Loc.: 108 Date: 06/29/2006
Sample ID: BF62617-SD2X25
µL dispensed: 10 from 148, 5 from 147, 15 from 108

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.8	-0.8	-0.0015	-0.0003	0.0057	0.0010	0.0051	11:46:03	No
2	-1.1	-1.1	-0.0021	-0.0009	0.0043	0.0019	0.0044	11:48:53	No
Mean:	-1.0	-1.0	-0.0018						

165

M

SD :	0.25	0.25	0.0004
%RSD:	26.43	26.43	24.13

Element: Tl Seq. No.: 207 AS Loc.: 109 Date: 06/29/2006
Sample ID: 0606383-14X5
µL dispensed: 10 from 148, 5 from 147, 15 from 109

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	-0.0001	0.0010	0.0049	0.0010	0.0052	11:51:45	No
2	0.8	0.8	0.0011	0.0023	0.0048	0.0024	0.0053	11:54:35	No
Mean:	0.4	0.4	0.0005						
SD :	0.51	0.51	0.0009						
%RSD:	127.7	127.7	165.17						

Element: Tl Seq. No.: 208 AS Loc.: 110 Date: 06/29/2006
Sample ID: 0606405-01X5
µL dispensed: 10 from 148, 5 from 147, 15 from 110

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.3	0.3	0.0004	0.0015	0.0036	0.0000	0.0032	11:57:26	No
2	0.4	0.4	0.0005	0.0016	0.0043	-0.0014	0.0052	12:00:16	No
Mean:	0.3	0.3	0.0004						
SD :	0.05	0.05	0.0001						
%RSD:	13.18	13.18	17.93						

Element: Tl Seq. No.: 209 AS Loc.: 111 Date: 06/29/2006
Sample ID: 0606405-02X5
µL dispensed: 10 from 148, 5 from 147, 15 from 111

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0008	0.0020	0.0042	0.0005	0.0046	12:03:06	No
2	-0.2	-0.2	-0.0004	0.0007	0.0026	-0.0002	0.0027	12:05:57	No
Mean:	0.2	0.2	0.0002						
SD :	0.53	0.53	0.0009						
%RSD:	256.7	256.7	458.01						

Element: Tl Seq. No.: 210 AS Loc.: 112 Date: 06/29/2006
Sample ID: 0606405-03X5
µL dispensed: 10 from 148, 5 from 147, 15 from 112

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0002	0.0013	0.0045	0.0004	0.0029	12:08:47	No
2	-0.6	-0.6	-0.0011	0.0000	0.0040	0.0010	0.0044	12:11:37	No
Mean:	-0.2	-0.2	-0.0004						
SD :	0.55	0.55	0.0009						
%RSD:	323.2	323.2	210.69						

Element: Tl Seq. No.: 211 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	28.5	28.5	0.0478	0.0489	0.0674	0.0290	0.0432	12:14:28	No
2	28.6	28.6	0.0479	0.0490	0.0756	0.0297	0.0457	12:17:20	No
Mean:	28.5	28.5	0.0478						
SD :	0.03	0.03	0.0000						
%RSD:	0.09	0.09	0.09						

QC failed, value greater than upper limit for Tl.

Element: Tl Seq. No.: 212 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	27.5	27.5	0.0461	0.0472	0.0706	0.0292	0.0420	12:20:15	No
2	28.3	28.3	0.0474	0.0485	0.0687	0.0285	0.0413	12:23:09	No
Mean:	27.9	27.9	0.0467						
SD :	0.57	0.57	0.0010						
%RSD:	2.03	2.03	2.04						

112.1

QC failed, value greater than upper limit for Tl.
Current analysis method being continued.

Element: Tl Seq. No.: 213 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	-0.6	-0.6	-0.0011	0.0000	0.0042	0.0006	0.0048	12:25:59	No
2	-0.4	-0.4	-0.0008	0.0003	0.0046	-0.0001	0.0053	12:28:48	No
Mean:	-0.5	-0.5	-0.0009						
SD :	0.12	0.12	0.0002						
%RSD:	25.00	25.00	20.96						

QC value within specified limits.

Element: Tl Seq. No.: 214 AS Loc.: 113 Date: 06/29/2006
Sample ID: 0606405-04X5
µL dispensed: 10 from 148, 5 from 147, 15 from 113

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	0.1	0.1	0.0000	0.0012	0.0042	0.0004	0.0037	12:31:38	No
2	-0.2	-0.2	-0.0005	0.0006	0.0032	0.0028	0.0053	12:34:29	No
Mean:	-0.1	-0.1	-0.0002						
SD :	0.23	0.23	0.0004						
%RSD:	433.7	433.7	158.13						

Element: Tl Seq. No.: 215 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	28.3	28.3	0.0474	0.0485	0.0711	0.0298	0.0427	12:37:20	No
2	28.9	28.9	0.0484	0.0495	0.0698	0.0291	0.0438	12:40:12	No
Mean:	28.6	28.6	0.0479						
SD :	0.43	0.43	0.0007						
%RSD:	1.49	1.49	1.50						

114.1

QC failed, value greater than upper limit for Tl.

Element: Tl Seq. No.: 216 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	29.3	29.3	0.0491	0.0502	0.0712	0.0296	0.0422	12:43:05	No
2	27.6	27.6	0.0462	0.0473	0.0677	0.0289	0.0417	12:45:58	No

Mean:	28.4	28.4	0.0476
SD :	1.24	1.24	0.0021
%RSD:	4.35	4.35	4.37

114 /

QC failed, value greater than upper limit for Tl.
Current analysis method being continued.

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Element: Tl Seq. No.: 217 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0006	0.0005	0.0053	0.0003	0.0058	12:48:50	No
2	-0.8	-0.8	-0.0014	-0.0003	0.0024	0.0012	0.0023	12:51:39	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.34	0.34	0.0006						
%RSD:	63.24	63.24	53.99						

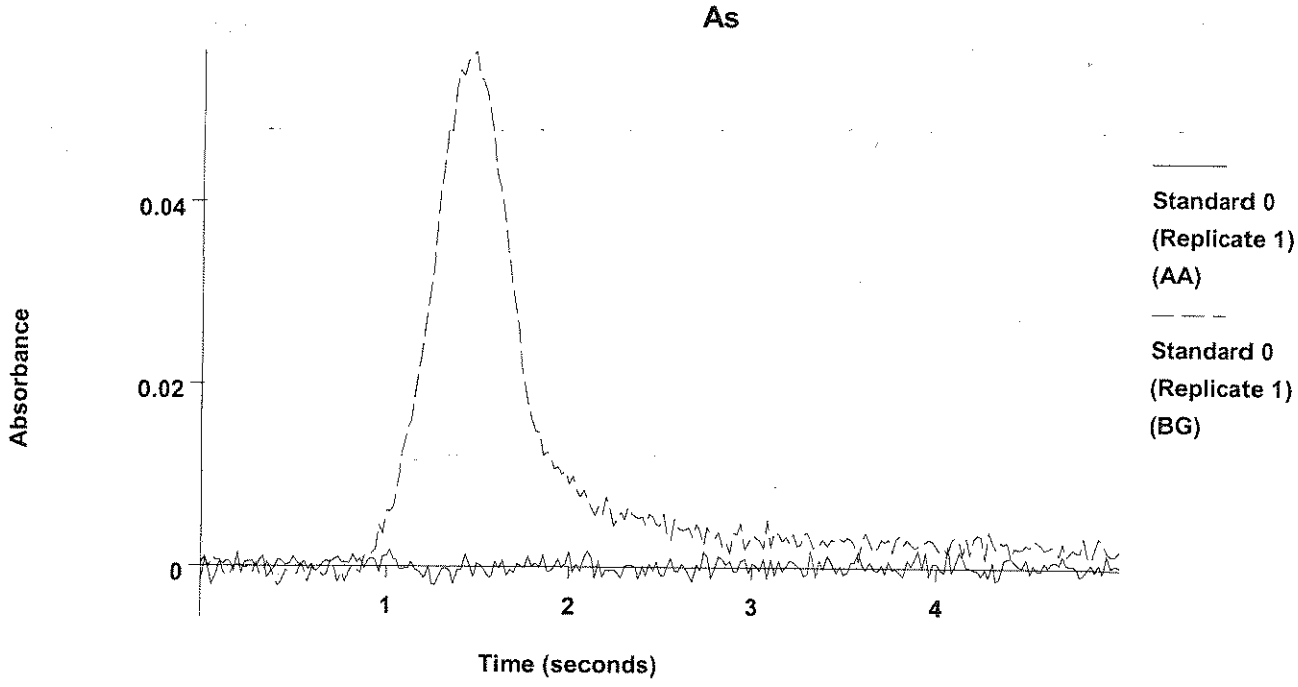
QC value within specified limits.

Method Name: As 5
Method Description: As
Element: As

Date: 06/29/2006
Technique:Furnace
Calibration Type:
As, Calc. Intercept : Linear
Wavelength: 193.7 nm
Energy: 100
Slit Width: 0.7
Lamp Current: 350mA
Sample Info Name: 062806YA.SIF Results Data Set Name: 062806YAD

Element: As Seq. No.: 218 AS Loc.: 148 Date: 06/29/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0006	0.0006	0.0025	0.0394	0.0565	12:56:36	Yes

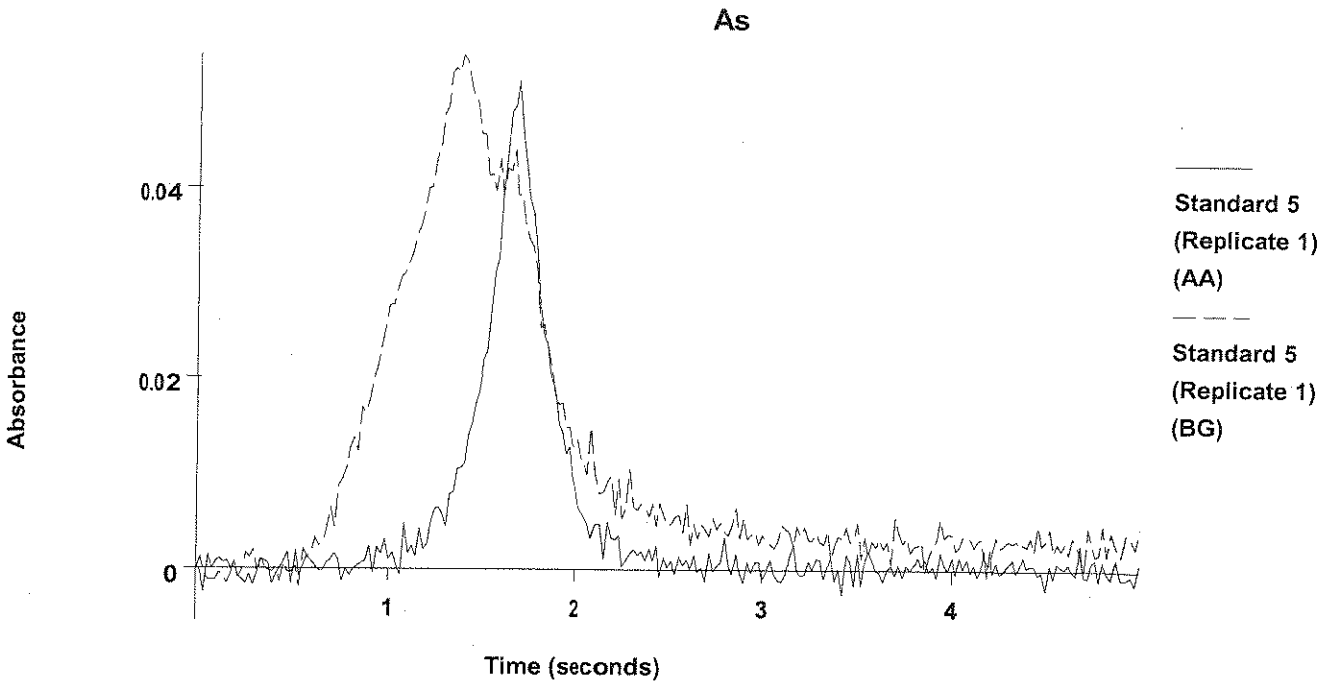


2			0.0005	0.0005	0.0020	0.0428	0.0595	12:59:25	Yes
Mean:			0.0006						
SD :			0.0000						
%RSD:			6.28						

Auto-zero performed.

Element: As Seq. No.: 219 AS Loc.: 121 Date: 06/29/2006
Sample ID: Standard 5
µL dispensed: 10 from 148, 5 from 147, 15 from 121

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0200	0.0206	0.0512	0.0534	0.0539	01:02:40	Yes

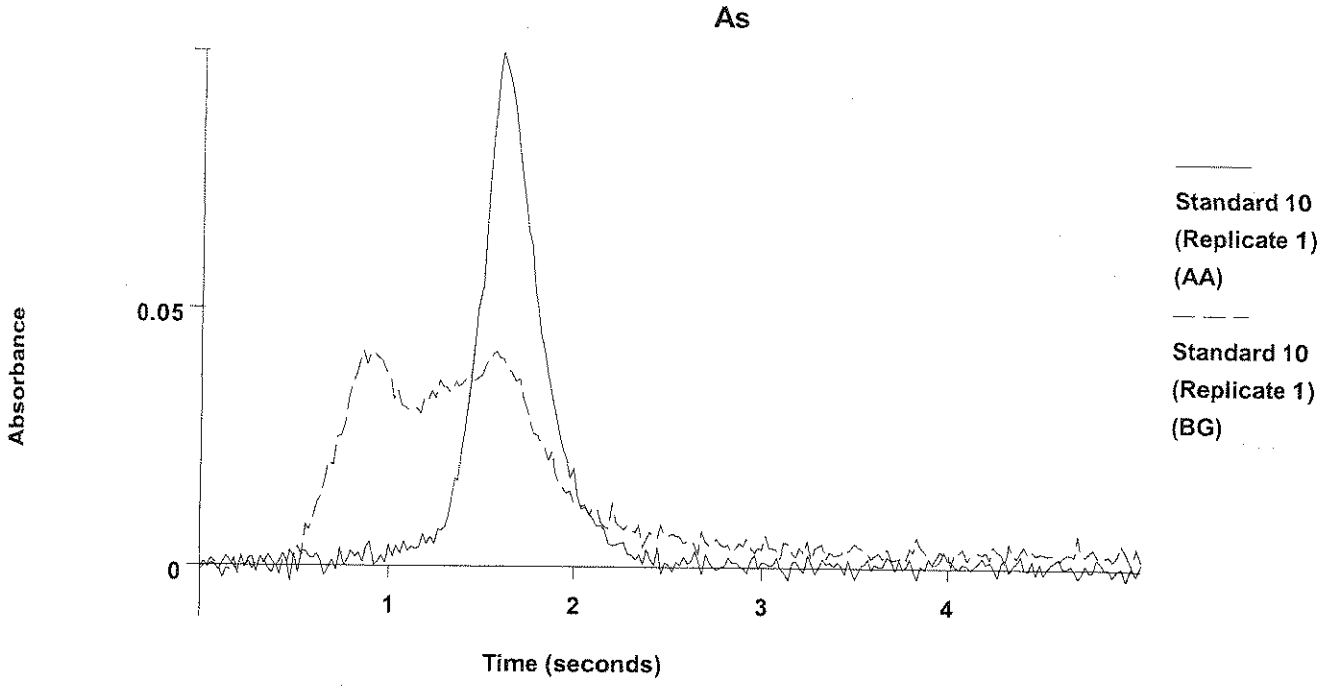


2		0.0202	0.0208	0.0522	0.0528	0.0444	01:05:32 Yes
Mean:		0.0201					
SD :		0.0001					
%RSD:		0.70					

[As] Standard number 1 applied. [5.0]
Correlation Coefficient: 1.00000 Slope: 0.00402
Intercept : 0.00000

Element: As Seq. No.: 220 AS Loc.: 124 Date: 06/29/2006
Sample ID: Standard 10
µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1			0.0405	0.0411	0.0999	0.0566	0.0417	01:08:51	Yes

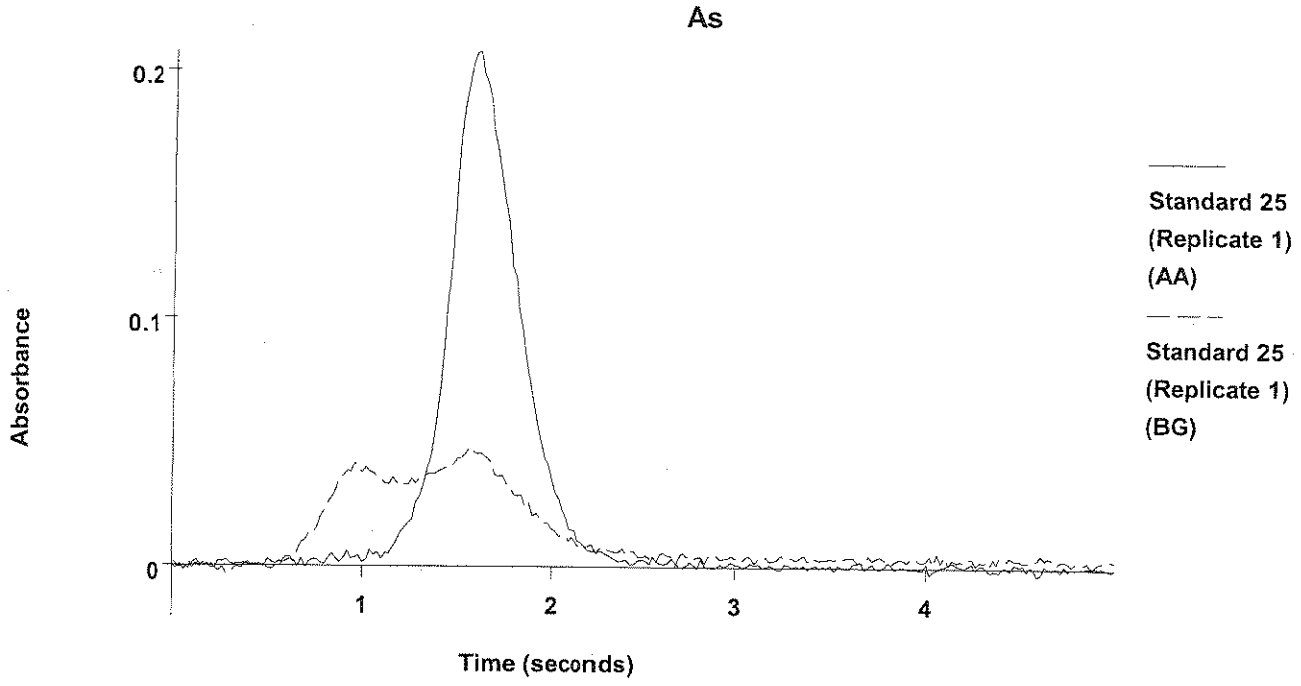


2	0.0385	0.0390	0.1088	0.0515	0.0439	01:11:42	Yes
Mean:	0.0395						
SD :	0.0014						
%RSD:	3.66						

[As] Standard number 2 applied. [10.0]
Correlation Coefficient: 0.99994 Slope: 0.00395
Intercept : 0.00012

Element: As Seq. No.: 221 AS Loc.: 126 Date: 06/29/2006
Sample ID: Standard 25
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0926	0.0932	0.2075	0.0563	0.0483	01:15:00	Yes



2	0.0926	0.0932	0.2111	0.0541	0.0459	01:17:53	Yes
Mean:	0.0926						
SD :	0.0000						
%RSD:	0.00						

[As] Standard number 3 applied. [25.0]
Correlation Coefficient: 0.99955 Slope: 0.00368
Intercept : 0.00124

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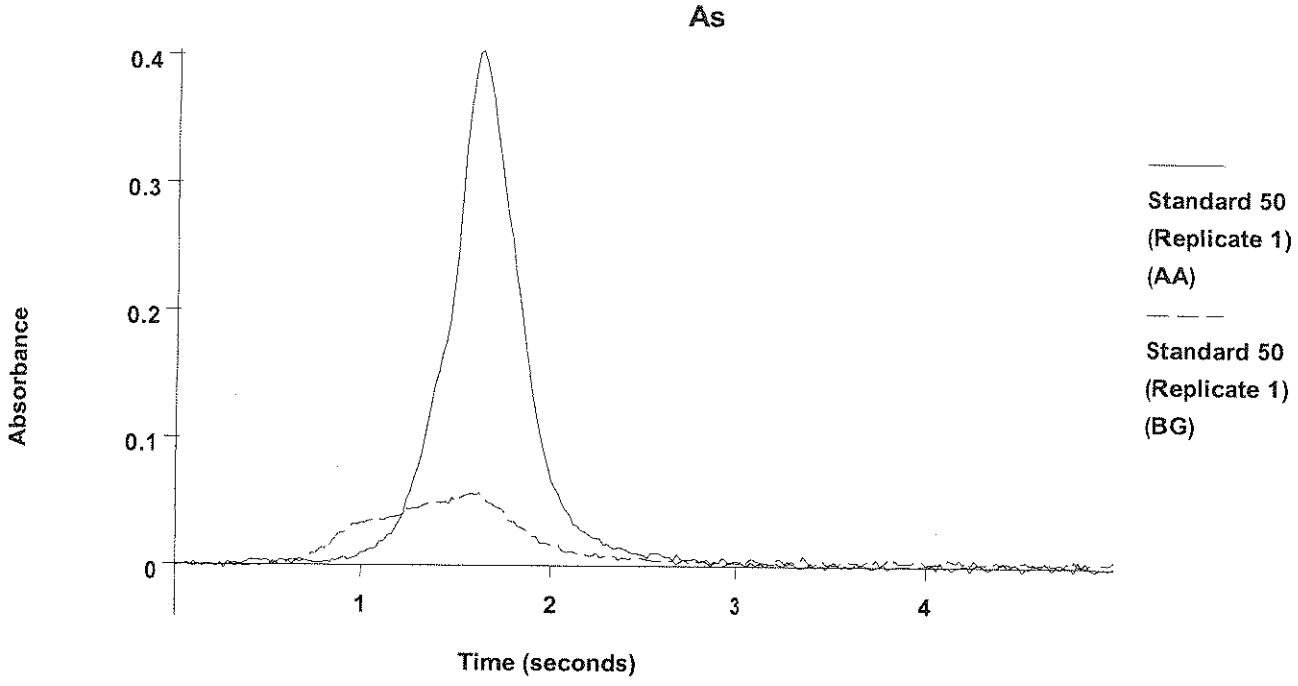
Element: As Seq. No.: 222 AS Loc.: 129 Date: 06/29/2006
Sample ID: Standard 50
µL dispensed: 10 from 148, 5 from 147, 15 from 129

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.1870	0.1876	0.4035	0.0593	0.0570	01:21:10	Yes



2	0.1905	0.1911	0.4550	0.0580	0.0569	01:24:00 Yes
Mean:	0.1888					
SD :	0.0024					
%RSD:	1.29					

[As] Standard number 4 applied. [50.0]
Correlation Coefficient: 0.99986 Slope: 0.00375
Intercept : 0.00071

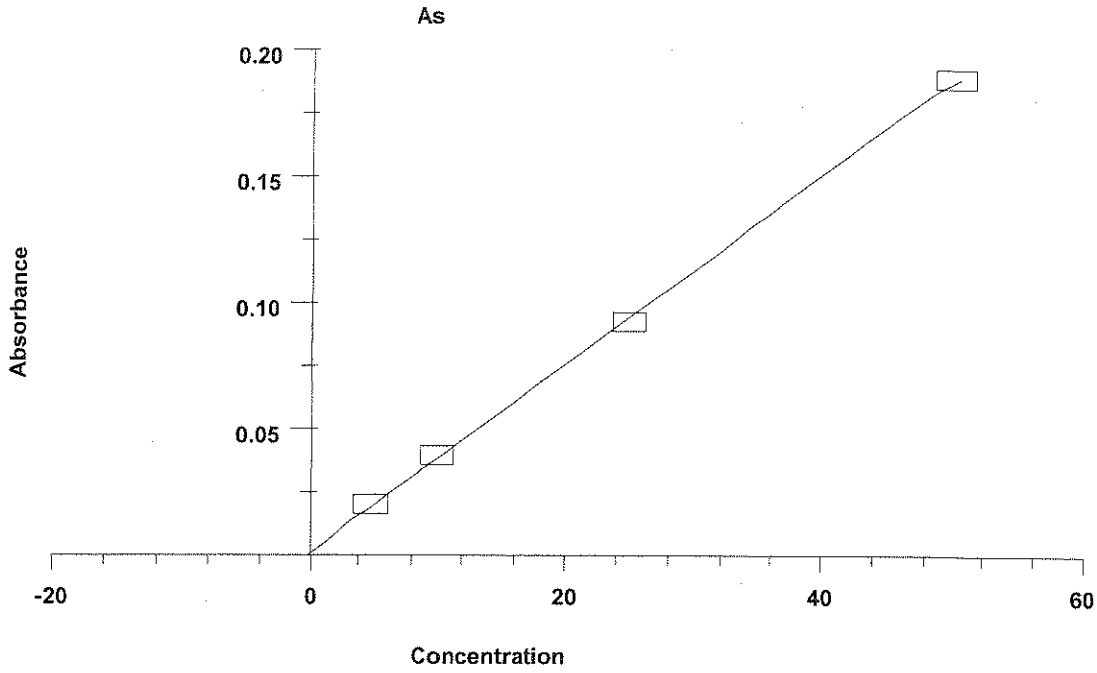
Calibration data for As

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0006	-	----	----	----
Standard 5	0.0201	5.0	5.2	0.00	0.70
Standard 10	0.0395	10.0	10.3	0.00	3.66
Standard 25	0.0926	25.0	24.5	0.00	0.00
Standard 50	0.1888	50.0	50.2	0.00	1.29

Correlation Coefficient: 0.99986 Slope: 0.00375 Intercept: 0.0007

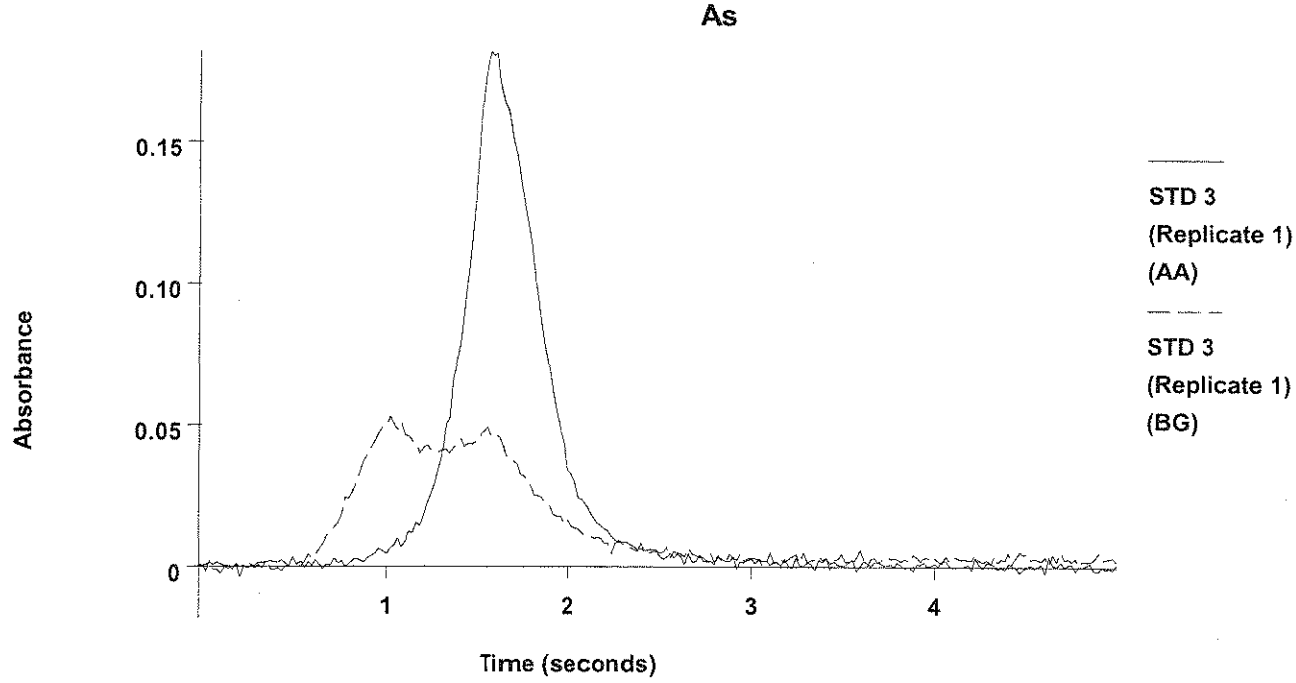
---

cal good



Element: As Seq. No.: 223 AS Loc.: 126 Date: 06/29/2006
Sample ID: STD 3
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.7	24.7	0.0934	0.0940	0.1818	0.0604	0.0530	01:26:57	Yes



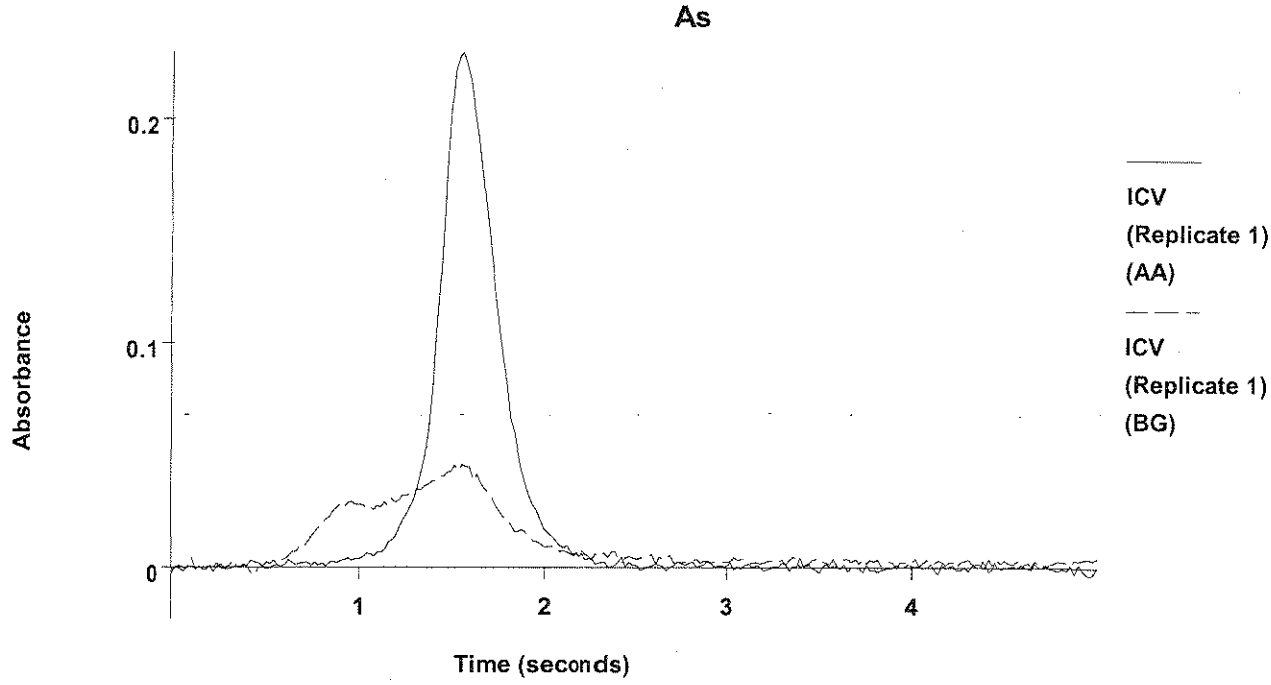
2	24.5	24.5	0.0927	0.0933	0.2052	0.0595	0.0505	01:29:50	Yes

Mean:	24.6	24.6	0.0931
SD :	0.14	0.14	0.0005
%RSD:	0.57	0.57	0.57

QC value within specified limits.

Element: As Seq. No.: 224 AS Loc.: 134 Date: 06/29/2006
Sample ID: ICV
µL dispensed: 10 from 148, 5 from 147, 15 from 134

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.2	23.2	0.0875	0.0881	0.2298	0.0472	0.0461	01:32:40	Yes

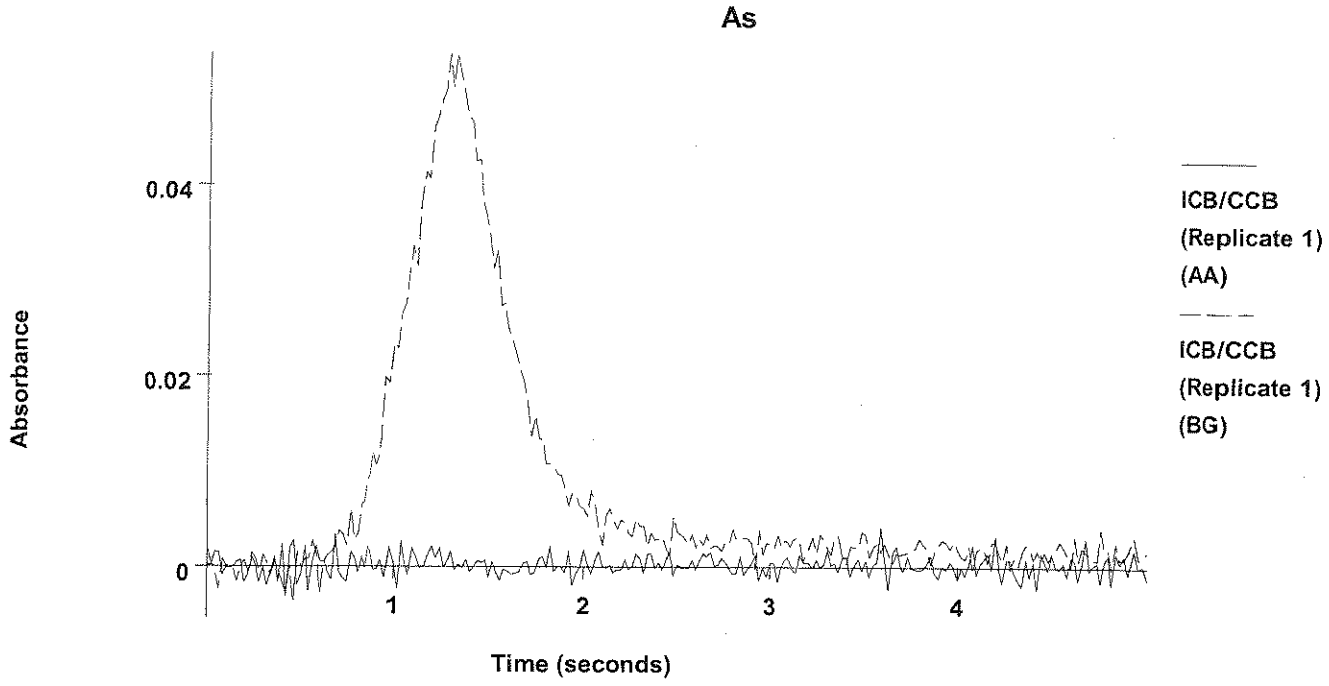


2	23.7	23.7	0.0897	0.0903	0.2419	0.0509	0.0468	01:35:30	Yes
Mean:	23.4	23.4	0.0886						
SD :	0.40	0.40	0.0015						
%RSD:	1.72	1.72	1.71						

QC value within specified limits.

Element: As Seq. No.: 225 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0005	0.0011	0.0042	0.0386	0.0538	01:38:19	Yes

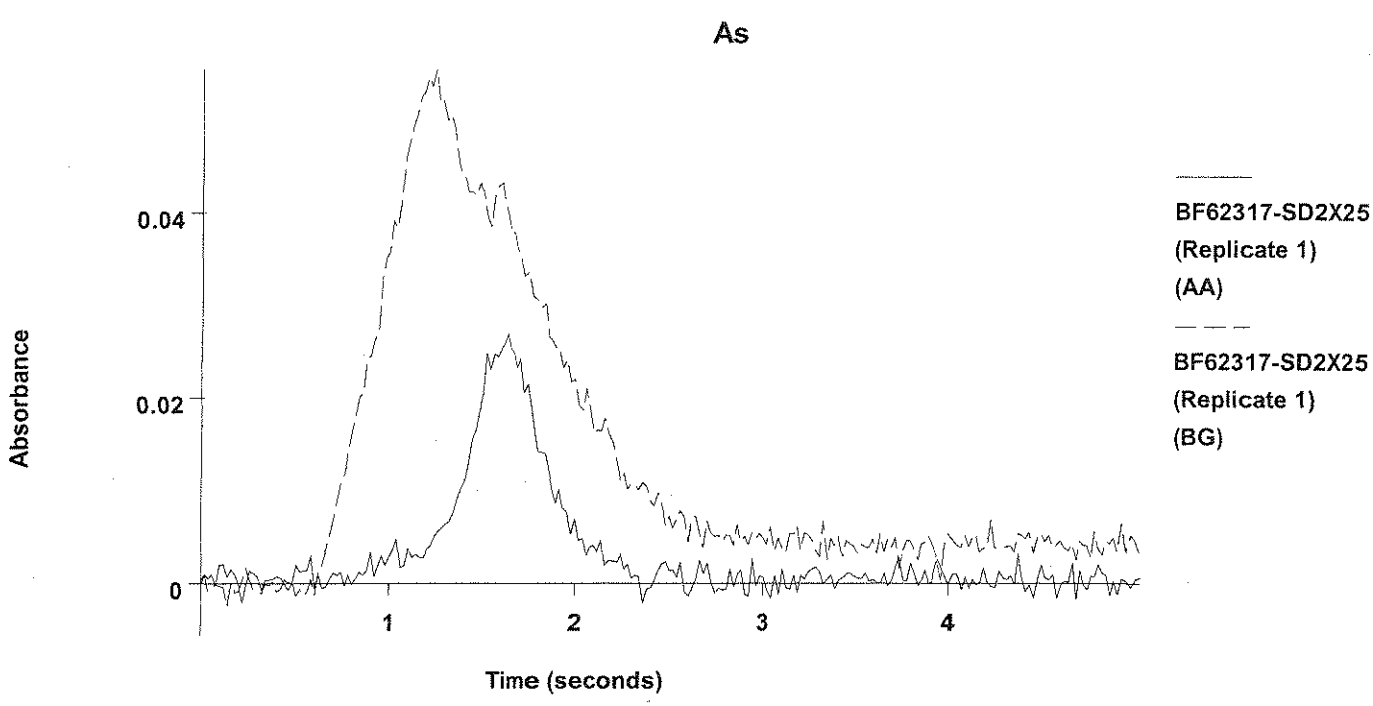


2	-0.2	-0.2	-0.0001	0.0005	0.0040	0.0305	0.0324	01:41:10 Yes
Mean:	-0.1	-0.1	0.0002					
SD :	0.11	0.11	0.0004					
%RSD:	77.8	77.8	199.45					

QC value within specified limits.

Element: As Seq. No.: 226 AS Loc.: 23 Date: 06/29/2006
Sample ID: BF62317-BLK1
µL dispensed: 10 from 148, 5 from 147, 15 from 23

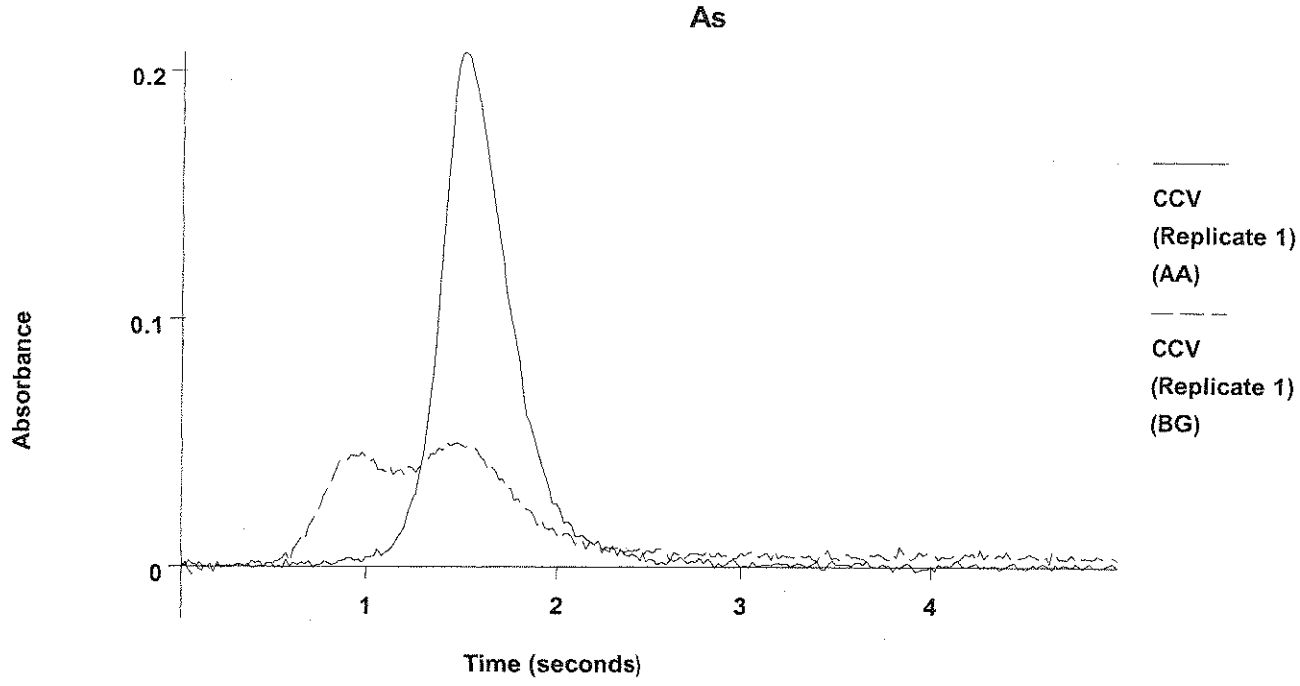
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	0.0001	0.0007	0.0043	0.0527	0.0529	01:44:00	Yes



2	3.5	3.5	0.0138	0.0144	0.0259	0.0665	0.0582	05:05:57 Yes
Mean:	3.7	3.7	0.0144					
SD :	0.21	0.21	0.0008					
%RSD:	5.86	5.86	5.58					

Element: As Seq. No.: 262 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.8	24.8	0.0938	0.0943	0.2073	0.0646	0.0501	05:08:49	Yes

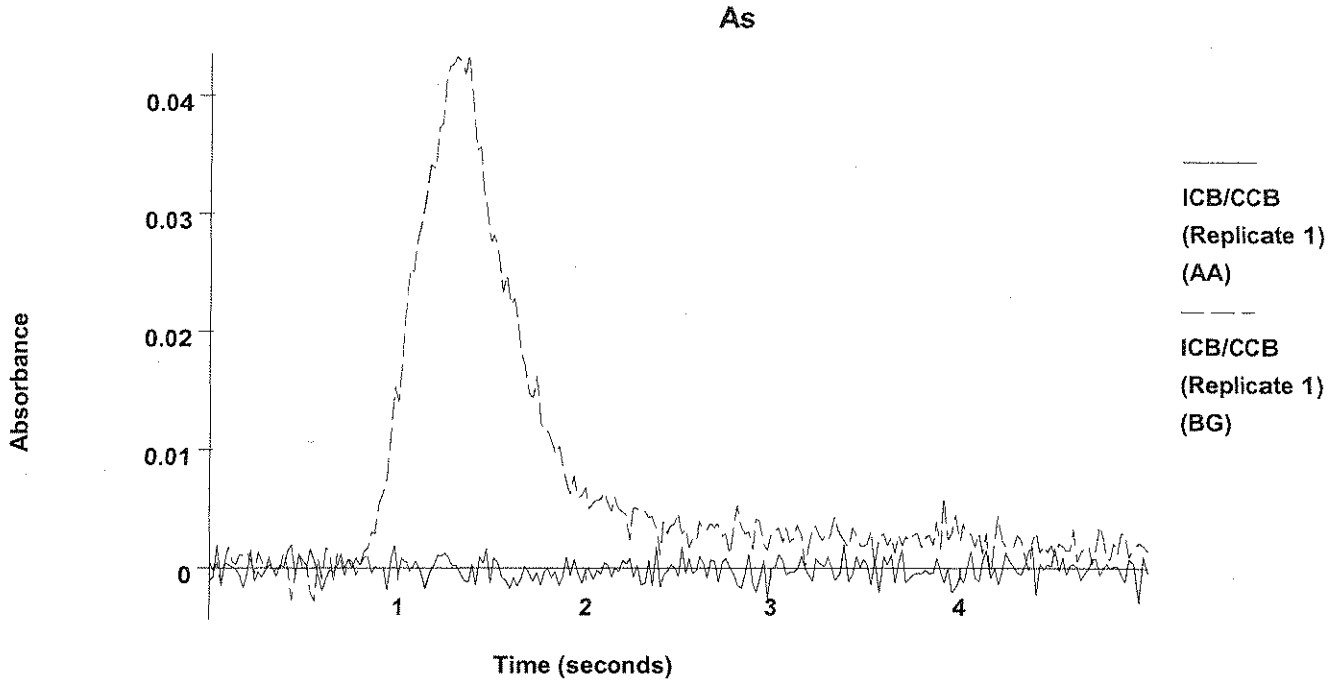


2	24.9	24.9	0.0941	0.0947	0.1837	0.0640	0.0547	05:11:43 Yes
Mean:	24.9	24.9	0.0939					
SD :	0.07	0.07	0.0002					
%RSD:	0.27	0.27	0.27					

QC value within specified limits.

Element: As Seq. No.: 263 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0010	-0.0005	0.0020	0.0339	0.0435	05:14:33	Yes

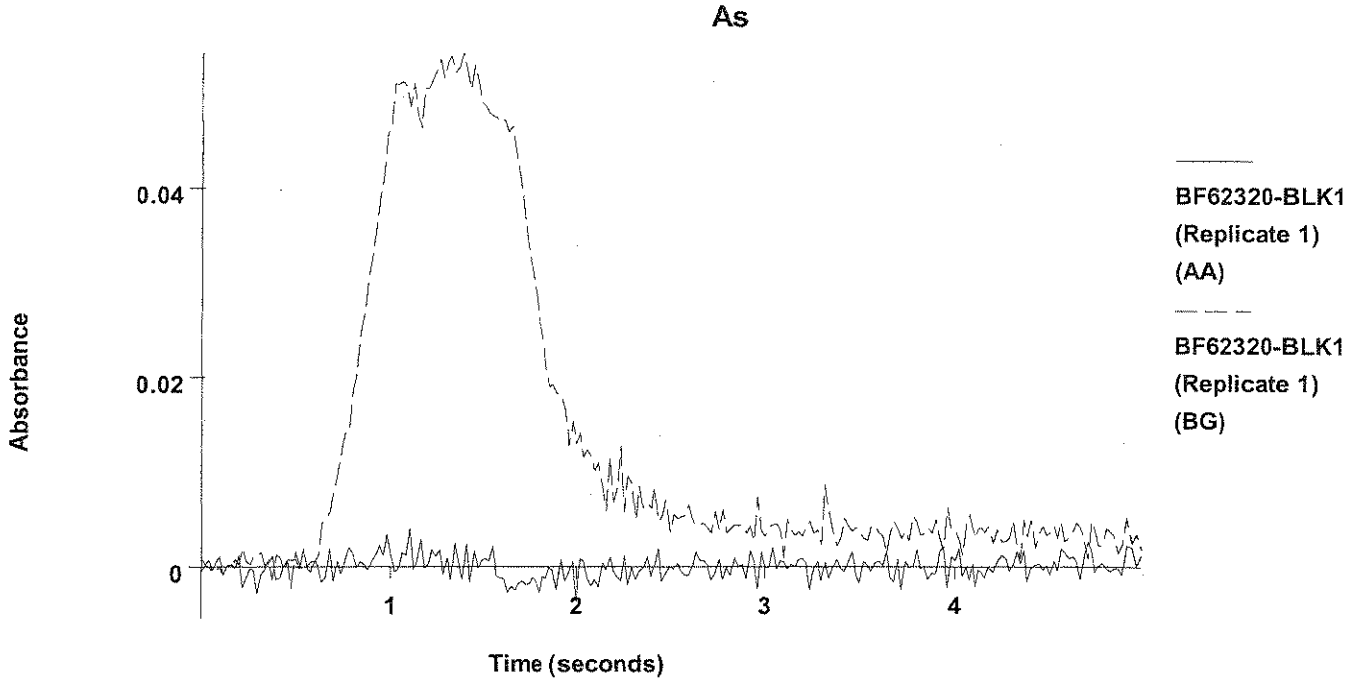


2	-0.2	-0.2	-0.0001	0.0004	0.0034	0.0342	0.0467	05:17:24 Yes
Mean:	-0.3	-0.3	-0.0006					
SD :	0.17	0.17	0.0006					
%RSD:	49.6	49.6	109.89					

QC value within specified limits.

Element: As Seq. No.: 264 AS Loc.: 53 Date: 06/29/2006
Sample ID: BF62320-BLK1
µL dispensed: 10 from 148, 5 from 147, 15 from 53

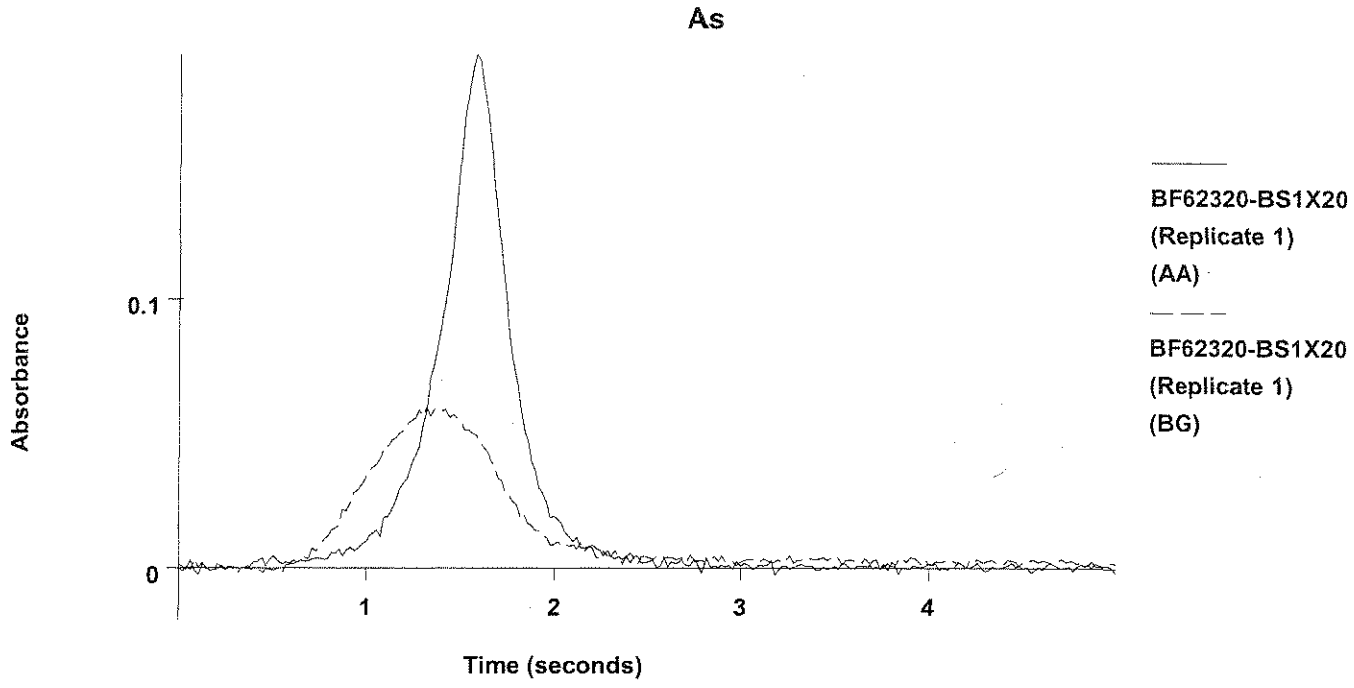
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0005	0.0000	0.0040	0.0639	0.0543	05:20:13	Yes



2	-0.1	-0.1	0.0004	0.0010	0.0029	0.0584	0.0522	05:23:03	Yes
Mean:	-0.2	-0.2	-0.0001						
SD :	0.18	0.18	0.0007						
%RSD:	87.6	87.6	1151.13						

Element: As Seq. No.: 265 AS Loc.: 54 Date: 06/29/2006
Sample ID: BF62320-BS1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 54

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	22.5	22.5	0.0850	0.0855	0.1910	0.0554	0.0598	05:25:52	Yes

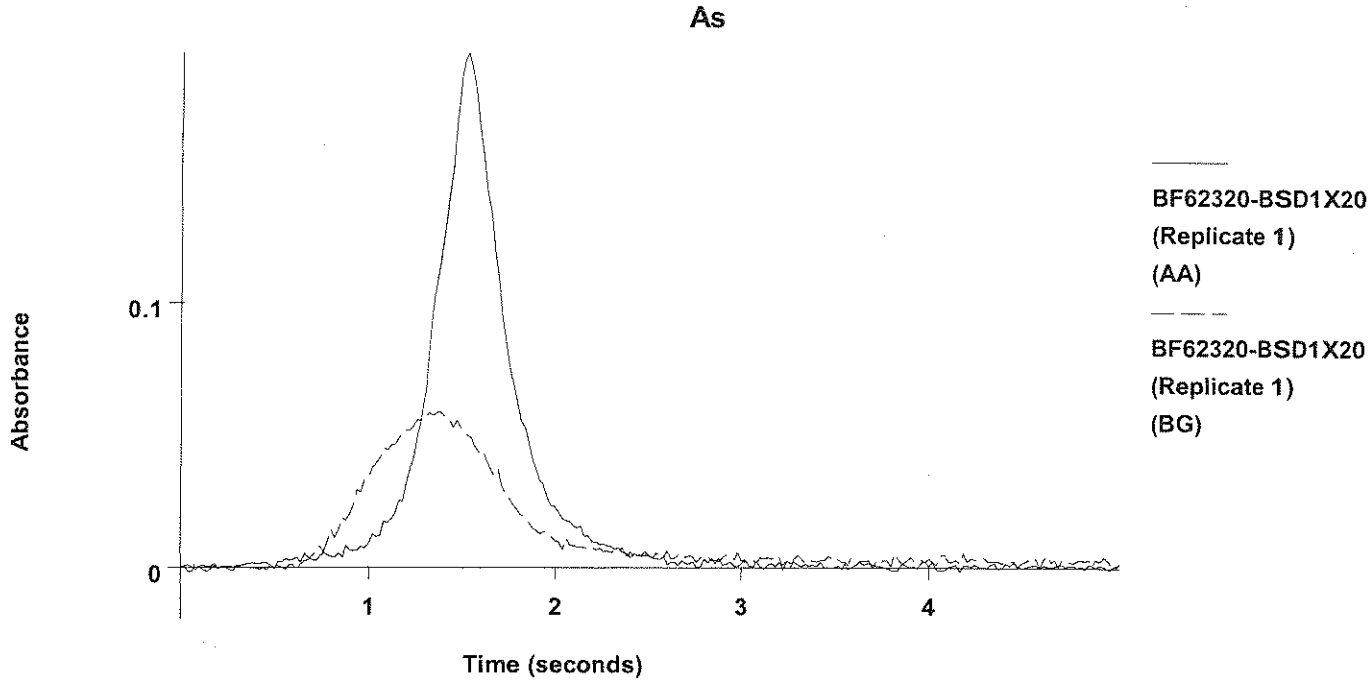


2	22.2	22.2	0.0841	0.0847	0.1979	0.0539	0.0590	05:28:42	Yes
Mean:	22.4	22.4	0.0845						
SD :	0.17	0.17	0.0006						
%RSD:	0.75	0.75	0.74						

905

Element: As Seq. No.: 266 AS Loc.: 55 Date: 06/29/2006
Sample ID: BF62320-BSD1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 55

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.8	23.8	0.0898	0.0904	0.1940	0.0563	0.0589	05:31:32	Yes

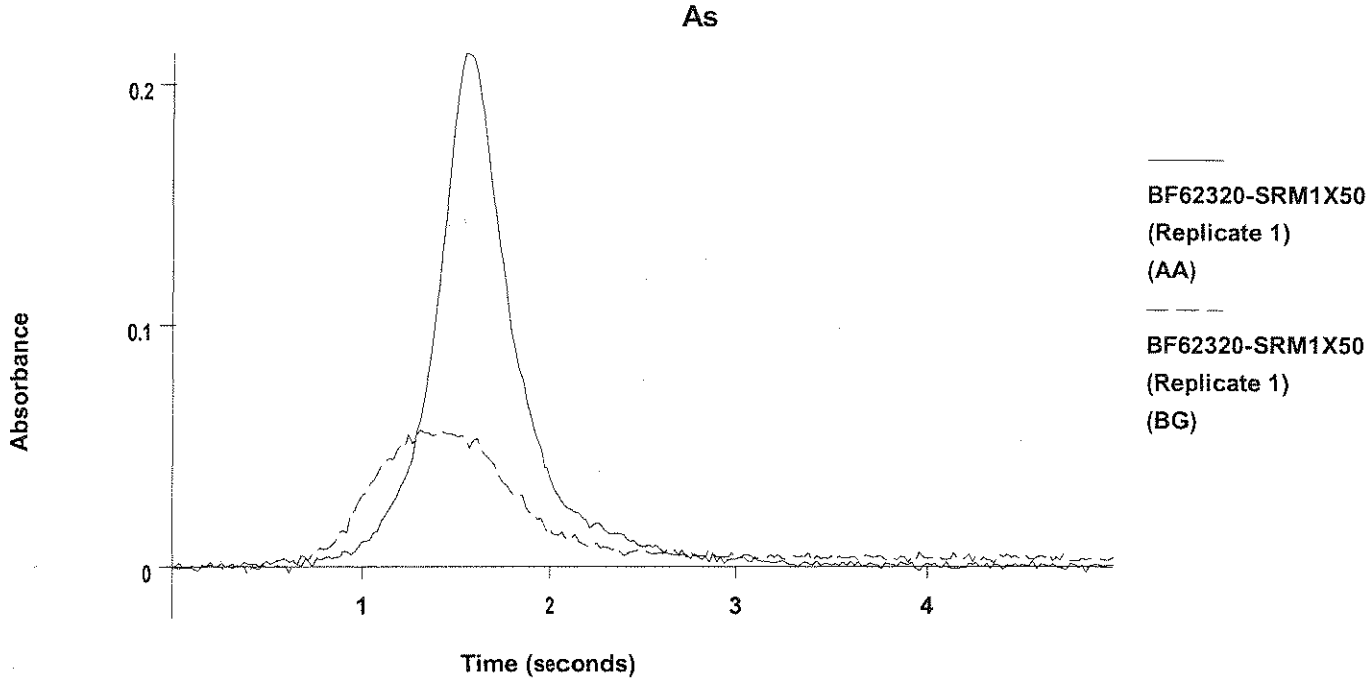


2	24.1	24.1	0.0910	0.0916	0.2087	0.0584	0.0613	05:34:21 Yes
Mean:	23.9	23.9	0.0904					
SD :	0.23	0.23	0.0009					
%RSD:	0.97	0.97	0.97					

965

Element: As Seq. No.: 267 AS Loc.: 56 Date: 06/29/2006
Sample ID: BF62320-SRM1X50
µL dispensed: 10 from 148, 5 from 147, 15 from 56

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	29.0	29.0	0.1093	0.1099	0.2132	0.0604	0.0567	05:37:10	Yes

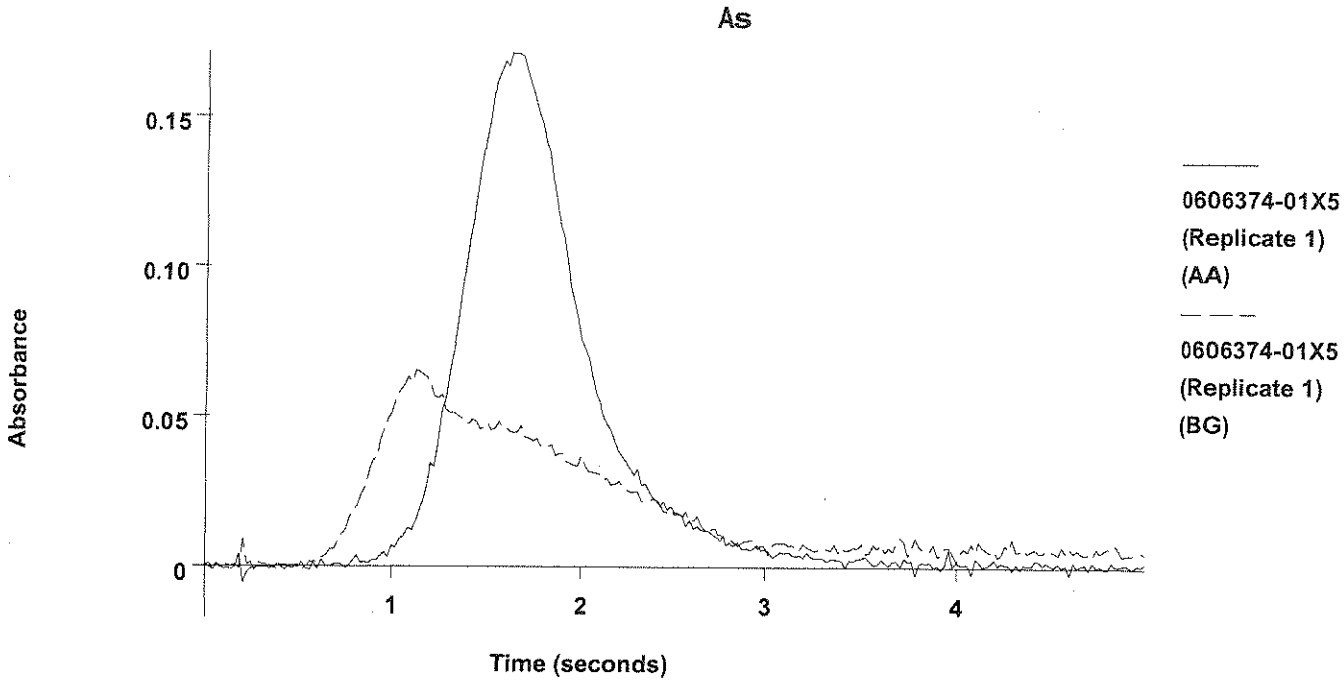


2	28.7	28.7	0.1082	0.1088	0.2167	0.0567	0.0515	05:39:59	Yes
Mean:	28.8	28.8	0.1088						
SD :	0.21	0.21	0.0008						
%RSD:	0.72	0.72	0.71						

$$\frac{28.8(50)(100)}{1000} = 144$$

Element: As Seq. No.: 268 AS Loc.: 57 Date: 06/29/2006
Sample ID: 0606374-01X5
µL dispensed: 10 from 148, 5 from 147, 15 from 57

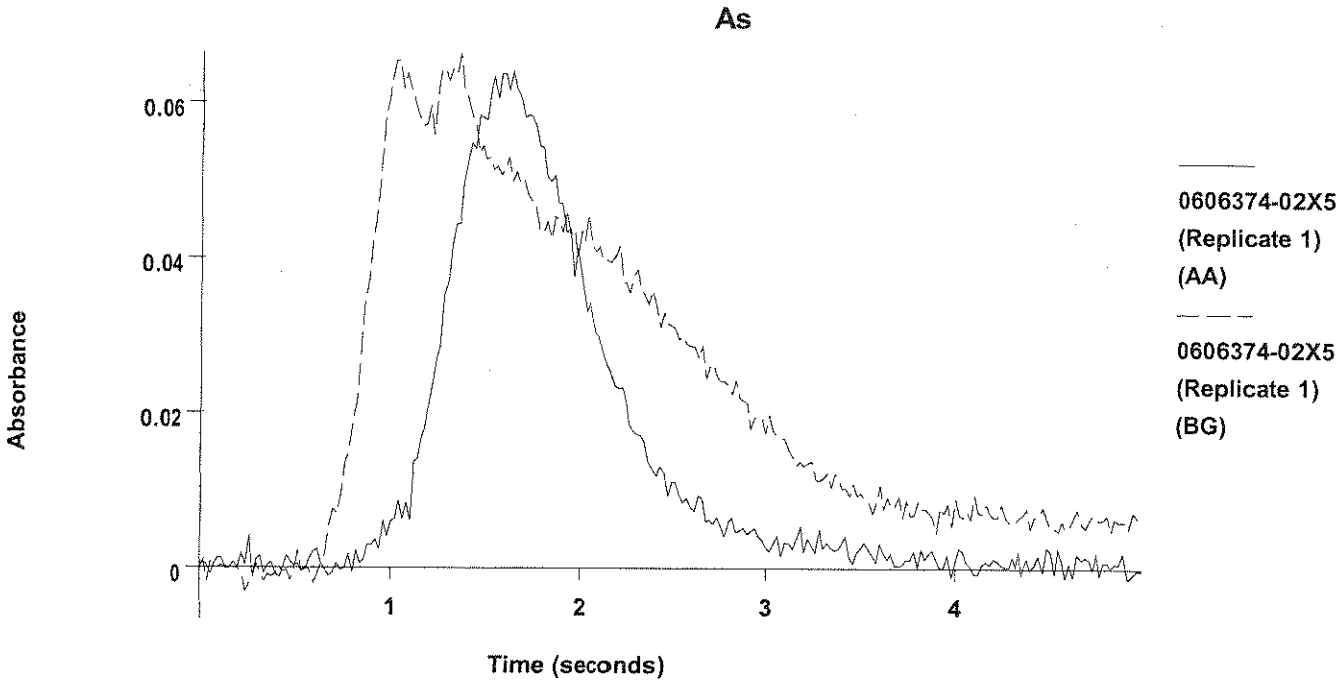
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	33.7	33.7	0.1272	0.1278	0.1713	0.0874	0.0652	05:42:49	Yes



2	34.9	34.9	0.1315	0.1321	0.1897	0.0973	0.0680	05:45:38 Yes
Mean:	34.3	34.3	0.1294					
SD :	0.81	0.81	0.0030					
%RSD:	2.37	2.37	2.35					

Element: As Seq. No.: 269 AS Loc.: 58 Date: 06/29/2006
Sample ID: 0606374-02X5
µL dispensed: 10 from 148, 5 from 147, 15 from 58

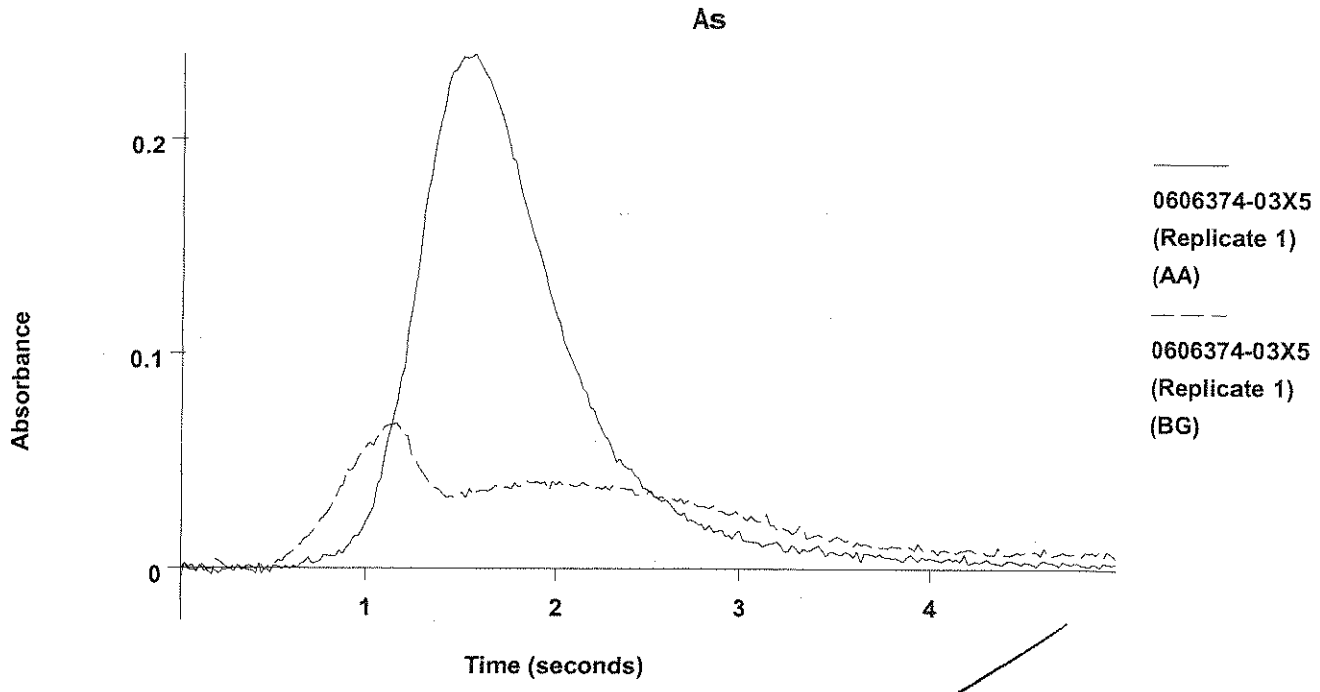
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	15.8	15.8	0.0599	0.0605	0.0642	0.1118	0.0663	05:48:27	Yes



2	14.9	14.9	0.0566	0.0572	0.0670	0.1089	0.0659	05:51:17 Yes
Mean:	15.3	15.3	0.0583					
SD :	0.63	0.63	0.0023					
%RSD:	4.07	4.07	4.02					

Element: As Seq. No.: 270 AS Loc.: 59 Date: 06/29/2006
Sample ID: 0606374-03X5
µL dispensed: 10 from 148, 5 from 147, 15 from 59

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	58.5	58.5	0.2201	0.2206	0.2398	0.1127	0.0675	05:54:06	Yes



Sample absorbance is greater than that of the highest standard.

2	59.4	59.4	0.2234	0.2239	0.2237	0.1314	0.0862	05:56:57 Yes

Sample absorbance is greater than that of the highest standard.

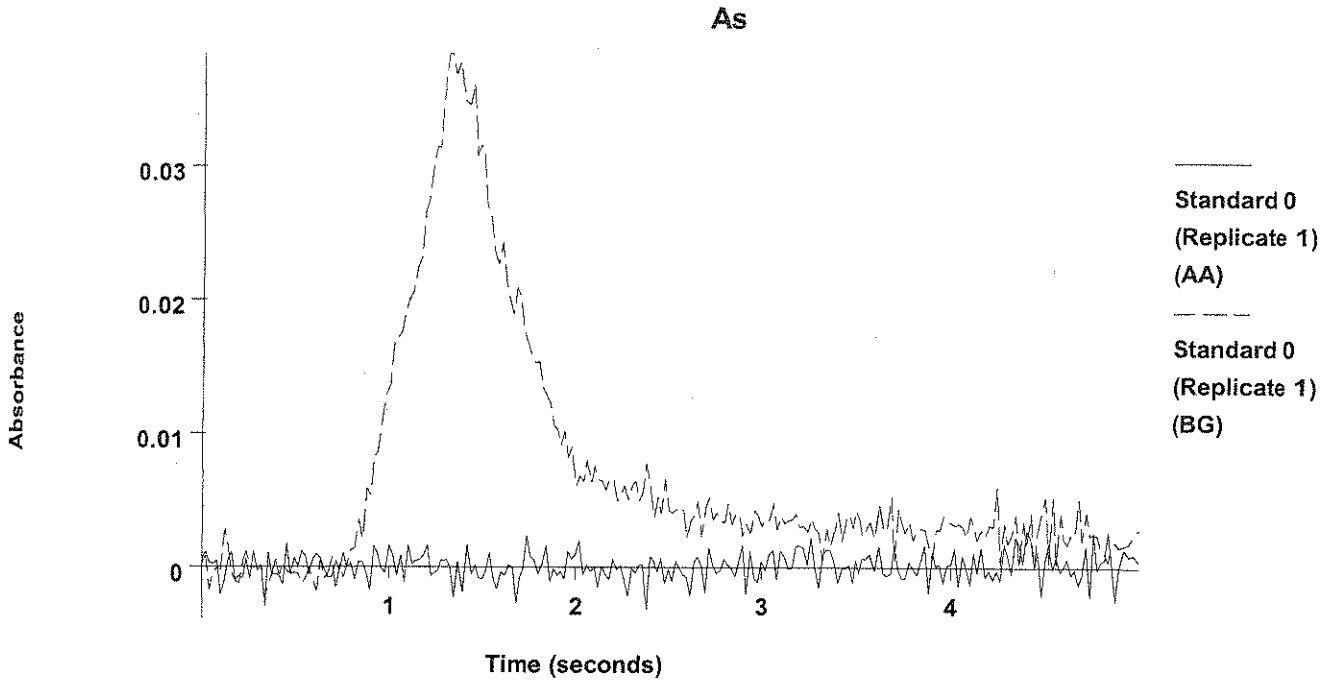
Mean:	58.9	58.9	0.2217					
SD :	0.62	0.62	0.0023					
%RSD:	1.06	1.06	1.05					

Sample absorbance is greater than that of the highest standard.
Result for As is greater than 100 percent of calibration range.

==========

Element: As Seq. No.: 271 AS Loc.: 148 Date: 06/29/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0005	0.0005	0.0028	0.0343	0.0384	05:59:47	Yes

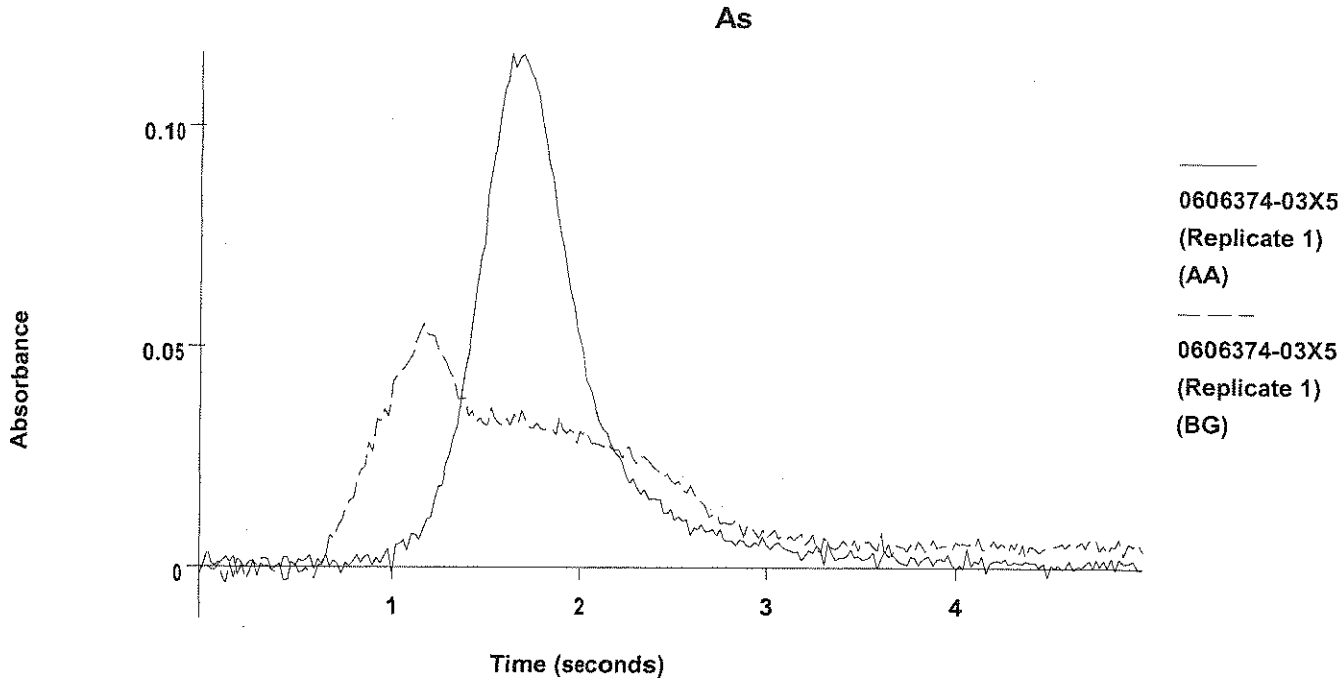


2	0.0010	0.0010	0.0043	0.0279	0.0234	06:02:36	Yes
Mean:	0.0008						
SD :	0.0004						
%RSD:	51.78						

Auto-zero performed.

Element: As Seq. No.: 272 AS Loc.: 59 Date: 06/29/2006
Sample ID: 0606374-03X5
µL dispensed: 20 from 148, 5 from 147, 5 from 59

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	63.6	21.2	0.0802	0.0810	0.1164	0.0747	0.0551	06:05:24	Yes

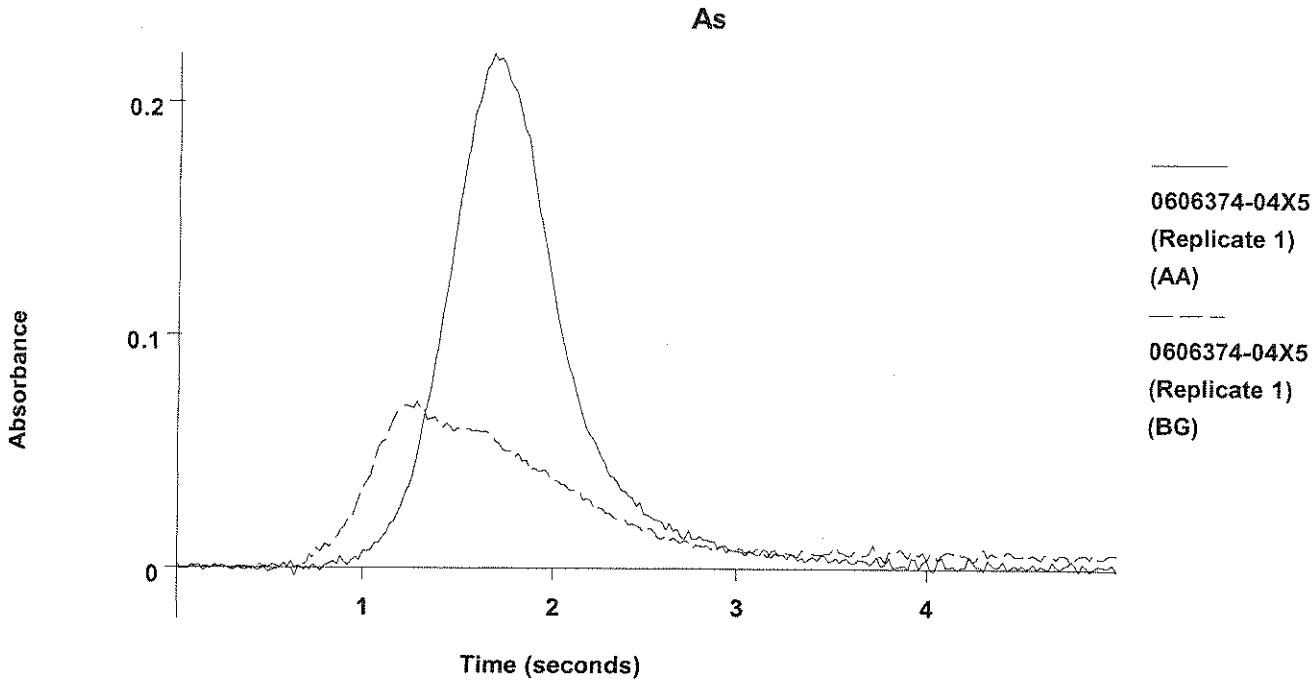


2	62.1	20.7	0.0783	0.0790	0.1183	0.0775	0.0557	06:08:15 Yes
Mean:	62.8	20.9	0.0792					
SD :	1.10	0.37	0.0014					
%RSD:	1.76	1.76	1.74					

15X

Element: As Seq. No.: 273 AS Loc.: 60 Date: 06/29/2006
Sample ID: 0606374-04X5
µL dispensed: 10 from 148, 5 from 147, 15 from 60

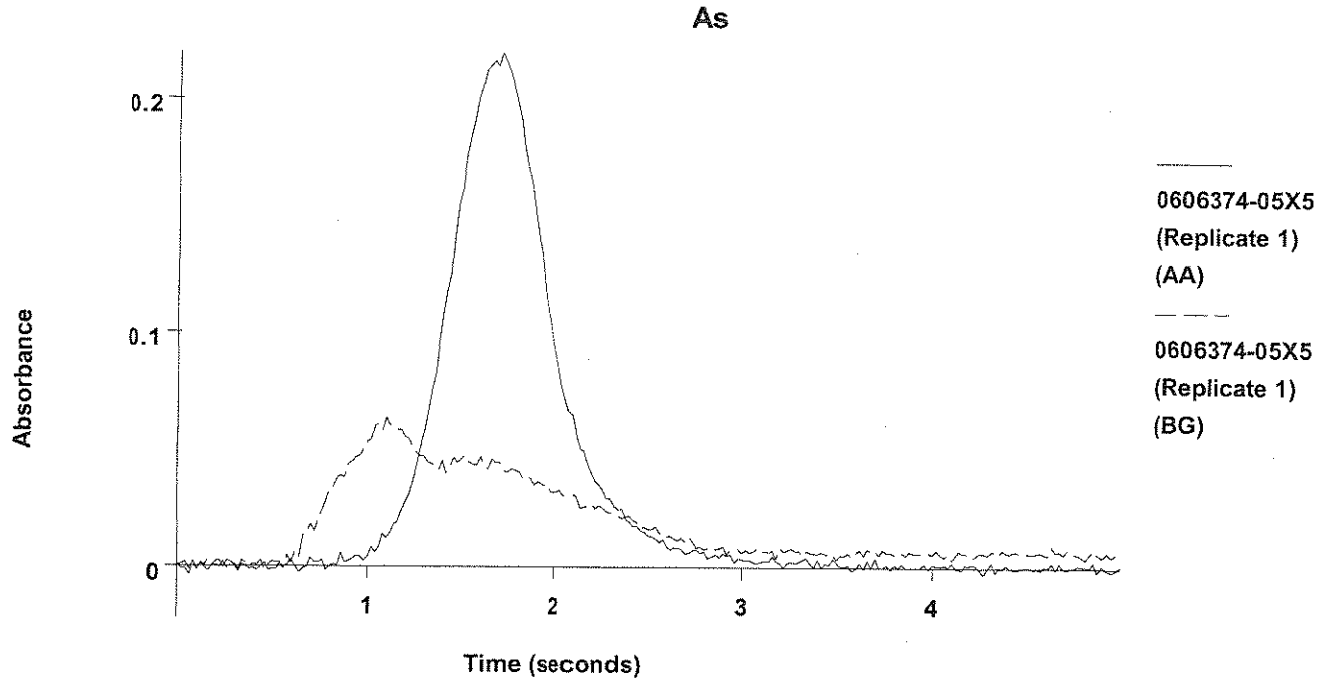
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	42.7	42.7	0.1607	0.1612	0.2207	0.0912	0.0713	06:11:04	Yes



2	42.8	42.8	0.1613	0.1619	0.2244	0.0937	0.0712	06:13:53 Yes
Mean:	42.7	42.7	0.1610					
SD :	0.12	0.12	0.0005					
%RSD:	0.28	0.28	0.28					

Element: As Seq. No.: 274 AS Loc.: 61 Date: 06/29/2006
Sample ID: 0606374-05X5
µL dispensed: 10 from 148, 5 from 147, 15 from 61

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	37.9	37.9	0.1429	0.1435	0.2196	0.0879	0.0635	06:16:43	Yes

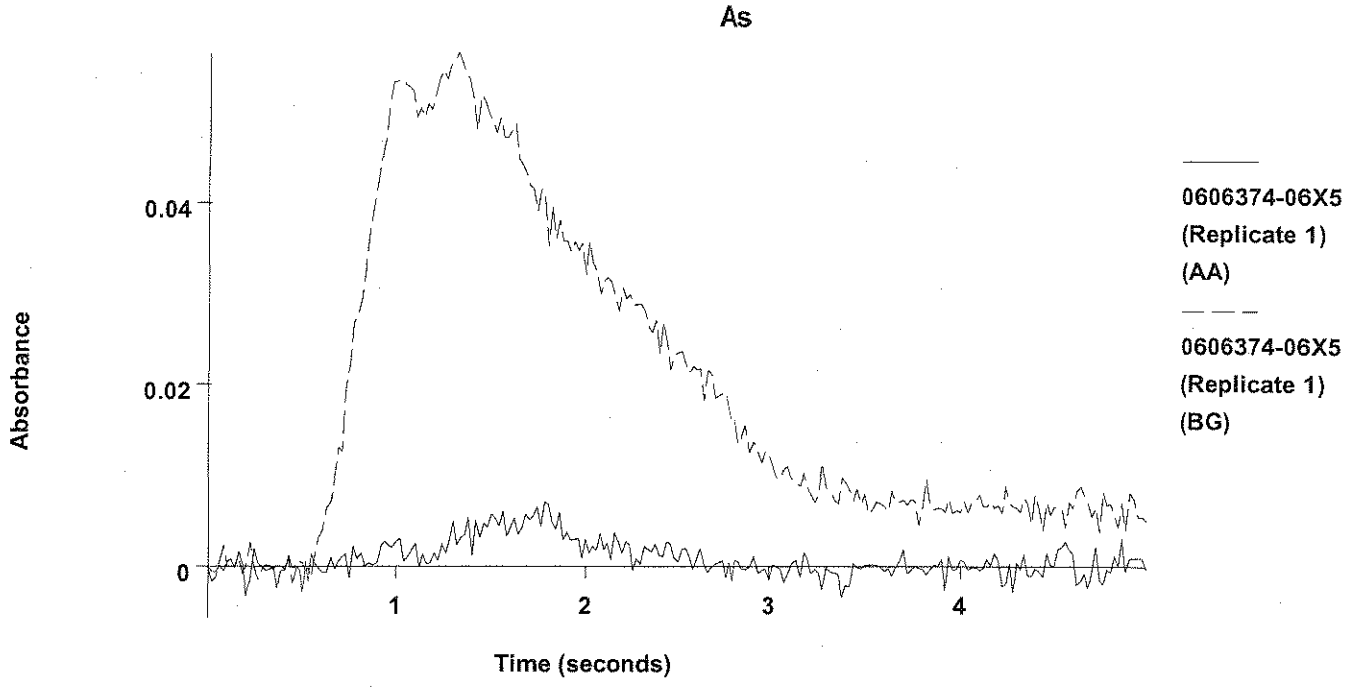


2	38.4	38.4	0.1446	0.1452	0.2206	0.0880	0.0635	06:19:34 Yes
Mean:	38.2	38.2	0.1438					
SD :	0.31	0.31	0.0012					
%RSD:	0.83	0.83	0.82					

==========

Element: As Seq. No.: 275 AS Loc.: 62 Date: 06/29/2006
Sample ID: 0606374-06X5
µL dispensed: 10 from 148, 5 from 147, 15 from 62

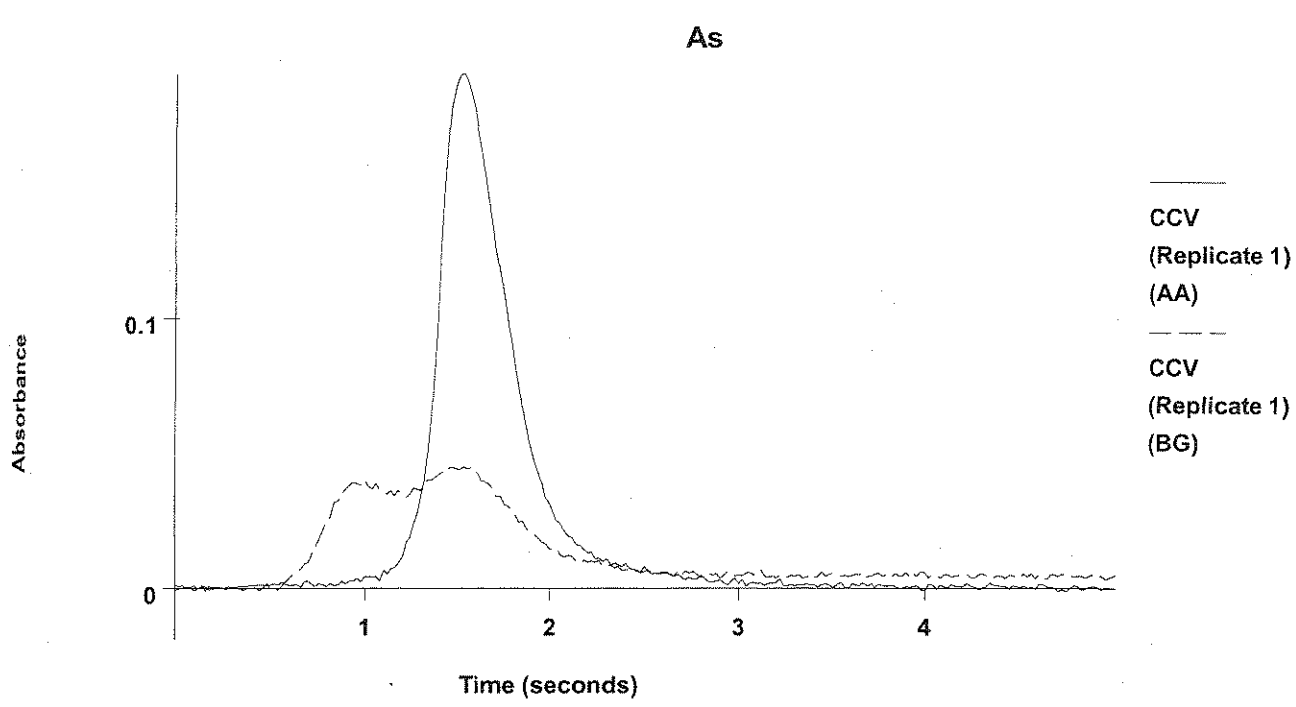
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.9	0.9	0.0039	0.0045	0.0071	0.0953	0.0565	06:22:23	Yes



2	0.7	0.7	0.0034	0.0040	0.0063	0.0873	0.0558	06:25:12 Yes
Mean:	0.8	0.8	0.0037					
SD :	0.10	0.10	0.0004					
%RSD:	12.1	12.1	9.81					

Element: As Seq. No.: 276 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.3	24.3	0.0917	0.0924	0.1903	0.0614	0.0450	06:28:05	Yes



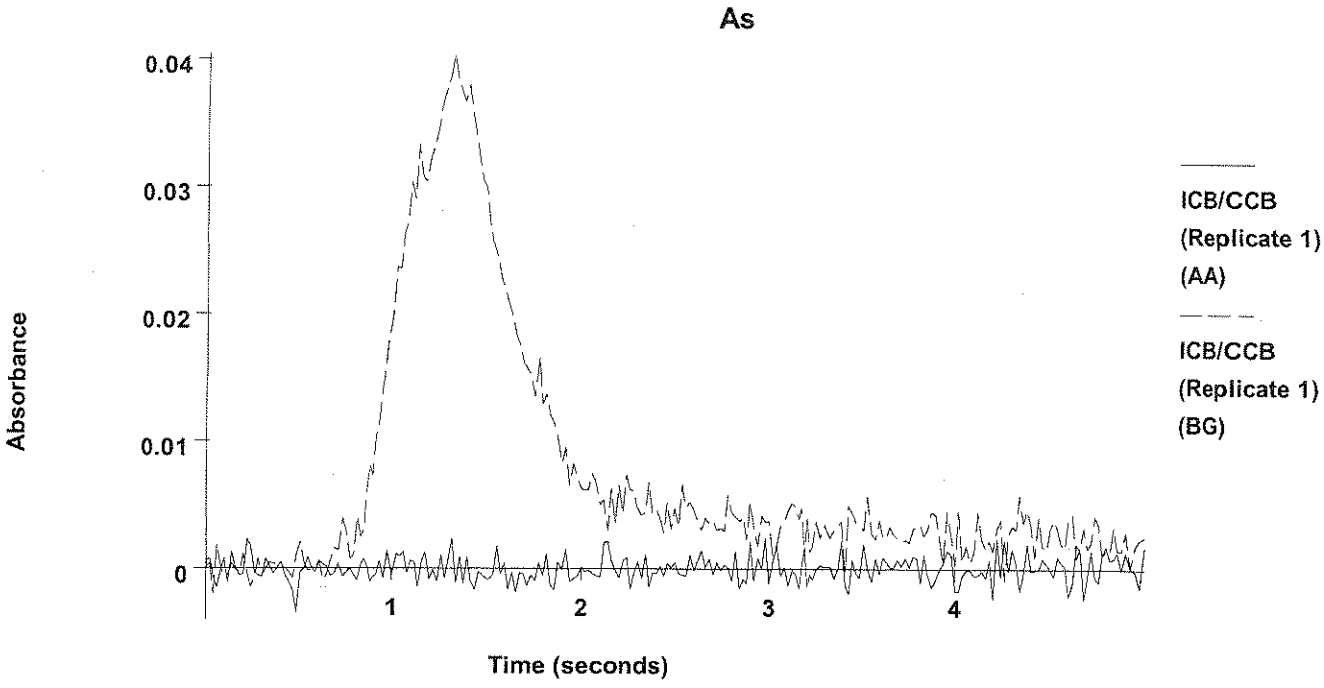
2	25.1	25.1	0.0949	0.0957	0.2106	0.0692	0.0510	06:30:57 Yes
Mean:	24.7	24.7	0.0933					
SD :	0.61	0.61	0.0023					
%RSD:	2.48	2.48	2.46					

QC value within specified limits.

==========

Element: As Seq. No.: 277 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0008	0.0000	0.0024	0.0364	0.0404	06:33:47	Yes



2	-0.5	-0.5	-0.0012	-0.0005	0.0036	0.0326	0.0421	06:36:36 Yes
Mean:	-0.5	-0.5	-0.0010					
SD :	0.08	0.08	0.0003					
%RSD:	17.7	17.7	30.28					

QC value within specified limits.

Element: As Seq. No.: 278 AS Loc.: 63 Date: 06/29/2006
Sample ID: 0606374-07X5
µL dispensed: 10 from 148, 5 from 147, 15 from 63

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	18.0	18.0	0.0681	0.0687	0.0736	0.1282	0.0954	06:39:24	Yes

ANALYSIS SEQUENCE

BPG0228

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0228-CAL1	QC		1		6F28044		
BPG0228-CAL2	QC		2		6F30017		
BPG0228-CAL3	QC		3		6F30018		
BPG0228-CAL4	QC		4		6F30019		
BPG0228-CAL5	QC		5		6F30020		
BPG0228-ICV1	QC		6		6F30019		
BPG0228-SCV1	QC		7		6F30021		
BPG0228-ICB1	QC		8				
BF62320-DUP5	QC		9				
BF62320-MS5	QC		10				
BF62320-PS5	QC		11				
BPG0228-CCB1	QC		12		6F28014		
BPG0228-CCV1	QC		13		6F30019		
BF62320-PS6	QC		14				
BF62320-MS6	QC		15				
BF62320-DUP6	QC		16				
0606373-20	As: ppm Arsenic 7060	F	17				MACTEC Engineering & Consulting, In
0606373-21	As: ppm Arsenic 7060	F	18				MACTEC Engineering & Consulting, In
0606374-07	As: ppm Arsenic 7060	F	19				MACTEC Engineering & Consulting, In
0606374-08	As: ppm Arsenic 7060	F	20				MACTEC Engineering & Consulting, In
0606374-09	As: ppm Arsenic 7060	F	21				MACTEC Engineering & Consulting, In
0606374-10	As: ppm Arsenic 7060	F	22				MACTEC Engineering & Consulting, In
0606374-11	As: ppm Arsenic 7060	F	23				MACTEC Engineering & Consulting, In
BPG0228-CCB2	QC		24				
BPG0228-CCV2	QC		25		6F30019		
0606374-12	As: ppm Arsenic 7060	F	26				MACTEC Engineering & Consulting, In
0606374-12RE1	As: ppm Arsenic 7060	F	27				MACTEC Engineering & Consulting, In
0606374-13	As: ppm Arsenic 7060	F	28				MACTEC Engineering & Consulting, In
0606374-14	As: ppm Arsenic 7060	F	29				MACTEC Engineering & Consulting, In
0606374-15	As: ppm Arsenic 7060	F	30				MACTEC Engineering & Consulting, In
0606374-16	As: ppm Arsenic 7060	F	31				MACTEC Engineering & Consulting, In
BPG0228-SRD1	QC		32				
BPG0228-SRD2	QC		33				

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

BPG0228

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BF62617-BLK3	QC		34				
BF62617-BS3	QC		35				
BPG0228-CCB3	QC		36				
BPG0228-CCV3	QC		37		6F30019		
BF62617-BSD3	QC		38				
BF62617-SRM3	QC		39				
BF62617-DUP5	QC		40				
BF62617-MS5	QC		41				
BF62617-PS5	QC		42				
BF62617-DUP6	QC		43				
BF62617-MS6	QC		44				
BF62617-PS6	QC		45				
0606383-01	As: ppm Arsenic 7060	G	46				MACTEC Engineering & Consulting, In
0606383-02	As: ppm Arsenic 7060	E	47				MACTEC Engineering & Consulting, In
BPG0228-CCB4	QC		48				
BPG0228-CCV4	QC		49		6F30019		
0606383-03	As: ppm Arsenic 7060	G	50				MACTEC Engineering & Consulting, In
0606383-04	As: ppm Arsenic 7060	E	51				MACTEC Engineering & Consulting, In
0606383-05	As: ppm Arsenic 7060	G	52				MACTEC Engineering & Consulting, In
0606383-06	As: ppm Arsenic 7060	E	53				MACTEC Engineering & Consulting, In
0606383-07	As: ppm Arsenic 7060	G	54				MACTEC Engineering & Consulting, In
0606383-07RE1	As: ppm Arsenic 7060	G	55				MACTEC Engineering & Consulting, In
0606383-08	As: ppm Arsenic 7060	E	56				MACTEC Engineering & Consulting, In
0606383-08RE1	As: ppm Arsenic 7060	E	57				MACTEC Engineering & Consulting, In
0606383-09	As: ppm Arsenic 7060	E	58				MACTEC Engineering & Consulting, In
0606383-10	As: ppm Arsenic 7060	G	59				MACTEC Engineering & Consulting, In
BPG0228-CCB5	QC		60				
BPG0228-CCV5	QC		61		6F30019		
0606383-11	As: ppm Arsenic 7060	E	62				MACTEC Engineering & Consulting, In
0606383-12	As: ppm Arsenic 7060	E	63				MACTEC Engineering & Consulting, In
0606383-12RE1	As: ppm Arsenic 7060	E	64				MACTEC Engineering & Consulting, In
0606383-13	As: ppm Arsenic 7060	E	65				MACTEC Engineering & Consulting, In
0606383-14	As: ppm Arsenic 7060	E	66				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0228

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0228-SRD3	QC		67				
BPG0228-SRD4	QC		68				
BPG0228-CCB6	QC		69				
BPG0228-CCV6	QC		70		6F30019		

Samples Loaded By Date Data Processed By Date

ESS LABORATORY
GFAA Data Review Check List

SIF Method: Pb As **Run Date:** 6/30/06

Project Number(s): 06375 371, 467, 382, 374, 373, 366, 383, 405, 428, 430, 429

Batch Number (s): 0630064A

SOP NO. 30_2009

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the cal curve consist of four Calibration Standards including a blank and is its correlation within QC limits (≥0.995)?	X		
2. Is the low calibration standard at the reporting limit?	X		
3. If the low standard is above the reporting limit, is a CRI analyzed at the beginning of the run? Does the recovery meet QC limits(80-120%)?	X		
4. Is the midpoint calibration standard reanalyzed immediately after the curve and is it within QC limits of 90-110% (+ 5% for 200.9)?	X		
5. Is the ICV from a second source and is its recovery within QC limits (90-110%)	X		
6. Is the mid-point calibration standard re-analyzed every 10 samples and at the end of the run and are its recoveries within QC limits (90-110%)?	X		
7. Is the CCB analyzed at beginning, after every 10 samples and at end of the run and are its recoveries within QC limits (<2xMDL)?	X		
8. Are the method blank recoveries within QC limits?	X		
9. Are the LCS and ERA recoveries within QC limits (LCS: 80-120% for 7000, 85-115% for 200.9, ERA see COA)?		X	
10. Are matrix dups run at desired frequency (1 per 10 samples or per analytical batch) and are RPD's within QC limits (<20%)?	X		
11. Are matrix spikes run at desired frequency frequency (1 per 10 samples or per analytical batch) and are recoveries within QC limits (80-120%)?	X		
12. Are all samples with concentrations > the highest calibration standard diluted and reanalyzed?	X		
13. Has the serial dilution been analyzed at the required frequency (once per analytical batch) and are results within criterion (+ 10%RPD)?	X		
14. Is the batch post digestion spike within QC limits (85-115%)?	X		
15. Are all sample hold times met?	X		
16. Are all non-conformances included and noted?	X		
17. Is the correct methodology used for sample prep and analysis?	X		
18. Are all calculations checked?	X		
19. Did analyst sign/date appropriate printouts and report sheets?	X		
20. Are all samples located in the correct auto-sampler locations?	X		

Comments on any "No" response:

PD BF62906-BS1, BSD1 high redigest confirms hits from previous dige

PD 06374-12, 06383-07, 08, 12 06405-03,04 use 15X

Analyst: SP Date: 7/1/06 2nd Rvw: SD Date: 7/3/06

Control Number: 30.0022-0602A Page _____

00:

Autosampler Loading List

Sample Information File: 063006YA.SIF
Methods: Pb 2 As 5

Location	Elements	Solution
1	Pb	Sample: BF62902-blk1
2	Pb	Sample: BF62902-bs1
3	Pb	Sample: BF62902-bsd1
4	Pb	~~Sample: BF62902-blk2~~ 0606375-01
5	Pb	~~Sample: 0606375-01~~ BF62902-BLK2
6	Pb	Sample: 0606371-01
7	Pb	Sample: 0606407-01dis
8	Pb	Sample: 0606407-02dis
9	Pb	Sample: 0606407-03dis
10	Pb	Sample: 0606407-01
11	Pb	Sample: 0606407-02
12	Pb	Sample: 0606407-03
13	Pb	Sample: BF62902-dup1
14	Pb	Sample: BF62902-ms1
15	Pb	Sample: BF62902-sd1x5
16	Pb	Sample: 0606382-01
17	Pb	Sample: 0606430-02
18	Pb	Sample: BF62705-blk1
19	As	Sample: 0606374-07X5
20	As	Sample: 0606374-08X5
21	As	Sample: 0606374-09X5
22	As	Sample: 0606374-10X5
23	As	Sample: BF62320-DUP1X5
24	As	Sample: BF62320-MS1X20
25	As	Sample: BF62320-SD1X25
26	As	Sample: 0606374-11X5
27	As	Sample: 0606374-12X5
28	As	Sample: 0606374-13X5
29	As	Sample: 0606374-14X5
30	As	Sample: BF62320-DUP2X5
31	As	Sample: BF62320-MS2X20
32	As	Sample: BF62320-SD2X25
33	As	Sample: 0606374-15X5
34	As	Sample: 0606374-16X5
35	As	Sample: 0606373-20X5
36	As	Sample: 0606373-21X5
37	As	Sample: BF62713-BLK1
38	As	Sample: BF62713-BS1X20
39	As	Sample: BF62713-BSD1X20
40	As	Sample: BF62713-SRM1X50
41	As	Sample: 0606360-01X5
42	As	Sample: BF62617-BLK1
43	As	Sample: BF62617-BS1X20
44	As	Sample: BF62617-BSD1X20
45	As	Sample: BF62617-SRM1X50
46	As	Sample: 0606383-01X5
47	As	Sample: 0606383-02X5
48	As	Sample: 0606383-03X5
49	As	Sample: 0606383-04X5
50	As	Sample: 0606383-05X5
51	As	Sample: 0606383-06X5
52	As	Sample: 0606383-07X5
53	As	Sample: 0606383-08X5
54	As	Sample: 0606383-09X5
55	As	Sample: 0606383-10X5
56	As	Sample: 0606383-11X5
57	As	Sample: BF62617-DUP1X5
58	As	Sample: BF62617-MS1X20
59	As	Sample: BF62617-SD1X25
60	As	Sample: 0606383-12X5
61	As	Sample: 0606383-13X5

62	As	Sample: BF62617-DUP2X5
63	As	Sample: BF62617-MS2X20
64	As	Sample: BF62617-SD2X25
65	As	Sample: 0606383-14X5
66	As	Sample: 0606405-01X5
67	As	Sample: 0606405-02X5
68	As	Sample: 0606405-03X5
69	As	Sample: 0606405-04X5
70	As	Sample: BF62705-BLK1
71	As	Sample: BF62705-BS2
72	As	Sample: BF62705-BSD2
73	As	Sample: 0606428-01
74	As	Sample: 0606430-01
75	As	Sample: 0606430-02
76	As	Sample: BF62705-BLK2
77	As	Sample: 0606429-01DIS
78	As	Sample: 0606429-02DIS
79	As	Sample: 0606429-03DIS
80	As	Sample: 0606429-04DIS
81	As	Sample: 0606429-05DIS
82	As	Sample: 0606430-01DIS
83	As	Sample: 0606430-02DIS
84	As	Sample: BF62705-DUP2
85	As	Sample: BF62705-MS4
86	As	Sample: BF62705-SD2X5
87	Pb	Sample: 0606386-16dir
121	Pb,As	Stock Standard: 5.0 µg/L
124	Pb,As	Stock Standard: 10.0 µg/L
126	Pb,As	Stock Standard: 25.0 µg/L
	Pb,As	STD 3: 25.0000 µg/L
	Pb,As	CCV: 25.0000 µg/L
129	Pb,As	Stock Standard: 50.0 µg/L
131	Pb,As	Recovery Stock: 50.0 µg/L
134	Pb,As	ICV: 25.0000 µg/L
136	Pb,As	CRA 2: 2.0000 µg/L
141	Pb	Standard 0
	Pb	ICB/CCB: 0.0000 µg/L
	Pb	Diluent
146	Pb	Modifier 2
147	As	Modifier 1
148	As	Standard 0
	As	ICB/CCB: 0.0000 µg/L
	As	Diluent

==========

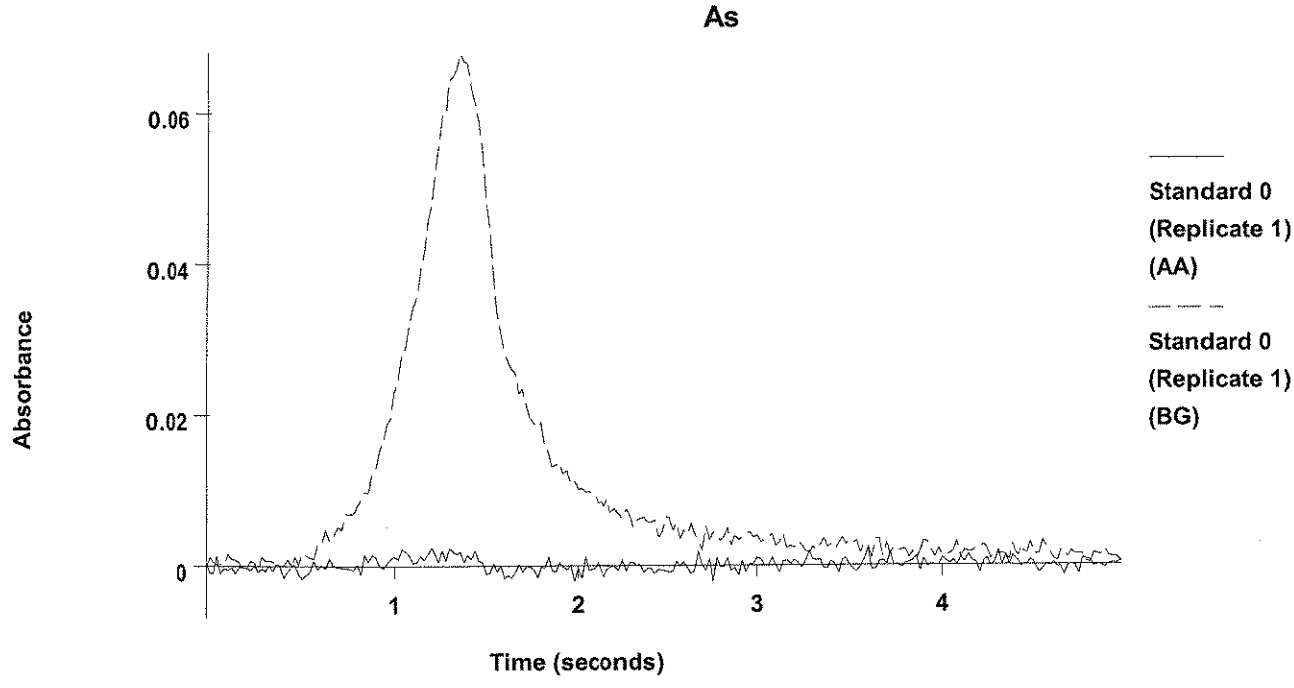
Method Name: As 5
Method Description: As
Element: As

Date: 06/30/2006
Technique:Furnace
Calibration Type:
As, Calc. Intercept : Linear
Wavelength: 193.7 nm
Energy: 100
Slit Width: 0.7
Lamp Current: 350mA
Sample Info Name: 063006YA.SIF Results Data Set Name: 063006yad

==========

Element: As Seq. No.: 39 AS Loc.: 148 Date: 06/30/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0006	0.0006	0.0024	0.0500	0.0680	01:33:44	Yes



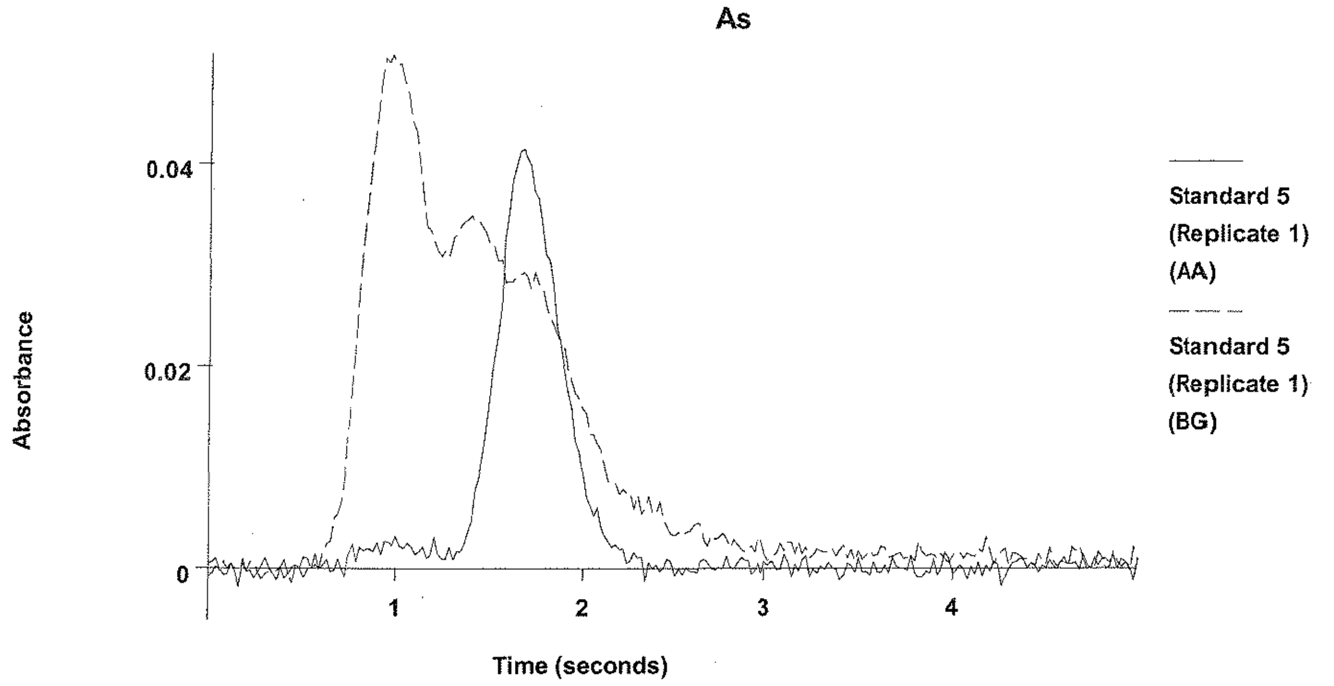
2	0.0010	0.0010	0.0024	0.0417	0.0710	01:36:33	Yes
Mean:	0.0008						
SD :	0.0003						
%RSD:	36.52						

Auto-zero performed.

==========

Element: As Seq. No.: 40 AS Loc.: 121 Date: 06/30/2006
Sample ID: Standard 5
µL dispensed: 10 from 148, 5 from 147, 15 from 121

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0173	0.0181	0.0415	0.0496	0.0508	01:39:48	Yes



2		0.0166	0.0173	0.0407	0.0590	0.0571	01:42:40	Yes
Mean:		0.0169						
SD :		0.0005						
%RSD:		3.01						

[As] Standard number 1 applied. [5.0]

Correlation Coefficient: 1.00000 Slope: 0.00339

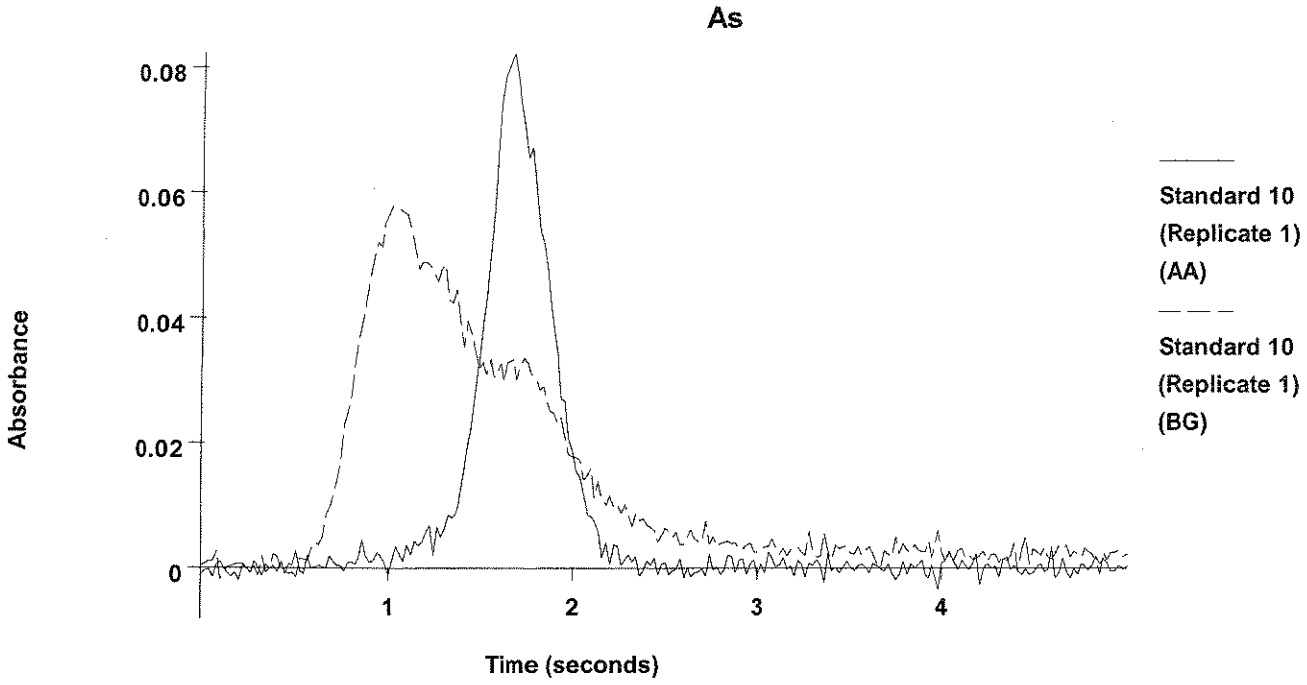
Intercept : 0.00000

Element: As Seq. No.: 41 AS Loc.: 124 Date: 06/30/2006

Sample ID: Standard 10

µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0348	0.0355	0.0823	0.0623	0.0580	01:45:58	Yes



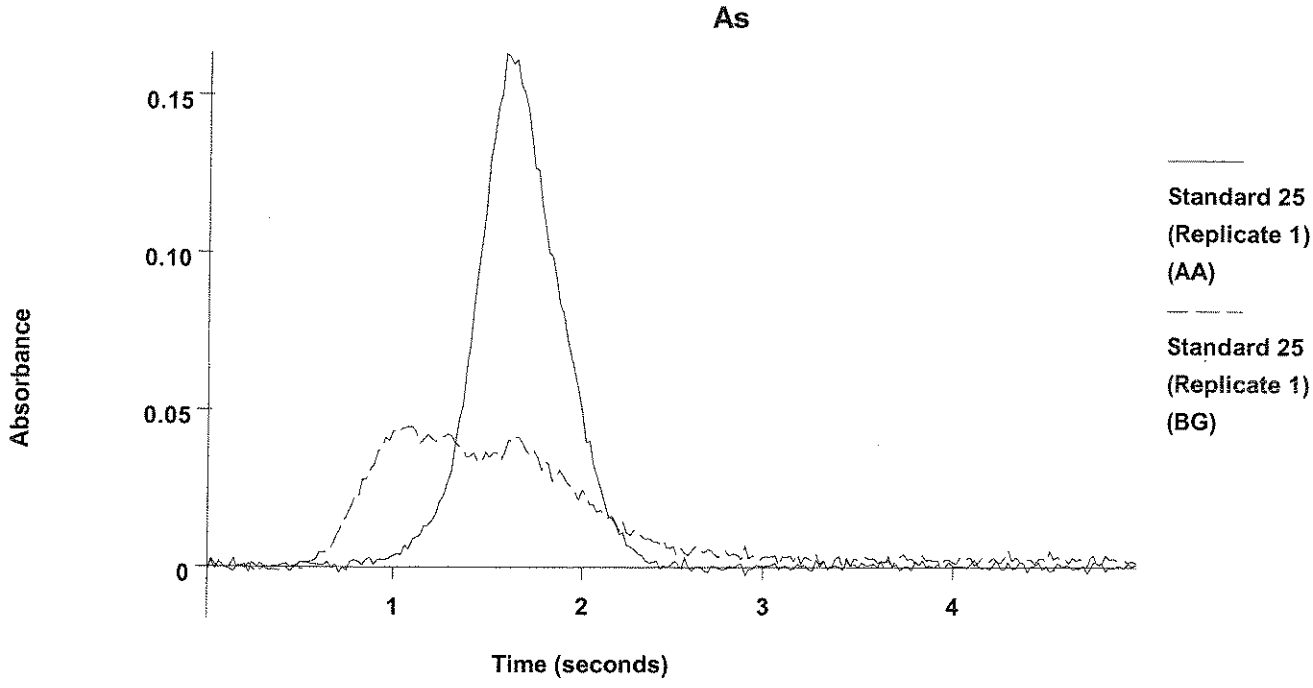
2		0.0339	0.0346	0.0833	0.0631	0.0581	01:48:51 Yes
Mean:		0.0343					
SD :		0.0006					
%RSD:		1.86					

[As] Standard number 2 applied. [10.0]
Correlation Coefficient: 0.99997 Slope: 0.00343
Intercept : -0.00007

==========

Element: As Seq. No.: 42 AS Loc.: 126 Date: 06/30/2006
Sample ID: Standard 25
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0849	0.0857	0.1633	0.0584	0.0447	01:52:10	Yes

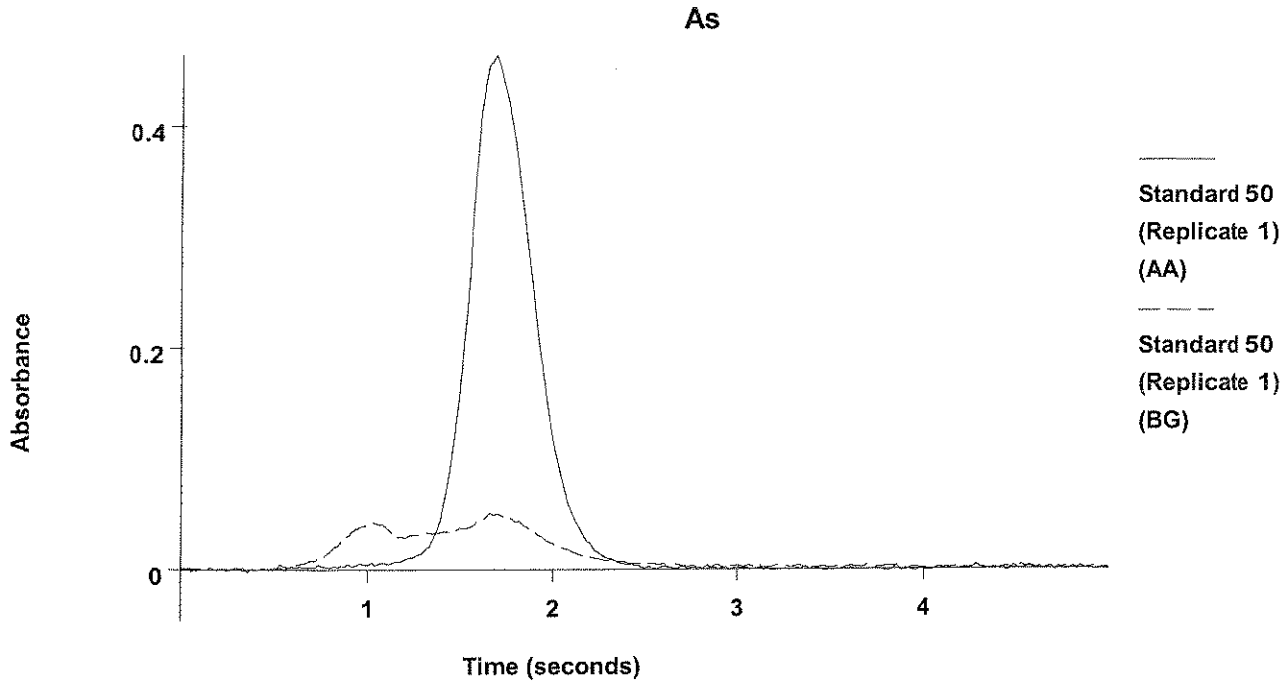


2	0.0869	0.0877	0.1649	0.0613	0.0510	01:55:03	Yes
Mean:	0.0859						
SD :	0.0014						
%RSD:	1.63						

[As] Standard number 3 applied. [25.0]
Correlation Coefficient: 1.00000 Slope: 0.00344
Intercept : -0.00012

Element: As Seq. No.: 43 AS Loc.: 129 Date: 06/30/2006
Sample ID: Standard 50
µL dispensed: 10 from 148, 5 from 147, 15 from 129

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.1920	0.1928	0.4643	0.0565	0.0511	01:58:20	Yes



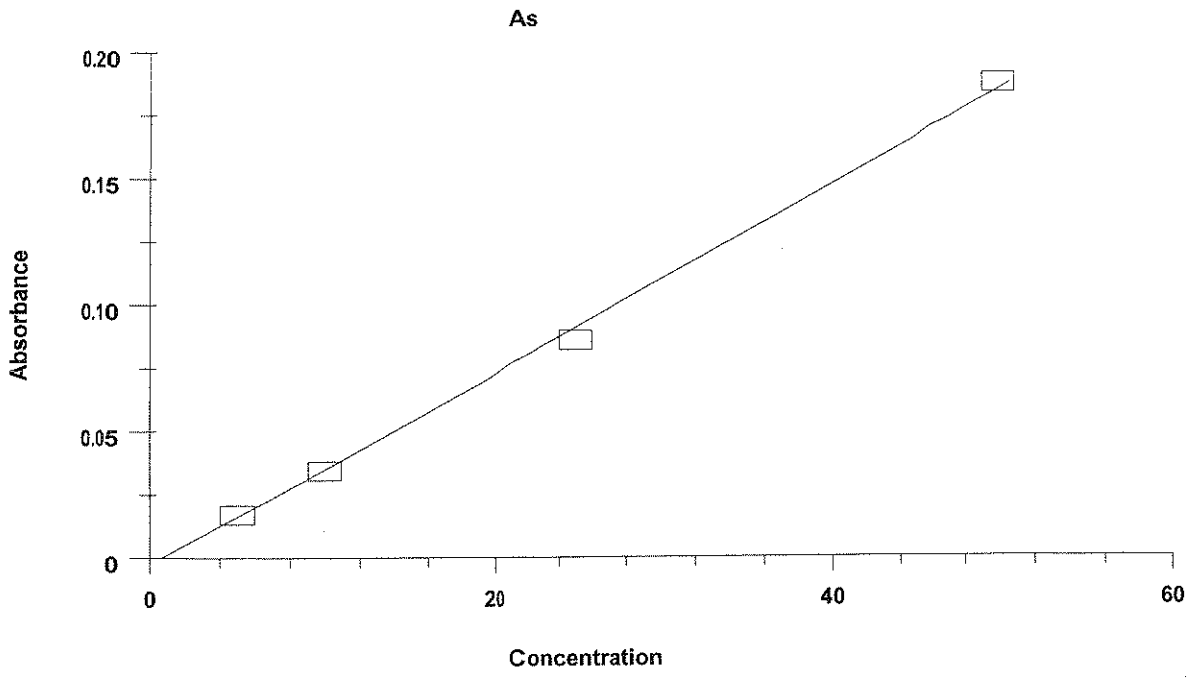
2	0.1819	0.1827	0.4463	0.0523	0.0472	02:01:10 Yes
Mean:	0.1870					
SD :	0.0071					
%RSD:	3.82					

[As] Standard number 4 applied. [50.0]
Correlation Coefficient: 0.99914 Slope: 0.00374
Intercept : -0.00243

Calibration data for As

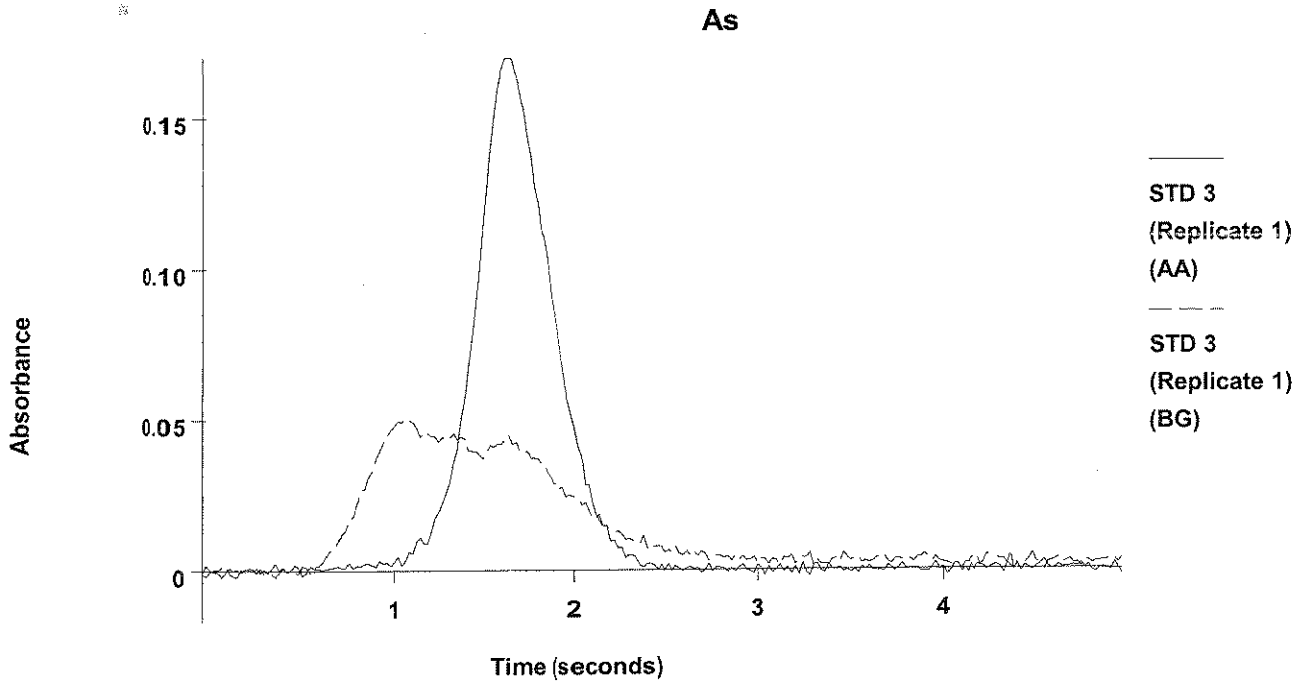
Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0008	-	----	----	----
Standard 5	0.0169	5.0	5.2	0.00	3.01
Standard 10	0.0343	10.0	9.8	0.00	1.86
Standard 25	0.0859	25.0	23.6	0.00	1.63
Standard 50	0.1870	50.0	50.7	0.01	3.82

Correlation Coefficient: 0.99914 Slope: 0.00374 Intercept: -0.0024



Element: As Seq. No.: 44 AS Loc.: 126 Date: 06/30/2006
Sample ID: STD 3
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.5	23.5	0.0855	0.0863	0.1701	0.0640	0.0506	02:04:07	Yes



2	23.7	23.7	0.0861	0.0869	0.1642	0.0665	0.0533	02:06:59	Yes

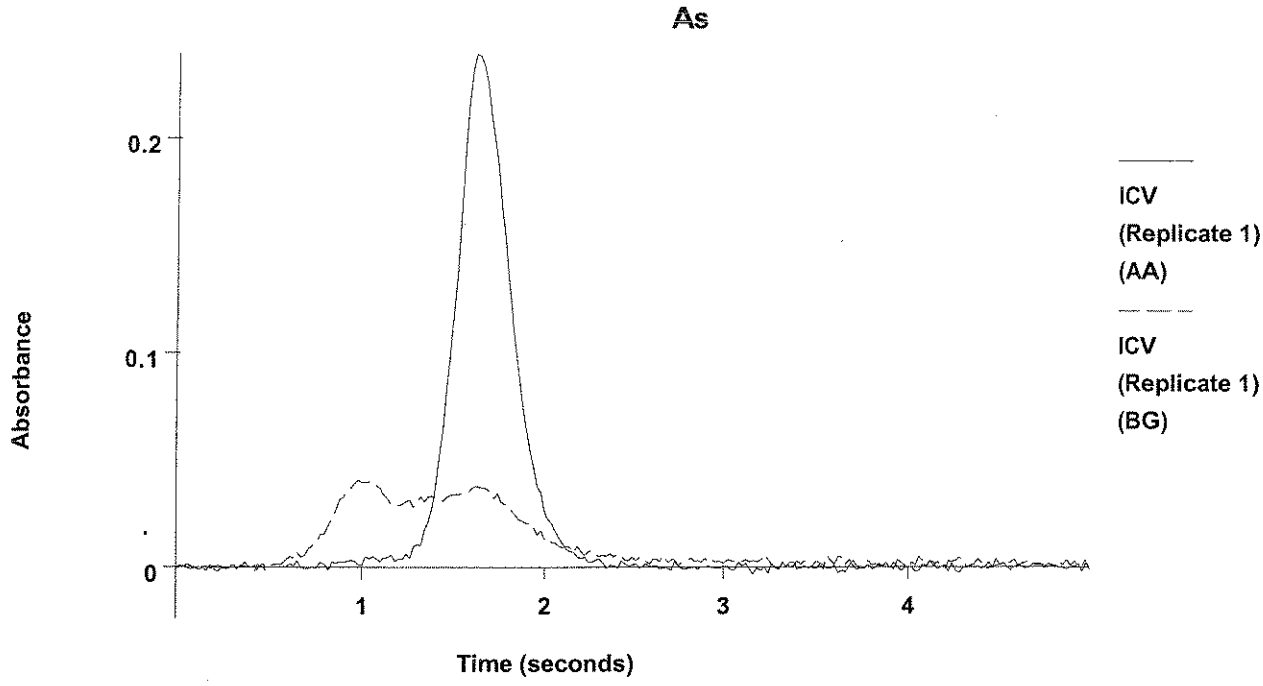
Mean:	23.6	23.6	0.0858
SD :	0.10	0.10	0.0004
%RSD:	0.44	0.44	0.45

QC value within specified limits.

==========

Element: As Seq. No.: 45 AS Loc.: 134 Date: 06/30/2006
Sample ID: ICV
µL dispensed: 10 from 148, 5 from 147, 15 from 134

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.9	23.9	0.0867	0.0875	0.2390	0.0477	0.0406	02:09:50	Yes



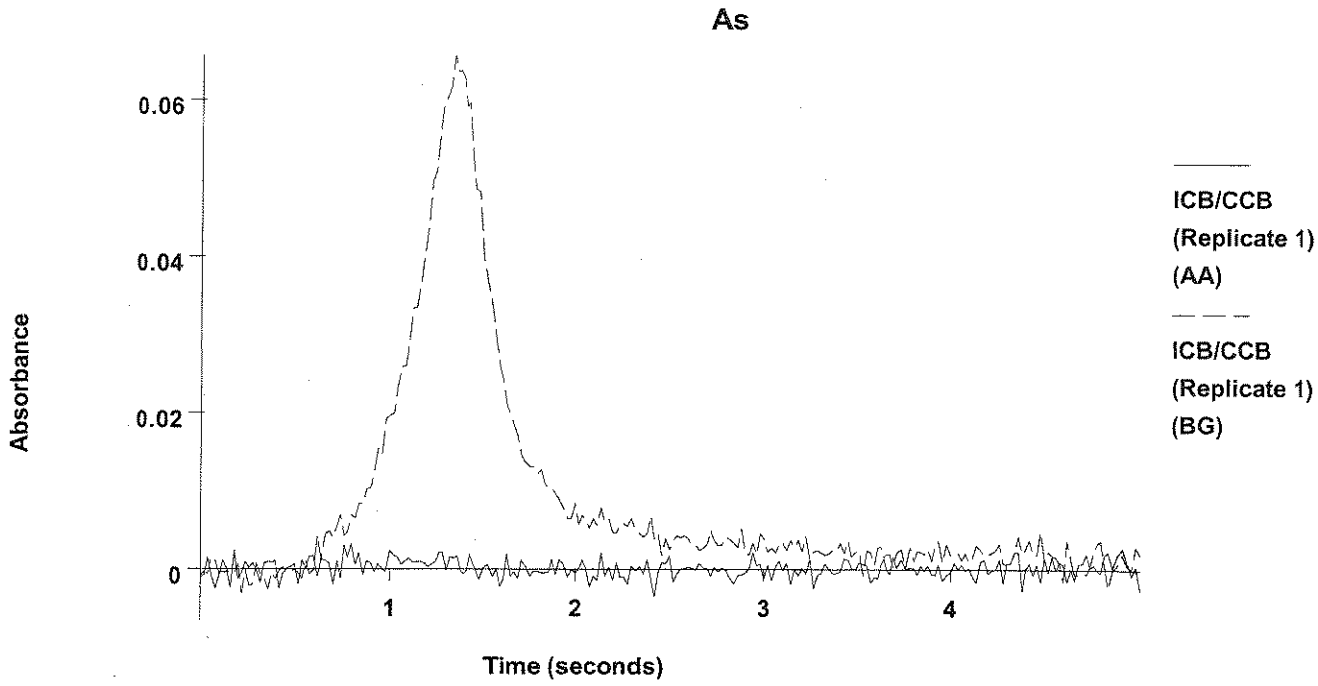
2	24.1	24.1	0.0877	0.0885	0.2135	0.0594	0.0491	02:12:39	Yes
Mean:	24.0	24.0	0.0872						
SD :	0.19	0.19	0.0007						
%RSD:	0.77	0.77	0.80						

QC value within specified limits.

==========

Element: As Seq. No.: 46 AS Loc.: 148 Date: 06/30/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	-0.0001	0.0006	0.0032	0.0433	0.0657	02:15:28	Yes

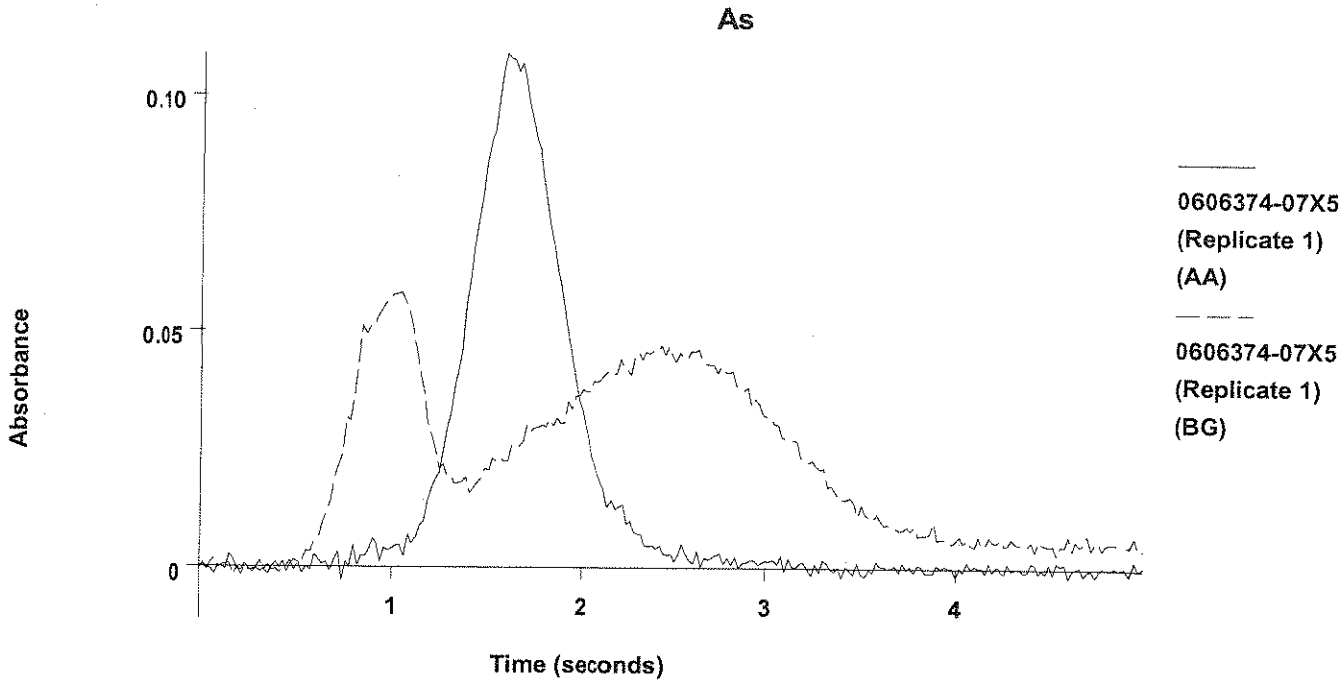


2	0.8	0.8	0.0004	0.0012	0.0042	0.0408	0.0678	02:18:17	Yes
Mean:	0.7	0.7	0.0001						
SD :	0.10	0.10	0.0004						
%RSD:	15.2	15.2	264.01						

QC value within specified limits.

Element: As Seq. No.: 47 AS Loc.: 19 Date: 06/30/2006
Sample ID: 0606374-07X5
µL dispensed: 10 from 148, 5 from 147, 15 from 19

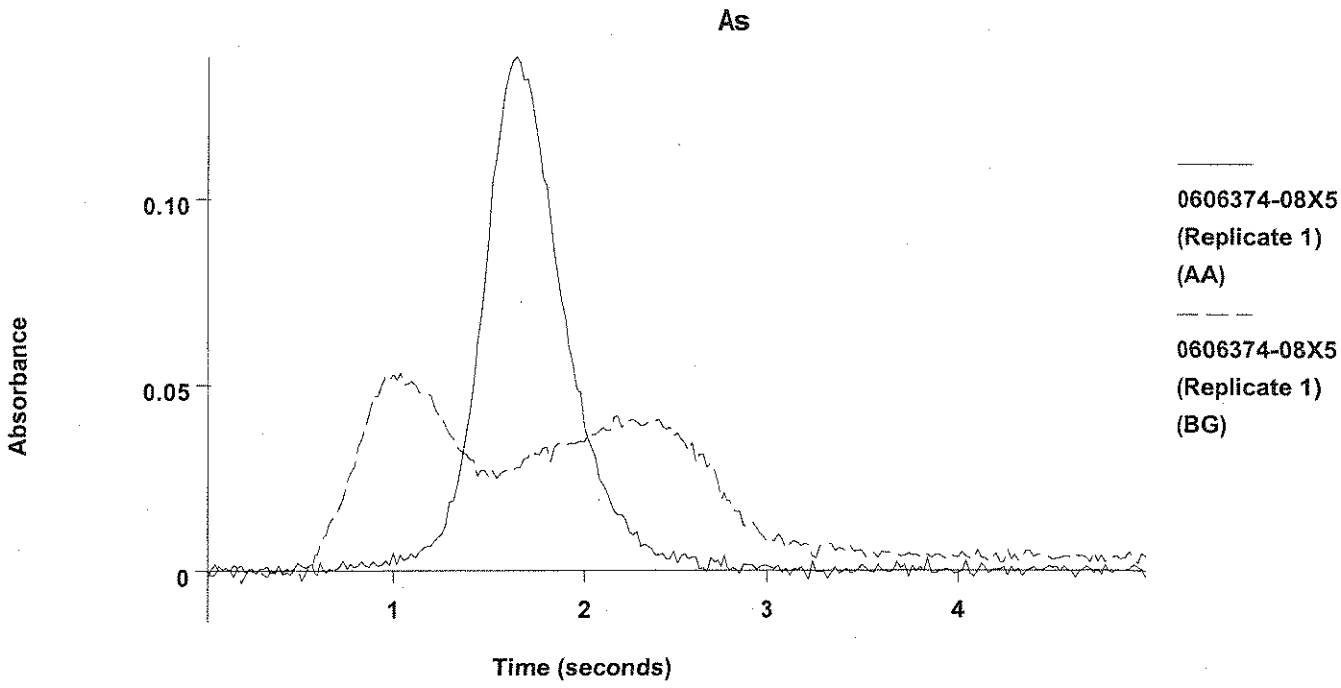
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	17.7	17.7	0.0637	0.0644	0.1089	0.1059	0.0581	02:21:07	Yes



2	18.2	18.2	0.0655	0.0663	0.1115	0.1173	0.0704	02:23:57 Yes
Mean:	17.9	17.9	0.0646					
SD :	0.34	0.34	0.0013					
%RSD:	1.91	1.91	1.98					

Element: As Seq. No.: 48 AS Loc.: 20 Date: 06/30/2006
Sample ID: 0606374-08X5
µL dispensed: 10 from 148, 5 from 147, 15 from 20

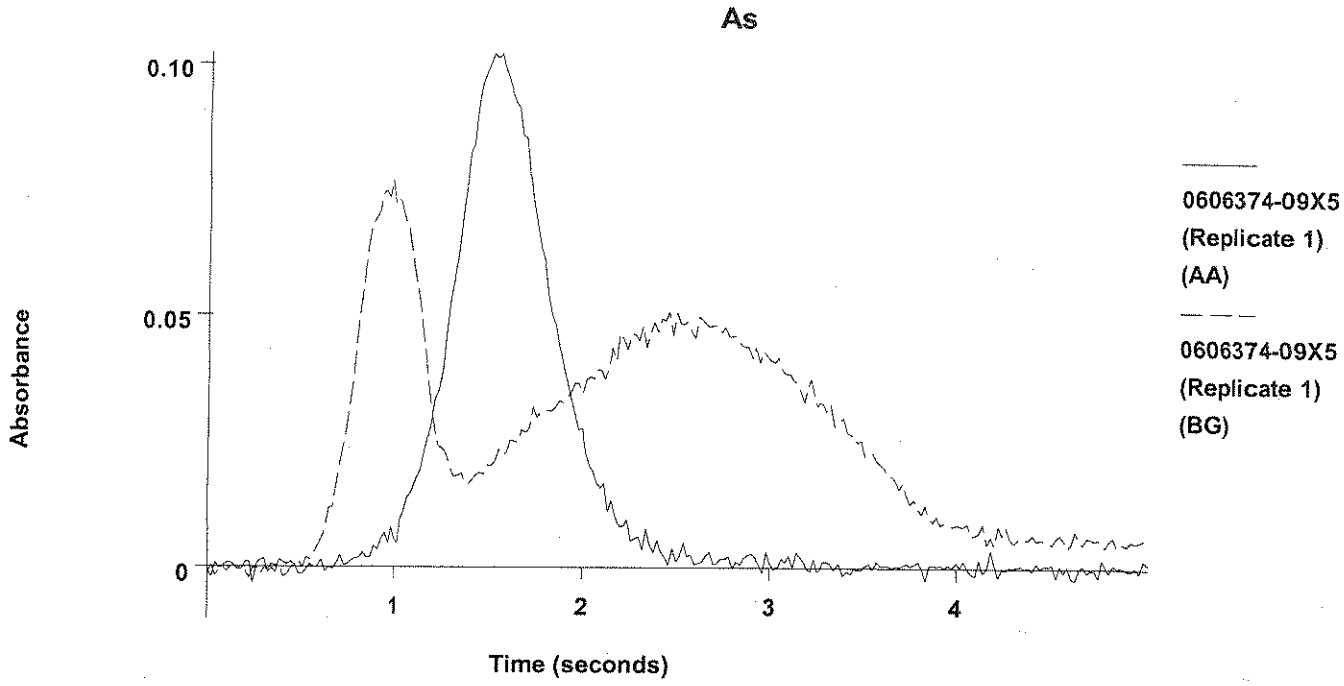
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	19.3	19.3	0.0697	0.0705	0.1381	0.0866	0.0531	02:26:47	Yes



2	19.0	19.0	0.0685	0.0693	0.1201	0.0850	0.0541	02:29:37 Yes
Mean:	19.1	19.1	0.0691					
SD :	0.23	0.23	0.0009					
%RSD:	1.20	1.20	1.25					

Element: As Seq. No.: 49 AS Loc.: 21 Date: 06/30/2006
Sample ID: 0606374-09X5
µL dispensed: 10 from 148, 5 from 147, 15 from 21

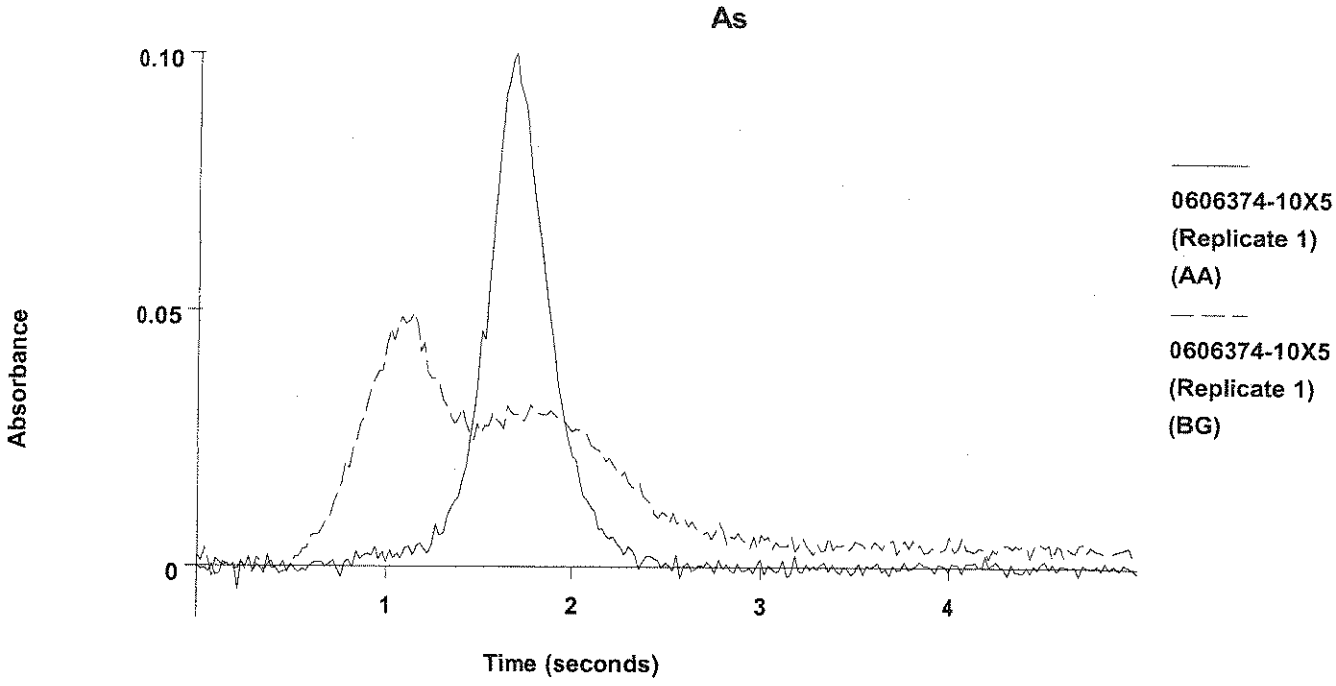
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	17.6	17.6	0.0635	0.0643	0.1020	0.1253	0.0768	02:32:28	Yes



2	17.5	17.5	0.0629	0.0637	0.0931	0.1216	0.0670	02:35:17 Yes
Mean:	17.6	17.6	0.0632					
SD :	0.11	0.11	0.0004					
%RSD:	0.61	0.61	0.63					

Element: As Seq. No.: 50 AS Loc.: 22 Date: 06/30/2006
Sample ID: 0606374-10X5
µL dispensed: 10 from 148, 5 from 147, 15 from 22

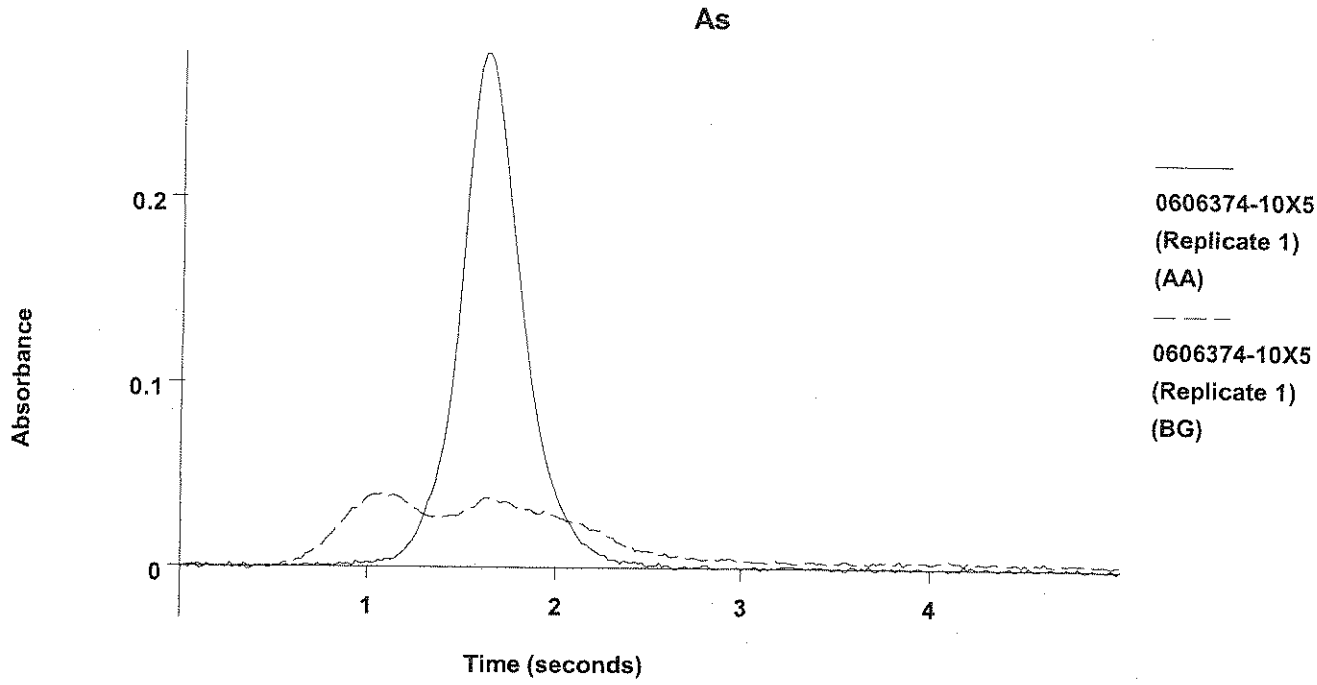
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	11.5	11.5	0.0405	0.0412	0.1002	0.0629	0.0495	02:38:09	Yes



2	11.1	11.1	0.0392	0.0400	0.0927	0.0636	0.0533	02:40:59 Yes
Mean:	11.3	11.3	0.0398					
SD :	0.24	0.24	0.0009					
%RSD:	2.14	2.14	2.27					

Element: As Seq. No.: 51 AS Loc.: 22 Date: 06/30/2006
Sample ID: 0606374-10X5
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 22

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	30.1	30.1	0.1102	0.1110	0.2780	0.0578	0.0397	02:43:57	Yes



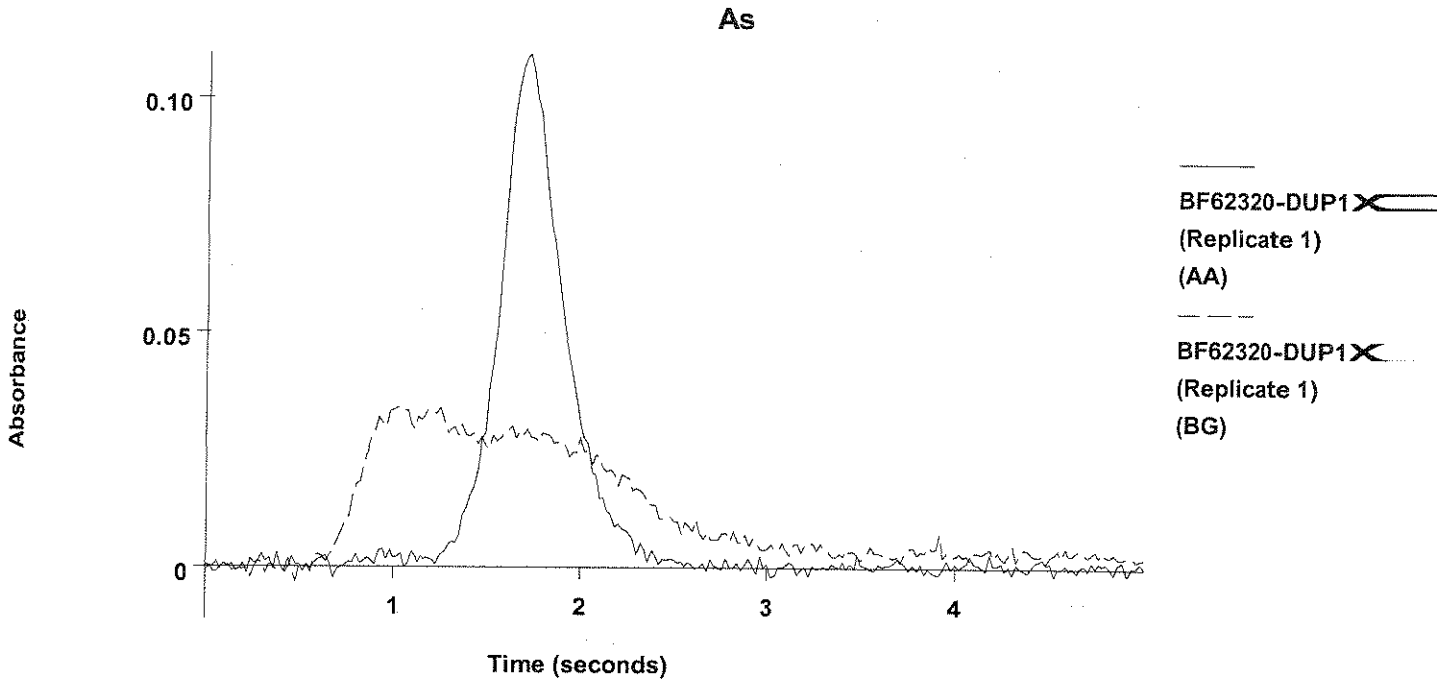
2	31.7	31.7	0.1161	0.1168	0.2574	0.0634	0.0463	02:46:54	Yes
Mean:	30.9	30.9	0.1131						
SD :	1.11	1.11	0.0041						
%RSD:	3.59	3.59	3.67						

Recovery for As = 98.1 % within 85 % to 115 %

==========

Element: As Seq. No.: 52 AS Loc.: 23 Date: 06/30/2006
Sample ID: BF62320-DUP1X5
µL dispensed: 10 from 148, 5 from 147, 15 from 23

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	12.7	12.7	0.0451	0.0458	0.1095	0.0542	0.0338	02:49:44	Yes

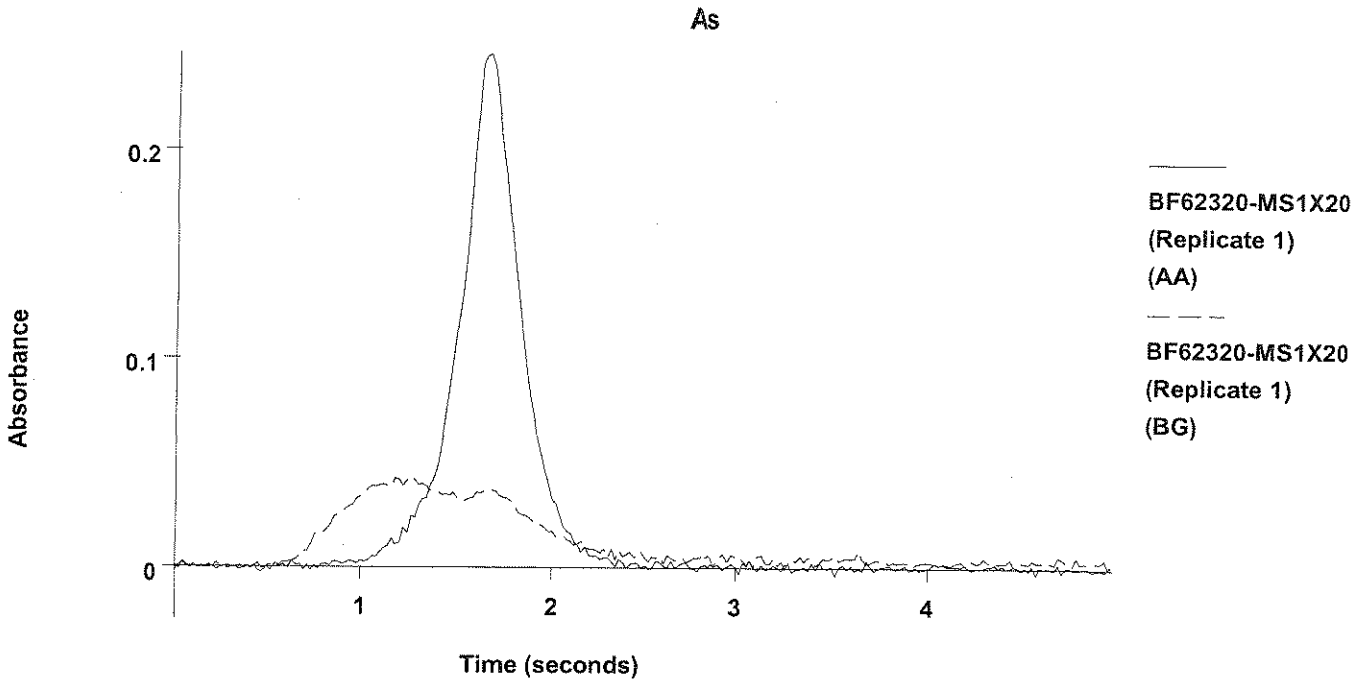


2	12.8	12.8	0.0453	0.0461	0.1060	0.0540	0.0416	02:52:35 Yes
Mean:	12.7	12.7	0.0452					
SD :	0.04	0.04	0.0001					
%RSD:	0.30	0.30	0.32					

$\frac{12.7 - 11.3}{12.0} = 12\%$

Element: As Seq. No.: 53 AS Loc.: 24 Date: 06/30/2006
Sample ID: BF62320-MS1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 24

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	25.8	25.8	0.0942	0.0949	0.2459	0.0538	0.0433	02:55:26	Yes

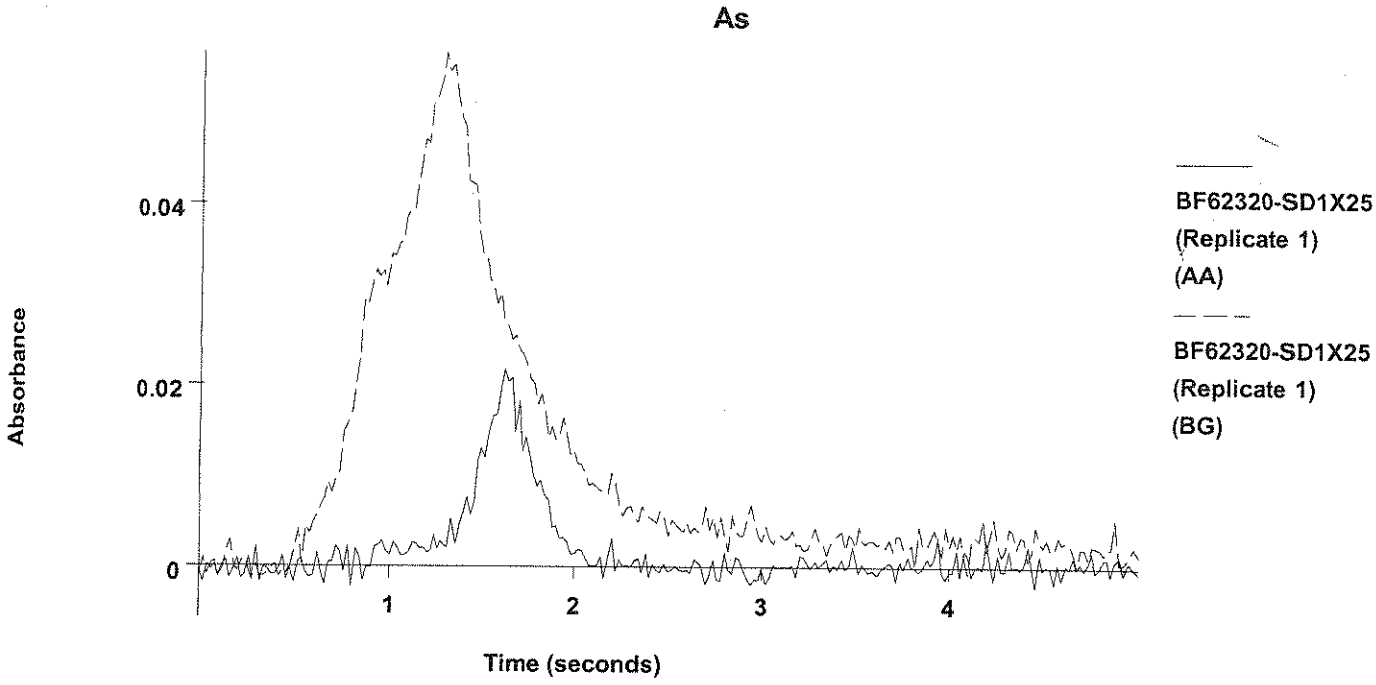


2	26.4	26.4	0.0961	0.0969	0.2463	0.0572	0.0449	02:58:16 Yes
Mean:	26.1	26.1	0.0951					
SD :	0.37	0.37	0.0014					
%RSD:	1.41	1.41	1.44					

$\frac{26.1(20) - 11.35}{500} = 93\%$

Element: As Seq. No.: 54 AS Loc.: 25 Date: 06/30/2006
Sample ID: BF62320-SD1X25
µL dispensed: 10 from 148, 5 from 147, 15 from 25

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.6	2.6	0.0072	0.0079	0.0217	0.0527	0.0566	03:01:06	Yes

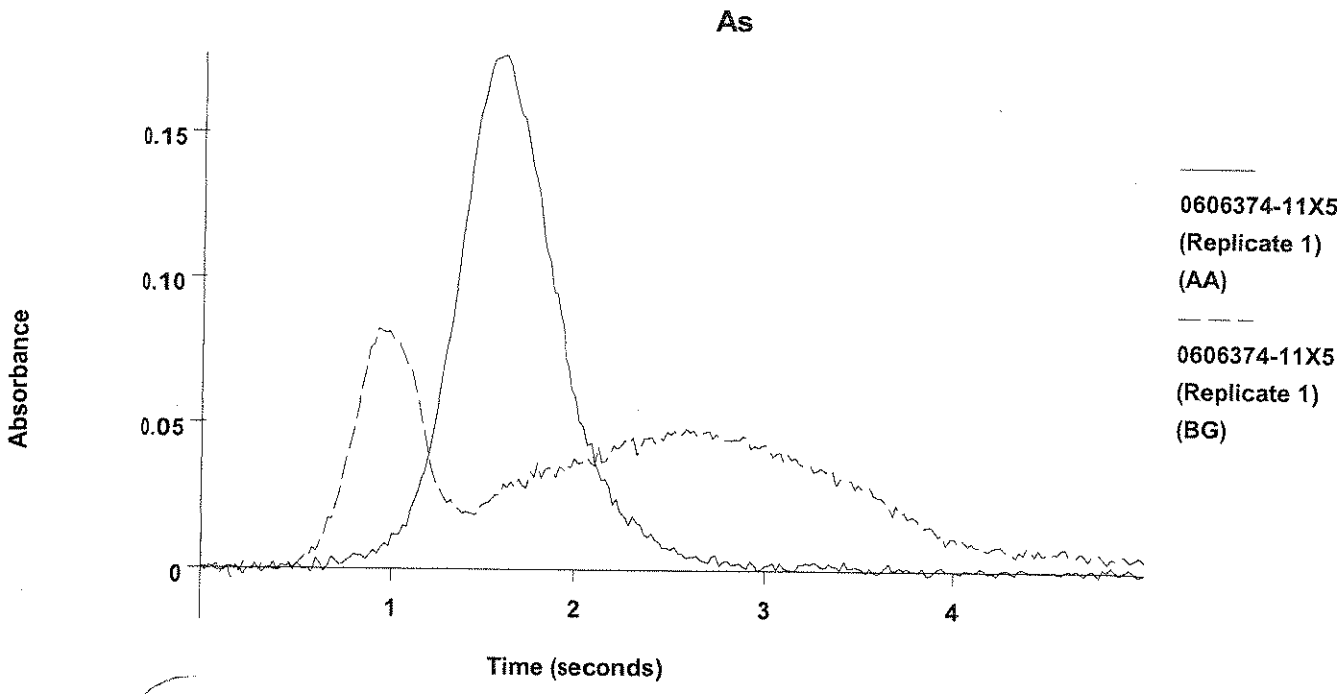


2	2.6	2.6	0.0072	0.0079	0.0232	0.0454	0.0540	03:03:57	Yes
Mean:	2.6	2.6	0.0072						
SD :	0.00	0.00	0.0000						
%RSD:	0.10	0.10	0.13						

D

Element: As Seq. No.: 55 AS Loc.: 26 Date: 06/30/2006
Sample ID: 0606374-11X5
µL dispensed: 10 from 148, 5 from 147, 15 from 26

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	31.7	31.7	0.1160	0.1167	0.1766	0.1329	0.0824	03:06:47	Yes

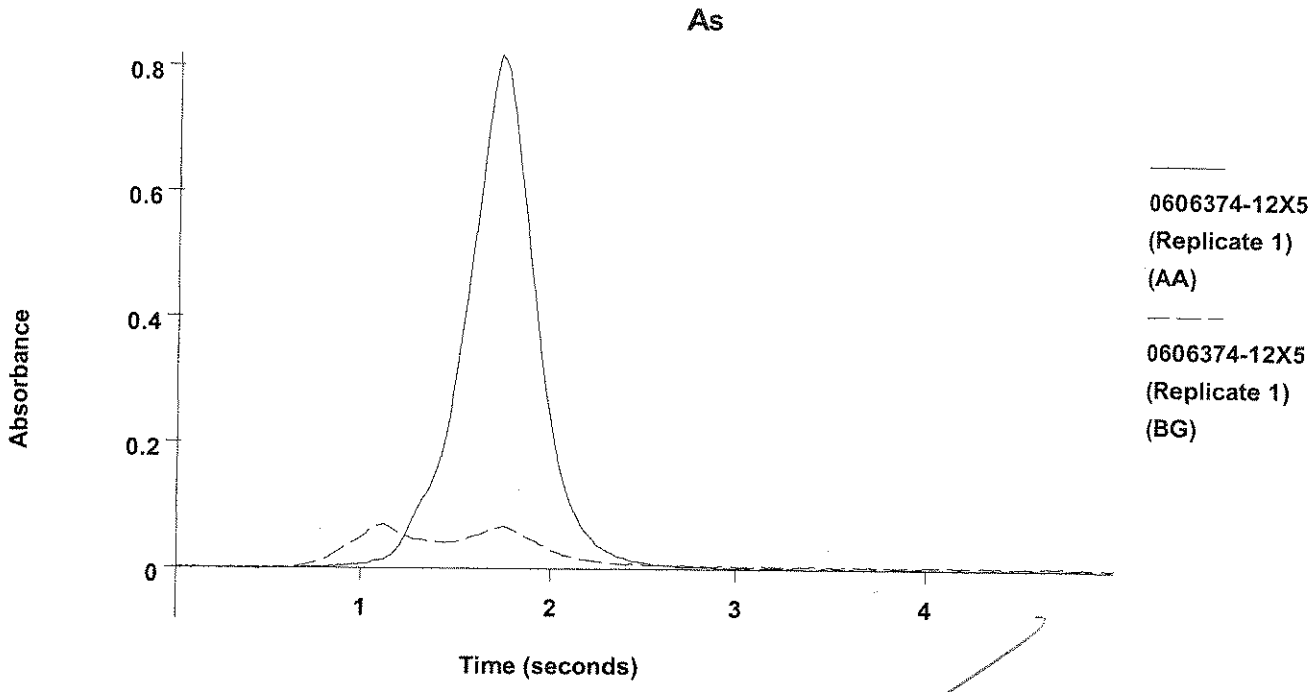


2	30.4	30.4	0.1111	0.1119	0.1632	0.1258	0.0755	03:09:36 Yes
Mean:	31.0	31.0	0.1135					
SD :	0.92	0.92	0.0034					
%RSD:	2.95	2.95	3.01					

==========

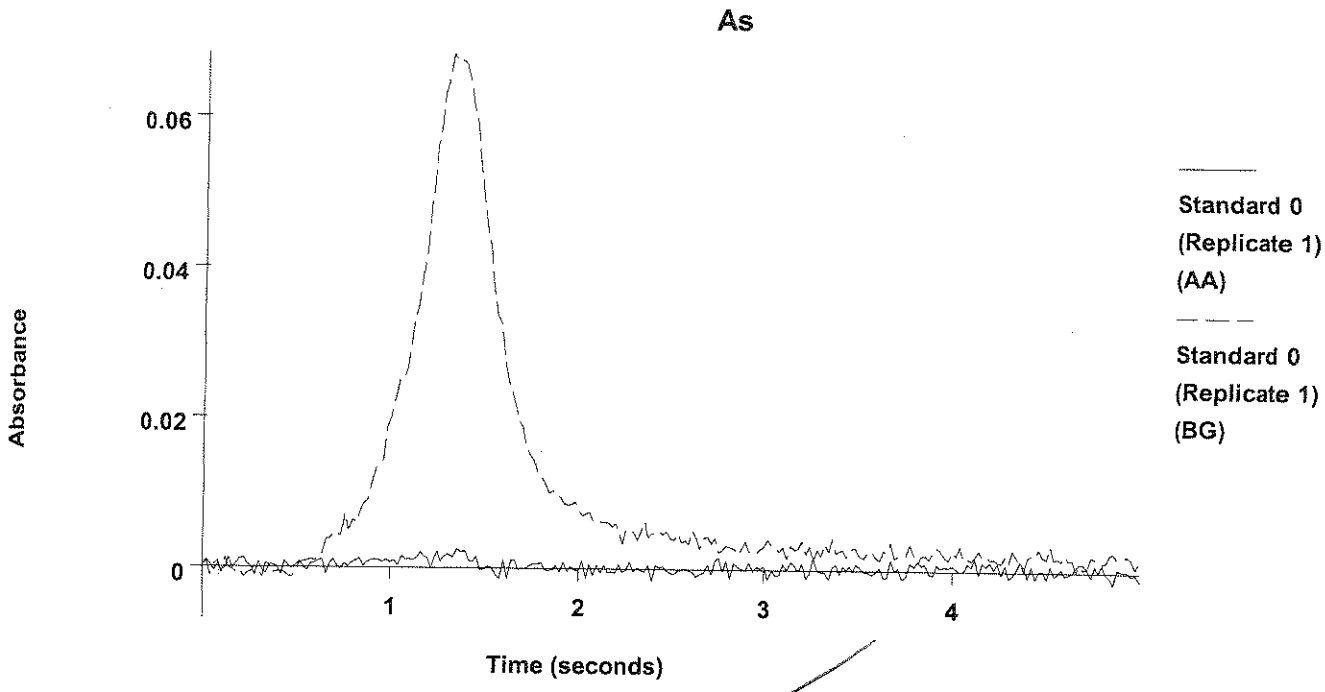
Element: As Seq. No.: 56 AS Loc.: 27 Date: 06/30/2006
Sample ID: 0606374-12X5
µL dispensed: 10 from 148, 5 from 147, 15 from 27

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	97.6	97.6	0.3621	0.3629	0.8184	0.0771	0.0698	03:12:26	Yes




```
Sample absorbance is greater than that of the highest standard.
 2          98.5       98.5     0.3655    0.3663    0.8484    0.0769    0.0693  03:15:16 Yes
Sample absorbance is greater than that of the highest standard.
Mean:       98.0       98.0     0.3638
SD  :        0.64       0.64    0.0024
%RSD:        0.66       0.66       0.66
Sample absorbance is greater than that of the highest standard.
Result for As is greater than 100 percent of calibration range.

================================================================================
Element: As     Seq. No.: 57        AS Loc.: 148    Date: 06/30/2006
Sample ID: Standard 0
µL dispensed:  10 from 148, 5 from 147, 15 from 148
--------------------------------------------------------------------------------
Repl    SampleConc  StndConc    BlnkCorr  Peak      Peak      Bkgnd     Bkgnd    Time     Peak
 #      µg/L        µg/L        Signal    Area      Height    Area      Height             Stored
 1                              0.0014    0.0014    0.0025    0.0452    0.0683  03:18:06 Yes
```

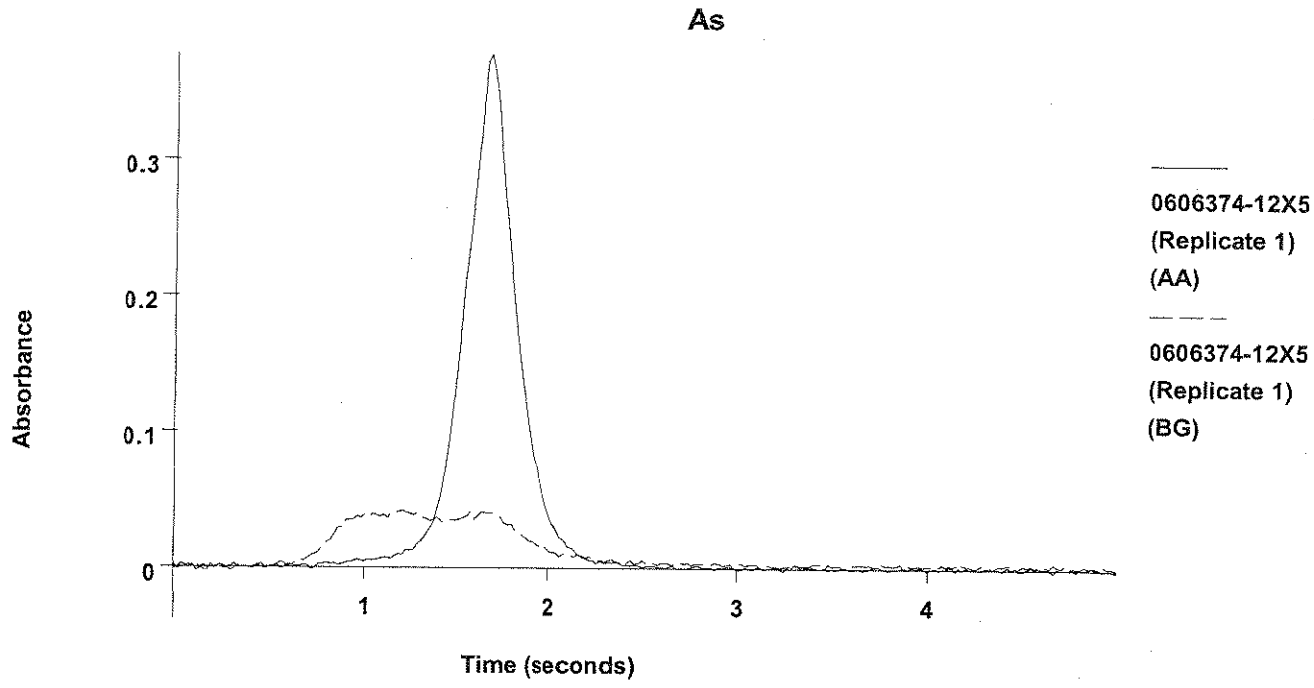


2	0.0023	0.0023	0.0042	0.0439	0.0699	03:20:57	Yes
Mean:	0.0019						
SD :	0.0006						
%RSD:	33.84						

Auto-zero performed.

Element: As Seq. No.: 58 AS Loc.: 27 Date: 06/30/2006
Sample ID: 0606374-12X5
µL dispensed: 20 from 148, 5 from 147, 5 from 27

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	103	34.3	0.1259	0.1277	0.3776	0.0514	0.0422	03:23:47	Yes

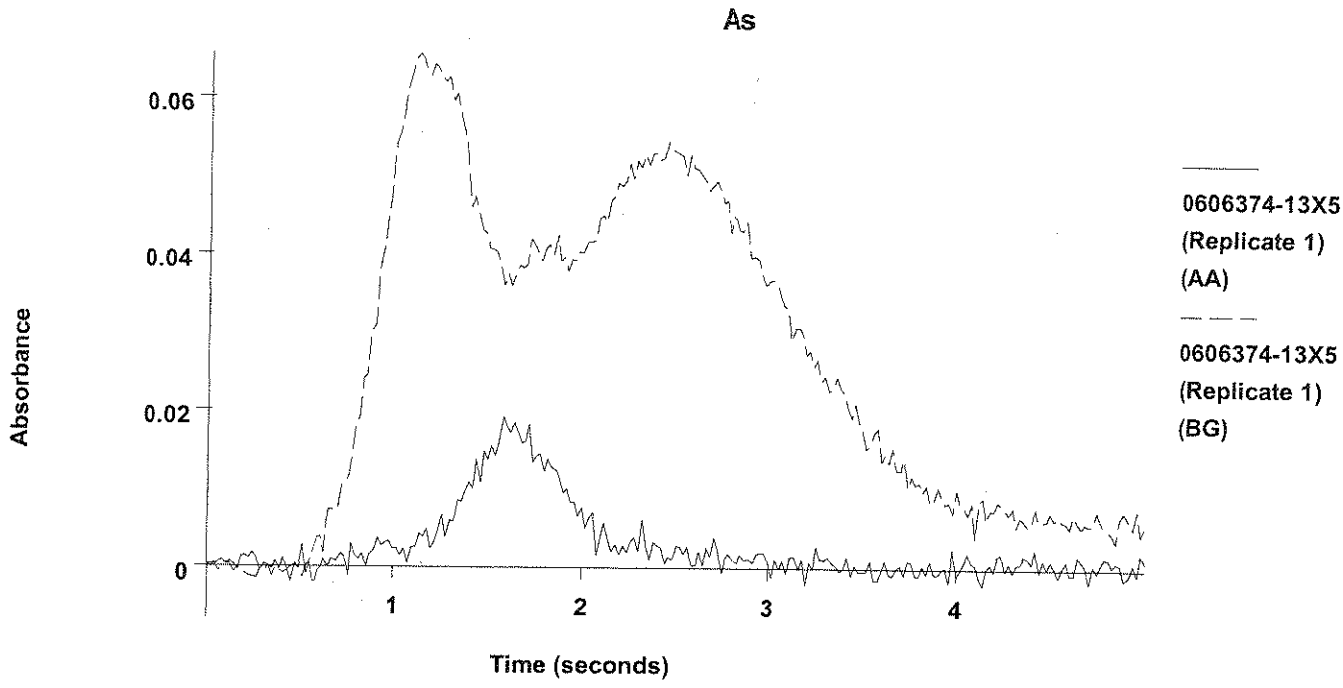


2	103	34.2	0.1254	0.1273	0.3865	0.0512	0.0459	03:26:38 Yes
Mean:	103	34.3	0.1257					
SD :	0.26	0.09	0.0003					
%RSD:	0.25	0.25	0.25					

1SX

Element: As Seq. No.: 59 AS Loc.: 28 Date: 06/30/2006
Sample ID: 0606374-13X5
µL dispensed: 10 from 148, 5 from 147, 15 from 28

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.1	4.1	0.0128	0.0136	0.0192	0.1300	0.0656	03:29:27	Yes

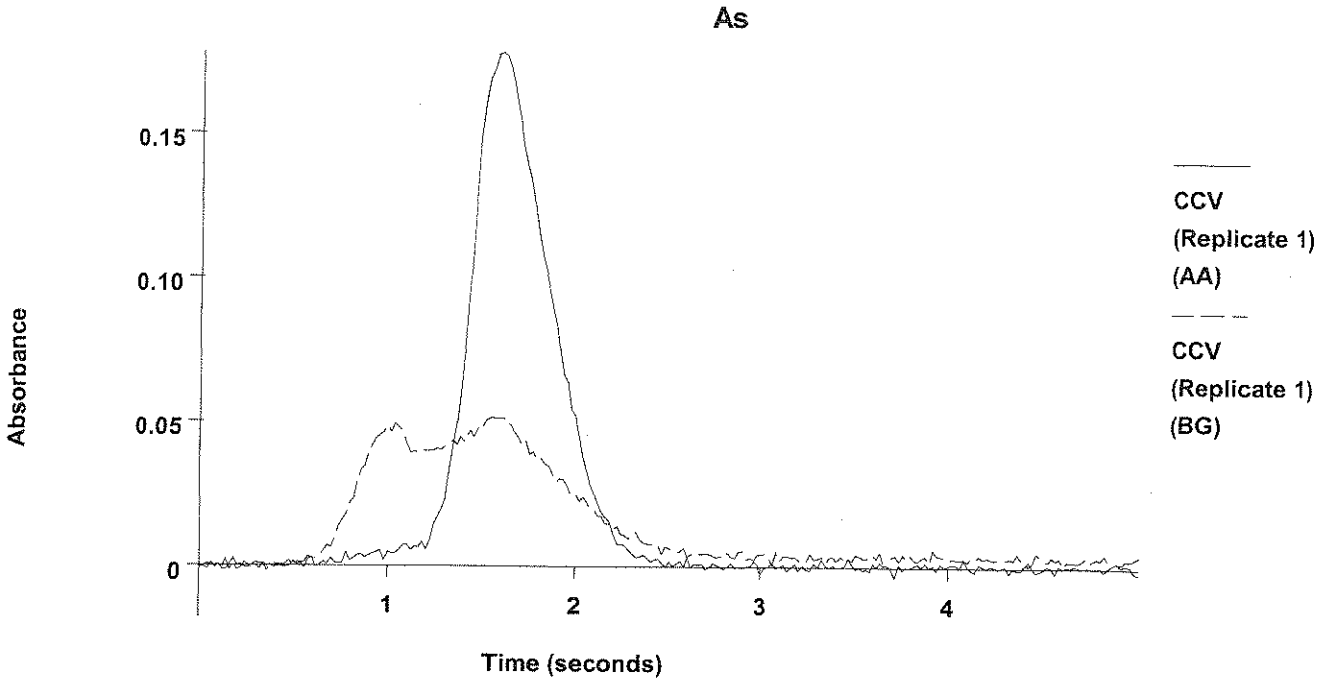


2	3.9	3.9	0.0121	0.0128	0.0171	0.1315	0.0747	03:32:16	Yes
Mean:	4.0	4.0	0.0124						
SD :	0.15	0.15	0.0005						
%RSD:	3.70	3.70	4.42						

D

Element: As Seq. No.: 60 AS Loc.: 126 Date: 06/30/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.4	24.4	0.0889	0.0908	0.1779	0.0661	0.0515	03:35:07	Yes



2	23.8	23.8	0.0864	0.0882	0.1689	0.0724	0.0525	03:38:00	Yes
Mean:	24.1	24.1	0.0876						
SD :	0.48	0.48	0.0018						
%RSD:	1.98	1.98	2.03						

QC value within specified limits.

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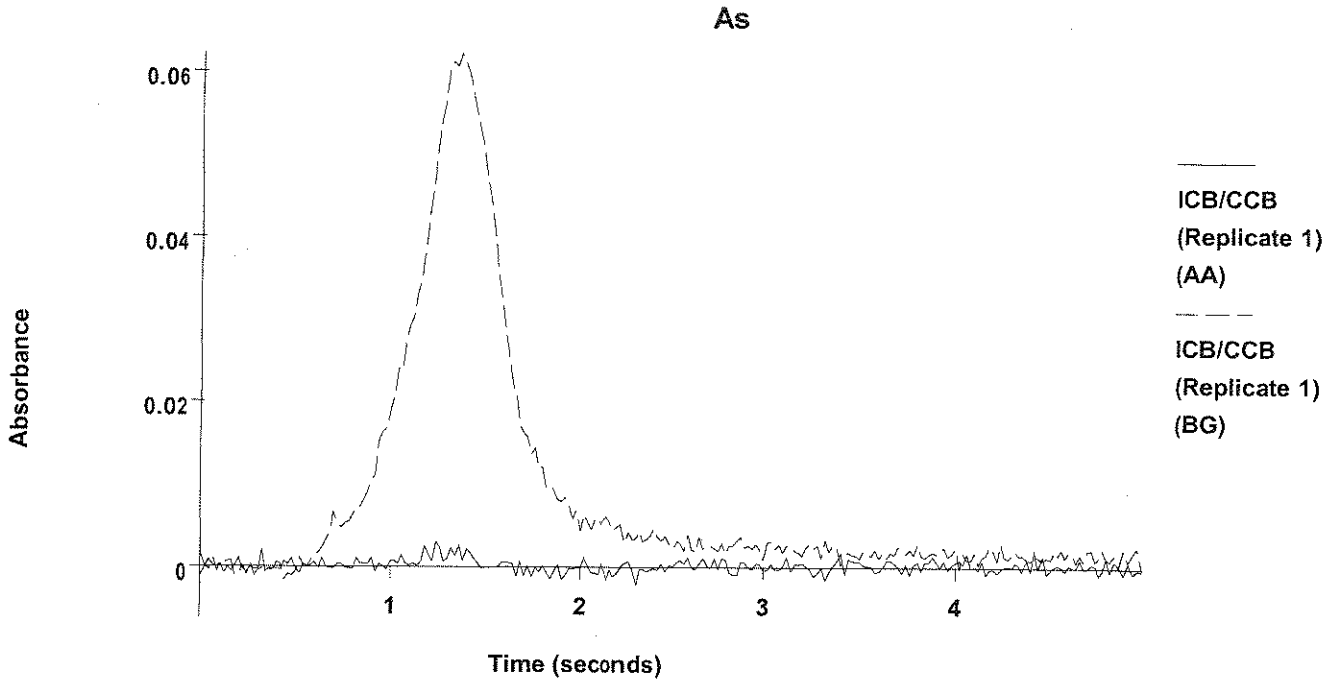
Element: As Seq. No.: 61 AS Loc.: 148 Date: 06/30/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	-0.0010	0.0008	0.0030	0.0414	0.0622	03:40:51	Yes

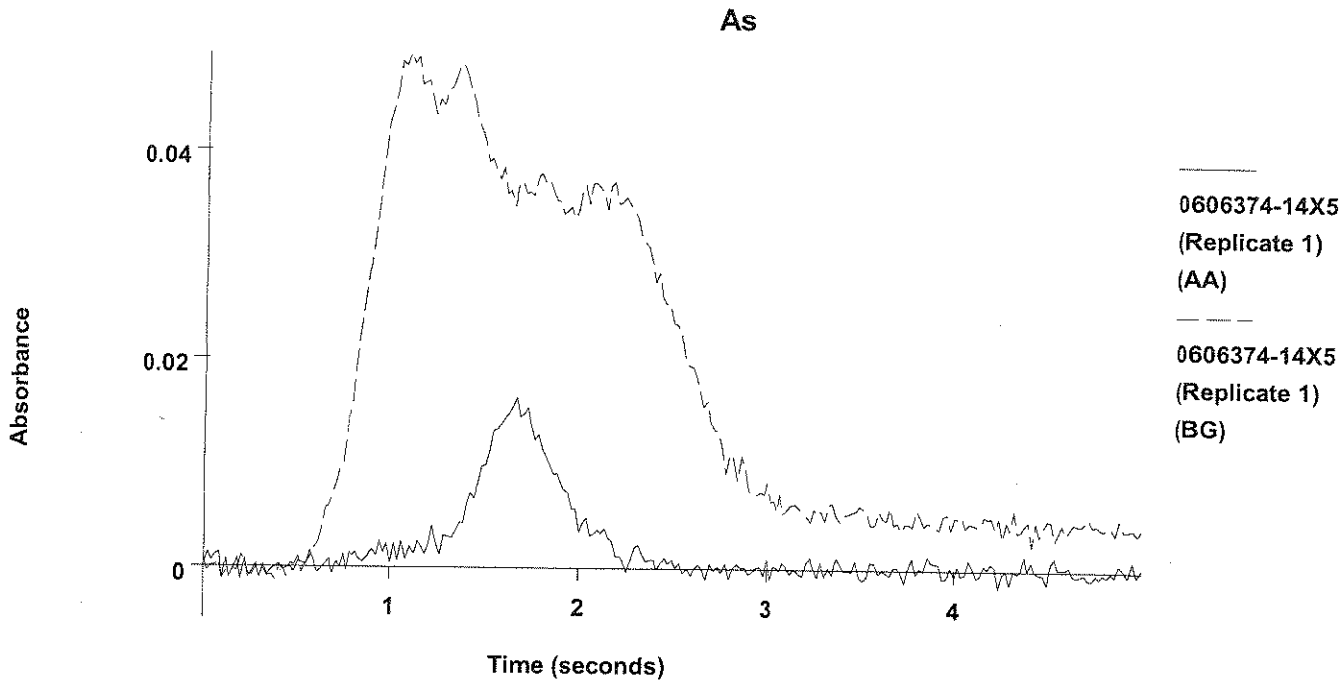


2	0.6	0.6	-0.0001	0.0018	0.0046	0.0451	0.0671	03:43:40 Yes
Mean:	0.5	0.5	-0.0006					
SD :	0.18	0.18	0.0007					
%RSD:	36.2	36.2	123.57					

QC value within specified limits.

Element: As Seq. No.: 62 AS Loc.: 29 Date: 06/30/2006
Sample ID: 0606374-14X5
µL dispensed: 10 from 148, 5 from 147, 15 from 29

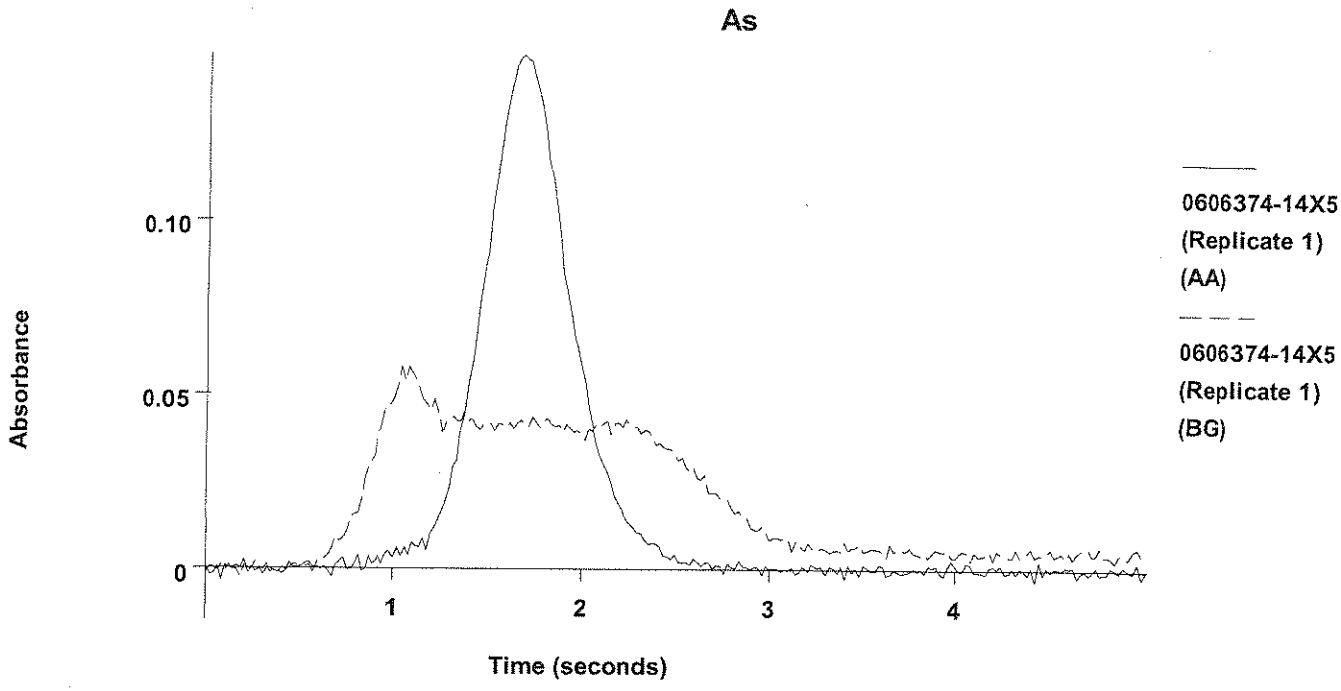
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.8	2.8	0.0081	0.0088	0.0163	0.0815	0.0493	03:46:29	Yes



2	3.1	3.1	0.0090	0.0098	0.0169	0.0883	0.0552	03:49:19	Yes
Mean:	2.9	2.9	0.0085						
SD :	0.18	0.18	0.0007						
%RSD:	6.07	6.07	7.80						

Element: As Seq. No.: 63 AS Loc.: 29 Date: 06/30/2006
Sample ID: 0606374-14X5
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 29

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	22.3	22.3	0.0810	0.0818	0.1476	0.0930	0.0580	03:52:17	Yes

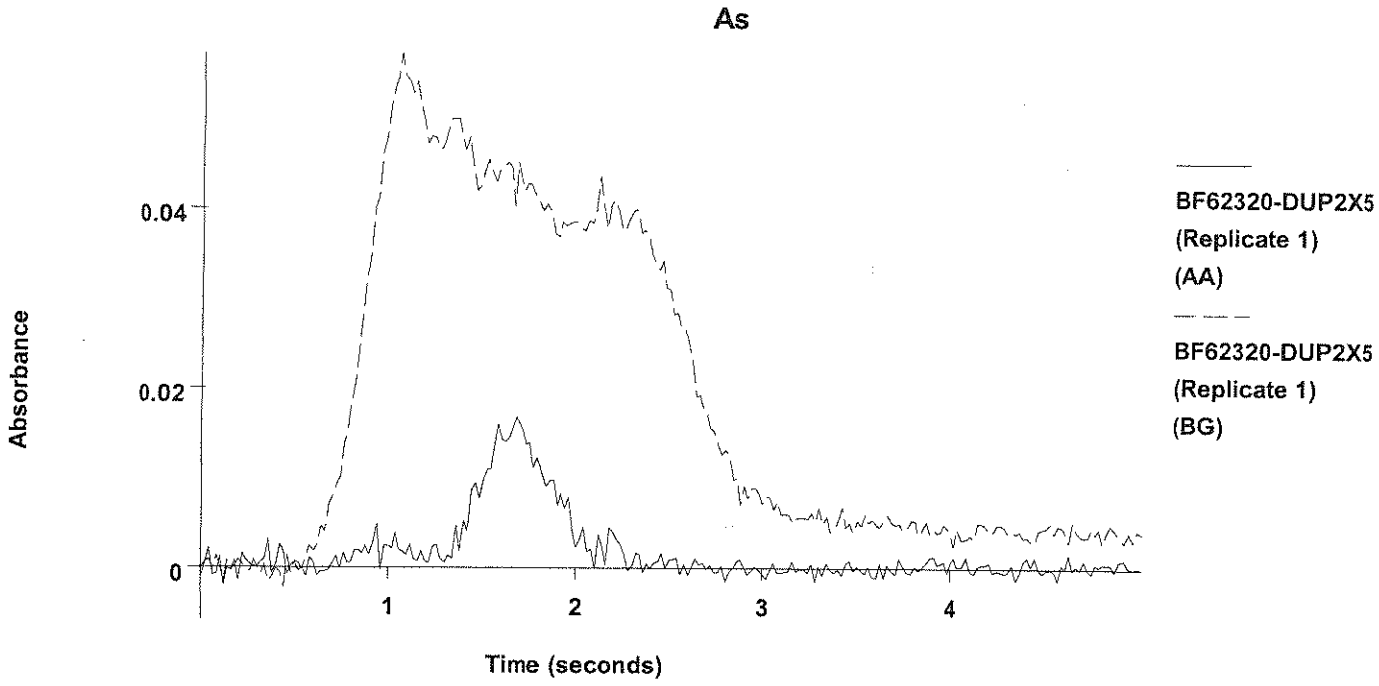


2	22.8	22.8	0.0826	0.0834	0.1534	0.0907	0.0550	03:55:14 Yes
Mean:	22.5	22.5	0.0818					
SD :	0.29	0.29	0.0011					
%RSD:	1.30	1.30	1.34					

Recovery for As = 98.1 % within 85 % to 115 %

Element: As Seq. No.: 64 AS Loc.: 30 Date: 06/30/2006
Sample ID: BF62320-DUP2X5
µL dispensed: 10 from 148, 5 from 147, 15 from 30

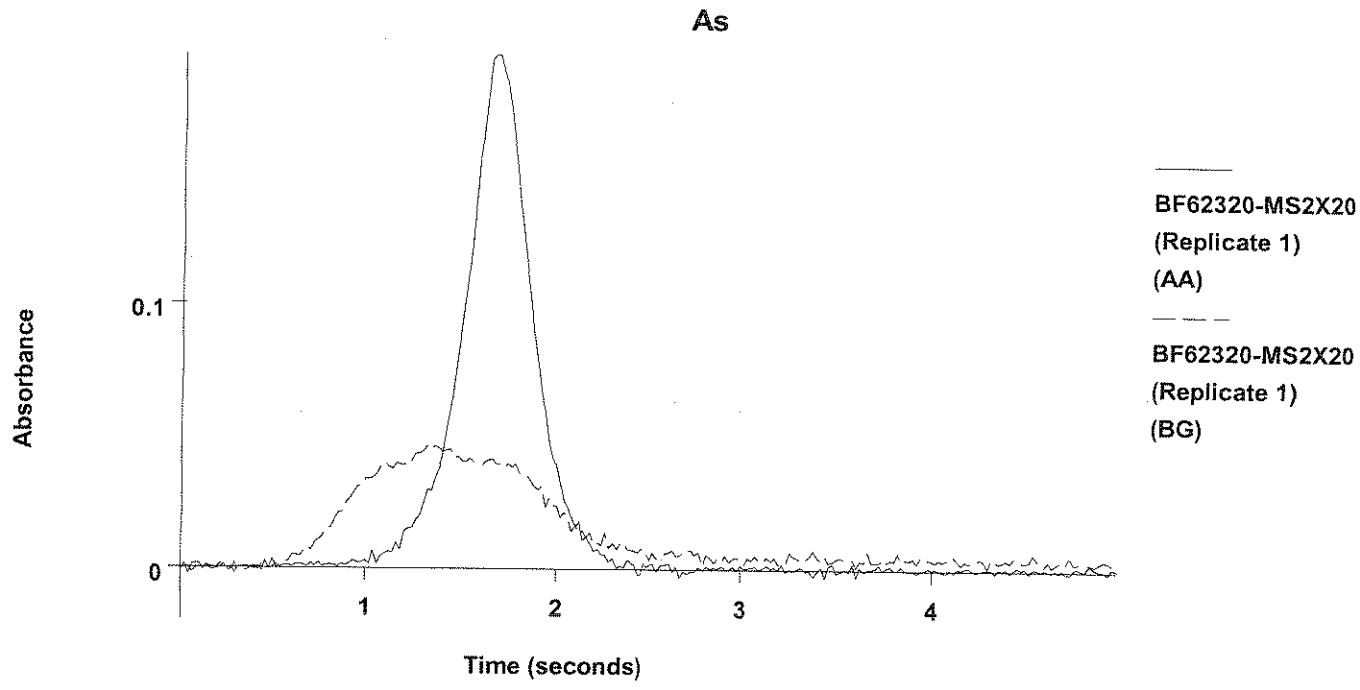
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.8	2.8	0.0081	0.0089	0.0168	0.0905	0.0572	03:58:04	Yes



2	2.7	2.7	0.0078	0.0086	0.0155	0.0860	0.0497	04:00:54	Yes
Mean:	2.8	2.8	0.0080						
SD :	0.05	0.05	0.0002						
%RSD:	1.88	1.88	2.45						

Element: As Seq. No.: 65 AS Loc.: 31 Date: 06/30/2006
Sample ID: BF62320-MS2X20
µL dispensed: 10 from 148, 5 from 147, 15 from 31

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	22.9	22.9	0.0830	0.0837	0.1945	0.0605	0.0463	04:03:43	Yes

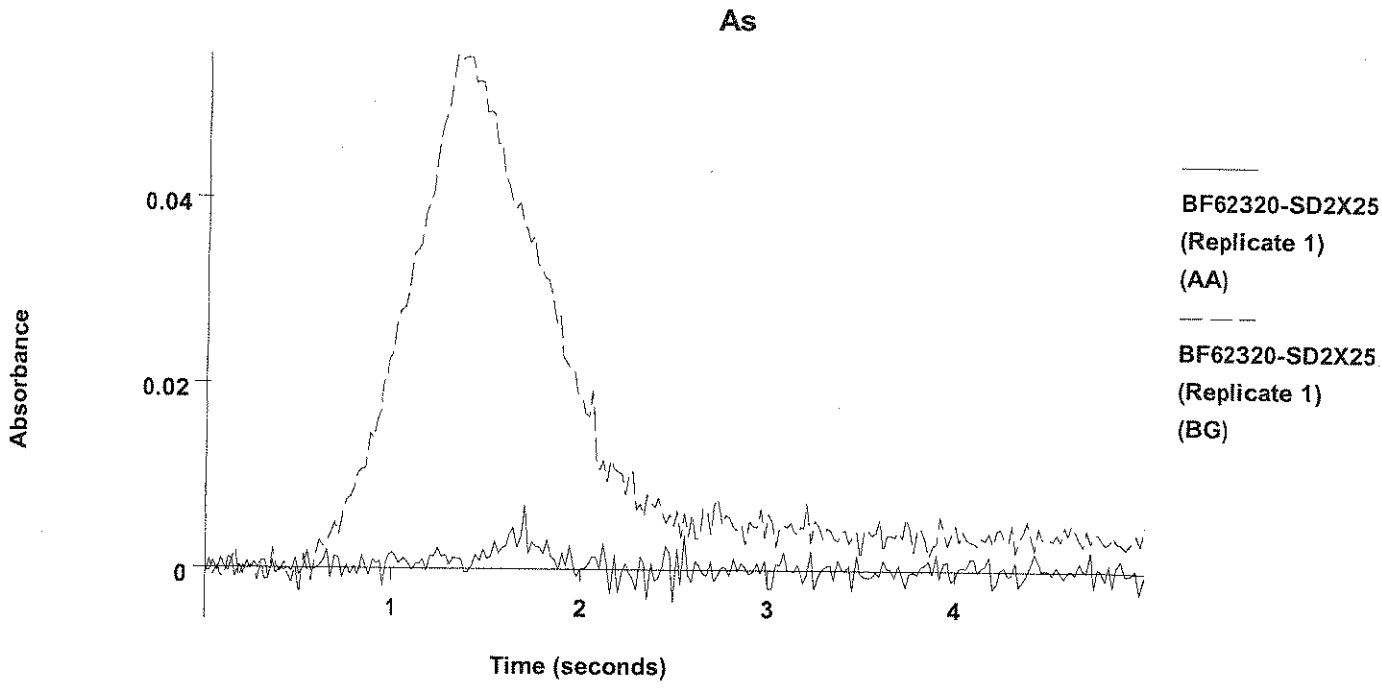


2	22.4	22.4	0.0814	0.0821	0.1994	0.0594	0.0454	04:06:33	Yes
Mean:	22.6	22.6	0.0822						
SD :	0.30	0.30	0.0011						
%RSD:	1.33	1.33	1.37						

905

Element: As Seq. No.: 66 AS Loc.: 32 Date: 06/30/2006
Sample ID: BF62320-SD2X25
µL dispensed: 10 from 148, 5 from 147, 15 from 32

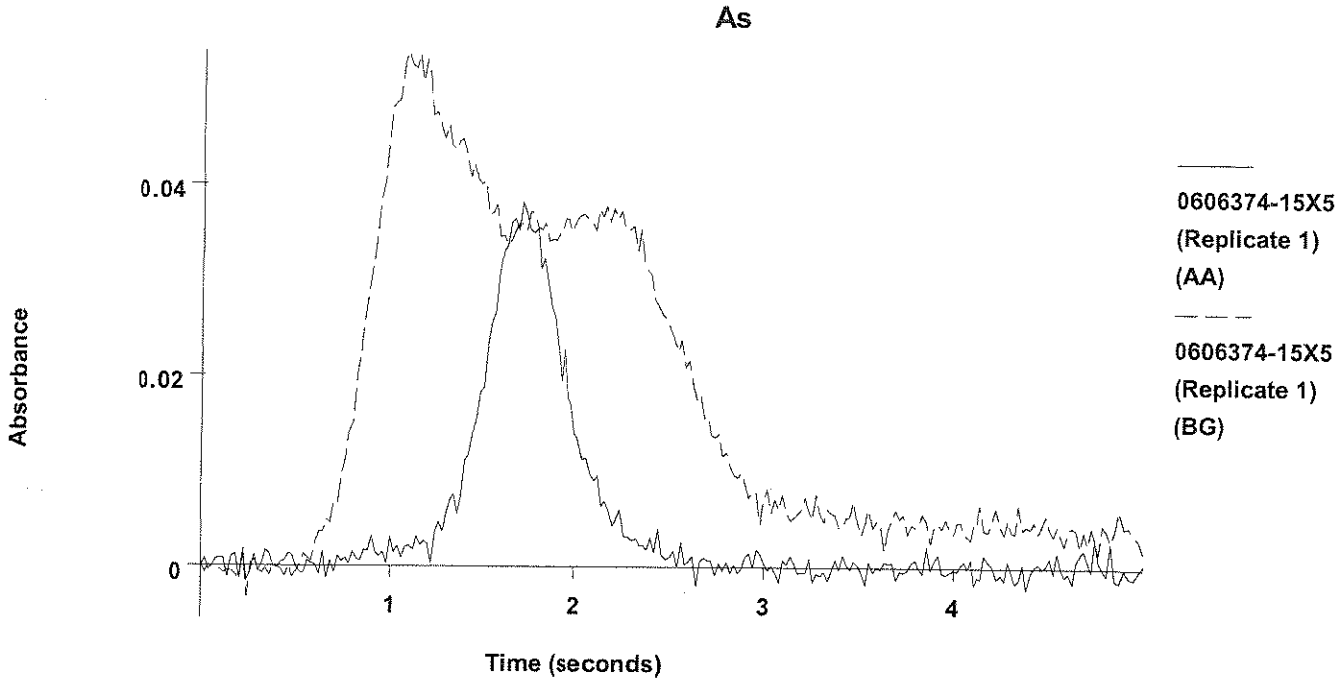
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.9	0.9	0.0010	0.0018	0.0069	0.0582	0.0555	04:09:22	Yes



2	1.1	1.1	0.0017	0.0025	0.0064	0.0531	0.0539	04:12:12 Yes
Mean:	1.0	1.0	0.0014					
SD :	0.12	0.12	0.0005					
%RSD:	12.1	12.1	33.67					

Element: As Seq. No.: 67 AS Loc.: 33 Date: 06/30/2006
Sample ID: 0606374-15X5
µL dispensed: 10 from 148, 5 from 147, 15 from 33

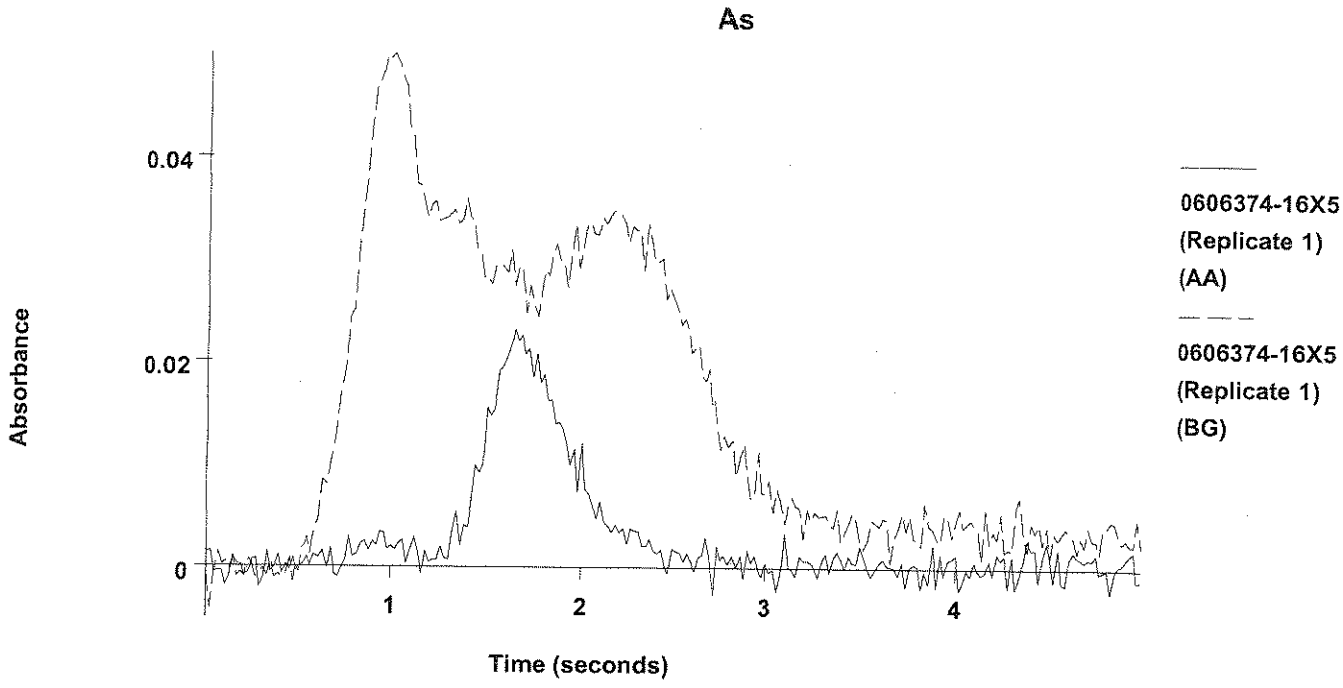
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	6.0	6.0	0.0200	0.0208	0.0382	0.0823	0.0539	04:15:03	Yes



2	5.8	5.8	0.0194	0.0202	0.0388	0.0805	0.0510	04:17:53 Yes
Mean:	5.9	5.9	0.0197					
SD :	0.12	0.12	0.0004					
%RSD:	2.01	2.01	2.26					

Element: As Seq. No.: 68 AS Loc.: 34 Date: 06/30/2006
Sample ID: 0606374-16X5
µL dispensed: 10 from 148, 5 from 147, 15 from 34

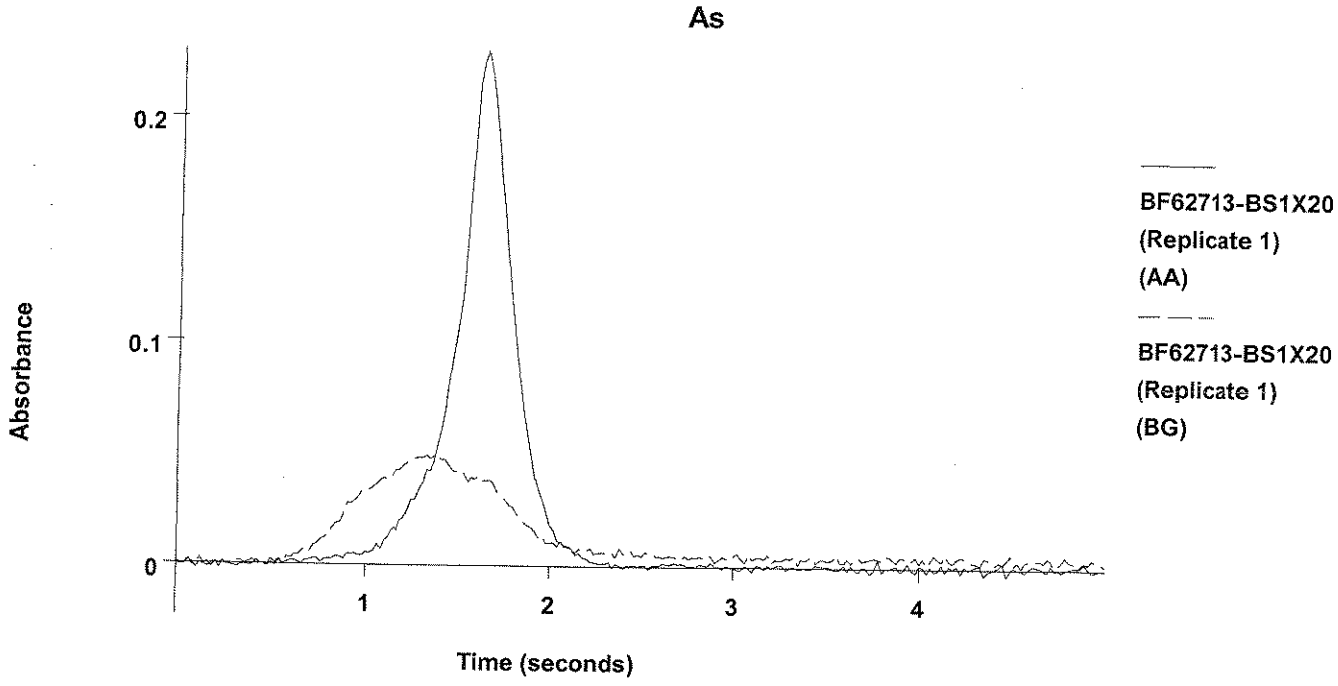
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.0	4.0	0.0125	0.0133	0.0232	0.0751	0.0500	04:20:43	Yes



2	4.0	4.0	0.0125	0.0132	0.0251	0.0829	0.0480 04:23:33	Yes
Mean:	4.0	4.0	0.0125					
SD :	0.01	0.01	0.0001					
%RSD:	0.35	0.35	0.42					

Element: As Seq. No.: 69 AS Loc.: 35 Date: 06/30/2006
Sample ID: 0606373-20X5
µL dispensed: 10 from 148, 5 from 147, 15 from 35

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.3	5.3	0.0176	0.0183	0.0260	0.1102	0.1064	04:26:23	Yes

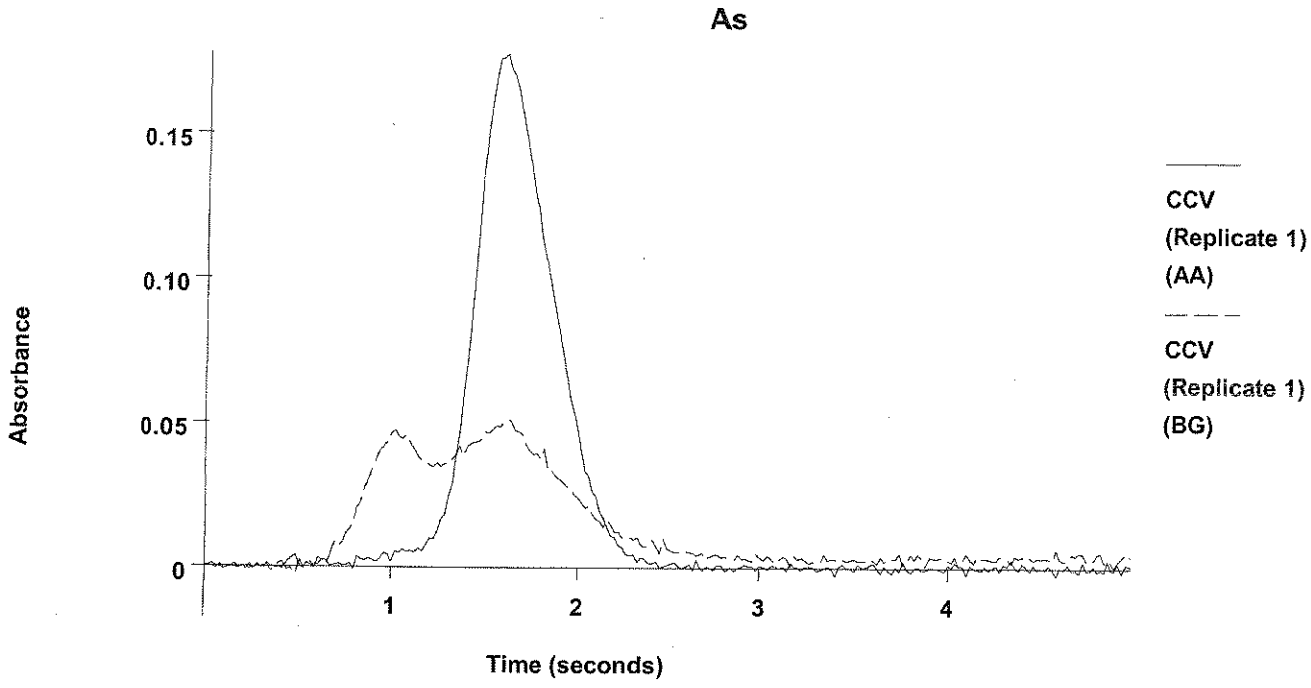


2	22.6	22.6	0.0822	0.0829	0.2306	0.0551	0.0499	04:46:15	Yes
Mean:	22.8	22.8	0.0826						
SD :	0.17	0.17	0.0006						
%RSD:	0.76	0.76	0.79						

915

Element: As Seq. No.: 73 AS Loc.: 126 Date: 06/30/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.9	23.9	0.0869	0.0887	0.1778	0.0631	0.0516	04:49:07	Yes

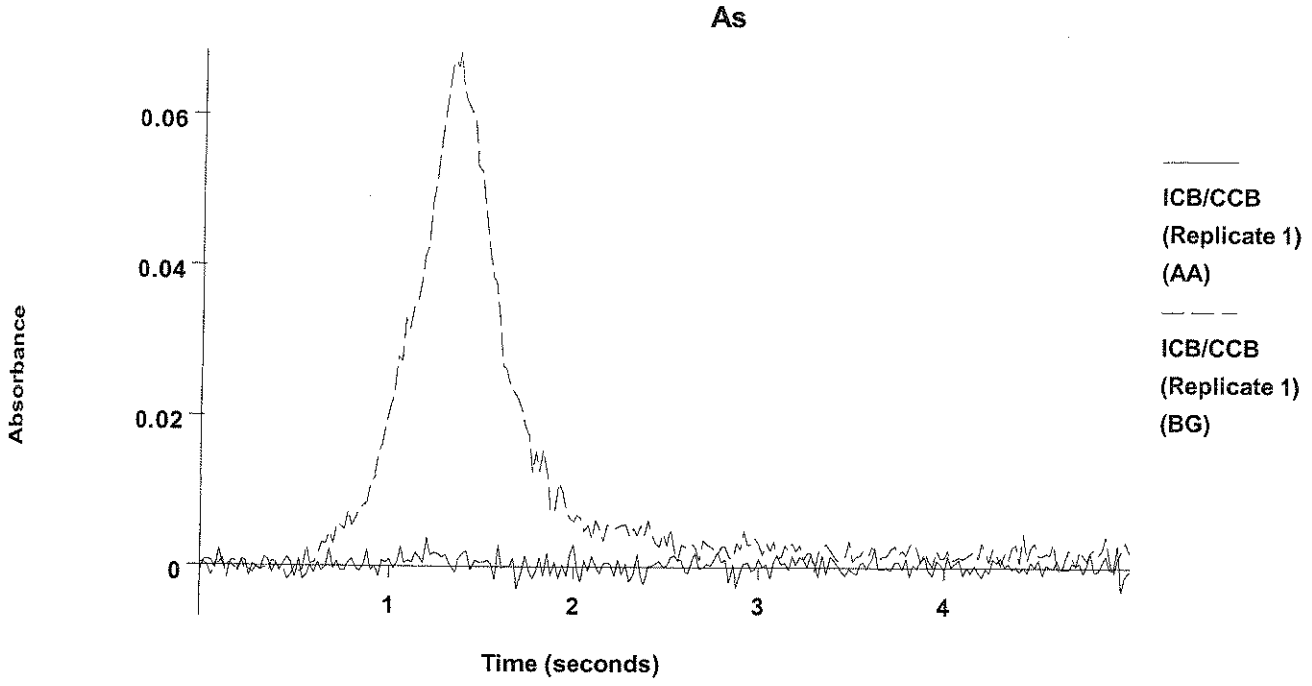


2	23.7	23.7	0.0861	0.0880	0.1710	0.0666	0.0526	04:52:00 Yes
Mean:	23.8	23.8	0.0865					
SD :	0.15	0.15	0.0005					
%RSD:	0.61	0.61	0.63					

QC value within specified limits.

Element: As Seq. No.: 74 AS Loc.: 148 Date: 06/30/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	-0.0006	0.0012	0.0038	0.0456	0.0684	04:54:50	Yes



2	0.4	0.4	-0.0010	0.0008	0.0030	0.0442	0.0661	04:57:40 Yes
Mean:	0.4	0.4	-0.0008					
SD :	0.08	0.08	0.0003					
%RSD:	17.4	17.4	34.60					

QC value within specified limits.

Element: As Seq. No.: 75 AS Loc.: 39 Date: 06/30/2006
Sample ID: BF62713-BSD1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 39

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.1	23.1	0.0840	0.0848	0.2410	0.0463	0.0429	05:00:29	Yes

ANALYSIS SEQUENCE

BPG0229

Instrument: HG1

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0229-CAL1	QC		1		6F23031		
BPG0229-CAL2	QC		2		6F23032		
BPG0229-CAL3	QC		3		6F23033		
BPG0229-CAL4	QC		4		6F23034		
BPG0229-CAL5	QC		5		6F23035		
BPG0229-CAL6	QC		6		6F23036		
BPG0229-ICV1	QC		7		6F23034		
BPG0229-SCV1	QC		8		6F23037		
BPG0229-ICB1	QC		9				
BF62318-BLK1	QC		10				
BF62318-BS1	QC		11				
BPG0229-CCB1	QC		12				
BPG0229-CCV1	QC		13		6F23034		
BF62318-BSD1	QC		14				
BF62318-SRM1	QC		15				
BF62318-DUP1	QC		16				
BF62318-MS1	QC		17				
BF62318-PS1	QC		18				
BF62318-MSD1	QC		19				
BF62318-DUP2	QC		20				
BF62318-MS2	QC		21				
BF62318-MSD2	QC		22				
BF62318-PS2	QC		23				
BPG0229-CCB2	QC		24				
BPG0229-CCV2	QC		25		6F23034		
0606373-19	Hg: ppm Mercury 7471	F	26				MACTEC Engineering & Consulting, In
0606373-18	Hg: ppm Mercury 7471	F	27				MACTEC Engineering & Consulting, In
0606373-17	Hg: ppm Mercury 7471	F	28				MACTEC Engineering & Consulting, In
0606373-16	Hg: ppm Mercury 7471	F	29				MACTEC Engineering & Consulting, In
0606373-15	Hg: ppm Mercury 7471	F	30				MACTEC Engineering & Consulting, In
0606373-14	Hg: ppm Mercury 7471	F	31				MACTEC Engineering & Consulting, In
0606373-13	Hg: ppm Mercury 7471	F	32				MACTEC Engineering & Consulting, In
0606373-12	Hg: ppm Mercury 7471	F	33				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0229

Instrument: HG1

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606373-10	Hg: ppm Mercury 7471	F	34				MACTEC Engineering & Consulting, In
0606373-09	Hg: ppm Mercury 7471	F	35				MACTEC Engineering & Consulting, In
BPG0229-CCB3	QC		36				
BPG0229-CCV3	QC		37		6F23034		
0606373-08	Hg: ppm Mercury 7471	F	38				MACTEC Engineering & Consulting, In
0606373-07	Hg: ppm Mercury 7471	F	39				MACTEC Engineering & Consulting, In
0606373-06	Hg: ppm Mercury 7471	F	40				MACTEC Engineering & Consulting, In
0606373-05	Hg: ppm Mercury 7471	F	41				MACTEC Engineering & Consulting, In
0606373-04	Hg: ppm Mercury 7471	F	42				MACTEC Engineering & Consulting, In
0606373-03	Hg: ppm Mercury 7471	F	43				MACTEC Engineering & Consulting, In
0606373-02	Hg: ppm Mercury 7471	F	44				MACTEC Engineering & Consulting, In
0606373-01	Hg: ppm Mercury 7471	F	45				MACTEC Engineering & Consulting, In
BPG0229-SRD1	QC		46				
BPG0229-SRD2	QC		47				
BPG0229-CCB4	QC		48				
BPG0229-CCV4	QC		49		6F23034		
BF62321-BLK1	QC		50				
BF62321-BS1	QC		51				
BF62321-BSD1	QC		52				
BF62321-SRM1	QC		53				
BF62321-DUP1	QC		54				
BF62321-MS1	QC		55				
BF62321-MSD1	QC		56				
BF62321-PS1	QC		57				
BF62321-DUP2	QC		58				
BF62321-MS2	QC		59				
BPG0229-CCB5	QC		60				
BPG0229-CCV5	QC		61		6F23034		
BF62321-MSD2	QC		62				
BF62321-PS2	QC		63				
0606374-16	Hg: ppm Mercury 7471	F	64				MACTEC Engineering & Consulting, In
0606374-15	Hg: ppm Mercury 7471	F	65				MACTEC Engineering & Consulting, In
0606374-14	Hg: ppm Mercury 7471	F	66				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0229

Instrument: HG1

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606374-13	Hg: ppm Mercury 7471	F	67				MACTEC Engineering & Consulting, In
0606374-12	Hg: ppm Mercury 7471	F	68				MACTEC Engineering & Consulting, In
0606374-11	Hg: ppm Mercury 7471	F	69				MACTEC Engineering & Consulting, In
0606374-10	Hg: ppm Mercury 7471	F	70				MACTEC Engineering & Consulting, In
0606374-09	Hg: ppm Mercury 7471	F	71				MACTEC Engineering & Consulting, In
BPG0229-CCB6	QC		72				
BPG0229-CCV6	QC		73		6F23034		
0606374-08	Hg: ppm Mercury 7471	F	74				MACTEC Engineering & Consulting, In
0606374-07	Hg: ppm Mercury 7471	F	75				MACTEC Engineering & Consulting, In
0606374-06	Hg: ppm Mercury 7471	F	76				MACTEC Engineering & Consulting, In
0606374-05	Hg: ppm Mercury 7471	F	77				MACTEC Engineering & Consulting, In
0606374-04	Hg: ppm Mercury 7471	F	78				MACTEC Engineering & Consulting, In
0606374-03	Hg: ppm Mercury 7471	F	79				MACTEC Engineering & Consulting, In
0606374-02	Hg: ppm Mercury 7471	F	80				MACTEC Engineering & Consulting, In
0606374-01	Hg: ppm Mercury 7471	F	81				MACTEC Engineering & Consulting, In
0606373-21	Hg: ppm Mercury 7471	F	82				MACTEC Engineering & Consulting, In
0606373-20	Hg: ppm Mercury 7471	F	83				MACTEC Engineering & Consulting, In
BPG0229-CCB7	QC		84				
BPG0229-CCV7	QC		85		6F23034		
BPG0229-SRD3	QC		86				
BPG0229-SRD4	QC		87				
BPG0229-CCB8	QC		88				
BPG0229-CCV8	QC		89		6F23034		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
Data Review Check List for Mercury

Data Review Check List for Mercury

Project Number(s): 06361, 373, 374, 375, 357 **Run Date:** 6/24/06

Batch Number (s): 062406A

SOP Number: 30_2451 or 30_7471A

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the daily standard curve consist of a Calibration Blank and the required 5 Calibration Standards?	X		
2. Is the CCV standard analyzed immediately after the curve? Does this CCV meet QC limits (± 5% for 245.1 and ±10% for 7470/1A.)	X		
3. Is the ICV from a second source and is its percent recovery within QC limits (± 10%)?	X		
4. Is the method blank run at the required frequency (1 per batch) and not exceed the MRL?	X		
5. Is the LCS from a source separate from the calibration standards and is its percent recovery within QC limits (± 15% for 245.1 and ±20% for 7470/1A)?	X		
6. Are Matrix Spikes run at the required frequency (1 per ten samples or per analytical batch)? Is the percent recovery for Matrix Spikes within 75-125% ***(80-120% for USACE/Navy)***?		X	
7. Are Duplicates run the required frequency (1 per ten samples or per analytical batch)? Is the relative percent difference within QC limits (≤ 20% for aqueous and <35% for soil/sediments (≤20% for USACE))?	X		
8. Is the CCV standard (STD3) also analyzed after every tenth sample and at the end of the sample run? Does this CCV meet QC limits (± 10%)	X		
9. Are all the samples with concentrations greater than the highest standard used for initial calibration reprocessed and reanalyzed?			X
10. Has the serial dilution been analyzed at the required frequency (once per analytical batch) and are results within criterion (± 10%RPD)?	X		
11. Has the post dilution spike been analyzed at the required frequency (once per analytical batch) and are results within criterion (85-115%)?		X	
12. Are all sample holding times met?	X		
13. Are all non-conformances included and noted?	X		
14. Are all sample IDs and units checked for transcription errors?	X		

Comments on any "No" response:
BF62318-MSD1 RD; MSD 20%; PDS 67%; MS2 19%; MSD2 RD; PDS2 83%
BF62321-MSD1 138%.

Analyst: _____ Date: 6/24/06

Second Level Review: _____ Date: 6/26/06

Control Number: 30.0012-0602A (R. 1 8/2000) Page _____

Autosampler Loading List

Sample Information File: 062406A.SIF
Methods: Hg_5ppb Shigh

Location	Elements	Solution
0	Hg	Wash Solution
1	Hg	Calib Blank
	Hg	ICCB: 0.0000 µg/L
2	Hg	0.5 ug/L: 0.5 µg/L
3	Hg	1.0 ug/L: 1.0 µg/L
4	Hg	3.0 ug/L: 3.0 µg/L
	Hg	STD 3.0: 3.0000 µg/L
5	Hg	5.0 ug/L: 5.0 µg/L
6	Hg	10.0 ug/L: 10.0 µg/L
7	Hg	ICV: 3.0000 µg/L
9	Hg	Sample: BF62318-blk1
10	Hg	Sample: BF62318-bs1
11	Hg	Sample: BF62318-bsd1
12	Hg	Sample: BF62318-srm1 x10
13	Hg	Sample: 0606361-01
14	Hg	Sample: 0606373-01
15	Hg	Sample: 0606373-02
16	Hg	Sample: 0606373-03
17	Hg	Sample: 0606373-04
18	Hg	Sample: 0606373-05
19	Hg	Sample: 0606373-06
20	Hg	Sample: 0606373-07
21	Hg	Sample: 0606373-08
22	Hg	Sample: BF62318-dup1
23	Hg	Sample: BF62318-ms1
24	Hg	Sample: BF62318-msd1
25	Hg	Sample: BF62318-sd1 x5
26	Hg	Sample: BF62318-pds1
27	Hg	Sample: 0606373-09
28	Hg	Sample: 0606373-10
29	Hg	Sample: 0606373-12
30	Hg	Sample: 0606373-13
31	Hg	Sample: 0606373-14
32	Hg	Sample: 0606373-15
33	Hg	Sample: 0606373-16
34	Hg	Sample: 0606373-17
35	Hg	Sample: 0606373-18
36	Hg	Sample: BF62318-dup2
37	Hg	Sample: BF62318-ms2
38	Hg	Sample: BF62318-msd2
39	Hg	Sample: BF62318-sd2 x5
40	Hg	Sample: BF62318-pds2
41	Hg	Sample: 0606373-19
42	Hg	Sample: BF62321-blk1
43	Hg	Sample: BF62321-bs1
44	Hg	Sample: BF62321-bsd1
45	Hg	Sample: BF62321-srm1 x10
46	Hg	Sample: 0606374-01
47	Hg	Sample: 0606374-02
48	Hg	Sample: 0606374-03
49	Hg	Sample: 0606374-04
50	Hg	Sample: 0606374-05
51	Hg	Sample: 0606374-06
52	Hg	Sample: 0606374-07
53	Hg	Sample: 0606374-08
54	Hg	Sample: 0606374-09

55	Hg	Sample: 0606374-10
56	Hg	Sample: BF62321-dup1
57	Hg	Sample: BF62321-ms1
58	Hg	Sample: BF62321-msd1
59	Hg	Sample: BF62321-sd1 x5
60	Hg	Sample: BF62321-pds1
61	Hg	Sample: 0606374-11
62	Hg	Sample: 0606374-12
63	Hg	Sample: 0606374-13
64	Hg	Sample: 0606374-14
65	Hg	Sample: BF62321-dup2
66	Hg	Sample: BF62321-ms2
67	Hg	Sample: BF62321-msd2
68	Hg	Sample: BF62321-sd2 x5
69	Hg	Sample: BF62321-pds2
70	Hg	Sample: 0606375-02
71	Hg	Sample: 0606374-15
72	Hg	Sample: 0606374-16
73	Hg	Sample: 0606373-20
74	Hg	Sample: 0606373-21
75	Hg	Sample: BF62231-blk1
76	Hg	Sample: BF62231-bs1
77	Hg	Sample: BF62231-bsd1
78	Hg	Sample: BF62231-srm1 x10
79	Hg	Sample: 0606357-05
80	Hg	Sample: BF62231-dup1
81	Hg	Sample: BF62231-ms1
82	Hg	Sample: BF62231-msd1
83	Hg	Sample: BF62231-sd1 x5
84	Hg	Sample: BF62231-pds1

Method Name: Hg_5ppb Shigh
Method Description: SnCl/Hg read
Element: Hg

Date: 06/24/2006
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: 062406A.SIF Results Data Set Name: 062406ad

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 06/24/2006
Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0213	0.0213	0.0039	11:42:50	Yes
2			0.0203	0.0203	0.0038	11:43:20	Yes
Mean:			0.0208				
SD :			0.0007				
%RSD:			3.5917				

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 06/24/2006
Sample ID: 0.5 ug/L

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0641	0.0849	0.0170	11:44:43	Yes
2			0.0629	0.0837	0.0169	11:45:12	Yes
Mean:			0.0635				
SD :			0.0009				
%RSD:			1.3518				

[Hg] Standard number 1 applied. [0.50]
Correlation Coefficient: 1.00000 Slope: 0.12704
Intercept : 0.00000

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 06/24/2006
Sample ID: 1.0 ug/L

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1232	0.1441	0.0293	11:46:36	Yes
2			0.1218	0.1426	0.0293	11:47:05	Yes
Mean:			0.1225				
SD :			0.0010				
%RSD:			0.8365				

[Hg] Standard number 2 applied. [1.00]
Correlation Coefficient: 0.99977 Slope: 0.12252
Intercept : 0.00075

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 06/24/2006
Sample ID: 3.0 ug/L

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.3522	0.3730	0.0767	11:48:30	Yes
2			0.3474	0.3682	0.0761	11:49:00	Yes

Mean: 0.3498
SD : 0.0034
%RSD: 0.9826
[Hg] Standard number 3 applied. [3.00]
Correlation Coefficient: 0.99980 Slope: 0.11583
Intercept : 0.00365

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 06/24/2006
Sample ID: 5.0 ug/L

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.5812	0.6020	0.1244	11:50:26	Yes
2			0.5801	0.6009	0.1246	11:50:56	Yes
Mean:			0.5806				
SD :			0.0007				
%RSD:			0.1267				

[Hg] Standard number 4 applied. [5.00]
Correlation Coefficient: 0.99994 Slope: 0.11544
Intercept : 0.00396

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 06/24/2006
Sample ID: 10.0 ug/L

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			1.1511	1.1719	0.2418	11:52:22	Yes
2			1.1346	1.1554	0.2402	11:52:52	Yes
Mean:			1.1428				
SD :			0.0116				
%RSD:			1.0185				

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99996 Slope: 0.11398
Intercept : 0.00611

Calibration data for Hg

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0208	--	----	----	----
0.5 ug/L	0.0635	0.50	0.50	0.001	1.4
1.0 ug/L	0.1225	1.00	1.02	0.001	0.8
3.0 ug/L	0.3498	3.00	3.02	0.003	1.0
5.0 ug/L	0.5806	5.00	5.04	0.001	0.1
10.0 ug/L	1.1428	10.00	9.97	0.012	1.0

Correlation Coefficient: 0.99996 Slope: 0.11398 Intercept: 0.0061

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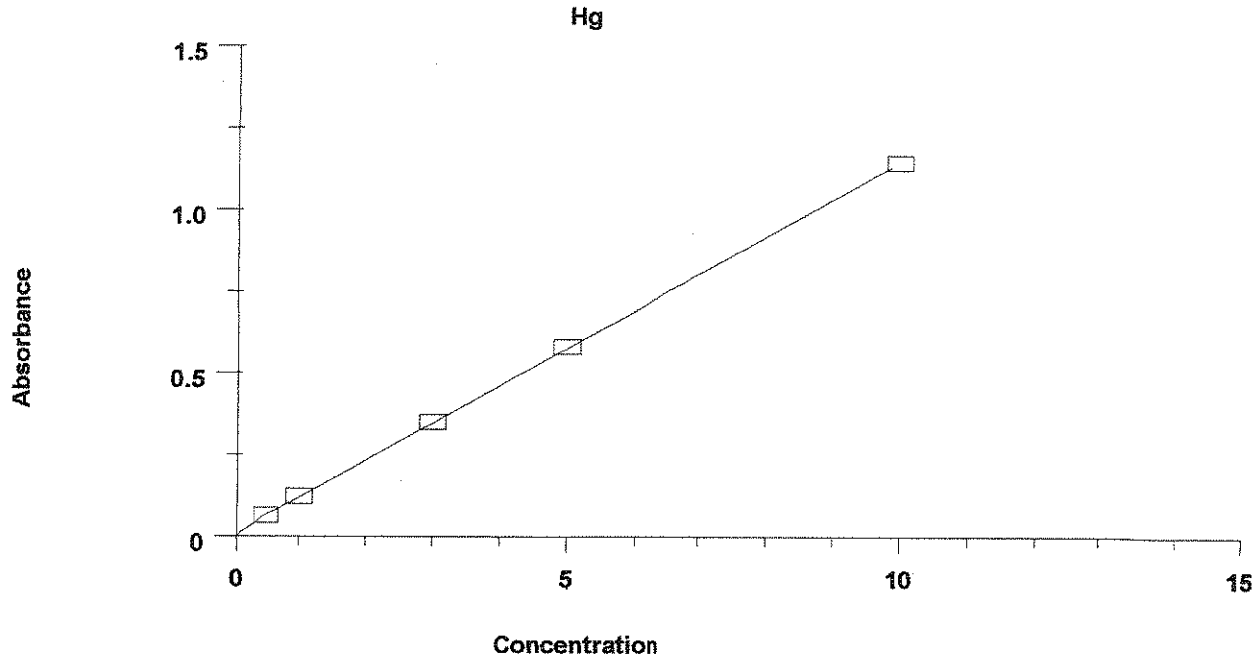
cal std 6/24/06



Element: Hg Seq. No.: 7 AS Loc.: 4 Date: 06/24/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.04	3.04	0.3524	0.3732	0.0764	11:54:20	Yes
2	3.00	3.00	0.3478	0.3686	0.0761	11:54:49	Yes
Mean:	3.02	3.02	0.3501				
SD :	0.028	0.028	0.0032				
%RSD:	0.9	0.9	0.9256				

QC value within specified limits.

Element: Hg Seq. No.: 8 AS Loc.: 7 Date: 06/24/2006
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.17	3.17	0.3675	0.3883	0.0801	11:56:15	Yes
2	3.13	3.13	0.3634	0.3842	0.0803	11:56:44	Yes
Mean:	3.15	3.15	0.3655				
SD :	0.026	0.026	0.0029				
%RSD:	0.8	0.8	0.8013				

QC value within specified limits.

Element: Hg Seq. No.: 9 AS Loc.: 1 Date: 06/24/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.05	-0.05	0.0007	0.0215	0.0039	11:58:11	Yes
2	-0.05	-0.05	0.0002	0.0210	0.0039	11:58:40	Yes

Mean:	-0.05	-0.05	0.0004
SD :	0.003	0.003	0.0004
%RSD:	6.5	6.5	84.4794

QC value within specified limits.

Element: Hg Seq. No.: 10 AS Loc.: 9 Date: 06/24/2006
Sample ID: BF62318-blk1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.08	-0.08	-0.0029	0.0179	0.0033	12:00:01	Yes
2	-0.09	-0.09	-0.0044	0.0164	0.0031	12:00:30	Yes
Mean:	-0.09	-0.09	-0.0036				
SD :	0.009	0.009	0.0010				
%RSD:	10.4	10.4	27.9628				

Element: Hg Seq. No.: 11 AS Loc.: 10 Date: 06/24/2006
Sample ID: BF62318-bs1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.91	2.91	0.3379	0.3587	0.0739	12:01:53	Yes
2	2.92	2.92	0.3385	0.3593	0.0742	12:02:22	Yes
Mean:	2.91	2.91	0.3382				
SD :	0.004	0.004	0.0004				
%RSD:	0.1	0.1	0.1310				

97.5

Element: Hg Seq. No.: 12 AS Loc.: 11 Date: 06/24/2006
Sample ID: BF62318-bsd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.89	2.89	0.3352	0.3560	0.0734	12:03:46	Yes
2	2.88	2.88	0.3343	0.3551	0.0733	12:04:15	Yes
Mean:	2.88	2.88	0.3347				
SD :	0.006	0.006	0.0006				
%RSD:	0.2	0.2	0.1898				

96.5

Element: Hg Seq. No.: 13 AS Loc.: 12 Date: 06/24/2006
Sample ID: BF62318-srm1 x10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.48	2.48	0.2889	0.3098	0.0633	12:05:40	Yes
2	2.42	2.42	0.2815	0.3024	0.0622	12:06:09	Yes
Mean:	2.45	2.45	0.2852				
SD :	0.046	0.046	0.0052				
%RSD:	1.9	1.9	1.8341				

$$\frac{2.45(40)(10)}{0.6} = 1.63$$

Element: Hg Seq. No.: 14 AS Loc.: 13 Date: 06/24/2006
Sample ID: 0606361-01

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.66	0.66	0.0817	0.1026	0.0205	12:07:34	Yes
2	0.66	0.66	0.0809	0.1017	0.0205	12:08:04	Yes
Mean:	0.66	0.66	0.0813				
SD :	0.005	0.005	0.0006				

%RSD: 0.8 0.8 0.7362

Element: Hg Seq. No.: 15 AS Loc.: 14 Date: 06/24/2006
Sample ID: 0606373-01

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.34	4.34	0.5010	0.5218	0.1060	12:09:31	Yes
2	4.30	4.30	0.4957	0.5165	0.1057	12:10:01	Yes
Mean:	4.32	4.32	0.4983				
SD :	0.032	0.032	0.0037				
%RSD:	0.8	0.8	0.7421				

Element: Hg Seq. No.: 16 AS Loc.: 15 Date: 06/24/2006
Sample ID: 0606373-02

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0059	0.0268	0.0049	12:11:29	Yes
2	0.00	0.00	0.0058	0.0266	0.0049	12:11:58	Yes
Mean:	0.00	0.00	0.0059				
SD :	0.001	0.001	0.0001				
%RSD:	45.5	45.5	1.9730				

Element: Hg Seq. No.: 17 AS Loc.: 16 Date: 06/24/2006
Sample ID: 0606373-03

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.37	1.37	0.1626	0.1834	0.0368	12:13:26	Yes
2	1.35	1.35	0.1601	0.1809	0.0365	12:13:55	Yes
Mean:	1.36	1.36	0.1613				
SD :	0.016	0.016	0.0018				
%RSD:	1.2	1.2	1.1126				

Element: Hg Seq. No.: 18 AS Loc.: 17 Date: 06/24/2006
Sample ID: 0606373-04

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.31	0.31	0.0411	0.0620	0.0120	12:15:20	Yes
2	0.29	0.29	0.0396	0.0604	0.0118	12:15:50	Yes
Mean:	0.30	0.30	0.0404				
SD :	0.010	0.010	0.0011				
%RSD:	3.3	3.3	2.7684				

Element: Hg Seq. No.: 19 AS Loc.: 18 Date: 06/24/2006
Sample ID: 0606373-05

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.34	5.34	0.6142	0.6351	0.1282	12:17:11	Yes
2	5.30	5.30	0.6103	0.6311	0.1281	12:17:41	Yes
Mean:	5.32	5.32	0.6123				
SD :	0.025	0.025	0.0028				
%RSD:	0.5	0.5	0.4567				

Element: Hg Seq. No.: 20 AS Loc.: 4 Date: 06/24/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.00	3.00	0.3481	0.3689	0.0757	12:19:05	Yes
2	2.96	2.96	0.3440	0.3648	0.0753	12:19:34	Yes
Mean:	2.98	2.98	0.3461				
SD :	0.026	0.026	0.0029				
%RSD:	0.9	0.9	0.8411				

QC value within specified limits.

Element: Hg Seq. No.: 21 AS Loc.: 1 Date: 06/24/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.05	-0.05	0.0007	0.0215	0.0039	12:20:59	Yes
2	-0.05	-0.05	0.0004	0.0212	0.0038	12:21:28	Yes
Mean:	-0.05	-0.05	0.0006				
SD :	0.002	0.002	0.0002				
%RSD:	4.2	4.2	41.1068				

QC value within specified limits.

Element: Hg Seq. No.: 22 AS Loc.: 19 Date: 06/24/2006
Sample ID: 0606373-06

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0086	0.0294	0.0051	12:22:50	Yes
2	0.02	0.02	0.0082	0.0290	0.0049	12:23:19	Yes
Mean:	0.02	0.02	0.0084				
SD :	0.003	0.003	0.0003				
%RSD:	13.2	13.2	3.6149				

Element: Hg Seq. No.: 23 AS Loc.: 20 Date: 06/24/2006
Sample ID: 0606373-07

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	6.05	6.05	0.6958	0.7166	0.1449	12:24:42	Yes
2	6.03	6.03	0.6930	0.7138	0.1448	12:25:11	Yes
Mean:	6.04	6.04	0.6944				
SD :	0.017	0.017	0.0020				
%RSD:	0.3	0.3	0.2830				

Element: Hg Seq. No.: 24 AS Loc.: 21 Date: 06/24/2006
Sample ID: 0606373-08

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	0.0038	0.0246	0.0044	12:26:33	Yes
2	-0.02	-0.02	0.0037	0.0245	0.0043	12:27:03	Yes
Mean:	-0.02	-0.02	0.0038				
SD :	0.000	0.000	0.0000				
%RSD:	2.0	2.0	1.2564				

Element: Hg Seq. No.: 25 AS Loc.: 22 Date: 06/24/2006

Sample ID: BF62318-dup1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	0.0045	0.0253	0.0045	12:28:27	Yes
2	-0.02	-0.02	0.0037	0.0246	0.0044	12:28:56	Yes
Mean:	-0.02	-0.02	0.0041				
SD :	0.005	0.005	0.0005				
%RSD:	27.2	27.2	13.0653				

Element: Hg Seq. No.: 26 AS Loc.: 23 Date: 06/24/2006
Sample ID: BF62318-ms1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.48	0.48	0.0607	0.0815	0.0162	12:30:21	Yes
2	0.43	0.43	0.0548	0.0757	0.0152	12:30:50	Yes
Mean:	0.45	0.45	0.0578				
SD :	0.036	0.036	0.0042				
%RSD:	8.1	8.1	7.1996				

Element: Hg Seq. No.: 27 AS Loc.: 24 Date: 06/24/2006
Sample ID: BF62318-msd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.60	0.60	0.0746	0.0954	0.0188	12:32:15	Yes
2	0.57	0.57	0.0711	0.0919	0.0181	12:32:44	Yes
Mean:	0.59	0.59	0.0728				
SD :	0.022	0.022	0.0025				
%RSD:	3.7	3.7	3.4323				

Element: Hg Seq. No.: 28 AS Loc.: 25 Date: 06/24/2006
Sample ID: BF62318-sd1 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.16	-0.16	-0.0122	0.0086	0.0017	12:34:09	Yes
2	-0.17	-0.17	-0.0129	0.0079	0.0017	12:34:38	Yes
Mean:	-0.16	-0.16	-0.0125				
SD :	0.004	0.004	0.0005				
%RSD:	2.7	2.7	3.9909				

Element: Hg Seq. No.: 29 AS Loc.: 26 Date: 06/24/2006
Sample ID: BF62318-pds1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.04	2.04	0.2386	0.2594	0.0556	12:36:03	Yes
2	2.00	2.00	0.2340	0.2548	0.0549	12:36:32	Yes
Mean:	2.02	2.02	0.2363				
SD :	0.029	0.029	0.0033				
%RSD:	1.4	1.4	1.3795				

Element: Hg Seq. No.: 30 AS Loc.: 27 Date: 06/24/2006
Sample ID: 0606373-09

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak

#	µg/L	µg/L	Signal	Area	Height		Stored
1	0.74	0.74	0.0900	0.1108	0.0217	12:37:58	Yes
2	0.72	0.72	0.0884	0.1092	0.0215	12:38:28	Yes
Mean:	0.73	0.73	0.0892				
SD :	0.010	0.010	0.0011				
%RSD:	1.4	1.4	1.2578				

Element: Hg Seq. No.: 31 AS Loc.: 28 Date: 06/24/2006
Sample ID: 0606373-10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.03	0.03	0.0093	0.0301	0.0052	12:39:55	Yes
2	0.03	0.03	0.0098	0.0307	0.0053	12:40:25	Yes
Mean:	0.03	0.03	0.0095				
SD :	0.004	0.004	0.0004				
%RSD:	11.9	11.9	4.3001				

Element: Hg Seq. No.: 32 AS Loc.: 4 Date: 06/24/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.00	3.00	0.3482	0.3690	0.0751	12:41:51	Yes
2	2.98	2.98	0.3459	0.3667	0.0750	12:42:20	Yes
Mean:	2.99	2.99	0.3470				
SD :	0.014	0.014	0.0016				
%RSD:	0.5	0.5	0.4734				

QC value within specified limits.

Element: Hg Seq. No.: 33 AS Loc.: 1 Date: 06/24/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.05	-0.05	0.0009	0.0217	0.0039	12:43:43	Yes
2	-0.06	-0.06	-0.0005	0.0203	0.0038	12:44:12	Yes
Mean:	-0.05	-0.05	0.0002				
SD :	0.009	0.009	0.0010				
%RSD:	16.4	16.4	555.2542				

QC value within specified limits.

Element: Hg Seq. No.: 34 AS Loc.: 29 Date: 06/24/2006
Sample ID: 0606373-12

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.17	0.17	0.0257	0.0465	0.0089	12:45:37	Yes
2	0.18	0.18	0.0263	0.0472	0.0089	12:46:06	Yes
Mean:	0.17	0.17	0.0260				
SD :	0.004	0.004	0.0005				
%RSD:	2.3	2.3	1.7804				

Element: Hg Seq. No.: 35 AS Loc.: 30 Date: 06/24/2006
Sample ID: 0606373-13

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	0.08	0.08	0.0157	0.0365	0.0068	12:47:33	Yes
2	0.08	0.08	0.0149	0.0357	0.0067	12:48:02	Yes
Mean:	0.08	0.08	0.0153				
SD :	0.005	0.005	0.0005				
%RSD:	5.9	5.9	3.5157				

Element: Hg Seq. No.: 36 AS Loc.: 31 Date: 06/24/2006
Sample ID: 0606373-14

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.32	0.32	0.0428	0.0636	0.0122	12:49:29	Yes
2	0.31	0.31	0.0416	0.0624	0.0121	12:49:58	Yes
Mean:	0.32	0.32	0.0422				
SD :	0.008	0.008	0.0009				
%RSD:	2.4	2.4	2.0393				

Element: Hg Seq. No.: 37 AS Loc.: 32 Date: 06/24/2006
Sample ID: 0606373-15

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	0.0014	0.0223	0.0039	12:51:23	Yes
2	-0.05	-0.05	0.0000	0.0208	0.0038	12:51:52	Yes
Mean:	-0.05	-0.05	0.0007				
SD :	0.009	0.009	0.0010				
%RSD:	18.8	18.8	140.0693				

Element: Hg Seq. No.: 38 AS Loc.: 33 Date: 06/24/2006
Sample ID: 0606373-16

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.06	0.06	0.0127	0.0335	0.0059	12:53:12	Yes
2	0.03	0.03	0.0097	0.0305	0.0056	12:53:41	Yes
Mean:	0.04	0.04	0.0112				
SD :	0.018	0.018	0.0021				
%RSD:	41.2	41.2	18.7592				

Element: Hg Seq. No.: 39 AS Loc.: 34 Date: 06/24/2006
Sample ID: 0606373-17

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.03	-0.03	0.0028	0.0236	0.0042	12:55:02	Yes
2	-0.03	-0.03	0.0025	0.0234	0.0041	12:55:31	Yes
Mean:	-0.03	-0.03	0.0027				
SD :	0.002	0.002	0.0002				
%RSD:	5.3	5.3	6.8558				

Element: Hg Seq. No.: 40 AS Loc.: 35 Date: 06/24/2006
Sample ID: 0606373-18

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.30	0.30	0.0407	0.0615	0.0117	12:56:53	Yes
2	0.27	0.27	0.0365	0.0573	0.0110	12:57:22	Yes
Mean:	0.28	0.28	0.0386				

SD :	0.026	0.026	0.0030
%RSD:	9.1	9.1	7.6868

Element: Hg Seq. No.: 41 AS Loc.: 36 Date: 06/24/2006
Sample ID: BF62318-dup2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.28	0.28	0.0381	0.0589	0.0112	12:58:45	Yes
2	0.27	0.27	0.0374	0.0582	0.0110	12:59:15	Yes
Mean:	0.28	0.28	0.0377				
SD :	0.004	0.004	0.0005				
%RSD:	1.5	1.5	1.2927				

MD

Element: Hg Seq. No.: 42 AS Loc.: 37 Date: 06/24/2006
Sample ID: BF62318-ms2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.60	0.60	0.0746	0.0954	0.0187	01:00:38	Yes
2	0.56	0.56	0.0697	0.0905	0.0180	01:01:08	Yes
Mean:	0.58	0.58	0.0721				
SD :	0.031	0.031	0.0035				
%RSD:	5.3	5.3	4.8415				

195

Element: Hg Seq. No.: 43 AS Loc.: 38 Date: 06/24/2006
Sample ID: BF62318-msd2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.48	0.48	0.0614	0.0822	0.0163	01:02:31	Yes
2	0.46	0.46	0.0590	0.0799	0.0159	01:03:00	Yes
Mean:	0.47	0.47	0.0602				
SD :	0.014	0.014	0.0016				
%RSD:	3.0	3.0	2.7328				

MD

Element: Hg Seq. No.: 44 AS Loc.: 4 Date: 06/24/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.01	3.01	0.3492	0.3700	0.0753	01:04:25	Yes
2	2.97	2.97	0.3446	0.3654	0.0750	01:04:54	Yes
Mean:	2.99	2.99	0.3469				
SD :	0.028	0.028	0.0032				
%RSD:	0.9	0.9	0.9290				

QC value within specified limits.

✓

Element: Hg Seq. No.: 45 AS Loc.: 1 Date: 06/24/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.06	-0.06	-0.0008	0.0200	0.0036	01:06:17	Yes
2	-0.07	-0.07	-0.0015	0.0193	0.0036	01:06:46	Yes
Mean:	-0.06	-0.06	-0.0012				
SD :	0.004	0.004	0.0005				
%RSD:	6.6	6.6	41.4260				

✓

QC value within specified limits.

Element: Hg Seq. No.: 46 AS Loc.: 39 Date: 06/24/2006
Sample ID: BF62318-sd2 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.10	-0.10	-0.0048	0.0161	0.0034	01:08:10	Yes
2	-0.09	-0.09	-0.0037	0.0171	0.0036	01:08:40	Yes
Mean:	-0.09	-0.09	-0.0042				
SD :	0.006	0.006	0.0007				
%RSD:	7.1	7.1	17.4554				

Element: Hg Seq. No.: 47 AS Loc.: 40 Date: 06/24/2006
Sample ID: BF62318-pds2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.54	2.54	0.2957	0.3165	0.0633	01:10:04	Yes
2	2.42	2.42	0.2816	0.3024	0.0612	01:10:33	Yes
Mean:	2.48	2.48	0.2886				
SD :	0.087	0.087	0.0099				
%RSD:	3.5	3.5	3.4455				

Element: Hg Seq. No.: 48 AS Loc.: 41 Date: 06/24/2006
Sample ID: 0606373-19

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0066	0.0274	0.0048	01:11:58	Yes
2	-0.01	-0.01	0.0045	0.0254	0.0046	01:12:29	Yes
Mean:	0.00	0.00	0.0056				
SD :	0.013	0.013	0.0014				
%RSD:	268.5	268.5	25.9380				

Element: Hg Seq. No.: 49 AS Loc.: 42 Date: 06/24/2006
Sample ID: BF62321-blk1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.10	-0.10	-0.0057	0.0152	0.0029	01:13:54	Yes
2	-0.09	-0.09	-0.0042	0.0166	0.0030	01:14:23	Yes
Mean:	-0.10	-0.10	-0.0049				
SD :	0.009	0.009	0.0010				
%RSD:	9.5	9.5	21.2718				

Element: Hg Seq. No.: 50 AS Loc.: 43 Date: 06/24/2006
Sample ID: BF62321-bs1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.88	2.88	0.3340	0.3548	0.0716	01:15:48	Yes
2	2.84	2.84	0.3298	0.3506	0.0717	01:16:17	Yes
Mean:	2.86	2.86	0.3319				
SD :	0.026	0.026	0.0030				
%RSD:	0.9	0.9	0.8960				

Element: Hg Seq. No.: 51 AS Loc.: 44 Date: 06/24/2006
Sample ID: BF62321-bsd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.86	2.86	0.3315	0.3524	0.0718	01:17:43	Yes
2	2.82	2.82	0.3280	0.3488	0.0715	01:18:13	Yes
Mean:	2.84	2.84	0.3298				
SD :	0.022	0.022	0.0025				
%RSD:	0.8	0.8	0.7529				

952

Element: Hg Seq. No.: 52 AS Loc.: 45 Date: 06/24/2006
Sample ID: BF62321-srm1 x10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.46	2.46	0.2865	0.3073	0.0625	01:19:40	Yes
2	2.44	2.44	0.2839	0.3047	0.0626	01:20:09	Yes
Mean:	2.45	2.45	0.2852				
SD :	0.016	0.016	0.0018				
%RSD:	0.6	0.6	0.6303				

$\frac{2.45(40)(10)}{0.6} = 1.63$

Element: Hg Seq. No.: 53 AS Loc.: 46 Date: 06/24/2006
Sample ID: 0606374-01

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.11	0.11	0.0183	0.0392	0.0071	01:21:37	Yes
2	0.08	0.08	0.0158	0.0366	0.0069	01:22:06	Yes
Mean:	0.10	0.10	0.0170				
SD :	0.016	0.016	0.0018				
%RSD:	16.7	16.7	10.6913				

ND

Element: Hg Seq. No.: 54 AS Loc.: 47 Date: 06/24/2006
Sample ID: 0606374-02

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	0.0039	0.0247	0.0042	01:23:34	Yes
2	-0.05	-0.05	0.0007	0.0216	0.0040	01:24:03	Yes
Mean:	-0.03	-0.03	0.0023				
SD :	0.019	0.019	0.0022				
%RSD:	58.0	58.0	95.6097				

ND

Element: Hg Seq. No.: 55 AS Loc.: 48 Date: 06/24/2006
Sample ID: 0606374-03

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.14	0.14	0.0223	0.0431	0.0082	01:25:27	Yes
2	0.12	0.12	0.0203	0.0411	0.0079	01:25:56	Yes
Mean:	0.13	0.13	0.0213				
SD :	0.012	0.012	0.0014				
%RSD:	9.2	9.2	6.5532				

ND

Element: Hg Seq. No.: 56 AS Loc.: 4 Date: 06/24/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.99	2.99	0.3470	0.3678	0.0750	01:27:19	Yes
2	2.96	2.96	0.3439	0.3647	0.0747	01:27:48	Yes
Mean:	2.98	2.98	0.3454				
SD :	0.019	0.019	0.0022				
%RSD:	0.6	0.6	0.6290				

QC value within specified limits.

Element: Hg Seq. No.: 57 AS Loc.: 1 Date: 06/24/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.06	-0.06	-0.0010	0.0198	0.0035	01:29:13	Yes
2	-0.07	-0.07	-0.0021	0.0187	0.0034	01:29:42	Yes
Mean:	-0.07	-0.07	-0.0016				
SD :	0.007	0.007	0.0008				
%RSD:	10.0	10.0	48.5623				

QC value within specified limits.

Element: Hg Seq. No.: 58 AS Loc.: 49 Date: 06/24/2006
Sample ID: 0606374-04

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	0.0055	0.0263	0.0046	01:31:04	Yes
2	-0.02	-0.02	0.0040	0.0248	0.0044	01:31:34	Yes
Mean:	-0.01	-0.01	0.0047				
SD :	0.010	0.010	0.0011				
%RSD:	79.9	79.9	23.2740				

Element: Hg Seq. No.: 59 AS Loc.: 50 Date: 06/24/2006
Sample ID: 0606374-05

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.04	0.04	0.0107	0.0315	0.0057	01:32:55	Yes
2	0.05	0.05	0.0115	0.0323	0.0058	01:33:24	Yes
Mean:	0.04	0.04	0.0111				
SD :	0.005	0.005	0.0005				
%RSD:	11.1	11.1	4.9601				

Element: Hg Seq. No.: 60 AS Loc.: 51 Date: 06/24/2006
Sample ID: 0606374-06

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.03	-0.03	0.0027	0.0236	0.0041	01:34:45	Yes
2	-0.04	-0.04	0.0014	0.0222	0.0040	01:35:14	Yes
Mean:	-0.04	-0.04	0.0021				
SD :	0.008	0.008	0.0009				
%RSD:	23.2	23.2	44.7332				

Element: Hg Seq. No.: 61 AS Loc.: 52 Date: 06/24/2006
Sample ID: 0606374-07

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak

#	µg/L	µg/L	Signal	Area	Height		Stored
1	0.58	0.58	0.0717	0.0925	0.0181	01:36:36	Yes
2	0.59	0.59	0.0733	0.0941	0.0185	01:37:05	Yes
Mean:	0.58	0.58	0.0725				
SD :	0.010	0.010	0.0011				
%RSD:	1.7	1.7	1.5251				

Element: Hg Seq. No.: 62 AS Loc.: 53 Date: 06/24/2006
Sample ID: 0606374-08

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.06	0.06	0.0126	0.0334	0.0062	01:38:28	Yes
2	0.05	0.05	0.0118	0.0326	0.0061	01:38:57	Yes
Mean:	0.05	0.05	0.0122				
SD :	0.005	0.005	0.0006				
%RSD:	10.1	10.1	5.0195				

Element: Hg Seq. No.: 63 AS Loc.: 54 Date: 06/24/2006
Sample ID: 0606374-09

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.56	0.56	0.0699	0.0907	0.0177	01:40:20	Yes
2	0.54	0.54	0.0680	0.0888	0.0173	01:40:50	Yes
Mean:	0.55	0.55	0.0690				
SD :	0.012	0.012	0.0013				
%RSD:	2.1	2.1	1.9372				

Element: Hg Seq. No.: 64 AS Loc.: 55 Date: 06/24/2006
Sample ID: 0606374-10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.04	0.04	0.0103	0.0311	0.0054	01:42:13	Yes
2	0.02	0.02	0.0089	0.0297	0.0052	01:42:42	Yes
Mean:	0.03	0.03	0.0096				
SD :	0.009	0.009	0.0010				
%RSD:	28.1	28.1	10.1470				

Element: Hg Seq. No.: 65 AS Loc.: 56 Date: 06/24/2006
Sample ID: BF62321-dup1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.09	0.09	0.0159	0.0367	0.0066	01:44:06	Yes
2	0.08	0.08	0.0152	0.0360	0.0066	01:44:35	Yes
Mean:	0.08	0.08	0.0155				
SD :	0.004	0.004	0.0005				
%RSD:	5.4	5.4	3.2779				

Element: Hg Seq. No.: 66 AS Loc.: 57 Date: 06/24/2006
Sample ID: BF62321-ms1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.04	3.04	0.3525	0.3733	0.0755	01:46:00	Yes
2	3.03	3.03	0.3511	0.3719	0.0752	01:46:29	Yes

Mean:	3.03	3.03	0.3518
SD :	0.009	0.009	0.0010
%RSD:	0.3	0.3	0.2811

1015

Element: Hg Seq. No.: 67 AS Loc.: 58 Date: 06/24/2006
Sample ID: BF62321-msd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.19	4.19	0.4840	0.5049	0.1004	01:47:54	Yes
2	4.11	4.11	0.4750	0.4959	0.0994	01:48:23	Yes
Mean:	4.15	4.15	0.4795				
SD :	0.056	0.056	0.0064				
%RSD:	1.3	1.3	1.3266				

1355

Element: Hg Seq. No.: 68 AS Loc.: 4 Date: 06/24/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.00	3.00	0.3478	0.3687	0.0744	01:49:48	Yes
2	2.98	2.98	0.3456	0.3664	0.0748	01:50:17	Yes
Mean:	2.99	2.99	0.3467				
SD :	0.014	0.014	0.0016				
%RSD:	0.5	0.5	0.4515				

QC value within specified limits.

Element: Hg Seq. No.: 69 AS Loc.: 1 Date: 06/24/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.06	-0.06	-0.0013	0.0195	0.0035	01:51:42	Yes
2	-0.07	-0.07	-0.0024	0.0184	0.0034	01:52:11	Yes
Mean:	-0.07	-0.07	-0.0018				
SD :	0.007	0.007	0.0008				
%RSD:	10.1	10.1	43.7580				

QC value within specified limits.

Element: Hg Seq. No.: 70 AS Loc.: 59 Date: 06/24/2006
Sample ID: BF62321-sd1 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.17	-0.17	-0.0137	0.0071	0.0015	01:53:35	Yes
2	-0.18	-0.18	-0.0141	0.0067	0.0014	01:54:04	Yes
Mean:	-0.18	-0.18	-0.0139				
SD :	0.003	0.003	0.0003				
%RSD:	1.5	1.5	2.1206				

Element: Hg Seq. No.: 71 AS Loc.: 60 Date: 06/24/2006
Sample ID: BF62321-pds1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.11	3.11	0.3607	0.3815	0.0771	01:55:30	Yes
2	3.10	3.10	0.3597	0.3806	0.0772	01:56:00	Yes
Mean:	3.11	3.11	0.3602				

1045

SD :	0.006	0.006	0.0006
%RSD:	0.2	0.2	0.1790

Element: Hg Seq. No.: 72 AS Loc.: 61 Date: 06/24/2006
Sample ID: 0606374-11

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	9.96	9.96	1.1412	1.1621	0.2350	01:57:27	Yes
2	9.90	9.90	1.1346	1.1554	0.2338	01:57:56	Yes
Mean:	9.93	9.93	1.1379				
SD :	0.041	0.041	0.0047				
%RSD:	0.4	0.4	0.4144				

Element: Hg Seq. No.: 73 AS Loc.: 62 Date: 06/24/2006
Sample ID: 0606374-12

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.08	-0.08	-0.0026	0.0182	0.0035	01:59:23	Yes
2	-0.08	-0.08	-0.0030	0.0178	0.0033	01:59:52	Yes
Mean:	-0.08	-0.08	-0.0028				
SD :	0.002	0.002	0.0002				
%RSD:	2.7	2.7	8.6333				

Element: Hg Seq. No.: 74 AS Loc.: 63 Date: 06/24/2006
Sample ID: 0606374-13

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.11	0.11	0.0190	0.0398	0.0071	02:01:15	Yes
2	0.08	0.08	0.0156	0.0364	0.0069	02:01:44	Yes
Mean:	0.10	0.10	0.0173				
SD :	0.021	0.021	0.0024				
%RSD:	21.8	21.8	14.0698				

Element: Hg Seq. No.: 75 AS Loc.: 64 Date: 06/24/2006
Sample ID: 0606374-14

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.07	-0.07	-0.0022	0.0186	0.0035	02:03:06	Yes
2	-0.07	-0.07	-0.0021	0.0187	0.0035	02:03:36	Yes
Mean:	-0.07	-0.07	-0.0022				
SD :	0.001	0.001	0.0001				
%RSD:	1.0	1.0	3.7383				

Element: Hg Seq. No.: 76 AS Loc.: 65 Date: 06/24/2006
Sample ID: BF62321-dup2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.03	-0.03	0.0026	0.0234	0.0041	02:04:56	Yes
2	-0.05	-0.05	0.0009	0.0217	0.0039	02:05:25	Yes
Mean:	-0.04	-0.04	0.0017				
SD :	0.010	0.010	0.0012				
%RSD:	27.2	27.2	67.9284				

Element: Hg Seq. No.: 77 AS Loc.: 66 Date: 06/24/2006
Sample ID: BF62321-ms2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.00	3.00	0.3484	0.3692	0.0746	02:06:46	Yes
2	3.01	3.01	0.3494	0.3702	0.0747	02:07:15	Yes
Mean:	3.01	3.01	0.3489				
SD :	0.006	0.006	0.0007				
%RSD:	0.2	0.2	0.2013				

Element: Hg Seq. No.: 78 AS Loc.: 67 Date: 06/24/2006
Sample ID: BF62321-msd2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.01	3.01	0.3491	0.3699	0.0746	02:08:37	Yes
2	3.00	3.00	0.3485	0.3693	0.0745	02:09:07	Yes
Mean:	3.01	3.01	0.3488				
SD :	0.004	0.004	0.0004				
%RSD:	0.1	0.1	0.1259				

Element: Hg Seq. No.: 79 AS Loc.: 68 Date: 06/24/2006
Sample ID: BF62321-sd2 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.20	-0.20	-0.0162	0.0046	0.0010	02:10:29	Yes
2	-0.20	-0.20	-0.0172	0.0036	0.0010	02:10:58	Yes
Mean:	-0.20	-0.20	-0.0167				
SD :	0.006	0.006	0.0007				
%RSD:	3.1	3.1	4.2986				

Element: Hg Seq. No.: 80 AS Loc.: 4 Date: 06/24/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.97	2.97	0.3442	0.3650	0.0742	02:12:22	Yes
2	2.95	2.95	0.3428	0.3636	0.0744	02:12:52	Yes
Mean:	2.96	2.96	0.3435				
SD :	0.009	0.009	0.0010				
%RSD:	0.3	0.3	0.2956				

QC value within specified limits.

Element: Hg Seq. No.: 81 AS Loc.: 1 Date: 06/24/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.09	-0.09	-0.0036	0.0172	0.0032	02:14:16	Yes
2	-0.09	-0.09	-0.0040	0.0168	0.0032	02:14:46	Yes
Mean:	-0.09	-0.09	-0.0038				
SD :	0.003	0.003	0.0003				
%RSD:	3.0	3.0	7.8120				

QC value within specified limits.

Element: Hg Seq. No.: 82 AS Loc.: 69 Date: 06/24/2006
Sample ID: BF62321-pds2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.06	3.06	0.3543	0.3752	0.0758	02:16:09	Yes
2	3.06	3.06	0.3553	0.3761	0.0759	02:16:38	Yes
Mean:	3.06	3.06	0.3548				
SD :	0.006	0.006	0.0007				
%RSD:	0.2	0.2	0.1867				

1023

Element: Hg Seq. No.: 83 AS Loc.: 70 Date: 06/24/2006
Sample ID: 0606375-02

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	0.0011	0.0219	0.0039	02:18:01	Yes
2	-0.05	-0.05	0.0001	0.0209	0.0038	02:18:30	Yes
Mean:	-0.05	-0.05	0.0006				
SD :	0.006	0.006	0.0007				
%RSD:	13.3	13.3	121.0154				

Element: Hg Seq. No.: 84 AS Loc.: 71 Date: 06/24/2006
Sample ID: 0606374-15

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.15	0.15	0.0234	0.0442	0.0083	02:19:54	Yes
2	0.14	0.14	0.0225	0.0433	0.0082	02:20:23	Yes
Mean:	0.15	0.15	0.0229				
SD :	0.006	0.006	0.0007				
%RSD:	4.0	4.0	2.9214				

Element: Hg Seq. No.: 85 AS Loc.: 72 Date: 06/24/2006
Sample ID: 0606374-16

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.05	-0.05	0.0005	0.0213	0.0038	02:21:48	Yes
2	-0.06	-0.06	-0.0011	0.0197	0.0037	02:22:18	Yes
Mean:	-0.06	-0.06	-0.0003				
SD :	0.010	0.010	0.0011				
%RSD:	16.9	16.9	361.5454				

Element: Hg Seq. No.: 86 AS Loc.: 73 Date: 06/24/2006
Sample ID: 0606373-20

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.05	0.05	0.0123	0.0331	0.0061	02:23:43	Yes
2	0.03	0.03	0.0097	0.0305	0.0059	02:24:12	Yes
Mean:	0.04	0.04	0.0110				
SD :	0.016	0.016	0.0018				
%RSD:	37.8	37.8	16.7227				

Element: Hg Seq. No.: 87 AS Loc.: 74 Date: 06/24/2006
Sample ID: 0606373-21

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.06	-0.06	-0.0003	0.0205	0.0038	02:25:37	Yes
2	-0.04	-0.04	0.0011	0.0219	0.0039	02:26:07	Yes
Mean:	-0.05	-0.05	0.0004				
SD :	0.009	0.009	0.0010				
%RSD:	17.2	17.2	244.0674				

MD

Element: Hg Seq. No.: 88 AS Loc.: 75 Date: 06/24/2006
Sample ID: BF62231-blk1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.13	-0.13	-0.0088	0.0120	0.0021	02:27:32	Yes
2	-0.15	-0.15	-0.0107	0.0101	0.0020	02:28:01	Yes
Mean:	-0.14	-0.14	-0.0098				
SD :	0.012	0.012	0.0013				
%RSD:	8.5	8.5	13.7406				

MD

Element: Hg Seq. No.: 89 AS Loc.: 76 Date: 06/24/2006
Sample ID: BF62231-bs1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.89	2.89	0.3355	0.3563	0.0726	02:29:27	Yes
2	2.88	2.88	0.3340	0.3548	0.0726	02:29:56	Yes
Mean:	2.88	2.88	0.3348				
SD :	0.009	0.009	0.0010				
%RSD:	0.3	0.3	0.3100				

96.5

Element: Hg Seq. No.: 90 AS Loc.: 77 Date: 06/24/2006
Sample ID: BF62231-bsd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.89	2.89	0.3358	0.3566	0.0728	02:31:22	Yes
2	2.87	2.87	0.3330	0.3538	0.0730	02:31:52	Yes
Mean:	2.88	2.88	0.3344				
SD :	0.017	0.017	0.0020				
%RSD:	0.6	0.6	0.5900				

96.5

Element: Hg Seq. No.: 91 AS Loc.: 78 Date: 06/24/2006
Sample ID: BF62231-srm1 x10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.44	2.44	0.2842	0.3050	0.0616	02:33:16	Yes
2	2.43	2.43	0.2831	0.3039	0.0616	02:33:45	Yes
Mean:	2.43	2.43	0.2837				
SD :	0.007	0.007	0.0008				
%RSD:	0.3	0.3	0.2735				

$$\frac{2.43(40)(10)}{0.6} = 1.62$$

Element: Hg Seq. No.: 92 AS Loc.: 4 Date: 06/24/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.07	3.07	0.3555	0.3763	0.0770	02:35:08	Yes

2	3.05	3.05	0.3534	0.3742	0.0768	02:35:37	Yes
Mean:	3.06	3.06	0.3544				
SD :	0.013	0.013	0.0015				
%RSD:	0.4	0.4	0.4289				

QC value within specified limits.

Element: Hg Seq. No.: 93 AS Loc.: 1 Date: 06/24/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.13	-0.13	-0.0082	0.0126	0.0024	02:37:01	Yes
2	-0.12	-0.12	-0.0080	0.0128	0.0025	02:37:30	Yes
Mean:	-0.12	-0.12	-0.0081				
SD :	0.001	0.001	0.0002				
%RSD:	1.1	1.1	1.8539				

QC value within specified limits.

Element: Hg Seq. No.: 94 AS Loc.: 79 Date: 06/24/2006
Sample ID: 0606357-05

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.09	-0.09	-0.0043	0.0166	0.0032	02:38:52	Yes
2	-0.11	-0.11	-0.0065	0.0143	0.0030	02:39:21	Yes
Mean:	-0.10	-0.10	-0.0054				
SD :	0.014	0.014	0.0016				
%RSD:	13.8	13.8	29.4783				

Element: Hg Seq. No.: 95 AS Loc.: 80 Date: 06/24/2006
Sample ID: BF62231-dup1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.08	-0.08	-0.0036	0.0173	0.0033	02:40:41	Yes
2	-0.09	-0.09	-0.0040	0.0168	0.0032	02:41:11	Yes
Mean:	-0.09	-0.09	-0.0038				
SD :	0.003	0.003	0.0003				
%RSD:	3.1	3.1	8.0048				

Element: Hg Seq. No.: 96 AS Loc.: 81 Date: 06/24/2006
Sample ID: BF62231-ms1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.93	2.93	0.3400	0.3608	0.0738	02:42:31	Yes
2	2.93	2.93	0.3399	0.3607	0.0741	02:43:01	Yes
Mean:	2.93	2.93	0.3400				
SD :	0.001	0.001	0.0001				
%RSD:							

Element: Hg Seq. No.: 97 AS Loc.: 82 Date: 06/24/2006
Sample ID: BF62231-msd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.95	2.95	0.3418	0.3626	0.0745	02:44:22	Yes
2	2.95	2.95	0.3420	0.3628	0.0747	02:44:51	Yes

Mean:	2.95	2.95	0.3419
SD :	0.001	0.001	0.0001
%RSD:			

985

Element: Hg Seq. No.: 98 AS Loc.: 83 Date: 06/24/2006
Sample ID: BF62231-sd1 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.20	-0.20	-0.0166	0.0042	0.0008	02:46:14	Yes
2	-0.21	-0.21	-0.0173	0.0035	0.0008	02:46:43	Yes
Mean:	-0.20	-0.20	-0.0169				
SD :	0.004	0.004	0.0005				
%RSD:	2.2	2.2	2.9991				

99

Element: Hg Seq. No.: 99 AS Loc.: 84 Date: 06/24/2006
Sample ID: BF62231-pds1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.07	3.07	0.3565	0.3773	0.0770	02:48:06	Yes
2	3.04	3.04	0.3528	0.3736	0.0769	02:48:35	Yes
Mean:	3.06	3.06	0.3546				
SD :	0.023	0.023	0.0026				
%RSD:	0.8	0.8	0.7419				

1025

Element: Hg Seq. No.: 100 AS Loc.: 4 Date: 06/24/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.07	3.07	0.3558	0.3766	0.0768	02:49:58	Yes
2	3.04	3.04	0.3531	0.3739	0.0771	02:50:27	Yes
Mean:	3.06	3.06	0.3544				
SD :	0.017	0.017	0.0019				
%RSD:	0.6	0.6	0.5424				

QC value within specified limits.

Element: Hg Seq. No.: 101 AS Loc.: 1 Date: 06/24/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.12	-0.12	-0.0078	0.0130	0.0024	02:51:51	Yes
2	-0.13	-0.13	-0.0084	0.0124	0.0024	02:52:21	Yes
Mean:	-0.12	-0.12	-0.0081				
SD :	0.003	0.003	0.0004				
%RSD:	2.7	2.7	4.7927				

QC value within specified limits.

Metals
Logbooks

ESS LABORATORY
METALS PREP LOGBOOK

ANALYST: JWS
DATE: 6/23/06
TIME: 14:30
Batch ID: BF063D0

HNO_3 Reagent - AR#: 06050ID
1:1 HCl Reagent- WR#: 060616C
1:1 HNO_3 Reagent- WR#: 060530C
H_2O_2 Reagent- AR#: 060318

Hot Plate	Temp (°C)
HB# 1	95

Sample ID	matrix	pH	Initial wgt/vol	Final wgt/vol	QC ID/Lot #	QC wgt/vol	Method	Hot Plate Number	Comments
06374-13	S	~	1.78g	1ml	~	~	3050	HB# 1	
-14			1.93g						
BF063D0-MB2			1.77g		~	~			
MB1			1.77g		LCM037	0.5ml			
06375-02	S	~	1.87g	100ml	~	~	3050	HB# 1	
06374-15			1.85g						
-16	S	~	1.86g	1ml	~	~	3050	HB# 1	
06373-20			1.87g						
-21	S	~	1.82g	1ml	~	~	3050	HB# 1	

CONTROL# 30.0014-0603A Page_____

261

MATRIX KEY: AQ = AQUEOUS, S = SOIL, O = OIL, F = FILTER, D = SLUDGE

ESS LABORATORY
METALS PREP LOGBOOK

ANALYST: MB
DATE: 6/03/06
TIME: 14:30
Batch ID: BF60320

HNO_3 Reagent - AR# : 060501D
1:1 HCl Reagent- WR#: 060616C
1:1 HNO_3 Reagent- WR#: 060530E
H_2O_2 Reagent- AR#: A6070318

Hot Plate	Temp (°C)
HB#	95

Sample ID	matrix	pH	Initial wgt/vol	Final wgt/vol	QC ID/Lot #	QC wgt/vol	Method	Hot Plate Number	Comments
BF60320-BLK1	S	na	na	1mL	na	na	3050	HB#	
-BS1					6E04037	0.5mL			
-BSD1			"		6E04037	0.5mL			
-SRM1			1.0g		6AH050	na			
06377-01			1.8g		na				
-02			1.8g						
-03			2.5g						
-04			1.8g						
-05			1.8g						
-06			1.7g						
-07			3.1g						
-08			1.7g						
-09			2.9g						
-10			1.8g						
BF60320-DUP1			1.7g		na	na			
-MS1			1.9g		6E04037	0.5mL			
06379-11			2.0g		na	na			
-12	S	na	1.7g	1mL	na	na	3052	HB#	

CONTROL# 30.0014-0603A Page_____

MATRIX KEY: AQ = AQUEOUS, S = SOIL, O = OIL, F = FILTER, D = SLUDGE

ESS Laboratory
Mercury Soils Prep Logbook

Batch ID: BF62301

Analyst: MB

Date: 6/23/06

Reagent IDs:

Aqua Regia W0060623C

$KMnO_4$ W0060602C

Cal std ID*: 6F20030

$NaCl-NH_2OH*HCl$ W0060503B

ICV std ID**: 6F20031

Sample ID	Wgt (g)	Quality Control ID/Lot #	Spike wt/vol	COMMENTS	Final Vol (ml)	Bath #	Temp. (°C)	Time in	Time out
BF62301-BLK1	~	~	~		40	HB#3	95	12:00	12:30
-BS1		6F20031	0.12						
-BSD1	~	6F20031	0.12						
-SRM1	0.61g	6A11056	~						
06374-01	0.62g	~							
-02	0.67g								
-03	0.66g								
-04	0.62g								
-05	0.61g								
-06	0.60g								
-07	1.03g								
-08	0.64g								
-09	1.04g								
-10	0.61g								
BF62301-DUP1	0.66g	~	~						
-MS1	0.63g	6F20031	0.12						
-MSD1	0.64g	6F20031	0.12						
06374-11	0.75g	~	~						
-12	0.62g								
-13	0.61g								
-14	0.64g								
BF62301-DUP2	0.63g	~	~						
-MS2	0.63g	6F20031	0.12						
-MSD2	0.61g	6F20031	0.12						
06375-02	0.64g	~	~		40	HB#3	95	12:00	12:30

* Calibration standards are prepared daily at 0.0, 0.5, 1.0, 3.0, and 5.0 ppb. See SOP for preparation instructions.

**ICV is prepared daily at a concentration of 2.0 ppb. See SOP for preparation instructions.

ESS Laboratory

Mercury Soils Prep Logbook

Batch ID:

Analyst: MAB

Date: 6/23/06

Reagent IDs:

Aqua Regia [illegible]

$KMnO_4$ [illegible]

Cal std ID*: [illegible]

$NaCl-NH_2OH*HCl$ [illegible]

ICV std ID**: 6F23024

Sample ID	Wgt (g)	Quality Control ID/Lot #	Spike wt/vol	COMMENTS	Final Vol (ml)	Bath #	Temp. (°C)	Time in	Time out
06374-15	0.63g	〃	〃		40	HB#3	95	17:00	17:30
-16	0.65g	〃	〃		40	HB#3	95	|	|
06373-30	0.65g	|	|		|	|	|	|	|
-31	0.63g	〃	〃		40	HB#3	95	17:00	17:30

* Calibration standards are prepared daily at 0.0, 0.5, 1.0, 3.0, and 5.0 ppb. See SOP for preparation instructions.

**ICV is prepared daily at a concentration of 2.0 ppb. See SOP for preparation instructions.

CONTROL# 30.0011-0601A

PriorityPollutnT™/CLP Inorganic Soils - Hot Plate Digestions

Lot No. D045540
Revised: 09/12/05

Method 3050 HNO_3, H_2O_2, HCl

Parameter	Total Concentration[1]	Certified Value[2]	Performance Acceptance Limits™ [3]
TRACE METALS PriorityPollutnT™ (Catalog No. 540)	mg/Kg	mg/Kg	mg/Kg
Aluminum	55200*	7120	4120 - 10100
Antimony	241	86.2	D.L. - 192
Arsenic	171	146	116 - 176
Barium	1030*	351	288 - 414
Beryllium	70.4	62.2	51.0 - 73.4
Boron	132	97.2	54.3 - 140
Cadmium	105	91.9	74.9 - 109
Calcium	10100*	3900	3080 - 4720
Chromium	201	176	138 - 214
Cobalt	65.7	58.5	47.8 - 69.2
Copper	77.7	70.0	57.5 - 82.6
Iron	24400*	13900	6930 - 20800
Lead	86.9	68.1	54.9 - 81.3
Magnesium	3780*	2180	1680 - 2680
Manganese	479	210	168 - 252
Mercury	1.89	1.77	1.21 - 2.34
Molybdenum	33.2	26.5	20.9 - 32.1
Nickel	99.6	84.0	68.5 - 99.5
Potassium	32500*	2440	1700 - 3170
Selenium	83.0	73.0	55.1 - 90.8
Silver	101	93.0	57.0 - 129
Sodium	15200	697	388 - 1010
Strontium	241	35.7	28.5 - 42.9
Thallium	89.6	77.8	58.8 - 96.8
Tin	110	92.2	64.4 - 120
Titanium	3100*	283	112 - 454
Vanadium	195	148	111 - 185
Zinc	461	402	319 - 485

Method 3050 HNO_3, H_2O_2

Parameter	Total Concentration[1]	Certified Value[2]	Performance Acceptance Limits™ [3]
TRACE METALS PriorityPollutnT™ (Catalog No. 540)	mg/Kg	mg/Kg	mg/Kg
Aluminum	55200*	6280	3300 - 9260
Antimony	241	78.5	D.L. - 216
Arsenic	171	146	112 - 180
Barium	1030*	339	266 - 412
Beryllium	70.4	59.3	45.8 - 72.8
Boron	132	86.5	57.0 - 116
Cadmium	105	92.8	73.9 - 112
Calcium	10100*	3800	2870 - 4730
Chromium	201	172	135 - 209
Cobalt	65.7	54.5	43.8 - 65.2
Copper	77.7	67.0	53.8 - 80.2
Iron	24400*	12300	6800 - 17700
Lead	86.9	67.5	53.1 - 81.9
Magnesium	3780*	2110	1560 - 2660
Manganese	479	196	157 - 235
Mercury	1.89	1.77	1.21 - 2.34
Molybdenum	33.2	26.0	18.8 - 33.2
Nickel	99.6	80.0	65.0 - 95.0
Potassium	32500*	2310	1660 - 2950
Selenium	83.0	70.5	53.3 - 87.7
Silver	101	89.9	27.9 - 152
Sodium	15200	662	481 - 843
Strontium	241	33.2	25.3 - 41.0
Thallium	89.6	82.1	62.6 - 102
Tin	110	85.5	39.3 - 132
Titanium	3100*	218	83.6 - 352
Vanadium	195	136	103 - 169
Zinc	461	380	300 - 460

6A1056

Volatile Organics Data Package

VOA Low Level

Volatile Organics
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1301
Date Sampled: 06/22/06 11:30
Percent Solids: 80
Initial Volume: 7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-01
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	4.5	1	06/26/06
1,1,1-Trichloroethane	ND	ug/Kg dry	4.5	1	06/26/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	4.5	1	06/26/06
1,1,2-Trichloroethane	ND	ug/Kg dry	4.5	1	06/26/06
1,1-Dichloroethane	ND	ug/Kg dry	4.5	1	06/26/06
1,1-Dichloroethene	ND	ug/Kg dry	4.5	1	06/26/06
1,1-Dichloropropene	ND	ug/Kg dry	4.5	1	06/26/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	4.5	1	06/26/06
1,2,3-Trichloropropane	ND	ug/Kg dry	4.5	1	06/26/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	4.5	1	06/26/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	4.5	1	06/26/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	4.5	1	06/26/06
1,2-Dibromoethane	ND	ug/Kg dry	4.5	1	06/26/06
1,2-Dichlorobenzene	ND	ug/Kg dry	4.5	1	06/26/06
1,2-Dichloroethane	ND	ug/Kg dry	4.5	1	06/26/06
1,2-Dichloropropane	ND	ug/Kg dry	4.5	1	06/26/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	4.5	1	06/26/06
1,3-Dichlorobenzene	ND	ug/Kg dry	4.5	1	06/26/06
1,3-Dichloropropane	ND	ug/Kg dry	4.5	1	06/26/06
1,4-Dichlorobenzene	ND	ug/Kg dry	4.5	1	06/26/06
1,4-Dioxane - Screen	ND	ug/Kg dry	223	1	06/26/06
1-Chlorohexane	ND	ug/Kg dry	4.5	1	06/26/06
2,2-Dichloropropane	ND	ug/Kg dry	4.5	1	06/26/06
2-Butanone	ND	ug/Kg dry	44.6	1	06/26/06
2-Chlorotoluene	ND	ug/Kg dry	4.5	1	06/26/06
2-Hexanone	ND	ug/Kg dry	44.6	1	06/26/06
4-Chlorotoluene	ND	ug/Kg dry	4.5	1	06/26/06
4-Isopropyltoluene	ND	ug/Kg dry	4.5	1	06/26/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	44.6	1	06/26/06
Acetone	**105**	ug/Kg dry	44.6	1	06/26/06
Benzene	ND	ug/Kg dry	4.5	1	06/26/06
Bromobenzene	ND	ug/Kg dry	4.5	1	06/26/06
Bromochloromethane	ND	ug/Kg dry	4.5	1	06/26/06
Bromodichloromethane	ND	ug/Kg dry	4.5	1	06/26/06
Bromoform	ND	ug/Kg dry	4.5	1	06/26/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1301
Date Sampled: 06/22/06 11:30
Percent Solids: 80
Initial Volume: 7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-01
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	8.9	1	06/26/06
Carbon Disulfide	**4.6**	ug/Kg dry	4.5	1	06/26/06
Carbon Tetrachloride	ND	ug/Kg dry	4.5	1	06/26/06
Chlorobenzene	ND	ug/Kg dry	4.5	1	06/26/06
Chloroethane	ND	ug/Kg dry	8.9	1	06/26/06
Chloroform	ND	ug/Kg dry	4.5	1	06/26/06
Chloromethane	ND	ug/Kg dry	8.9	1	06/26/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	4.5	1	06/26/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	4.5	1	06/26/06
Dibromochloromethane	ND	ug/Kg dry	4.5	1	06/26/06
Dibromomethane	ND	ug/Kg dry	4.5	1	06/26/06
Dichlorodifluoromethane	ND	ug/Kg dry	8.9	1	06/26/06
Diethyl Ether	ND	ug/Kg dry	4.5	1	06/26/06
Di-isopropyl ether	ND	ug/Kg dry	4.5	1	06/26/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	4.5	1	06/26/06
Ethylbenzene	ND	ug/Kg dry	4.5	1	06/26/06
Hexachlorobutadiene	ND	ug/Kg dry	4.5	1	06/26/06
Isopropylbenzene	ND	ug/Kg dry	4.5	1	06/26/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	4.5	1	06/26/06
Methylene Chloride	ND	ug/Kg dry	22.3	1	06/26/06
Naphthalene	ND	ug/Kg dry	4.5	1	06/26/06
n-Butylbenzene	ND	ug/Kg dry	4.5	1	06/26/06
n-Propylbenzene	ND	ug/Kg dry	4.5	1	06/26/06
sec-Butylbenzene	ND	ug/Kg dry	4.5	1	06/26/06
Styrene	ND	ug/Kg dry	4.5	1	06/26/06
tert-Butylbenzene	ND	ug/Kg dry	4.5	1	06/26/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	4.5	1	06/26/06
Tetrachloroethene	ND	ug/Kg dry	4.5	1	06/26/06
Tetrahydrofuran	ND	ug/Kg dry	4.5	1	06/26/06
Toluene	ND	ug/Kg dry	4.5	1	06/26/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	4.5	1	06/26/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	4.5	1	06/26/06
Trichloroethene	ND	ug/Kg dry	4.5	1	06/26/06
Trichlorofluoromethane	ND	ug/Kg dry	4.5	1	06/26/06
Vinyl Chloride	ND	ug/Kg dry	8.9	1	06/26/06
Xylene O	ND	ug/Kg dry	4.5	1	06/26/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1301
Date Sampled: 06/22/06 11:30
Percent Solids: 80
Initial Volume: 7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-01
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	8.9		1	06/26/06
Xylenes (Total)	ND	ug/Kg dry	13.4			06/26/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*95 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*89 %*		*70-130*
Surrogate: Dibromofluoromethane	*101 %*		*70-130*
Surrogate: Toluene-d8	*98 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1303
Date Sampled: 06/22/06 11:50
Percent Solids: 80
Initial Volume: 6.2
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-02
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	5.0	1	06/26/06
1,1,1-Trichloroethane	ND	ug/Kg dry	5.0	1	06/26/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	5.0	1	06/26/06
1,1,2-Trichloroethane	ND	ug/Kg dry	5.0	1	06/26/06
1,1-Dichloroethane	ND	ug/Kg dry	5.0	1	06/26/06
1,1-Dichloroethene	ND	ug/Kg dry	5.0	1	06/26/06
1,1-Dichloropropene	ND	ug/Kg dry	5.0	1	06/26/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	5.0	1	06/26/06
1,2,3-Trichloropropane	ND	ug/Kg dry	5.0	1	06/26/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	5.0	1	06/26/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	5.0	1	06/26/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	5.0	1	06/26/06
1,2-Dibromoethane	ND	ug/Kg dry	5.0	1	06/26/06
1,2-Dichlorobenzene	ND	ug/Kg dry	5.0	1	06/26/06
1,2-Dichloroethane	ND	ug/Kg dry	5.0	1	06/26/06
1,2-Dichloropropane	ND	ug/Kg dry	5.0	1	06/26/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	5.0	1	06/26/06
1,3-Dichlorobenzene	ND	ug/Kg dry	5.0	1	06/26/06
1,3-Dichloropropane	ND	ug/Kg dry	5.0	1	06/26/06
1,4-Dichlorobenzene	ND	ug/Kg dry	5.0	1	06/26/06
1,4-Dioxane - Screen	ND	ug/Kg dry	252	1	06/26/06
1-Chlorohexane	ND	ug/Kg dry	5.0	1	06/26/06
2,2-Dichloropropane	ND	ug/Kg dry	5.0	1	06/26/06
2-Butanone	ND	ug/Kg dry	50.4	1	06/26/06
2-Chlorotoluene	ND	ug/Kg dry	5.0	1	06/26/06
2-Hexanone	ND	ug/Kg dry	50.4	1	06/26/06
4-Chlorotoluene	ND	ug/Kg dry	5.0	1	06/26/06
4-Isopropyltoluene	ND	ug/Kg dry	5.0	1	06/26/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	50.4	1	06/26/06
Acetone	ND	ug/Kg dry	50.4	1	06/26/06
Benzene	ND	ug/Kg dry	5.0	1	06/26/06
Bromobenzene	ND	ug/Kg dry	5.0	1	06/26/06
Bromochloromethane	ND	ug/Kg dry	5.0	1	06/26/06
Bromodichloromethane	ND	ug/Kg dry	5.0	1	06/26/06
Bromoform	ND	ug/Kg dry	5.0	1	06/26/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1303
Date Sampled: 06/22/06 11:50
Percent Solids: 80
Initial Volume: 6.2
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-02
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	10.1	1	06/26/06
Carbon Disulfide	ND	ug/Kg dry	5.0	1	06/26/06
Carbon Tetrachloride	ND	ug/Kg dry	5.0	1	06/26/06
Chlorobenzene	ND	ug/Kg dry	5.0	1	06/26/06
Chloroethane	ND	ug/Kg dry	10.1	1	06/26/06
Chloroform	ND	ug/Kg dry	5.0	1	06/26/06
Chloromethane	ND	ug/Kg dry	10.1	1	06/26/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	5.0	1	06/26/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	5.0	1	06/26/06
Dibromochloromethane	ND	ug/Kg dry	5.0	1	06/26/06
Dibromomethane	ND	ug/Kg dry	5.0	1	06/26/06
Dichlorodifluoromethane	ND	ug/Kg dry	10.1	1	06/26/06
Diethyl Ether	ND	ug/Kg dry	5.0	1	06/26/06
Di-isopropyl ether	ND	ug/Kg dry	5.0	1	06/26/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	5.0	1	06/26/06
Ethylbenzene	ND	ug/Kg dry	5.0	1	06/26/06
Hexachlorobutadiene	ND	ug/Kg dry	5.0	1	06/26/06
Isopropylbenzene	ND	ug/Kg dry	5.0	1	06/26/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	5.0	1	06/26/06
Methylene Chloride	ND	ug/Kg dry	25.2	1	06/26/06
Naphthalene	ND	ug/Kg dry	5.0	1	06/26/06
n-Butylbenzene	ND	ug/Kg dry	5.0	1	06/26/06
n-Propylbenzene	ND	ug/Kg dry	5.0	1	06/26/06
sec-Butylbenzene	ND	ug/Kg dry	5.0	1	06/26/06
Styrene	ND	ug/Kg dry	5.0	1	06/26/06
tert-Butylbenzene	ND	ug/Kg dry	5.0	1	06/26/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	5.0	1	06/26/06
Tetrachloroethene	ND	ug/Kg dry	5.0	1	06/26/06
Tetrahydrofuran	ND	ug/Kg dry	5.0	1	06/26/06
Toluene	ND	ug/Kg dry	5.0	1	06/26/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	5.0	1	06/26/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	5.0	1	06/26/06
Trichloroethene	ND	ug/Kg dry	5.0	1	06/26/06
Trichlorofluoromethane	ND	ug/Kg dry	5.0	1	06/26/06
Vinyl Chloride	ND	ug/Kg dry	10.1	1	06/26/06
Xylene O	ND	ug/Kg dry	5.0	1	06/26/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1303
Date Sampled: 06/22/06 11:50
Percent Solids: 80
Initial Volume: 6.2
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-02
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	10.1	1	06/26/06
Xylenes (Total)	ND	ug/Kg dry	15.1		06/26/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*96 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*95 %*		*70-130*
Surrogate: Dibromofluoromethane	*101 %*		*70-130*
Surrogate: Toluene-d8	*94 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1401
Date Sampled: 06/22/06 12:10
Percent Solids: 26
Initial Volume: 8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-03
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	12.0	1	06/27/06
1,1,1-Trichloroethane	ND	ug/Kg dry	12.0	1	06/27/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	12.0	1	06/27/06
1,1,2-Trichloroethane	ND	ug/Kg dry	12.0	1	06/27/06
1,1-Dichloroethane	ND	ug/Kg dry	12.0	1	06/27/06
1,1-Dichloroethene	ND	ug/Kg dry	12.0	1	06/27/06
1,1-Dichloropropene	ND	ug/Kg dry	12.0	1	06/27/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	12.0	1	06/27/06
1,2,3-Trichloropropane	ND	ug/Kg dry	12.0	1	06/27/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	12.0	1	06/27/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	12.0	1	06/27/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	12.0	1	06/27/06
1,2-Dibromoethane	ND	ug/Kg dry	12.0	1	06/27/06
1,2-Dichlorobenzene	ND	ug/Kg dry	12.0	1	06/27/06
1,2-Dichloroethane	ND	ug/Kg dry	12.0	1	06/27/06
1,2-Dichloropropane	ND	ug/Kg dry	12.0	1	06/27/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	12.0	1	06/27/06
1,3-Dichlorobenzene	ND	ug/Kg dry	12.0	1	06/27/06
1,3-Dichloropropane	ND	ug/Kg dry	12.0	1	06/27/06
1,4-Dichlorobenzene	ND	ug/Kg dry	12.0	1	06/27/06
1,4-Dioxane - Screen	ND	ug/Kg dry	601	1	06/27/06
1-Chlorohexane	ND	ug/Kg dry	12.0	1	06/27/06
2,2-Dichloropropane	ND	ug/Kg dry	12.0	1	06/27/06
2-Butanone	ND	ug/Kg dry	120	1	06/27/06
2-Chlorotoluene	ND	ug/Kg dry	12.0	1	06/27/06
2-Hexanone	ND	ug/Kg dry	120	1	06/27/06
4-Chlorotoluene	ND	ug/Kg dry	12.0	1	06/27/06
4-Isopropyltoluene	ND	ug/Kg dry	12.0	1	06/27/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	120	1	06/27/06
Acetone	**202**	ug/Kg dry	120	1	06/27/06
Benzene	ND	ug/Kg dry	12.0	1	06/27/06
Bromobenzene	ND	ug/Kg dry	12.0	1	06/27/06
Bromochloromethane	ND	ug/Kg dry	12.0	1	06/27/06
Bromodichloromethane	ND	ug/Kg dry	12.0	1	06/27/06
Bromoform	ND	ug/Kg dry	12.0	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1401
Date Sampled: 06/22/06 12:10
Percent Solids: 26
Initial Volume: 8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-03
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	24.0	1	06/27/06
Carbon Disulfide	ND	ug/Kg dry	12.0	1	06/27/06
Carbon Tetrachloride	ND	ug/Kg dry	12.0	1	06/27/06
Chlorobenzene	ND	ug/Kg dry	12.0	1	06/27/06
Chloroethane	ND	ug/Kg dry	24.0	1	06/27/06
Chloroform	ND	ug/Kg dry	12.0	1	06/27/06
Chloromethane	ND	ug/Kg dry	24.0	1	06/27/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	12.0	1	06/27/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	12.0	1	06/27/06
Dibromochloromethane	ND	ug/Kg dry	12.0	1	06/27/06
Dibromomethane	ND	ug/Kg dry	12.0	1	06/27/06
Dichlorodifluoromethane	ND	ug/Kg dry	24.0	1	06/27/06
Diethyl Ether	ND	ug/Kg dry	12.0	1	06/27/06
Di-isopropyl ether	ND	ug/Kg dry	12.0	1	06/27/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	12.0	1	06/27/06
Ethylbenzene	ND	ug/Kg dry	12.0	1	06/27/06
Hexachlorobutadiene	ND	ug/Kg dry	12.0	1	06/27/06
Isopropylbenzene	ND	ug/Kg dry	12.0	1	06/27/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	12.0	1	06/27/06
Methylene Chloride	ND	ug/Kg dry	60.1	1	06/27/06
Naphthalene	ND	ug/Kg dry	12.0	1	06/27/06
n-Butylbenzene	ND	ug/Kg dry	12.0	1	06/27/06
n-Propylbenzene	ND	ug/Kg dry	12.0	1	06/27/06
sec-Butylbenzene	ND	ug/Kg dry	12.0	1	06/27/06
Styrene	ND	ug/Kg dry	12.0	1	06/27/06
tert-Butylbenzene	ND	ug/Kg dry	12.0	1	06/27/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	12.0	1	06/27/06
Tetrachloroethene	ND	ug/Kg dry	12.0	1	06/27/06
Tetrahydrofuran	ND	ug/Kg dry	12.0	1	06/27/06
Toluene	ND	ug/Kg dry	12.0	1	06/27/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	12.0	1	06/27/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	12.0	1	06/27/06
Trichloroethene	ND	ug/Kg dry	12.0	1	06/27/06
Trichlorofluoromethane	ND	ug/Kg dry	12.0	1	06/27/06
Vinyl Chloride	ND	ug/Kg dry	24.0	1	06/27/06
Xylene O	ND	ug/Kg dry	12.0	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1401
Date Sampled: 06/22/06 12:10
Percent Solids: 26
Initial Volume: 8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-03
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	24.0	1	06/27/06
Xylenes (Total)	ND	ug/Kg dry	36.0		06/27/06

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*94 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*92 %*		*70-130*
Surrogate: Dibromofluoromethane	*101 %*		*70-130*
Surrogate: Toluene-d8	*97 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1403
Date Sampled: 06/22/06 12:15
Percent Solids: 71
Initial Volume: 6.9
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-04
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	5.1	1	06/26/06
1,1,1-Trichloroethane	ND	ug/Kg dry	5.1	1	06/26/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	5.1	1	06/26/06
1,1,2-Trichloroethane	ND	ug/Kg dry	5.1	1	06/26/06
1,1-Dichloroethane	ND	ug/Kg dry	5.1	1	06/26/06
1,1-Dichloroethene	ND	ug/Kg dry	5.1	1	06/26/06
1,1-Dichloropropene	ND	ug/Kg dry	5.1	1	06/26/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	5.1	1	06/26/06
1,2,3-Trichloropropane	ND	ug/Kg dry	5.1	1	06/26/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	5.1	1	06/26/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	5.1	1	06/26/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	5.1	1	06/26/06
1,2-Dibromoethane	ND	ug/Kg dry	5.1	1	06/26/06
1,2-Dichlorobenzene	ND	ug/Kg dry	5.1	1	06/26/06
1,2-Dichloroethane	ND	ug/Kg dry	5.1	1	06/26/06
1,2-Dichloropropane	ND	ug/Kg dry	5.1	1	06/26/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	5.1	1	06/26/06
1,3-Dichlorobenzene	ND	ug/Kg dry	5.1	1	06/26/06
1,3-Dichloropropane	ND	ug/Kg dry	5.1	1	06/26/06
1,4-Dichlorobenzene	ND	ug/Kg dry	5.1	1	06/26/06
1,4-Dioxane - Screen	ND	ug/Kg dry	255	1	06/26/06
1-Chlorohexane	ND	ug/Kg dry	5.1	1	06/26/06
2,2-Dichloropropane	ND	ug/Kg dry	5.1	1	06/26/06
2-Butanone	ND	ug/Kg dry	51.0	1	06/26/06
2-Chlorotoluene	ND	ug/Kg dry	5.1	1	06/26/06
2-Hexanone	ND	ug/Kg dry	51.0	1	06/26/06
4-Chlorotoluene	ND	ug/Kg dry	5.1	1	06/26/06
4-Isopropyltoluene	ND	ug/Kg dry	5.1	1	06/26/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	51.0	1	06/26/06
Acetone	**164**	ug/Kg dry	51.0	1	06/26/06
Benzene	ND	ug/Kg dry	5.1	1	06/26/06
Bromobenzene	ND	ug/Kg dry	5.1	1	06/26/06
Bromochloromethane	ND	ug/Kg dry	5.1	1	06/26/06
Bromodichloromethane	ND	ug/Kg dry	5.1	1	06/26/06
Bromoform	ND	ug/Kg dry	5.1	1	06/26/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1403
Date Sampled: 06/22/06 12:15
Percent Solids: 71
Initial Volume: 6.9
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-04
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	10.2	1	06/26/06
Carbon Disulfide	ND	ug/Kg dry	5.1	1	06/26/06
Carbon Tetrachloride	ND	ug/Kg dry	5.1	1	06/26/06
Chlorobenzene	ND	ug/Kg dry	5.1	1	06/26/06
Chloroethane	ND	ug/Kg dry	10.2	1	06/26/06
Chloroform	ND	ug/Kg dry	5.1	1	06/26/06
Chloromethane	ND	ug/Kg dry	10.2	1	06/26/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	5.1	1	06/26/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	5.1	1	06/26/06
Dibromochloromethane	ND	ug/Kg dry	5.1	1	06/26/06
Dibromomethane	ND	ug/Kg dry	5.1	1	06/26/06
Dichlorodifluoromethane	ND	ug/Kg dry	10.2	1	06/26/06
Diethyl Ether	ND	ug/Kg dry	5.1	1	06/26/06
Di-isopropyl ether	ND	ug/Kg dry	5.1	1	06/26/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	5.1	1	06/26/06
Ethylbenzene	ND	ug/Kg dry	5.1	1	06/26/06
Hexachlorobutadiene	ND	ug/Kg dry	5.1	1	06/26/06
Isopropylbenzene	ND	ug/Kg dry	5.1	1	06/26/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	5.1	1	06/26/06
Methylene Chloride	ND	ug/Kg dry	25.5	1	06/26/06
Naphthalene	ND	ug/Kg dry	5.1	1	06/26/06
n-Butylbenzene	ND	ug/Kg dry	5.1	1	06/26/06
n-Propylbenzene	ND	ug/Kg dry	5.1	1	06/26/06
sec-Butylbenzene	ND	ug/Kg dry	5.1	1	06/26/06
Styrene	ND	ug/Kg dry	5.1	1	06/26/06
tert-Butylbenzene	ND	ug/Kg dry	5.1	1	06/26/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	5.1	1	06/26/06
Tetrachloroethene	ND	ug/Kg dry	5.1	1	06/26/06
Tetrahydrofuran	ND	ug/Kg dry	5.1	1	06/26/06
Toluene	ND	ug/Kg dry	5.1	1	06/26/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	5.1	1	06/26/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	5.1	1	06/26/06
Trichloroethene	ND	ug/Kg dry	5.1	1	06/26/06
Trichlorofluoromethane	ND	ug/Kg dry	5.1	1	06/26/06
Vinyl Chloride	ND	ug/Kg dry	10.2	1	06/26/06
Xylene O	ND	ug/Kg dry	5.1	1	06/26/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1403
Date Sampled: 06/22/06 12:15
Percent Solids: 71
Initial Volume: 6.9
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-04
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	10.2	1	06/26/06
Xylenes (Total)	ND	ug/Kg dry	15.3		06/26/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*94 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*91 %*		*70-130*
Surrogate: Dibromofluoromethane	*101 %*		*70-130*
Surrogate: Toluene-d8	*97 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1501
Date Sampled: 06/22/06 12:30
Percent Solids: 81
Initial Volume: 6.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-05
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte		Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane		ND	ug/Kg dry	4.6	1	06/26/06
1,1,1-Trichloroethane	E	**610**	ug/Kg dry	4.6	1	06/26/06
1,1,2,2-Tetrachloroethane		ND	ug/Kg dry	4.6	1	06/26/06
1,1,2-Trichloroethane		ND	ug/Kg dry	4.6	1	06/26/06
1,1-Dichloroethane		**33.8**	ug/Kg dry	4.6	1	06/26/06
1,1-Dichloroethene		**46.7**	ug/Kg dry	4.6	1	06/26/06
1,1-Dichloropropene		ND	ug/Kg dry	4.6	1	06/26/06
1,2,3-Trichlorobenzene		ND	ug/Kg dry	4.6	1	06/26/06
1,2,3-Trichloropropane		ND	ug/Kg dry	4.6	1	06/26/06
1,2,4-Trichlorobenzene		ND	ug/Kg dry	4.6	1	06/26/06
1,2,4-Trimethylbenzene		ND	ug/Kg dry	4.6	1	06/26/06
1,2-Dibromo-3-Chloropropane		ND	ug/Kg dry	4.6	1	06/26/06
1,2-Dibromoethane		ND	ug/Kg dry	4.6	1	06/26/06
1,2-Dichlorobenzene		ND	ug/Kg dry	4.6	1	06/26/06
1,2-Dichloroethane		ND	ug/Kg dry	4.6	1	06/26/06
1,2-Dichloropropane		ND	ug/Kg dry	4.6	1	06/26/06
1,3,5-Trimethylbenzene		ND	ug/Kg dry	4.6	1	06/26/06
1,3-Dichlorobenzene		ND	ug/Kg dry	4.6	1	06/26/06
1,3-Dichloropropane		ND	ug/Kg dry	4.6	1	06/26/06
1,4-Dichlorobenzene		ND	ug/Kg dry	4.6	1	06/26/06
1,4-Dioxane - Screen		ND	ug/Kg dry	230	1	06/26/06
1-Chlorohexane		ND	ug/Kg dry	4.6	1	06/26/06
2,2-Dichloropropane		ND	ug/Kg dry	4.6	1	06/26/06
2-Butanone		ND	ug/Kg dry	46.1	1	06/26/06
2-Chlorotoluene		ND	ug/Kg dry	4.6	1	06/26/06
2-Hexanone		ND	ug/Kg dry	46.1	1	06/26/06
4-Chlorotoluene		ND	ug/Kg dry	4.6	1	06/26/06
4-Isopropyltoluene		ND	ug/Kg dry	4.6	1	06/26/06
4-Methyl-2-Pentanone		ND	ug/Kg dry	46.1	1	06/26/06
Acetone		ND	ug/Kg dry	46.1	1	06/26/06
Benzene		ND	ug/Kg dry	4.6	1	06/26/06
Bromobenzene		ND	ug/Kg dry	4.6	1	06/26/06
Bromochloromethane		ND	ug/Kg dry	4.6	1	06/26/06
Bromodichloromethane		ND	ug/Kg dry	4.6	1	06/26/06
Bromoform		ND	ug/Kg dry	4.6	1	06/26/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1501
Date Sampled: 06/22/06 12:30
Percent Solids: 81
Initial Volume: 6.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-05
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane		ND	ug/Kg dry	9.2	1	06/26/06
Carbon Disulfide		**21.0**	ug/Kg dry	4.6	1	06/26/06
Carbon Tetrachloride		ND	ug/Kg dry	4.6	1	06/26/06
Chlorobenzene		ND	ug/Kg dry	4.6	1	06/26/06
Chloroethane		ND	ug/Kg dry	9.2	1	06/26/06
Chloroform		ND	ug/Kg dry	4.6	1	06/26/06
Chloromethane		ND	ug/Kg dry	9.2	1	06/26/06
cis-1,2-Dichloroethene	E	**216**	ug/Kg dry	4.6	1	06/26/06
cis-1,3-Dichloropropene		ND	ug/Kg dry	4.6	1	06/26/06
Dibromochloromethane		ND	ug/Kg dry	4.6	1	06/26/06
Dibromomethane		ND	ug/Kg dry	4.6	1	06/26/06
Dichlorodifluoromethane		ND	ug/Kg dry	9.2	1	06/26/06
Diethyl Ether		ND	ug/Kg dry	4.6	1	06/26/06
Di-isopropyl ether		ND	ug/Kg dry	4.6	1	06/26/06
Ethyl tertiary-butyl ether		ND	ug/Kg dry	4.6	1	06/26/06
Ethylbenzene		ND	ug/Kg dry	4.6	1	06/26/06
Hexachlorobutadiene		ND	ug/Kg dry	4.6	1	06/26/06
Isopropylbenzene		ND	ug/Kg dry	4.6	1	06/26/06
Methyl tert-Butyl Ether		ND	ug/Kg dry	4.6	1	06/26/06
Methylene Chloride		ND	ug/Kg dry	23.0	1	06/26/06
Naphthalene		ND	ug/Kg dry	4.6	1	06/26/06
n-Butylbenzene		ND	ug/Kg dry	4.6	1	06/26/06
n-Propylbenzene		ND	ug/Kg dry	4.6	1	06/26/06
sec-Butylbenzene		ND	ug/Kg dry	4.6	1	06/26/06
Styrene		ND	ug/Kg dry	4.6	1	06/26/06
tert-Butylbenzene		ND	ug/Kg dry	4.6	1	06/26/06
Tertiary-amyl methyl ether		ND	ug/Kg dry	4.6	1	06/26/06
Tetrachloroethene		**16.1**	ug/Kg dry	4.6	1	06/26/06
Tetrahydrofuran		ND	ug/Kg dry	4.6	1	06/26/06
Toluene		ND	ug/Kg dry	4.6	1	06/26/06
trans-1,2-Dichloroethene		**5.3**	ug/Kg dry	4.6	1	06/26/06
trans-1,3-Dichloropropene		ND	ug/Kg dry	4.6	1	06/26/06
Trichloroethene	E	**541**	ug/Kg dry	4.6	1	06/26/06
Trichlorofluoromethane		ND	ug/Kg dry	4.6	1	06/26/06
Vinyl Chloride		ND	ug/Kg dry	9.2	1	06/26/06
Xylene O		ND	ug/Kg dry	4.6	1	06/26/06

281

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1501
Date Sampled: 06/22/06 12:30
Percent Solids: 81
Initial Volume: 6.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-05
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	9.2	1	06/26/06
Xylenes (Total)	ND	ug/Kg dry	13.8		06/26/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*97 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*94 %*		*70-130*
Surrogate: Dibromofluoromethane	*96 %*		*70-130*
Surrogate: Toluene-d8	*96 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1503
Date Sampled: 06/22/06 12:55
Percent Solids: 90
Initial Volume: 7.5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-06
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte		Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane		ND	ug/Kg dry	3.7	1	06/26/06
1,1,1-Trichloroethane	E	**234**	ug/Kg dry	3.7	1	06/26/06
1,1,2,2-Tetrachloroethane		ND	ug/Kg dry	3.7	1	06/26/06
1,1,2-Trichloroethane		ND	ug/Kg dry	3.7	1	06/26/06
1,1-Dichloroethane		**6.1**	ug/Kg dry	3.7	1	06/26/06
1,1-Dichloroethene		**17.4**	ug/Kg dry	3.7	1	06/26/06
1,1-Dichloropropene		ND	ug/Kg dry	3.7	1	06/26/06
1,2,3-Trichlorobenzene		ND	ug/Kg dry	3.7	1	06/26/06
1,2,3-Trichloropropane		ND	ug/Kg dry	3.7	1	06/26/06
1,2,4-Trichlorobenzene		ND	ug/Kg dry	3.7	1	06/26/06
1,2,4-Trimethylbenzene		ND	ug/Kg dry	3.7	1	06/26/06
1,2-Dibromo-3-Chloropropane		ND	ug/Kg dry	3.7	1	06/26/06
1,2-Dibromoethane		ND	ug/Kg dry	3.7	1	06/26/06
1,2-Dichlorobenzene		ND	ug/Kg dry	3.7	1	06/26/06
1,2-Dichloroethane		ND	ug/Kg dry	3.7	1	06/26/06
1,2-Dichloropropane		ND	ug/Kg dry	3.7	1	06/26/06
1,3,5-Trimethylbenzene		ND	ug/Kg dry	3.7	1	06/26/06
1,3-Dichlorobenzene		ND	ug/Kg dry	3.7	1	06/26/06
1,3-Dichloropropane		ND	ug/Kg dry	3.7	1	06/26/06
1,4-Dichlorobenzene		ND	ug/Kg dry	3.7	1	06/26/06
1,4-Dioxane - Screen		ND	ug/Kg dry	185	1	06/26/06
1-Chlorohexane		ND	ug/Kg dry	3.7	1	06/26/06
2,2-Dichloropropane		ND	ug/Kg dry	3.7	1	06/26/06
2-Butanone		ND	ug/Kg dry	37.0	1	06/26/06
2-Chlorotoluene		ND	ug/Kg dry	3.7	1	06/26/06
2-Hexanone		ND	ug/Kg dry	37.0	1	06/26/06
4-Chlorotoluene		ND	ug/Kg dry	3.7	1	06/26/06
4-Isopropyltoluene		ND	ug/Kg dry	3.7	1	06/26/06
4-Methyl-2-Pentanone		ND	ug/Kg dry	37.0	1	06/26/06
Acetone		ND	ug/Kg dry	37.0	1	06/26/06
Benzene		ND	ug/Kg dry	3.7	1	06/26/06
Bromobenzene		ND	ug/Kg dry	3.7	1	06/26/06
Bromochloromethane		ND	ug/Kg dry	3.7	1	06/26/06
Bromodichloromethane		ND	ug/Kg dry	3.7	1	06/26/06
Bromoform		ND	ug/Kg dry	3.7	1	06/26/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1503
Date Sampled: 06/22/06 12:55
Percent Solids: 90
Initial Volume: 7.5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-06
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane		ND	ug/Kg dry	7.4		1	06/26/06
Carbon Disulfide		ND	ug/Kg dry	3.7		1	06/26/06
Carbon Tetrachloride		ND	ug/Kg dry	3.7		1	06/26/06
Chlorobenzene		ND	ug/Kg dry	3.7		1	06/26/06
Chloroethane		ND	ug/Kg dry	7.4		1	06/26/06
Chloroform		ND	ug/Kg dry	3.7		1	06/26/06
Chloromethane		ND	ug/Kg dry	7.4		1	06/26/06
cis-1,2-Dichloroethene		**4.0**	ug/Kg dry	3.7		1	06/26/06
cis-1,3-Dichloropropene		ND	ug/Kg dry	3.7		1	06/26/06
Dibromochloromethane		ND	ug/Kg dry	3.7		1	06/26/06
Dibromomethane		ND	ug/Kg dry	3.7		1	06/26/06
Dichlorodifluoromethane		ND	ug/Kg dry	7.4		1	06/26/06
Diethyl Ether		ND	ug/Kg dry	3.7		1	06/26/06
Di-isopropyl ether		ND	ug/Kg dry	3.7		1	06/26/06
Ethyl tertiary-butyl ether		ND	ug/Kg dry	3.7		1	06/26/06
Ethylbenzene		ND	ug/Kg dry	3.7		1	06/26/06
Hexachlorobutadiene		ND	ug/Kg dry	3.7		1	06/26/06
Isopropylbenzene		ND	ug/Kg dry	3.7		1	06/26/06
Methyl tert-Butyl Ether		ND	ug/Kg dry	3.7		1	06/26/06
Methylene Chloride		ND	ug/Kg dry	18.5		1	06/26/06
Naphthalene		ND	ug/Kg dry	3.7		1	06/26/06
n-Butylbenzene		ND	ug/Kg dry	3.7		1	06/26/06
n-Propylbenzene		ND	ug/Kg dry	3.7		1	06/26/06
sec-Butylbenzene		ND	ug/Kg dry	3.7		1	06/26/06
Styrene		ND	ug/Kg dry	3.7		1	06/26/06
tert-Butylbenzene		ND	ug/Kg dry	3.7		1	06/26/06
Tertiary-amyl methyl ether		ND	ug/Kg dry	3.7		1	06/26/06
Tetrachloroethene		**4.0**	ug/Kg dry	3.7		1	06/26/06
Tetrahydrofuran		ND	ug/Kg dry	3.7		1	06/26/06
Toluene		ND	ug/Kg dry	3.7		1	06/26/06
trans-1,2-Dichloroethene		ND	ug/Kg dry	3.7		1	06/26/06
trans-1,3-Dichloropropene		ND	ug/Kg dry	3.7		1	06/26/06
Trichloroethene	E	**224**	ug/Kg dry	3.7		1	06/26/06
Trichlorofluoromethane		ND	ug/Kg dry	3.7		1	06/26/06
Vinyl Chloride		ND	ug/Kg dry	7.4		1	06/26/06
Xylene O		ND	ug/Kg dry	3.7		1	06/26/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1503
Date Sampled: 06/22/06 12:55
Percent Solids: 90
Initial Volume: 7.5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-06
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	7.4	1	06/26/06
Xylenes (Total)	ND	ug/Kg dry	11.1		06/26/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*96 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*95 %*		*70-130*
Surrogate: Dibromofluoromethane	*98 %*		*70-130*
Surrogate: Toluene-d8	*94 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1601
Date Sampled: 06/22/06 13:15
Percent Solids: 14
Initial Volume: 7.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-07
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	23.5	1	06/27/06
1,1,1-Trichloroethane	ND	ug/Kg dry	23.5	1	06/27/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	23.5	1	06/27/06
1,1,2-Trichloroethane	ND	ug/Kg dry	23.5	1	06/27/06
1,1-Dichloroethane	ND	ug/Kg dry	23.5	1	06/27/06
1,1-Dichloroethene	ND	ug/Kg dry	23.5	1	06/27/06
1,1-Dichloropropene	ND	ug/Kg dry	23.5	1	06/27/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	23.5	1	06/27/06
1,2,3-Trichloropropane	ND	ug/Kg dry	23.5	1	06/27/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	23.5	1	06/27/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	23.5	1	06/27/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	23.5	1	06/27/06
1,2-Dibromoethane	ND	ug/Kg dry	23.5	1	06/27/06
1,2-Dichlorobenzene	ND	ug/Kg dry	23.5	1	06/27/06
1,2-Dichloroethane	ND	ug/Kg dry	23.5	1	06/27/06
1,2-Dichloropropane	ND	ug/Kg dry	23.5	1	06/27/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	23.5	1	06/27/06
1,3-Dichlorobenzene	ND	ug/Kg dry	23.5	1	06/27/06
1,3-Dichloropropane	ND	ug/Kg dry	23.5	1	06/27/06
1,4-Dichlorobenzene	ND	ug/Kg dry	23.5	1	06/27/06
1,4-Dioxane - Screen	ND	ug/Kg dry	1170	1	06/27/06
1-Chlorohexane	ND	ug/Kg dry	23.5	1	06/27/06
2,2-Dichloropropane	ND	ug/Kg dry	23.5	1	06/27/06
2-Butanone	ND	ug/Kg dry	235	1	06/27/06
2-Chlorotoluene	ND	ug/Kg dry	23.5	1	06/27/06
2-Hexanone	ND	ug/Kg dry	235	1	06/27/06
4-Chlorotoluene	ND	ug/Kg dry	23.5	1	06/27/06
4-Isopropyltoluene	ND	ug/Kg dry	23.5	1	06/27/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	235	1	06/27/06
Acetone	ND	ug/Kg dry	235	1	06/27/06
Benzene	ND	ug/Kg dry	23.5	1	06/27/06
Bromobenzene	ND	ug/Kg dry	23.5	1	06/27/06
Bromochloromethane	ND	ug/Kg dry	23.5	1	06/27/06
Bromodichloromethane	ND	ug/Kg dry	23.5	1	06/27/06
Bromoform	ND	ug/Kg dry	23.5	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1601
Date Sampled: 06/22/06 13:15
Percent Solids: 14
Initial Volume: 7.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-07
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	47.0	1	06/27/06
Carbon Disulfide	ND	ug/Kg dry	23.5	1	06/27/06
Carbon Tetrachloride	ND	ug/Kg dry	23.5	1	06/27/06
Chlorobenzene	ND	ug/Kg dry	23.5	1	06/27/06
Chloroethane	ND	ug/Kg dry	47.0	1	06/27/06
Chloroform	ND	ug/Kg dry	23.5	1	06/27/06
Chloromethane	ND	ug/Kg dry	47.0	1	06/27/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	23.5	1	06/27/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	23.5	1	06/27/06
Dibromochloromethane	ND	ug/Kg dry	23.5	1	06/27/06
Dibromomethane	ND	ug/Kg dry	23.5	1	06/27/06
Dichlorodifluoromethane	ND	ug/Kg dry	47.0	1	06/27/06
Diethyl Ether	ND	ug/Kg dry	23.5	1	06/27/06
Di-isopropyl ether	ND	ug/Kg dry	23.5	1	06/27/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	23.5	1	06/27/06
Ethylbenzene	ND	ug/Kg dry	23.5	1	06/27/06
Hexachlorobutadiene	ND	ug/Kg dry	23.5	1	06/27/06
Isopropylbenzene	ND	ug/Kg dry	23.5	1	06/27/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	23.5	1	06/27/06
Methylene Chloride	ND	ug/Kg dry	117	1	06/27/06
Naphthalene	ND	ug/Kg dry	23.5	1	06/27/06
n-Butylbenzene	ND	ug/Kg dry	23.5	1	06/27/06
n-Propylbenzene	ND	ug/Kg dry	23.5	1	06/27/06
sec-Butylbenzene	ND	ug/Kg dry	23.5	1	06/27/06
Styrene	ND	ug/Kg dry	23.5	1	06/27/06
tert-Butylbenzene	ND	ug/Kg dry	23.5	1	06/27/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	23.5	1	06/27/06
Tetrachloroethene	ND	ug/Kg dry	23.5	1	06/27/06
Tetrahydrofuran	ND	ug/Kg dry	23.5	1	06/27/06
Toluene	ND	ug/Kg dry	23.5	1	06/27/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	23.5	1	06/27/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	23.5	1	06/27/06
Trichloroethene	ND	ug/Kg dry	23.5	1	06/27/06
Trichlorofluoromethane	ND	ug/Kg dry	23.5	1	06/27/06
Vinyl Chloride	ND	ug/Kg dry	47.0	1	06/27/06
Xylene O	ND	ug/Kg dry	23.5	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1601
Date Sampled: 06/22/06 13:15
Percent Solids: 14
Initial Volume: 7.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-07
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	47.0	1	06/27/06
Xylenes (Total)	ND	ug/Kg dry	70.5		06/27/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*91 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*91 %*		*70-130*
Surrogate: Dibromofluoromethane	*100 %*		*70-130*
Surrogate: Toluene-d8	*97 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1603
Date Sampled: 06/22/06 13:30
Percent Solids: 80
Initial Volume: 6.9
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-08
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	4.5	1	06/26/06
1,1,1-Trichloroethane	ND	ug/Kg dry	4.5	1	06/26/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	4.5	1	06/26/06
1,1,2-Trichloroethane	ND	ug/Kg dry	4.5	1	06/26/06
1,1-Dichloroethane	ND	ug/Kg dry	4.5	1	06/26/06
1,1-Dichloroethene	ND	ug/Kg dry	4.5	1	06/26/06
1,1-Dichloropropene	ND	ug/Kg dry	4.5	1	06/26/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	4.5	1	06/26/06
1,2,3-Trichloropropane	ND	ug/Kg dry	4.5	1	06/26/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	4.5	1	06/26/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	4.5	1	06/26/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	4.5	1	06/26/06
1,2-Dibromoethane	ND	ug/Kg dry	4.5	1	06/26/06
1,2-Dichlorobenzene	ND	ug/Kg dry	4.5	1	06/26/06
1,2-Dichloroethane	ND	ug/Kg dry	4.5	1	06/26/06
1,2-Dichloropropane	ND	ug/Kg dry	4.5	1	06/26/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	4.5	1	06/26/06
1,3-Dichlorobenzene	ND	ug/Kg dry	4.5	1	06/26/06
1,3-Dichloropropane	ND	ug/Kg dry	4.5	1	06/26/06
1,4-Dichlorobenzene	ND	ug/Kg dry	4.5	1	06/26/06
1,4-Dioxane - Screen	ND	ug/Kg dry	226	1	06/26/06
1-Chlorohexane	ND	ug/Kg dry	4.5	1	06/26/06
2,2-Dichloropropane	ND	ug/Kg dry	4.5	1	06/26/06
2-Butanone	ND	ug/Kg dry	45.3	1	06/26/06
2-Chlorotoluene	ND	ug/Kg dry	4.5	1	06/26/06
2-Hexanone	ND	ug/Kg dry	45.3	1	06/26/06
4-Chlorotoluene	ND	ug/Kg dry	4.5	1	06/26/06
4-Isopropyltoluene	ND	ug/Kg dry	4.5	1	06/26/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	45.3	1	06/26/06
Acetone	ND	ug/Kg dry	45.3	1	06/26/06
Benzene	ND	ug/Kg dry	4.5	1	06/26/06
Bromobenzene	ND	ug/Kg dry	4.5	1	06/26/06
Bromochloromethane	ND	ug/Kg dry	4.5	1	06/26/06
Bromodichloromethane	ND	ug/Kg dry	4.5	1	06/26/06
Bromoform	ND	ug/Kg dry	4.5	1	06/26/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1603
Date Sampled: 06/22/06 13:30
Percent Solids: 80
Initial Volume: 6.9
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-08
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	9.1	1	06/26/06
Carbon Disulfide	ND	ug/Kg dry	4.5	1	06/26/06
Carbon Tetrachloride	ND	ug/Kg dry	4.5	1	06/26/06
Chlorobenzene	ND	ug/Kg dry	4.5	1	06/26/06
Chloroethane	ND	ug/Kg dry	9.1	1	06/26/06
Chloroform	ND	ug/Kg dry	4.5	1	06/26/06
Chloromethane	ND	ug/Kg dry	9.1	1	06/26/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	4.5	1	06/26/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	4.5	1	06/26/06
Dibromochloromethane	ND	ug/Kg dry	4.5	1	06/26/06
Dibromomethane	ND	ug/Kg dry	4.5	1	06/26/06
Dichlorodifluoromethane	ND	ug/Kg dry	9.1	1	06/26/06
Diethyl Ether	ND	ug/Kg dry	4.5	1	06/26/06
Di-isopropyl ether	ND	ug/Kg dry	4.5	1	06/26/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	4.5	1	06/26/06
Ethylbenzene	ND	ug/Kg dry	4.5	1	06/26/06
Hexachlorobutadiene	ND	ug/Kg dry	4.5	1	06/26/06
Isopropylbenzene	ND	ug/Kg dry	4.5	1	06/26/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	4.5	1	06/26/06
Methylene Chloride	ND	ug/Kg dry	22.6	1	06/26/06
Naphthalene	ND	ug/Kg dry	4.5	1	06/26/06
n-Butylbenzene	ND	ug/Kg dry	4.5	1	06/26/06
n-Propylbenzene	ND	ug/Kg dry	4.5	1	06/26/06
sec-Butylbenzene	ND	ug/Kg dry	4.5	1	06/26/06
Styrene	ND	ug/Kg dry	4.5	1	06/26/06
tert-Butylbenzene	ND	ug/Kg dry	4.5	1	06/26/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	4.5	1	06/26/06
Tetrachloroethene	ND	ug/Kg dry	4.5	1	06/26/06
Tetrahydrofuran	ND	ug/Kg dry	4.5	1	06/26/06
Toluene	ND	ug/Kg dry	4.5	1	06/26/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	4.5	1	06/26/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	4.5	1	06/26/06
Trichloroethene	ND	ug/Kg dry	4.5	1	06/26/06
Trichlorofluoromethane	ND	ug/Kg dry	4.5	1	06/26/06
Vinyl Chloride	ND	ug/Kg dry	9.1	1	06/26/06
Xylene O	ND	ug/Kg dry	4.290	1	06/26/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1603
Date Sampled: 06/22/06 13:30
Percent Solids: 80
Initial Volume: 6.9
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-08
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	9.1	1	06/26/06
Xylenes (Total)	ND	ug/Kg dry	13.6		06/26/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*98 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*94 %*		*70-130*
Surrogate: Dibromofluoromethane	*102 %*		*70-130*
Surrogate: Toluene-d8	*94 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1801
Date Sampled: 06/22/06 14:00
Percent Solids: 13
Initial Volume: 3.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-09
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte		Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	E	ND	ug/Kg dry	50.6	1	06/26/06
1,1,1-Trichloroethane	E	ND	ug/Kg dry	50.6	1	06/26/06
1,1,2,2-Tetrachloroethane	E	ND	ug/Kg dry	50.6	1	06/26/06
1,1,2-Trichloroethane	E	ND	ug/Kg dry	50.6	1	06/26/06
1,1-Dichloroethane	E	ND	ug/Kg dry	50.6	1	06/26/06
1,1-Dichloroethene	E	ND	ug/Kg dry	50.6	1	06/26/06
1,1-Dichloropropene	E	ND	ug/Kg dry	50.6	1	06/26/06
1,2,3-Trichlorobenzene	E	ND	ug/Kg dry	50.6	1	06/26/06
1,2,3-Trichloropropane	E	ND	ug/Kg dry	50.6	1	06/26/06
1,2,4-Trichlorobenzene	E	ND	ug/Kg dry	50.6	1	06/26/06
1,2,4-Trimethylbenzene	E	ND	ug/Kg dry	50.6	1	06/26/06
1,2-Dibromo-3-Chloropropane	E	ND	ug/Kg dry	50.6	1	06/26/06
1,2-Dibromoethane	E	ND	ug/Kg dry	50.6	1	06/26/06
1,2-Dichlorobenzene	E	ND	ug/Kg dry	50.6	1	06/26/06
1,2-Dichloroethane	E	ND	ug/Kg dry	50.6	1	06/26/06
1,2-Dichloropropane	E	ND	ug/Kg dry	50.6	1	06/26/06
1,3,5-Trimethylbenzene	E	ND	ug/Kg dry	50.6	1	06/26/06
1,3-Dichlorobenzene	E	ND	ug/Kg dry	50.6	1	06/26/06
1,3-Dichloropropane	E	ND	ug/Kg dry	50.6	1	06/26/06
1,4-Dichlorobenzene	E	ND	ug/Kg dry	50.6	1	06/26/06
1,4-Dioxane - Screen	E	ND	ug/Kg dry	2530	1	06/26/06
1-Chlorohexane	E	ND	ug/Kg dry	50.6	1	06/26/06
2,2-Dichloropropane	E	ND	ug/Kg dry	50.6	1	06/26/06
2-Butanone	E	ND	ug/Kg dry	506	1	06/26/06
2-Chlorotoluene	E	ND	ug/Kg dry	50.6	1	06/26/06
2-Hexanone	E	ND	ug/Kg dry	506	1	06/26/06
4-Chlorotoluene	E	ND	ug/Kg dry	50.6	1	06/26/06
4-Isopropyltoluene	E	ND	ug/Kg dry	50.6	1	06/26/06
4-Methyl-2-Pentanone	E	ND	ug/Kg dry	506	1	06/26/06
Acetone	E	**1900**	ug/Kg dry	506	1	06/26/06
Benzene	E	ND	ug/Kg dry	50.6	1	06/26/06
Bromobenzene	E	ND	ug/Kg dry	50.6	1	06/26/06
Bromochloromethane	E	ND	ug/Kg dry	50.6	1	06/26/06
Bromodichloromethane	E	ND	ug/Kg dry	50.6	1	06/26/06
Bromoform	E	ND	ug/Kg dry	50.6	1	06/26/06

REVISED JUL 25 2006

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1801
Date Sampled: 06/22/06 14:00
Percent Solids: 13
Initial Volume: 3.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-09
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	E	ND	ug/Kg dry	101		1	06/26/06
Carbon Disulfide	E	ND	ug/Kg dry	50.6		1	06/26/06
Carbon Tetrachloride	E	ND	ug/Kg dry	50.6		1	06/26/06
Chlorobenzene	E	ND	ug/Kg dry	50.6		1	06/26/06
Chloroethane	E	ND	ug/Kg dry	101		1	06/26/06
Chloroform	E	ND	ug/Kg dry	50.6		1	06/26/06
Chloromethane	E	ND	ug/Kg dry	101		1	06/26/06
cis-1,2-Dichloroethene	E	ND	ug/Kg dry	50.6		1	06/26/06
cis-1,3-Dichloropropene	E	ND	ug/Kg dry	50.6		1	06/26/06
Dibromochloromethane	E	ND	ug/Kg dry	50.6		1	06/26/06
Dibromomethane	E	ND	ug/Kg dry	50.6		1	06/26/06
Dichlorodifluoromethane	E	ND	ug/Kg dry	101		1	06/26/06
Diethyl Ether	E	ND	ug/Kg dry	50.6		1	06/26/06
Di-isopropyl ether	E	ND	ug/Kg dry	50.6		1	06/26/06
Ethyl tertiary-butyl ether	E	ND	ug/Kg dry	50.6		1	06/26/06
Ethylbenzene	E	ND	ug/Kg dry	50.6		1	06/26/06
Hexachlorobutadiene	E	ND	ug/Kg dry	50.6		1	06/26/06
Isopropylbenzene	E	ND	ug/Kg dry	50.6		1	06/26/06
Methyl tert-Butyl Ether	E	ND	ug/Kg dry	50.6		1	06/26/06
Methylene Chloride	E	ND	ug/Kg dry	253		1	06/26/06
Naphthalene	E	ND	ug/Kg dry	50.6		1	06/26/06
n-Butylbenzene	E	ND	ug/Kg dry	50.6		1	06/26/06
n-Propylbenzene	E	ND	ug/Kg dry	50.6		1	06/26/06
sec-Butylbenzene	E	ND	ug/Kg dry	50.6		1	06/26/06
Styrene	E	ND	ug/Kg dry	50.6		1	06/26/06
tert-Butylbenzene	E	ND	ug/Kg dry	50.6		1	06/26/06
Tertiary-amyl methyl ether	E	ND	ug/Kg dry	50.6		1	06/26/06
Tetrachloroethene	E	ND	ug/Kg dry	50.6		1	06/26/06
Tetrahydrofuran	E	ND	ug/Kg dry	50.6		1	06/26/06
Toluene	E	ND	ug/Kg dry	50.6		1	06/26/06
trans-1,2-Dichloroethene	E	ND	ug/Kg dry	50.6		1	06/26/06
trans-1,3-Dichloropropene	E	ND	ug/Kg dry	50.6		1	06/26/06
Trichloroethene	E	ND	ug/Kg dry	50.6		1	06/26/06
Trichlorofluoromethane	E	ND	ug/Kg dry	50.6		1	06/26/06
Vinyl Chloride	E	ND	ug/Kg dry	101		1	06/26/06
Xylene O	E	ND	ug/Kg dry	50.6		1	06/26/06

REVISED JUL. 2, 2006

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1801
Date Sampled: 06/22/06 14:00
Percent Solids: 13
Initial Volume: 3.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-09
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	E	ND	ug/Kg dry	101	1	06/26/06
Xylenes (Total)	E	ND	ug/Kg dry	152		06/26/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*100 %*	*E*	*70-130*
Surrogate: 4-Bromofluorobenzene	*101 %*	*E*	*70-130*
Surrogate: Dibromofluoromethane	*111 %*	*E*	*70-130*
Surrogate: Toluene-d8	*85 %*	*E*	*70-130*

REVISED
JUL 25 2006

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1804
Date Sampled: 06/22/06 14:20
Percent Solids: 17
Initial Volume: 4.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-10
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	31.3	1	06/26/06
1,1,1-Trichloroethane	ND	ug/Kg dry	31.3	1	06/26/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	31.3	1	06/26/06
1,1,2-Trichloroethane	ND	ug/Kg dry	31.3	1	06/26/06
1,1-Dichloroethane	ND	ug/Kg dry	31.3	1	06/26/06
1,1-Dichloroethene	ND	ug/Kg dry	31.3	1	06/26/06
1,1-Dichloropropene	ND	ug/Kg dry	31.3	1	06/26/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	31.3	1	06/26/06
1,2,3-Trichloropropane	ND	ug/Kg dry	31.3	1	06/26/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	31.3	1	06/26/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	31.3	1	06/26/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	31.3	1	06/26/06
1,2-Dibromoethane	ND	ug/Kg dry	31.3	1	06/26/06
1,2-Dichlorobenzene	ND	ug/Kg dry	31.3	1	06/26/06
1,2-Dichloroethane	ND	ug/Kg dry	31.3	1	06/26/06
1,2-Dichloropropane	ND	ug/Kg dry	31.3	1	06/26/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	31.3	1	06/26/06
1,3-Dichlorobenzene	ND	ug/Kg dry	31.3	1	06/26/06
1,3-Dichloropropane	ND	ug/Kg dry	31.3	1	06/26/06
1,4-Dichlorobenzene	ND	ug/Kg dry	31.3	1	06/26/06
1,4-Dioxane - Screen	ND	ug/Kg dry	1560	1	06/26/06
1-Chlorohexane	ND	ug/Kg dry	31.3	1	06/26/06
2,2-Dichloropropane	ND	ug/Kg dry	31.3	1	06/26/06
2-Butanone	ND	ug/Kg dry	313	1	06/26/06
2-Chlorotoluene	ND	ug/Kg dry	31.3	1	06/26/06
2-Hexanone	ND	ug/Kg dry	313	1	06/26/06
4-Chlorotoluene	ND	ug/Kg dry	31.3	1	06/26/06
4-Isopropyltoluene	ND	ug/Kg dry	31.3	1	06/26/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	313	1	06/26/06
Acetone	**796**	ug/Kg dry	313	1	06/26/06
Benzene	ND	ug/Kg dry	31.3	1	06/26/06
Bromobenzene	ND	ug/Kg dry	31.3	1	06/26/06
Bromochloromethane	ND	ug/Kg dry	31.3	1	06/26/06
Bromodichloromethane	ND	ug/Kg dry	31.3	1	06/26/06
Bromoform	ND	ug/Kg dry	31.3	1	06/26/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1804
Date Sampled: 06/22/06 14:20
Percent Solids: 17
Initial Volume: 4.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-10
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	62.6	1	06/26/06
Carbon Disulfide	ND	ug/Kg dry	31.3	1	06/26/06
Carbon Tetrachloride	ND	ug/Kg dry	31.3	1	06/26/06
Chlorobenzene	ND	ug/Kg dry	31.3	1	06/26/06
Chloroethane	ND	ug/Kg dry	62.6	1	06/26/06
Chloroform	ND	ug/Kg dry	31.3	1	06/26/06
Chloromethane	ND	ug/Kg dry	62.6	1	06/26/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	31.3	1	06/26/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	31.3	1	06/26/06
Dibromochloromethane	ND	ug/Kg dry	31.3	1	06/26/06
Dibromomethane	ND	ug/Kg dry	31.3	1	06/26/06
Dichlorodifluoromethane	ND	ug/Kg dry	62.6	1	06/26/06
Diethyl Ether	ND	ug/Kg dry	31.3	1	06/26/06
Di-isopropyl ether	ND	ug/Kg dry	31.3	1	06/26/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	31.3	1	06/26/06
Ethylbenzene	ND	ug/Kg dry	31.3	1	06/26/06
Hexachlorobutadiene	ND	ug/Kg dry	31.3	1	06/26/06
Isopropylbenzene	ND	ug/Kg dry	31.3	1	06/26/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	31.3	1	06/26/06
Methylene Chloride	ND	ug/Kg dry	156	1	06/26/06
Naphthalene	ND	ug/Kg dry	31.3	1	06/26/06
n-Butylbenzene	ND	ug/Kg dry	31.3	1	06/26/06
n-Propylbenzene	ND	ug/Kg dry	31.3	1	06/26/06
sec-Butylbenzene	ND	ug/Kg dry	31.3	1	06/26/06
Styrene	ND	ug/Kg dry	31.3	1	06/26/06
tert-Butylbenzene	ND	ug/Kg dry	31.3	1	06/26/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	31.3	1	06/26/06
Tetrachloroethene	ND	ug/Kg dry	31.3	1	06/26/06
Tetrahydrofuran	ND	ug/Kg dry	31.3	1	06/26/06
Toluene	ND	ug/Kg dry	31.3	1	06/26/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	31.3	1	06/26/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	31.3	1	06/26/06
Trichloroethene	ND	ug/Kg dry	31.3	1	06/26/06
Trichlorofluoromethane	ND	ug/Kg dry	31.3	1	06/26/06
Vinyl Chloride	**107**	ug/Kg dry	62.6	1	06/26/06
Xylene O	ND	ug/Kg dry	31.3	1	06/26/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1804
Date Sampled: 06/22/06 14:20
Percent Solids: 17
Initial Volume: 4.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-10
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	62.6	1	06/26/06
Xylenes (Total)	ND	ug/Kg dry	93.9		06/26/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*93 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*85 %*		*70-130*
Surrogate: Dibromofluoromethane	*100 %*		*70-130*
Surrogate: Toluene-d8	*101 %*		*70-130*

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Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1901
Date Sampled: 06/22/06 14:35
Percent Solids: 21
Initial Volume: 7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-11
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte		Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane		ND	ug/Kg dry	17.0	1	06/26/06
1,1,1-Trichloroethane		**88.8**	ug/Kg dry	17.0	1	06/26/06
1,1,2,2-Tetrachloroethane		ND	ug/Kg dry	17.0	1	06/26/06
1,1,2-Trichloroethane		ND	ug/Kg dry	17.0	1	06/26/06
1,1-Dichloroethane		**512**	ug/Kg dry	17.0	1	06/26/06
1,1-Dichloroethene	E	**1000**	ug/Kg dry	17.0	1	06/26/06
1,1-Dichloropropene		ND	ug/Kg dry	17.0	1	06/26/06
1,2,3-Trichlorobenzene		ND	ug/Kg dry	17.0	1	06/26/06
1,2,3-Trichloropropane		ND	ug/Kg dry	17.0	1	06/26/06
1,2,4-Trichlorobenzene		ND	ug/Kg dry	17.0	1	06/26/06
1,2,4-Trimethylbenzene		ND	ug/Kg dry	17.0	1	06/26/06
1,2-Dibromo-3-Chloropropane		ND	ug/Kg dry	17.0	1	06/26/06
1,2-Dibromoethane		ND	ug/Kg dry	17.0	1	06/26/06
1,2-Dichlorobenzene		ND	ug/Kg dry	17.0	1	06/26/06
1,2-Dichloroethane		ND	ug/Kg dry	17.0	1	06/26/06
1,2-Dichloropropane		ND	ug/Kg dry	17.0	1	06/26/06
1,3,5-Trimethylbenzene		ND	ug/Kg dry	17.0	1	06/26/06
1,3-Dichlorobenzene		ND	ug/Kg dry	17.0	1	06/26/06
1,3-Dichloropropane		ND	ug/Kg dry	17.0	1	06/26/06
1,4-Dichlorobenzene		ND	ug/Kg dry	17.0	1	06/26/06
1,4-Dioxane - Screen		ND	ug/Kg dry	850	1	06/26/06
1-Chlorohexane		ND	ug/Kg dry	17.0	1	06/26/06
2,2-Dichloropropane		ND	ug/Kg dry	17.0	1	06/26/06
2-Butanone		ND	ug/Kg dry	170	1	06/26/06
2-Chlorotoluene		ND	ug/Kg dry	17.0	1	06/26/06
2-Hexanone		ND	ug/Kg dry	170	1	06/26/06
4-Chlorotoluene		ND	ug/Kg dry	17.0	1	06/26/06
4-Isopropyltoluene		ND	ug/Kg dry	17.0	1	06/26/06
4-Methyl-2-Pentanone		ND	ug/Kg dry	170	1	06/26/06
Acetone		**242**	ug/Kg dry	170	1	06/26/06
Benzene		ND	ug/Kg dry	17.0	1	06/26/06
Bromobenzene		ND	ug/Kg dry	17.0	1	06/26/06
Bromochloromethane		ND	ug/Kg dry	17.0	1	06/26/06
Bromodichloromethane		ND	ug/Kg dry	17.0	1	06/26/06
Bromoform		ND	ug/Kg dry	17.0	1	06/26/06

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1901
Date Sampled: 06/22/06 14:35
Percent Solids: 21
Initial Volume: 7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-11
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane		ND	ug/Kg dry	34.0	1	06/26/06
Carbon Disulfide		**57.6**	ug/Kg dry	17.0	1	06/26/06
Carbon Tetrachloride		ND	ug/Kg dry	17.0	1	06/26/06
Chlorobenzene		ND	ug/Kg dry	17.0	1	06/26/06
Chloroethane		ND	ug/Kg dry	34.0	1	06/26/06
Chloroform		ND	ug/Kg dry	17.0	1	06/26/06
Chloromethane		ND	ug/Kg dry	34.0	1	06/26/06
cis-1,2-Dichloroethene	E	**7970**	ug/Kg dry	17.0	1	06/26/06
cis-1,3-Dichloropropene		ND	ug/Kg dry	17.0	1	06/26/06
Dibromochloromethane		ND	ug/Kg dry	17.0	1	06/26/06
Dibromomethane		ND	ug/Kg dry	17.0	1	06/26/06
Dichlorodifluoromethane		ND	ug/Kg dry	34.0	1	06/26/06
Diethyl Ether		ND	ug/Kg dry	17.0	1	06/26/06
Di-isopropyl ether		ND	ug/Kg dry	17.0	1	06/26/06
Ethyl tertiary-butyl ether		ND	ug/Kg dry	17.0	1	06/26/06
Ethylbenzene		ND	ug/Kg dry	17.0	1	06/26/06
Hexachlorobutadiene		ND	ug/Kg dry	17.0	1	06/26/06
Isopropylbenzene		ND	ug/Kg dry	17.0	1	06/26/06
Methyl tert-Butyl Ether		ND	ug/Kg dry	17.0	1	06/26/06
Methylene Chloride		ND	ug/Kg dry	85.0	1	06/26/06
Naphthalene		ND	ug/Kg dry	17.0	1	06/26/06
n-Butylbenzene		ND	ug/Kg dry	17.0	1	06/26/06
n-Propylbenzene		ND	ug/Kg dry	17.0	1	06/26/06
sec-Butylbenzene		**19.7**	ug/Kg dry	17.0	1	06/26/06
Styrene		ND	ug/Kg dry	17.0	1	06/26/06
tert-Butylbenzene		ND	ug/Kg dry	17.0	1	06/26/06
Tertiary-amyl methyl ether		ND	ug/Kg dry	17.0	1	06/26/06
Tetrachloroethene		**421**	ug/Kg dry	17.0	1	06/26/06
Tetrahydrofuran		ND	ug/Kg dry	17.0	1	06/26/06
Toluene		ND	ug/Kg dry	17.0	1	06/26/06
trans-1,2-Dichloroethene		**219**	ug/Kg dry	17.0	1	06/26/06
trans-1,3-Dichloropropene		ND	ug/Kg dry	17.0	1	06/26/06
Trichloroethene	E	**1140**	ug/Kg dry	17.0	1	06/26/06
Trichlorofluoromethane		ND	ug/Kg dry	17.0	1	06/26/06
Vinyl Chloride		**148**	ug/Kg dry	34.0	1	06/26/06
Xylene O		ND	ug/Kg dry	17.0	1	06/26/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1901
Date Sampled: 06/22/06 14:35
Percent Solids: 21
Initial Volume: 7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-11
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	34.0	1	06/26/06
Xylenes (Total)	ND	ug/Kg dry	51.0		06/26/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*97 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*100 %*		*70-130*
Surrogate: Dibromofluoromethane	*102 %*		*70-130*
Surrogate: Toluene-d8	*102 %*		*70-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1903
Date Sampled: 06/22/06 14:50
Percent Solids: 12
Initial Volume: 3.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-12
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte		Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane		ND	ug/Kg dry	57.9	1	06/26/06
1,1,1-Trichloroethane	E	**4480**	ug/Kg dry	57.9	1	06/26/06
1,1,2,2-Tetrachloroethane		ND	ug/Kg dry	57.9	1	06/26/06
1,1,2-Trichloroethane		ND	ug/Kg dry	57.9	1	06/26/06
1,1-Dichloroethane		**299**	ug/Kg dry	57.9	1	06/26/06
1,1-Dichloroethene		**800**	ug/Kg dry	57.9	1	06/26/06
1,1-Dichloropropene		ND	ug/Kg dry	57.9	1	06/26/06
1,2,3-Trichlorobenzene		ND	ug/Kg dry	57.9	1	06/26/06
1,2,3-Trichloropropane		ND	ug/Kg dry	57.9	1	06/26/06
1,2,4-Trichlorobenzene		ND	ug/Kg dry	57.9	1	06/26/06
1,2,4-Trimethylbenzene		ND	ug/Kg dry	57.9	1	06/26/06
1,2-Dibromo-3-Chloropropane		ND	ug/Kg dry	57.9	1	06/26/06
1,2-Dibromoethane		ND	ug/Kg dry	57.9	1	06/26/06
1,2-Dichlorobenzene		ND	ug/Kg dry	57.9	1	06/26/06
1,2-Dichloroethane		ND	ug/Kg dry	57.9	1	06/26/06
1,2-Dichloropropane		ND	ug/Kg dry	57.9	1	06/26/06
1,3,5-Trimethylbenzene		ND	ug/Kg dry	57.9	1	06/26/06
1,3-Dichlorobenzene		ND	ug/Kg dry	57.9	1	06/26/06
1,3-Dichloropropane		ND	ug/Kg dry	57.9	1	06/26/06
1,4-Dichlorobenzene		ND	ug/Kg dry	57.9	1	06/26/06
1,4-Dioxane - Screen		ND	ug/Kg dry	2890	1	06/26/06
1-Chlorohexane		ND	ug/Kg dry	57.9	1	06/26/06
2,2-Dichloropropane		ND	ug/Kg dry	57.9	1	06/26/06
2-Butanone		**936**	ug/Kg dry	579	1	06/26/06
2-Chlorotoluene		ND	ug/Kg dry	57.9	1	06/26/06
2-Hexanone		ND	ug/Kg dry	579	1	06/26/06
4-Chlorotoluene		ND	ug/Kg dry	57.9	1	06/26/06
4-Isopropyltoluene		ND	ug/Kg dry	57.9	1	06/26/06
4-Methyl-2-Pentanone		ND	ug/Kg dry	579	1	06/26/06
Acetone		**1940**	ug/Kg dry	579	1	06/26/06
Benzene		ND	ug/Kg dry	57.9	1	06/26/06
Bromobenzene		ND	ug/Kg dry	57.9	1	06/26/06
Bromochloromethane		ND	ug/Kg dry	57.9	1	06/26/06
Bromodichloromethane		ND	ug/Kg dry	57.9	1	06/26/06
Bromoform		ND	ug/Kg dry	57.9	1	06/26/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1903
Date Sampled: 06/22/06 14:50
Percent Solids: 12
Initial Volume: 3.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-12
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane		ND	ug/Kg dry	116	1	06/26/06
Carbon Disulfide		**212**	ug/Kg dry	57.9	1	06/26/06
Carbon Tetrachloride		ND	ug/Kg dry	57.9	1	06/26/06
Chlorobenzene		ND	ug/Kg dry	57.9	1	06/26/06
Chloroethane		ND	ug/Kg dry	116	1	06/26/06
Chloroform		ND	ug/Kg dry	57.9	1	06/26/06
Chloromethane		ND	ug/Kg dry	116	1	06/26/06
cis-1,2-Dichloroethene	E	**4630**	ug/Kg dry	57.9	1	06/26/06
cis-1,3-Dichloropropene		ND	ug/Kg dry	57.9	1	06/26/06
Dibromochloromethane		ND	ug/Kg dry	57.9	1	06/26/06
Dibromomethane		ND	ug/Kg dry	57.9	1	06/26/06
Dichlorodifluoromethane		ND	ug/Kg dry	116	1	06/26/06
Diethyl Ether		ND	ug/Kg dry	57.9	1	06/26/06
Di-isopropyl ether		ND	ug/Kg dry	57.9	1	06/26/06
Ethyl tertiary-butyl ether		ND	ug/Kg dry	57.9	1	06/26/06
Ethylbenzene		ND	ug/Kg dry	57.9	1	06/26/06
Hexachlorobutadiene		ND	ug/Kg dry	57.9	1	06/26/06
Isopropylbenzene		**68.8**	ug/Kg dry	57.9	1	06/26/06
Methyl tert-Butyl Ether		ND	ug/Kg dry	57.9	1	06/26/06
Methylene Chloride		ND	ug/Kg dry	289	1	06/26/06
Naphthalene		ND	ug/Kg dry	57.9	1	06/26/06
n-Butylbenzene		ND	ug/Kg dry	57.9	1	06/26/06
n-Propylbenzene		ND	ug/Kg dry	57.9	1	06/26/06
sec-Butylbenzene		**97.7**	ug/Kg dry	57.9	1	06/26/06
Styrene		ND	ug/Kg dry	57.9	1	06/26/06
tert-Butylbenzene		ND	ug/Kg dry	57.9	1	06/26/06
Tertiary-amyl methyl ether		ND	ug/Kg dry	57.9	1	06/26/06
Tetrachloroethene	E	**18400**	ug/Kg dry	57.9	1	06/26/06
Tetrahydrofuran		ND	ug/Kg dry	57.9	1	06/26/06
Toluene		ND	ug/Kg dry	57.9	1	06/26/06
trans-1,2-Dichloroethene		**153**	ug/Kg dry	57.9	1	06/26/06
trans-1,3-Dichloropropene		ND	ug/Kg dry	57.9	1	06/26/06
Trichloroethene	E	**29600**	ug/Kg dry	57.9	1	06/26/06
Trichlorofluoromethane		ND	ug/Kg dry	57.9	1	06/26/06
Vinyl Chloride		ND	ug/Kg dry	116	1	06/26/06
Xylene O		ND	ug/Kg dry	57.9	1	06/26/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1903
Date Sampled: 06/22/06 14:50
Percent Solids: 12
Initial Volume: 3.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-12
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	116		1	06/26/06
Xylenes (Total)	ND	ug/Kg dry	174			06/26/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*95 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*86 %*		*70-130*
Surrogate: Dibromofluoromethane	*99 %*		*70-130*
Surrogate: Toluene-d8	*109 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2301
Date Sampled: 06/22/06 15:30
Percent Solids: 76
Initial Volume: 8.1
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-13
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	4.1	1	06/27/06
1,1,1-Trichloroethane	ND	ug/Kg dry	4.1	1	06/27/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	4.1	1	06/27/06
1,1,2-Trichloroethane	ND	ug/Kg dry	4.1	1	06/27/06
1,1-Dichloroethane	ND	ug/Kg dry	4.1	1	06/27/06
1,1-Dichloroethene	ND	ug/Kg dry	4.1	1	06/27/06
1,1-Dichloropropene	ND	ug/Kg dry	4.1	1	06/27/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	4.1	1	06/27/06
1,2,3-Trichloropropane	ND	ug/Kg dry	4.1	1	06/27/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	4.1	1	06/27/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	4.1	1	06/27/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	4.1	1	06/27/06
1,2-Dibromoethane	ND	ug/Kg dry	4.1	1	06/27/06
1,2-Dichlorobenzene	ND	ug/Kg dry	4.1	1	06/27/06
1,2-Dichloroethane	ND	ug/Kg dry	4.1	1	06/27/06
1,2-Dichloropropane	ND	ug/Kg dry	4.1	1	06/27/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	4.1	1	06/27/06
1,3-Dichlorobenzene	ND	ug/Kg dry	4.1	1	06/27/06
1,3-Dichloropropane	ND	ug/Kg dry	4.1	1	06/27/06
1,4-Dichlorobenzene	ND	ug/Kg dry	4.1	1	06/27/06
1,4-Dioxane - Screen	ND	ug/Kg dry	203	1	06/27/06
1-Chlorohexane	ND	ug/Kg dry	4.1	1	06/27/06
2,2-Dichloropropane	ND	ug/Kg dry	4.1	1	06/27/06
2-Butanone	ND	ug/Kg dry	40.6	1	06/27/06
2-Chlorotoluene	ND	ug/Kg dry	4.1	1	06/27/06
2-Hexanone	ND	ug/Kg dry	40.6	1	06/27/06
4-Chlorotoluene	ND	ug/Kg dry	4.1	1	06/27/06
4-Isopropyltoluene	ND	ug/Kg dry	4.1	1	06/27/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	40.6	1	06/27/06
Acetone	ND	ug/Kg dry	40.6	1	06/27/06
Benzene	ND	ug/Kg dry	4.1	1	06/27/06
Bromobenzene	ND	ug/Kg dry	4.1	1	06/27/06
Bromochloromethane	ND	ug/Kg dry	4.1	1	06/27/06
Bromodichloromethane	ND	ug/Kg dry	4.1	1	06/27/06
Bromoform	ND	ug/Kg dry	4.1	1	06/27/06

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2301
Date Sampled: 06/22/06 15:30
Percent Solids: 76
Initial Volume: 8.1
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-13
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane		ND	ug/Kg dry	8.1	1	06/27/06
Carbon Disulfide		ND	ug/Kg dry	4.1	1	06/27/06
Carbon Tetrachloride		ND	ug/Kg dry	4.1	1	06/27/06
Chlorobenzene		ND	ug/Kg dry	4.1	1	06/27/06
Chloroethane		ND	ug/Kg dry	8.1	1	06/27/06
Chloroform		ND	ug/Kg dry	4.1	1	06/27/06
Chloromethane		ND	ug/Kg dry	8.1	1	06/27/06
cis-1,2-Dichloroethene		**9.1**	ug/Kg dry	4.1	1	06/27/06
cis-1,3-Dichloropropene		ND	ug/Kg dry	4.1	1	06/27/06
Dibromochloromethane		ND	ug/Kg dry	4.1	1	06/27/06
Dibromomethane		ND	ug/Kg dry	4.1	1	06/27/06
Dichlorodifluoromethane		ND	ug/Kg dry	8.1	1	06/27/06
Diethyl Ether		ND	ug/Kg dry	4.1	1	06/27/06
Di-isopropyl ether		ND	ug/Kg dry	4.1	1	06/27/06
Ethyl tertiary-butyl ether		ND	ug/Kg dry	4.1	1	06/27/06
Ethylbenzene		ND	ug/Kg dry	4.1	1	06/27/06
Hexachlorobutadiene		ND	ug/Kg dry	4.1	1	06/27/06
Isopropylbenzene		ND	ug/Kg dry	4.1	1	06/27/06
Methyl tert-Butyl Ether		ND	ug/Kg dry	4.1	1	06/27/06
Methylene Chloride		ND	ug/Kg dry	20.3	1	06/27/06
Naphthalene		ND	ug/Kg dry	4.1	1	06/27/06
n-Butylbenzene		ND	ug/Kg dry	4.1	1	06/27/06
n-Propylbenzene		ND	ug/Kg dry	4.1	1	06/27/06
sec-Butylbenzene		ND	ug/Kg dry	4.1	1	06/27/06
Styrene		ND	ug/Kg dry	4.1	1	06/27/06
tert-Butylbenzene		ND	ug/Kg dry	4.1	1	06/27/06
Tertiary-amyl methyl ether		ND	ug/Kg dry	4.1	1	06/27/06
Tetrachloroethene	E	**670**	ug/Kg dry	4.1	1	06/27/06
Tetrahydrofuran		ND	ug/Kg dry	4.1	1	06/27/06
Toluene		ND	ug/Kg dry	4.1	1	06/27/06
trans-1,2-Dichloroethene		ND	ug/Kg dry	4.1	1	06/27/06
trans-1,3-Dichloropropene		ND	ug/Kg dry	4.1	1	06/27/06
Trichloroethene		**135**	ug/Kg dry	4.1	1	06/27/06
Trichlorofluoromethane		ND	ug/Kg dry	4.1	1	06/27/06
Vinyl Chloride		ND	ug/Kg dry	8.1	1	06/27/06
Xylene O		ND	ug/Kg dry	4.1	1	06/27/06

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2301
Date Sampled: 06/22/06 15:30
Percent Solids: 76
Initial Volume: 8.1
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-13
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	8.1	1	06/27/06
Xylenes (Total)	ND	ug/Kg dry	12.2		06/27/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*96 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*92 %*		*70-130*
Surrogate: Dibromofluoromethane	*100 %*		*70-130*
Surrogate: Toluene-d8	*95 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2303
Date Sampled: 06/22/06 15:40
Percent Solids: 78
Initial Volume: 7.9
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-14
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	4.1	1	06/27/06
1,1,1-Trichloroethane	ND	ug/Kg dry	4.1	1	06/27/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	4.1	1	06/27/06
1,1,2-Trichloroethane	ND	ug/Kg dry	4.1	1	06/27/06
1,1-Dichloroethane	ND	ug/Kg dry	4.1	1	06/27/06
1,1-Dichloroethene	ND	ug/Kg dry	4.1	1	06/27/06
1,1-Dichloropropene	ND	ug/Kg dry	4.1	1	06/27/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	4.1	1	06/27/06
1,2,3-Trichloropropane	ND	ug/Kg dry	4.1	1	06/27/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	4.1	1	06/27/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	4.1	1	06/27/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	4.1	1	06/27/06
1,2-Dibromoethane	ND	ug/Kg dry	4.1	1	06/27/06
1,2-Dichlorobenzene	ND	ug/Kg dry	4.1	1	06/27/06
1,2-Dichloroethane	ND	ug/Kg dry	4.1	1	06/27/06
1,2-Dichloropropane	ND	ug/Kg dry	4.1	1	06/27/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	4.1	1	06/27/06
1,3-Dichlorobenzene	ND	ug/Kg dry	4.1	1	06/27/06
1,3-Dichloropropane	ND	ug/Kg dry	4.1	1	06/27/06
1,4-Dichlorobenzene	ND	ug/Kg dry	4.1	1	06/27/06
1,4-Dioxane - Screen	ND	ug/Kg dry	203	1	06/27/06
1-Chlorohexane	ND	ug/Kg dry	4.1	1	06/27/06
2,2-Dichloropropane	ND	ug/Kg dry	4.1	1	06/27/06
2-Butanone	ND	ug/Kg dry	40.6	1	06/27/06
2-Chlorotoluene	ND	ug/Kg dry	4.1	1	06/27/06
2-Hexanone	ND	ug/Kg dry	40.6	1	06/27/06
4-Chlorotoluene	ND	ug/Kg dry	4.1	1	06/27/06
4-Isopropyltoluene	ND	ug/Kg dry	4.1	1	06/27/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	40.6	1	06/27/06
Acetone	ND	ug/Kg dry	40.6	1	06/27/06
Benzene	ND	ug/Kg dry	4.1	1	06/27/06
Bromobenzene	ND	ug/Kg dry	4.1	1	06/27/06
Bromochloromethane	ND	ug/Kg dry	4.1	1	06/27/06
Bromodichloromethane	ND	ug/Kg dry	4.1	1	06/27/06
Bromoform	ND	ug/Kg dry	4.1	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2303
Date Sampled: 06/22/06 15:40
Percent Solids: 78
Initial Volume: 7.9
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-14
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	8.1	1	06/27/06
Carbon Disulfide	ND	ug/Kg dry	4.1	1	06/27/06
Carbon Tetrachloride	ND	ug/Kg dry	4.1	1	06/27/06
Chlorobenzene	ND	ug/Kg dry	4.1	1	06/27/06
Chloroethane	ND	ug/Kg dry	8.1	1	06/27/06
Chloroform	ND	ug/Kg dry	4.1	1	06/27/06
Chloromethane	ND	ug/Kg dry	8.1	1	06/27/06
cis-1,2-Dichloroethene	**4.6**	ug/Kg dry	4.1	1	06/27/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	4.1	1	06/27/06
Dibromochloromethane	ND	ug/Kg dry	4.1	1	06/27/06
Dibromomethane	ND	ug/Kg dry	4.1	1	06/27/06
Dichlorodifluoromethane	ND	ug/Kg dry	8.1	1	06/27/06
Diethyl Ether	ND	ug/Kg dry	4.1	1	06/27/06
Di-isopropyl ether	ND	ug/Kg dry	4.1	1	06/27/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	4.1	1	06/27/06
Ethylbenzene	ND	ug/Kg dry	4.1	1	06/27/06
Hexachlorobutadiene	ND	ug/Kg dry	4.1	1	06/27/06
Isopropylbenzene	ND	ug/Kg dry	4.1	1	06/27/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	4.1	1	06/27/06
Methylene Chloride	ND	ug/Kg dry	20.3	1	06/27/06
Naphthalene	ND	ug/Kg dry	4.1	1	06/27/06
n-Butylbenzene	ND	ug/Kg dry	4.1	1	06/27/06
n-Propylbenzene	ND	ug/Kg dry	4.1	1	06/27/06
sec-Butylbenzene	ND	ug/Kg dry	4.1	1	06/27/06
Styrene	ND	ug/Kg dry	4.1	1	06/27/06
tert-Butylbenzene	ND	ug/Kg dry	4.1	1	06/27/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	4.1	1	06/27/06
Tetrachloroethene	**63.6**	ug/Kg dry	4.1	1	06/27/06
Tetrahydrofuran	ND	ug/Kg dry	4.1	1	06/27/06
Toluene	ND	ug/Kg dry	4.1	1	06/27/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	4.1	1	06/27/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	4.1	1	06/27/06
Trichloroethene	**25.5**	ug/Kg dry	4.1	1	06/27/06
Trichlorofluoromethane	ND	ug/Kg dry	4.1	1	06/27/06
Vinyl Chloride	ND	ug/Kg dry	8.1	1	06/27/06
Xylene O	ND	ug/Kg dry	4.1	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2303
Date Sampled: 06/22/06 15:40
Percent Solids: 78
Initial Volume: 7.9
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-14
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	8.1	1	06/27/06
Xylenes (Total)	ND	ug/Kg dry	12.2		06/27/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*94 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*95 %*		*70-130*
Surrogate: Dibromofluoromethane	*100 %*		*70-130*
Surrogate: Toluene-d8	*94 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2101
Date Sampled: 06/22/06 15:00
Percent Solids: 73
Initial Volume: 7.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-15
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	4.4	1	06/27/06
1,1,1-Trichloroethane	ND	ug/Kg dry	4.4	1	06/27/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	4.4	1	06/27/06
1,1,2-Trichloroethane	ND	ug/Kg dry	4.4	1	06/27/06
1,1-Dichloroethane	ND	ug/Kg dry	4.4	1	06/27/06
1,1-Dichloroethene	ND	ug/Kg dry	4.4	1	06/27/06
1,1-Dichloropropene	ND	ug/Kg dry	4.4	1	06/27/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	4.4	1	06/27/06
1,2,3-Trichloropropane	ND	ug/Kg dry	4.4	1	06/27/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	4.4	1	06/27/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	4.4	1	06/27/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	4.4	1	06/27/06
1,2-Dibromoethane	ND	ug/Kg dry	4.4	1	06/27/06
1,2-Dichlorobenzene	ND	ug/Kg dry	4.4	1	06/27/06
1,2-Dichloroethane	ND	ug/Kg dry	4.4	1	06/27/06
1,2-Dichloropropane	ND	ug/Kg dry	4.4	1	06/27/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	4.4	1	06/27/06
1,3-Dichlorobenzene	ND	ug/Kg dry	4.4	1	06/27/06
1,3-Dichloropropane	ND	ug/Kg dry	4.4	1	06/27/06
1,4-Dichlorobenzene	ND	ug/Kg dry	4.4	1	06/27/06
1,4-Dioxane - Screen	ND	ug/Kg dry	222	1	06/27/06
1-Chlorohexane	ND	ug/Kg dry	4.4	1	06/27/06
2,2-Dichloropropane	ND	ug/Kg dry	4.4	1	06/27/06
2-Butanone	ND	ug/Kg dry	44.5	1	06/27/06
2-Chlorotoluene	ND	ug/Kg dry	4.4	1	06/27/06
2-Hexanone	ND	ug/Kg dry	44.5	1	06/27/06
4-Chlorotoluene	ND	ug/Kg dry	4.4	1	06/27/06
4-Isopropyltoluene	ND	ug/Kg dry	4.4	1	06/27/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	44.5	1	06/27/06
Acetone	ND	ug/Kg dry	44.5	1	06/27/06
Benzene	ND	ug/Kg dry	4.4	1	06/27/06
Bromobenzene	ND	ug/Kg dry	4.4	1	06/27/06
Bromochloromethane	ND	ug/Kg dry	4.4	1	06/27/06
Bromodichloromethane	ND	ug/Kg dry	4.4	1	06/27/06
Bromoform	ND	ug/Kg dry	4.4	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2101
Date Sampled: 06/22/06 15:00
Percent Solids: 73
Initial Volume: 7.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-15
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	8.9	1	06/27/06
Carbon Disulfide	ND	ug/Kg dry	4.4	1	06/27/06
Carbon Tetrachloride	ND	ug/Kg dry	4.4	1	06/27/06
Chlorobenzene	ND	ug/Kg dry	4.4	1	06/27/06
Chloroethane	ND	ug/Kg dry	8.9	1	06/27/06
Chloroform	ND	ug/Kg dry	4.4	1	06/27/06
Chloromethane	ND	ug/Kg dry	8.9	1	06/27/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	4.4	1	06/27/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	4.4	1	06/27/06
Dibromochloromethane	ND	ug/Kg dry	4.4	1	06/27/06
Dibromomethane	ND	ug/Kg dry	4.4	1	06/27/06
Dichlorodifluoromethane	ND	ug/Kg dry	8.9	1	06/27/06
Diethyl Ether	ND	ug/Kg dry	4.4	1	06/27/06
Di-isopropyl ether	ND	ug/Kg dry	4.4	1	06/27/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	4.4	1	06/27/06
Ethylbenzene	ND	ug/Kg dry	4.4	1	06/27/06
Hexachlorobutadiene	ND	ug/Kg dry	4.4	1	06/27/06
Isopropylbenzene	ND	ug/Kg dry	4.4	1	06/27/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	4.4	1	06/27/06
Methylene Chloride	ND	ug/Kg dry	22.2	1	06/27/06
Naphthalene	ND	ug/Kg dry	4.4	1	06/27/06
n-Butylbenzene	ND	ug/Kg dry	4.4	1	06/27/06
n-Propylbenzene	ND	ug/Kg dry	4.4	1	06/27/06
sec-Butylbenzene	ND	ug/Kg dry	4.4	1	06/27/06
Styrene	ND	ug/Kg dry	4.4	1	06/27/06
tert-Butylbenzene	ND	ug/Kg dry	4.4	1	06/27/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	4.4	1	06/27/06
Tetrachloroethene	ND	ug/Kg dry	4.4	1	06/27/06
Tetrahydrofuran	ND	ug/Kg dry	4.4	1	06/27/06
Toluene	ND	ug/Kg dry	4.4	1	06/27/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	4.4	1	06/27/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	4.4	1	06/27/06
Trichloroethene	ND	ug/Kg dry	4.4	1	06/27/06
Trichlorofluoromethane	ND	ug/Kg dry	4.4	1	06/27/06
Vinyl Chloride	ND	ug/Kg dry	8.9	1	06/27/06
Xylene O	ND	ug/Kg dry	4.4	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2101
Date Sampled: 06/22/06 15:00
Percent Solids: 73
Initial Volume: 7.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-15
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	8.9	1	06/27/06
Xylenes (Total)	ND	ug/Kg dry	13.3		06/27/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*96 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*92 %*		*70-130*
Surrogate: Dibromofluoromethane	*101 %*		*70-130*
Surrogate: Toluene-d8	*96 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2103
Date Sampled: 06/22/06 15:10
Percent Solids: 79
Initial Volume: 7.4
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-16
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	4.3	1	06/27/06
1,1,1-Trichloroethane	ND	ug/Kg dry	4.3	1	06/27/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	4.3	1	06/27/06
1,1,2-Trichloroethane	ND	ug/Kg dry	4.3	1	06/27/06
1,1-Dichloroethane	ND	ug/Kg dry	4.3	1	06/27/06
1,1-Dichloroethene	ND	ug/Kg dry	4.3	1	06/27/06
1,1-Dichloropropene	ND	ug/Kg dry	4.3	1	06/27/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	4.3	1	06/27/06
1,2,3-Trichloropropane	ND	ug/Kg dry	4.3	1	06/27/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	4.3	1	06/27/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	4.3	1	06/27/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	4.3	1	06/27/06
1,2-Dibromoethane	ND	ug/Kg dry	4.3	1	06/27/06
1,2-Dichlorobenzene	ND	ug/Kg dry	4.3	1	06/27/06
1,2-Dichloroethane	ND	ug/Kg dry	4.3	1	06/27/06
1,2-Dichloropropane	ND	ug/Kg dry	4.3	1	06/27/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	4.3	1	06/27/06
1,3-Dichlorobenzene	ND	ug/Kg dry	4.3	1	06/27/06
1,3-Dichloropropane	ND	ug/Kg dry	4.3	1	06/27/06
1,4-Dichlorobenzene	ND	ug/Kg dry	4.3	1	06/27/06
1,4-Dioxane - Screen	ND	ug/Kg dry	214	1	06/27/06
1-Chlorohexane	ND	ug/Kg dry	4.3	1	06/27/06
2,2-Dichloropropane	ND	ug/Kg dry	4.3	1	06/27/06
2-Butanone	ND	ug/Kg dry	42.8	1	06/27/06
2-Chlorotoluene	ND	ug/Kg dry	4.3	1	06/27/06
2-Hexanone	ND	ug/Kg dry	42.8	1	06/27/06
4-Chlorotoluene	ND	ug/Kg dry	4.3	1	06/27/06
4-Isopropyltoluene	ND	ug/Kg dry	4.3	1	06/27/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	42.8	1	06/27/06
Acetone	**60.8**	ug/Kg dry	42.8	1	06/27/06
Benzene	ND	ug/Kg dry	4.3	1	06/27/06
Bromobenzene	ND	ug/Kg dry	4.3	1	06/27/06
Bromochloromethane	ND	ug/Kg dry	4.3	1	06/27/06
Bromodichloromethane	ND	ug/Kg dry	4.3	1	06/27/06
Bromoform	ND	ug/Kg dry	4.3	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2103
Date Sampled: 06/22/06 15:10
Percent Solids: 79
Initial Volume: 7.4
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-16
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	8.6	1	06/27/06
Carbon Disulfide	ND	ug/Kg dry	4.3	1	06/27/06
Carbon Tetrachloride	ND	ug/Kg dry	4.3	1	06/27/06
Chlorobenzene	ND	ug/Kg dry	4.3	1	06/27/06
Chloroethane	ND	ug/Kg dry	8.6	1	06/27/06
Chloroform	ND	ug/Kg dry	4.3	1	06/27/06
Chloromethane	ND	ug/Kg dry	8.6	1	06/27/06
cis-1,2-Dichloroethene	**26.7**	ug/Kg dry	4.3	1	06/27/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	4.3	1	06/27/06
Dibromochloromethane	ND	ug/Kg dry	4.3	1	06/27/06
Dibromomethane	ND	ug/Kg dry	4.3	1	06/27/06
Dichlorodifluoromethane	ND	ug/Kg dry	8.6	1	06/27/06
Diethyl Ether	ND	ug/Kg dry	4.3	1	06/27/06
Di-isopropyl ether	ND	ug/Kg dry	4.3	1	06/27/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	4.3	1	06/27/06
Ethylbenzene	ND	ug/Kg dry	4.3	1	06/27/06
Hexachlorobutadiene	ND	ug/Kg dry	4.3	1	06/27/06
Isopropylbenzene	ND	ug/Kg dry	4.3	1	06/27/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	4.3	1	06/27/06
Methylene Chloride	ND	ug/Kg dry	21.4	1	06/27/06
Naphthalene	ND	ug/Kg dry	4.3	1	06/27/06
n-Butylbenzene	ND	ug/Kg dry	4.3	1	06/27/06
n-Propylbenzene	ND	ug/Kg dry	4.3	1	06/27/06
sec-Butylbenzene	ND	ug/Kg dry	4.3	1	06/27/06
Styrene	ND	ug/Kg dry	4.3	1	06/27/06
tert-Butylbenzene	ND	ug/Kg dry	4.3	1	06/27/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	4.3	1	06/27/06
Tetrachloroethene	ND	ug/Kg dry	4.3	1	06/27/06
Tetrahydrofuran	ND	ug/Kg dry	4.3	1	06/27/06
Toluene	ND	ug/Kg dry	4.3	1	06/27/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	4.3	1	06/27/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	4.3	1	06/27/06
Trichloroethene	ND	ug/Kg dry	4.3	1	06/27/06
Trichlorofluoromethane	ND	ug/Kg dry	4.3	1	06/27/06
Vinyl Chloride	ND	ug/Kg dry	8.6	1	06/27/06
Xylene O	ND	ug/Kg dry	4.3	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2103
Date Sampled: 06/22/06 15:10
Percent Solids: 79
Initial Volume: 7.4
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-16
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	8.6	1	06/27/06
Xylenes (Total)	ND	ug/Kg dry	12.9		06/27/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*97 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*90 %*		*70-130*
Surrogate: Dibromofluoromethane	*102 %*		*70-130*
Surrogate: Toluene-d8	*98 %*		*70-130*

Volatile Organics Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62614 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,1-Trichloroethane	ND	5.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethene	ND	5.0	ug/Kg wet							
1,1-Dichloropropene	ND	5.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	5.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg wet							
1,2-Dibromoethane	ND	5.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,2-Dichloroethane	ND	5.0	ug/Kg wet							
1,2-Dichloropropane	ND	5.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,3-Dichloropropane	ND	5.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	250	ug/Kg wet							
1-Chlorohexane	ND	5.0	ug/Kg wet							
2,2-Dichloropropane	ND	5.0	ug/Kg wet							
2-Butanone	ND	50.0	ug/Kg wet							
2-Chlorotoluene	ND	5.0	ug/Kg wet							
2-Hexanone	ND	50.0	ug/Kg wet							
4-Chlorotoluene	ND	5.0	ug/Kg wet							
4-Isopropyltoluene	ND	5.0	ug/Kg wet							
4-Methyl-2-Pentanone	ND	50.0	ug/Kg wet							
Acetone	ND	50.0	ug/Kg wet							
Benzene	ND	5.0	ug/Kg wet							
Bromobenzene	ND	5.0	ug/Kg wet							
Bromochloromethane	ND	5.0	ug/Kg wet							
Bromodichloromethane	ND	5.0	ug/Kg wet							
Bromoform	ND	5.0	ug/Kg wet							
Bromomethane	ND	10.0	ug/Kg wet							
Carbon Disulfide	ND	5.0	ug/Kg wet							
Carbon Tetrachloride	ND	5.0	ug/Kg wet							
Chlorobenzene	ND	5.0	ug/Kg wet							
Chloroethane	ND	10.0	ug/Kg wet							
Chloroform	ND	5.0	ug/Kg wet							
Chloromethane	ND	10.0	ug/Kg wet							
cis-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Dibromochloromethane	ND	5.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62614 - 5035										
Dibromomethane	ND	5.0	ug/Kg wet							
Dichlorodifluoromethane	ND	10.0	ug/Kg wet							
Diethyl Ether	ND	5.0	ug/Kg wet							
Di-isopropyl ether	ND	5.0	ug/Kg wet							
Ethyl tertiary-butyl ether	ND	5.0	ug/Kg wet							
Ethylbenzene	ND	5.0	ug/Kg wet							
Hexachlorobutadiene	ND	5.0	ug/Kg wet							
Isopropylbenzene	ND	5.0	ug/Kg wet							
Methyl tert-Butyl Ether	ND	5.0	ug/Kg wet							
Methylene Chloride	ND	25.0	ug/Kg wet							
Naphthalene	ND	5.0	ug/Kg wet							
n-Butylbenzene	ND	5.0	ug/Kg wet							
n-Propylbenzene	ND	5.0	ug/Kg wet							
sec-Butylbenzene	ND	5.0	ug/Kg wet							
Styrene	ND	5.0	ug/Kg wet							
tert-Butylbenzene	ND	5.0	ug/Kg wet							
Tertiary-amyl methyl ether	ND	5.0	ug/Kg wet							
Tetrachloroethene	ND	5.0	ug/Kg wet							
Tetrahydrofuran	ND	5.0	ug/Kg wet							
Toluene	ND	5.0	ug/Kg wet							
trans-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
trans-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Trichloroethene	ND	5.0	ug/Kg wet							
Trichlorofluoromethane	ND	5.0	ug/Kg wet							
Vinyl Chloride	ND	10.0	ug/Kg wet							
Xylene O	ND	5.0	ug/Kg wet							
Xylene P,M	ND	10.0	ug/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*23.5*		ug/L	*25.0*		*94*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.9*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*24.7*		ug/L	*25.0*		*99*	*70-130*			
Surrogate: Toluene-d8	*23.4*		ug/L	*25.0*		*94*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	23.8		ug/L	25.0		95	70-130			
1,1,1-Trichloroethane	25.2		ug/L	25.0		101	70-130			
1,1,2,2-Tetrachloroethane	23.7		ug/L	25.0		95	70-130			
1,1,2-Trichloroethane	24.3		ug/L	25.0		97	70-130			
1,1-Dichloroethane	24.2		ug/L	25.0		97	70-130			
1,1-Dichloroethene	25.7		ug/L	25.0		103	70-130			
1,1-Dichloropropene	24.3		ug/L	25.0		97	70-130			
1,2,3-Trichlorobenzene	26.4		ug/L	25.0		106	70-130			
1,2,3-Trichloropropane	21.9		ug/L	25.0		88	70-130			
1,2,4-Trichlorobenzene	24.7		ug/L	25.0		99	70-130			
1,2,4-Trimethylbenzene	24.5		ug/L	25.0		98	70-130			
1,2-Dibromo-3-Chloropropane	24.6		ug/L	25.0		98	70-130			
1,2-Dibromoethane	24.0		ug/L	25.0		96	70-130			
1,2-Dichlorobenzene	24.0		ug/L	25.0		96	70-130			
1,2-Dichloroethane	24.8		ug/L	25.0		99	70-130			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62614 - 5035										
1,2-Dichloropropane	23.0		ug/L	25.0		92	70-130			
1,3,5-Trimethylbenzene	24.3		ug/L	25.0		97	70-130			
1,3-Dichlorobenzene	23.8		ug/L	25.0		95	70-130			
1,3-Dichloropropane	23.6		ug/L	25.0		94	70-130			
1,4-Dichlorobenzene	23.4		ug/L	25.0		94	70-130			
1,4-Dioxane - Screen	481		ug/L	500		96	70-130			
1-Chlorohexane	23.9		ug/L	25.0		96	70-130			
2,2-Dichloropropane	25.6		ug/L	25.0		102	70-130			
2-Butanone	117		ug/L	125		94	70-130			
2-Chlorotoluene	24.9		ug/L	25.0		100	70-130			
2-Hexanone	112		ug/L	125		90	70-130			
4-Chlorotoluene	23.9		ug/L	25.0		96	70-130			
4-Isopropyltoluene	24.2		ug/L	25.0		97	70-130			
4-Methyl-2-Pentanone	111		ug/L	125		89	70-130			
Acetone	108		ug/L	125		86	70-130			
Benzene	24.2		ug/L	25.0		97	70-130			
Bromobenzene	25.3		ug/L	25.0		101	70-130			
Bromochloromethane	26.1		ug/L	25.0		104	70-130			
Bromodichloromethane	26.6		ug/L	25.0		106	70-130			
Bromoform	25.3		ug/L	25.0		101	70-130			
Bromomethane	19.4		ug/L	25.0		78	70-130			
Carbon Disulfide	24.5		ug/L	25.0		98	70-130			
Carbon Tetrachloride	25.2		ug/L	25.0		101	70-130			
Chlorobenzene	24.1		ug/L	25.0		96	70-130			
Chloroethane	16.8		ug/L	25.0		67	70-130			+
Chloroform	25.3		ug/L	25.0		101	70-130			
Chloromethane	23.7		ug/L	25.0		95	70-130			
cis-1,2-Dichloroethene	26.3		ug/L	25.0		105	70-130			
cis-1,3-Dichloropropene	24.1		ug/L	25.0		96	70-130			
Dibromochloromethane	24.8		ug/L	25.0		99	70-130			
Dibromomethane	25.7		ug/L	25.0		103	70-130			
Dichlorodifluoromethane	24.8		ug/L	25.0		99	70-130			
Diethyl Ether	24.3		ug/L	25.0		97	70-130			
Di-isopropyl ether	23.5		ug/L	25.0		94	70-130			
Ethyl tertiary-butyl ether	23.5		ug/L	25.0		94	70-130			
Ethylbenzene	24.8		ug/L	25.0		99	70-130			
Hexachlorobutadiene	25.9		ug/L	25.0		104	70-130			
Isopropylbenzene	22.3		ug/L	25.0		89	70-130			
Methyl tert-Butyl Ether	23.7		ug/L	25.0		95	70-130			
Methylene Chloride	24.9		ug/L	25.0		100	70-130			
Naphthalene	24.9		ug/L	25.0		100	70-130			
n-Butylbenzene	24.6		ug/L	25.0		98	70-130			
n-Propylbenzene	23.8		ug/L	25.0		95	70-130			
sec-Butylbenzene	24.1		ug/L	25.0		96	70-130			
Styrene	24.6		ug/L	25.0		98	70-130			
tert-Butylbenzene	24.2		ug/L	25.0		97	70-130			
Tertiary-amyl methyl ether	24.6		ug/L	25.0		98	70-130			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62614 - 5035										
Tetrachloroethene	24.9		ug/L	25.0		100	70-130			
Tetrahydrofuran	22.6		ug/L	25.0		90	70-130			
Toluene	24.9		ug/L	25.0		100	70-130			
trans-1,2-Dichloroethene	25.1		ug/L	25.0		100	70-130			
trans-1,3-Dichloropropene	22.6		ug/L	25.0		90	70-130			
Trichloroethene	24.6		ug/L	25.0		98	70-130			
Trichlorofluoromethane	24.9		ug/L	25.0		100	70-130			
Vinyl Chloride	24.8		ug/L	25.0		99	70-130			
Xylene O	24.2		ug/L	25.0		97	70-130			
Xylene P,M	49.0		ug/L	50.0		98	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.6*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.5*		ug/L	*25.0*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*24.2*		ug/L	*25.0*		*97*	*70-130*			
Surrogate: Toluene-d8	*23.0*		ug/L	*25.0*		*92*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	24.1		ug/L	25.0		96	70-130	1	20	
1,1,1-Trichloroethane	25.1		ug/L	25.0		100	70-130	1	20	
1,1,2,2-Tetrachloroethane	24.1		ug/L	25.0		96	70-130	1	20	
1,1,2-Trichloroethane	24.4		ug/L	25.0		98	70-130	1	20	
1,1-Dichloroethane	24.1		ug/L	25.0		96	70-130	1	20	
1,1-Dichloroethene	26.6		ug/L	25.0		106	70-130	3	20	
1,1-Dichloropropene	24.2		ug/L	25.0		97	70-130	0	20	
1,2,3-Trichlorobenzene	26.9		ug/L	25.0		108	70-130	2	20	
1,2,3-Trichloropropane	24.0		ug/L	25.0		96	70-130	9	20	
1,2,4-Trichlorobenzene	24.7		ug/L	25.0		99	70-130	0	20	
1,2,4-Trimethylbenzene	24.4		ug/L	25.0		98	70-130	0	20	
1,2-Dibromo-3-Chloropropane	24.7		ug/L	25.0		99	70-130	1	20	
1,2-Dibromoethane	24.3		ug/L	25.0		97	70-130	1	20	
1,2-Dichlorobenzene	24.2		ug/L	25.0		97	70-130	1	20	
1,2-Dichloroethane	24.8		ug/L	25.0		99	70-130	0	20	
1,2-Dichloropropane	23.2		ug/L	25.0		93	70-130	1	20	
1,3,5-Trimethylbenzene	24.2		ug/L	25.0		97	70-130	0	20	
1,3-Dichlorobenzene	23.6		ug/L	25.0		94	70-130	1	20	
1,3-Dichloropropane	24.0		ug/L	25.0		96	70-130	2	20	
1,4-Dichlorobenzene	23.5		ug/L	25.0		94	70-130	0	20	
1,4-Dioxane - Screen	498		ug/L	500		100	70-130	4	20	
1-Chlorohexane	23.8		ug/L	25.0		95	70-130	1	20	
2,2-Dichloropropane	25.4		ug/L	25.0		102	70-130	0	20	
2-Butanone	119		ug/L	125		95	70-130	1	20	
2-Chlorotoluene	26.0		ug/L	25.0		104	70-130	4	20	
2-Hexanone	117		ug/L	125		94	70-130	4	20	
4-Chlorotoluene	23.9		ug/L	25.0		96	70-130	0	20	
4-Isopropyltoluene	24.1		ug/L	25.0		96	70-130	1	20	
4-Methyl-2-Pentanone	115		ug/L	125		92	70-130	3	20	
Acetone	109		ug/L	125		87	70-130	1	20	
Benzene	24.3		ug/L	25.0		97	70-130	0	20	
Bromobenzene	25.5		ug/L	25.0		102	70-130	1	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62614 - 5035										
Bromochloromethane	26.2		ug/L	25.0		105	70-130	1	20	
Bromodichloromethane	26.7		ug/L	25.0		107	70-130	0.9	20	
Bromoform	25.8		ug/L	25.0		103	70-130	2	20	
Bromomethane	19.0		ug/L	25.0		76	70-130	3	20	
Carbon Disulfide	24.1		ug/L	25.0		96	70-130	2	20	
Carbon Tetrachloride	25.1		ug/L	25.0		100	70-130	1	20	
Chlorobenzene	24.3		ug/L	25.0		97	70-130	1	20	
Chloroethane	15.4		ug/L	25.0		62	70-130	8	20	+
Chloroform	25.4		ug/L	25.0		102	70-130	1	20	
Chloromethane	23.6		ug/L	25.0		94	70-130	1	20	
cis-1,2-Dichloroethene	26.5		ug/L	25.0		106	70-130	0.9	20	
cis-1,3-Dichloropropene	24.2		ug/L	25.0		97	70-130	1	20	
Dibromochloromethane	25.3		ug/L	25.0		101	70-130	2	20	
Dibromomethane	25.9		ug/L	25.0		104	70-130	1	20	
Dichlorodifluoromethane	24.5		ug/L	25.0		98	70-130	1	20	
Diethyl Ether	24.4		ug/L	25.0		98	70-130	1	20	
Di-isopropyl ether	23.6		ug/L	25.0		94	70-130	0	20	
Ethyl tertiary-butyl ether	23.7		ug/L	25.0		95	70-130	1	20	
Ethylbenzene	25.1		ug/L	25.0		100	70-130	1	20	
Hexachlorobutadiene	25.8		ug/L	25.0		103	70-130	1	20	
Isopropylbenzene	22.1		ug/L	25.0		88	70-130	1	20	
Methyl tert-Butyl Ether	26.4		ug/L	25.0		106	70-130	11	20	
Methylene Chloride	24.8		ug/L	25.0		99	70-130	1	20	
Naphthalene	25.6		ug/L	25.0		102	70-130	2	20	
n-Butylbenzene	24.3		ug/L	25.0		97	70-130	1	20	
n-Propylbenzene	23.2		ug/L	25.0		93	70-130	2	20	
sec-Butylbenzene	24.0		ug/L	25.0		96	70-130	0	20	
Styrene	24.8		ug/L	25.0		99	70-130	1	20	
tert-Butylbenzene	24.3		ug/L	25.0		97	70-130	0	20	
Tertiary-amyl methyl ether	24.8		ug/L	25.0		99	70-130	1	20	
Tetrachloroethene	24.9		ug/L	25.0		100	70-130	0	20	
Tetrahydrofuran	23.3		ug/L	25.0		93	70-130	3	20	
Toluene	24.7		ug/L	25.0		99	70-130	1	20	
trans-1,2-Dichloroethene	25.7		ug/L	25.0		103	70-130	3	20	
trans-1,3-Dichloropropene	22.8		ug/L	25.0		91	70-130	1	20	
Trichloroethene	24.8		ug/L	25.0		99	70-130	1	20	
Trichlorofluoromethane	24.8		ug/L	25.0		99	70-130	1	20	
Vinyl Chloride	24.7		ug/L	25.0		99	70-130	0	20	
Xylene O	24.4		ug/L	25.0		98	70-130	1	20	
Xylene P,M	49.1		ug/L	50.0		98	70-130	0	20	
Surrogate: 1,2-Dichloroethane-d4	*24.5*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.6*		ug/L	*25.0*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*24.1*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Toluene-d8	*23.1*		ug/L	*25.0*		*92*	*70-130*			
Batch BF62615 - 5030B										
Blank										

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62615 - 5030B										
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,1-Trichloroethane	ND	5.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethene	ND	5.0	ug/Kg wet							
1,1-Dichloropropene	ND	5.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	5.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg wet							
1,2-Dibromoethane	ND	5.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,2-Dichloroethane	ND	5.0	ug/Kg wet							
1,2-Dichloropropane	ND	5.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,3-Dichloropropane	ND	5.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	250	ug/Kg wet							
1-Chlorohexane	ND	5.0	ug/Kg wet							
2,2-Dichloropropane	ND	5.0	ug/Kg wet							
2-Butanone	ND	50.0	ug/Kg wet							
2-Chlorotoluene	ND	5.0	ug/Kg wet							
2-Hexanone	ND	50.0	ug/Kg wet							
4-Chlorotoluene	ND	5.0	ug/Kg wet							
4-Isopropyltoluene	ND	5.0	ug/Kg wet							
4-Methyl-2-Pentanone	ND	50.0	ug/Kg wet							
Acetone	ND	50.0	ug/Kg wet							
Benzene	ND	5.0	ug/Kg wet							
Bromobenzene	ND	5.0	ug/Kg wet							
Bromochloromethane	ND	5.0	ug/Kg wet							
Bromodichloromethane	ND	5.0	ug/Kg wet							
Bromoform	ND	5.0	ug/Kg wet							
Bromomethane	ND	10.0	ug/Kg wet							
Carbon Disulfide	ND	5.0	ug/Kg wet							
Carbon Tetrachloride	ND	5.0	ug/Kg wet							
Chlorobenzene	ND	5.0	ug/Kg wet							
Chloroethane	ND	10.0	ug/Kg wet							
Chloroform	ND	5.0	ug/Kg wet							
Chloromethane	ND	10.0	ug/Kg wet							
cis-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Dibromochloromethane	ND	5.0	ug/Kg wet							
Dibromomethane	ND	5.0	ug/Kg wet							
Dichlorodifluoromethane	ND	10.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62615 - 5030B										
Diethyl Ether	ND	5.0	ug/Kg wet							
Di-isopropyl ether	ND	5.0	ug/Kg wet							
Ethyl tertiary-butyl ether	ND	5.0	ug/Kg wet							
Ethylbenzene	ND	5.0	ug/Kg wet							
Hexachlorobutadiene	ND	5.0	ug/Kg wet							
Isopropylbenzene	ND	5.0	ug/Kg wet							
Methyl tert-Butyl Ether	ND	5.0	ug/Kg wet							
Methylene Chloride	ND	25.0	ug/Kg wet							
Naphthalene	ND	5.0	ug/Kg wet							
n-Butylbenzene	ND	5.0	ug/Kg wet							
n-Propylbenzene	ND	5.0	ug/Kg wet							
sec-Butylbenzene	ND	5.0	ug/Kg wet							
Styrene	ND	5.0	ug/Kg wet							
tert-Butylbenzene	ND	5.0	ug/Kg wet							
Tertiary-amyl methyl ether	ND	5.0	ug/Kg wet							
Tetrachloroethene	ND	5.0	ug/Kg wet							
Tetrahydrofuran	ND	5.0	ug/Kg wet							
Toluene	ND	5.0	ug/Kg wet							
trans-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
trans-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Trichloroethene	ND	5.0	ug/Kg wet							
Trichlorofluoromethane	ND	5.0	ug/Kg wet							
Vinyl Chloride	ND	10.0	ug/Kg wet							
Xylene O	ND	5.0	ug/Kg wet							
Xylene P,M	ND	10.0	ug/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*23.6*		ug/L	*25.0*		*94*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.6*		ug/L	*25.0*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*24.7*		ug/L	*25.0*		*99*	*70-130*			
Surrogate: Toluene-d8	*23.3*		ug/L	*25.0*		*93*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	24.4		ug/L	25.0		98	70-130			
1,1,1-Trichloroethane	25.3		ug/L	25.0		101	70-130			
1,1,2,2-Tetrachloroethane	23.7		ug/L	25.0		95	70-130			
1,1,2-Trichloroethane	24.4		ug/L	25.0		98	70-130			
1,1-Dichloroethane	24.4		ug/L	25.0		98	70-130			
1,1-Dichloroethene	26.7		ug/L	25.0		107	70-130			
1,1-Dichloropropene	24.2		ug/L	25.0		97	70-130			
1,2,3-Trichlorobenzene	26.2		ug/L	25.0		105	70-130			
1,2,3-Trichloropropane	23.2		ug/L	25.0		93	70-130			
1,2,4-Trichlorobenzene	23.6		ug/L	25.0		94	70-130			
1,2,4-Trimethylbenzene	24.2		ug/L	25.0		97	70-130			
1,2-Dibromo-3-Chloropropane	24.2		ug/L	25.0		97	70-130			
1,2-Dibromoethane	23.8		ug/L	25.0		95	70-130			
1,2-Dichlorobenzene	23.9		ug/L	25.0		96	70-130			
1,2-Dichloroethane	25.0		ug/L	25.0		100	70-130			
1,2-Dichloropropane	23.4		ug/L	25.0		94	70-130			
1,3,5-Trimethylbenzene	24.2		ug/L	25.0		97	70-130			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62615 - 5030B										
1,3-Dichlorobenzene	23.3		ug/L	25.0		93	70-130			
1,3-Dichloropropane	23.8		ug/L	25.0		95	70-130			
1,4-Dichlorobenzene	23.2		ug/L	25.0		93	70-130			
1,4-Dioxane - Screen	471		ug/L	500		94	70-130			
1-Chlorohexane	23.6		ug/L	25.0		94	70-130			
2,2-Dichloropropane	24.7		ug/L	25.0		99	70-130			
2-Butanone	114		ug/L	125		91	70-130			
2-Chlorotoluene	25.6		ug/L	25.0		102	70-130			
2-Hexanone	110		ug/L	125		88	70-130			
4-Chlorotoluene	23.5		ug/L	25.0		94	70-130			
4-Isopropyltoluene	23.9		ug/L	25.0		96	70-130			
4-Methyl-2-Pentanone	109		ug/L	125		87	70-130			
Acetone	106		ug/L	125		85	70-130			
Benzene	24.5		ug/L	25.0		98	70-130			
Bromobenzene	25.4		ug/L	25.0		102	70-130			
Bromochloromethane	26.2		ug/L	25.0		105	70-130			
Bromodichloromethane	26.9		ug/L	25.0		108	70-130			
Bromoform	25.2		ug/L	25.0		101	70-130			
Bromomethane	19.2		ug/L	25.0		77	70-130			
Carbon Disulfide	24.1		ug/L	25.0		96	70-130			
Carbon Tetrachloride	25.3		ug/L	25.0		101	70-130			
Chlorobenzene	24.3		ug/L	25.0		97	70-130			
Chloroethane	16.5		ug/L	25.0		66	70-130			+
Chloroform	25.7		ug/L	25.0		103	70-130			
Chloromethane	23.2		ug/L	25.0		93	70-130			
cis-1,2-Dichloroethene	26.5		ug/L	25.0		106	70-130			
cis-1,3-Dichloropropene	23.9		ug/L	25.0		96	70-130			
Dibromochloromethane	25.1		ug/L	25.0		100	70-130			
Dibromomethane	25.8		ug/L	25.0		103	70-130			
Dichlorodifluoromethane	23.8		ug/L	25.0		95	70-130			
Diethyl Ether	24.3		ug/L	25.0		97	70-130			
Di-isopropyl ether	23.7		ug/L	25.0		95	70-130			
Ethyl tertiary-butyl ether	23.7		ug/L	25.0		95	70-130			
Ethylbenzene	25.0		ug/L	25.0		100	70-130			
Hexachlorobutadiene	25.6		ug/L	25.0		102	70-130			
Isopropylbenzene	22.3		ug/L	25.0		89	70-130			
Methyl tert-Butyl Ether	27.0		ug/L	25.0		108	70-130			
Methylene Chloride	25.0		ug/L	25.0		100	70-130			
Naphthalene	24.4		ug/L	25.0		98	70-130			
n-Butylbenzene	23.9		ug/L	25.0		96	70-130			
n-Propylbenzene	23.2		ug/L	25.0		93	70-130			
sec-Butylbenzene	24.1		ug/L	25.0		96	70-130			
Styrene	24.7		ug/L	25.0		99	70-130			
tert-Butylbenzene	24.3		ug/L	25.0		97	70-130			
Tertiary-amyl methyl ether	24.6		ug/L	25.0		98	70-130			
Tetrachloroethene	25.0		ug/L	25.0		100	70-130			
Tetrahydrofuran	22.6		ug/L	25.0		90	70-130			

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62615 - 5030B										
Toluene	24.9		ug/L	25.0		100	70-130			
trans-1,2-Dichloroethene	27.6		ug/L	25.0		110	70-130			
trans-1,3-Dichloropropene	22.4		ug/L	25.0		90	70-130			
Trichloroethene	24.8		ug/L	25.0		99	70-130			
Trichlorofluoromethane	24.7		ug/L	25.0		99	70-130			
Vinyl Chloride	24.6		ug/L	25.0		98	70-130			
Xylene O	24.5		ug/L	25.0		98	70-130			
Xylene P,M	48.4		ug/L	50.0		97	70-130			
Surrogate: 1,2-Dichloroethane-d4	*25.0*		ug/L	*25.0*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.6*		ug/L	*25.0*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*24.5*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: Toluene-d8	*23.2*		ug/L	*25.0*		*93*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	25.2		ug/L	25.0		101	70-130	3	20	
1,1,1-Trichloroethane	25.6		ug/L	25.0		102	70-130	1	20	
1,1,2,2-Tetrachloroethane	24.2		ug/L	25.0		97	70-130	2	20	
1,1,2-Trichloroethane	24.8		ug/L	25.0		99	70-130	1	20	
1,1-Dichloroethane	24.6		ug/L	25.0		98	70-130	0	20	
1,1-Dichloroethene	26.9		ug/L	25.0		108	70-130	0.9	20	
1,1-Dichloropropene	25.0		ug/L	25.0		100	70-130	3	20	
1,2,3-Trichlorobenzene	27.0		ug/L	25.0		108	70-130	3	20	
1,2,3-Trichloropropane	23.8		ug/L	25.0		95	70-130	2	20	
1,2,4-Trichlorobenzene	25.1		ug/L	25.0		100	70-130	6	20	
1,2,4-Trimethylbenzene	25.1		ug/L	25.0		100	70-130	3	20	
1,2-Dibromo-3-Chloropropane	25.0		ug/L	25.0		100	70-130	3	20	
1,2-Dibromoethane	24.6		ug/L	25.0		98	70-130	3	20	
1,2-Dichlorobenzene	24.6		ug/L	25.0		98	70-130	2	20	
1,2-Dichloroethane	25.3		ug/L	25.0		101	70-130	1	20	
1,2-Dichloropropane	23.7		ug/L	25.0		95	70-130	1	20	
1,3,5-Trimethylbenzene	24.9		ug/L	25.0		100	70-130	3	20	
1,3-Dichlorobenzene	24.3		ug/L	25.0		97	70-130	4	20	
1,3-Dichloropropane	24.7		ug/L	25.0		99	70-130	4	20	
1,4-Dichlorobenzene	24.2		ug/L	25.0		97	70-130	4	20	
1,4-Dioxane - Screen	479		ug/L	500		96	70-130	2	20	
1-Chlorohexane	24.8		ug/L	25.0		99	70-130	5	20	
2,2-Dichloropropane	24.7		ug/L	25.0		99	70-130	0	20	
2-Butanone	116		ug/L	125		93	70-130	2	20	
2-Chlorotoluene	27.3		ug/L	25.0		109	70-130	7	20	
2-Hexanone	115		ug/L	125		92	70-130	4	20	
4-Chlorotoluene	24.2		ug/L	25.0		97	70-130	3	20	
4-Isopropyltoluene	24.7		ug/L	25.0		99	70-130	3	20	
4-Methyl-2-Pentanone	112		ug/L	125		90	70-130	3	20	
Acetone	113		ug/L	125		90	70-130	6	20	
Benzene	24.9		ug/L	25.0		100	70-130	2	20	
Bromobenzene	26.1		ug/L	25.0		104	70-130	2	20	
Bromochloromethane	26.6		ug/L	25.0		106	70-130	0.9	20	
Bromodichloromethane	27.1		ug/L	25.0		108	70-130	0	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62615 - 5030B										
Bromoform	26.1		ug/L	25.0		104	70-130	3	20	
Bromomethane	19.6		ug/L	25.0		78	70-130	1	20	
Carbon Disulfide	24.6		ug/L	25.0		98	70-130	2	20	
Carbon Tetrachloride	25.7		ug/L	25.0		103	70-130	2	20	
Chlorobenzene	25.2		ug/L	25.0		101	70-130	4	20	
Chloroethane	17.2		ug/L	25.0		69	70-130	4	20	+
Chloroform	26.0		ug/L	25.0		104	70-130	1	20	
Chloromethane	23.7		ug/L	25.0		95	70-130	2	20	
cis-1,2-Dichloroethene	27.0		ug/L	25.0		108	70-130	2	20	
cis-1,3-Dichloropropene	24.3		ug/L	25.0		97	70-130	1	20	
Dibromochloromethane	25.9		ug/L	25.0		104	70-130	4	20	
Dibromomethane	26.0		ug/L	25.0		104	70-130	1	20	
Dichlorodifluoromethane	23.8		ug/L	25.0		95	70-130	0	20	
Diethyl Ether	24.5		ug/L	25.0		98	70-130	1	20	
Di-isopropyl ether	24.1		ug/L	25.0		96	70-130	1	20	
Ethyl tertiary-butyl ether	23.9		ug/L	25.0		96	70-130	1	20	
Ethylbenzene	25.9		ug/L	25.0		104	70-130	4	20	
Hexachlorobutadiene	26.4		ug/L	25.0		106	70-130	4	20	
Isopropylbenzene	22.9		ug/L	25.0		92	70-130	3	20	
Methyl tert-Butyl Ether	27.6		ug/L	25.0		110	70-130	2	20	
Methylene Chloride	25.5		ug/L	25.0		102	70-130	2	20	
Naphthalene	25.3		ug/L	25.0		101	70-130	3	20	
n-Butylbenzene	25.0		ug/L	25.0		100	70-130	4	20	
n-Propylbenzene	23.8		ug/L	25.0		95	70-130	2	20	
sec-Butylbenzene	24.6		ug/L	25.0		98	70-130	2	20	
Styrene	25.7		ug/L	25.0		103	70-130	4	20	
tert-Butylbenzene	24.8		ug/L	25.0		99	70-130	2	20	
Tertiary-amyl methyl ether	25.1		ug/L	25.0		100	70-130	2	20	
Tetrachloroethene	26.4		ug/L	25.0		106	70-130	6	20	
Tetrahydrofuran	21.8		ug/L	25.0		87	70-130	3	20	
Toluene	25.4		ug/L	25.0		102	70-130	2	20	
trans-1,2-Dichloroethene	28.8		ug/L	25.0		115	70-130	4	20	
trans-1,3-Dichloropropene	22.7		ug/L	25.0		91	70-130	1	20	
Trichloroethene	25.2		ug/L	25.0		101	70-130	2	20	
Trichlorofluoromethane	25.0		ug/L	25.0		100	70-130	1	20	
Vinyl Chloride	24.9		ug/L	25.0		100	70-130	2	20	
Xylene O	25.3		ug/L	25.0		101	70-130	3	20	
Xylene P,M	50.8		ug/L	50.0		102	70-130	5	20	
Surrogate: 1,2-Dichloroethane-d4	*24.8*		ug/L	*25.0*		*99*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.8*		ug/L	*25.0*		*95*	*70-130*			
Surrogate: Dibromofluoromethane	*24.2*		ug/L	*25.0*		*97*	*70-130*			
Surrogate: Toluene-d8	*23.3*		ug/L	*25.0*		*93*	*70-130*			
Batch BF62718 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,1-Trichloroethane	ND	5.0	ug/Kg wet							

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62615 - 5030B										
Bromoform	26.1		ug/L	25.0		104	70-130	3	20	
Bromomethane	19.6		ug/L	25.0		78	70-130	1	20	
Carbon Disulfide	24.6		ug/L	25.0		98	70-130	2	20	
Carbon Tetrachloride	25.7		ug/L	25.0		103	70-130	2	20	
Chlorobenzene	25.2		ug/L	25.0		101	70-130	4	20	
Chloroethane	17.2		ug/L	25.0		69	70-130	4	20	+
Chloroform	26.0		ug/L	25.0		104	70-130	1	20	
Chloromethane	23.7		ug/L	25.0		95	70-130	2	20	
cis-1,2-Dichloroethene	27.0		ug/L	25.0		108	70-130	2	20	
cis-1,3-Dichloropropene	24.3		ug/L	25.0		97	70-130	1	20	
Dibromochloromethane	25.9		ug/L	25.0		104	70-130	4	20	
Dibromomethane	26.0		ug/L	25.0		104	70-130	1	20	
Dichlorodifluoromethane	23.8		ug/L	25.0		95	70-130	0	20	
Diethyl Ether	24.5		ug/L	25.0		98	70-130	1	20	
Di-isopropyl ether	24.1		ug/L	25.0		96	70-130	1	20	
Ethyl tertiary-butyl ether	23.9		ug/L	25.0		96	70-130	1	20	
Ethylbenzene	25.9		ug/L	25.0		104	70-130	4	20	
Hexachlorobutadiene	26.4		ug/L	25.0		106	70-130	4	20	
Isopropylbenzene	22.9		ug/L	25.0		92	70-130	3	20	
Methyl tert-Butyl Ether	27.6		ug/L	25.0		110	70-130	2	20	
Methylene Chloride	25.5		ug/L	25.0		102	70-130	2	20	
Naphthalene	25.3		ug/L	25.0		101	70-130	3	20	
n-Butylbenzene	25.0		ug/L	25.0		100	70-130	4	20	
n-Propylbenzene	23.8		ug/L	25.0		95	70-130	2	20	
sec-Butylbenzene	24.6		ug/L	25.0		98	70-130	2	20	
Styrene	25.7		ug/L	25.0		103	70-130	4	20	
tert-Butylbenzene	24.8		ug/L	25.0		99	70-130	2	20	
Tertiary-amyl methyl ether	25.1		ug/L	25.0		100	70-130	2	20	
Tetrachloroethene	26.4		ug/L	25.0		106	70-130	6	20	
Tetrahydrofuran	21.8		ug/L	25.0		87	70-130	3	20	
Toluene	25.4		ug/L	25.0		102	70-130	2	20	
trans-1,2-Dichloroethene	28.8		ug/L	25.0		115	70-130	4	20	
trans-1,3-Dichloropropene	22.7		ug/L	25.0		91	70-130	1	20	
Trichloroethene	25.2		ug/L	25.0		101	70-130	2	20	
Trichlorofluoromethane	25.0		ug/L	25.0		100	70-130	1	20	
Vinyl Chloride	24.9		ug/L	25.0		100	70-130	2	20	
Xylene O	25.3		ug/L	25.0		101	70-130	3	20	
Xylene P,M	50.8		ug/L	50.0		102	70-130	5	20	
Surrogate: 1,2-Dichloroethane-d4	*24.8*		ug/L	*25.0*		*99*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.8*		ug/L	*25.0*		*95*	*70-130*			
Surrogate: Dibromofluoromethane	*24.2*		ug/L	*25.0*		*97*	*70-130*			
Surrogate: Toluene-d8	*23.3*		ug/L	*25.0*		*93*	*70-130*			
Batch BF62718 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,1-Trichloroethane	ND	5.0	ug/Kg wet							

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62718 - 5035										
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethene	ND	5.0	ug/Kg wet							
1,1-Dichloropropene	ND	5.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	5.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg wet							
1,2-Dibromoethane	ND	5.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,2-Dichloroethane	ND	5.0	ug/Kg wet							
1,2-Dichloropropane	ND	5.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,3-Dichloropropane	ND	5.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	250	ug/Kg wet							
1-Chlorohexane	ND	5.0	ug/Kg wet							
2,2-Dichloropropane	ND	5.0	ug/Kg wet							
2-Butanone	ND	50.0	ug/Kg wet							
2-Chlorotoluene	ND	5.0	ug/Kg wet							
2-Hexanone	ND	50.0	ug/Kg wet							
4-Chlorotoluene	ND	5.0	ug/Kg wet							
4-Isopropyltoluene	ND	5.0	ug/Kg wet							
4-Methyl-2-Pentanone	ND	50.0	ug/Kg wet							
Acetone	ND	50.0	ug/Kg wet							
Benzene	ND	5.0	ug/Kg wet							
Bromobenzene	ND	5.0	ug/Kg wet							
Bromochloromethane	ND	5.0	ug/Kg wet							
Bromodichloromethane	ND	5.0	ug/Kg wet							
Bromoform	ND	5.0	ug/Kg wet							
Bromomethane	ND	10.0	ug/Kg wet							
Carbon Disulfide	ND	5.0	ug/Kg wet							
Carbon Tetrachloride	ND	5.0	ug/Kg wet							
Chlorobenzene	ND	5.0	ug/Kg wet							
Chloroethane	ND	10.0	ug/Kg wet							
Chloroform	ND	5.0	ug/Kg wet							
Chloromethane	ND	10.0	ug/Kg wet							
cis-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Dibromochloromethane	ND	5.0	ug/Kg wet							
Dibromomethane	ND	5.0	ug/Kg wet							
Dichlorodifluoromethane	ND	10.0	ug/Kg wet							
Diethyl Ether	ND	5.0	ug/Kg wet							
Di-isopropyl ether	ND	5.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62718 - 5035										
Ethyl tertiary-butyl ether	ND	5.0	ug/Kg wet							
Ethylbenzene	ND	5.0	ug/Kg wet							
Hexachlorobutadiene	ND	5.0	ug/Kg wet							
Isopropylbenzene	ND	5.0	ug/Kg wet							
Methyl tert-Butyl Ether	ND	5.0	ug/Kg wet							
Methylene Chloride	ND	25.0	ug/Kg wet							
Naphthalene	ND	5.0	ug/Kg wet							
n-Butylbenzene	ND	5.0	ug/Kg wet							
n-Propylbenzene	ND	5.0	ug/Kg wet							
sec-Butylbenzene	ND	5.0	ug/Kg wet							
Styrene	ND	5.0	ug/Kg wet							
tert-Butylbenzene	ND	5.0	ug/Kg wet							
Tertiary-amyl methyl ether	ND	5.0	ug/Kg wet							
Tetrachloroethene	ND	5.0	ug/Kg wet							
Tetrahydrofuran	ND	5.0	ug/Kg wet							
Toluene	ND	5.0	ug/Kg wet							
trans-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
trans-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Trichloroethene	ND	5.0	ug/Kg wet							
Trichlorofluoromethane	ND	5.0	ug/Kg wet							
Vinyl Chloride	ND	10.0	ug/Kg wet							
Xylene O	ND	5.0	ug/Kg wet							
Xylene P,M	ND	10.0	ug/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*23.6*		ug/L	*25.0*		*94*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.0*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*24.9*		ug/L	*25.0*		*100*	*70-130*			
Surrogate: Toluene-d8	*23.6*		ug/L	*25.0*		*94*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	24.4		ug/L	25.0		98	70-130			
1,1,1-Trichloroethane	24.8		ug/L	25.0		99	70-130			
1,1,2,2-Tetrachloroethane	22.7		ug/L	25.0		91	70-130			
1,1,2-Trichloroethane	23.8		ug/L	25.0		95	70-130			
1,1-Dichloroethane	24.0		ug/L	25.0		96	70-130			
1,1-Dichloroethene	26.0		ug/L	25.0		104	70-130			
1,1-Dichloropropene	24.0		ug/L	25.0		96	70-130			
1,2,3-Trichlorobenzene	25.7		ug/L	25.0		103	70-130			
1,2,3-Trichloropropane	20.8		ug/L	25.0		83	70-130			
1,2,4-Trichlorobenzene	24.2		ug/L	25.0		97	70-130			
1,2,4-Trimethylbenzene	24.2		ug/L	25.0		97	70-130			
1,2-Dibromo-3-Chloropropane	22.6		ug/L	25.0		90	70-130			
1,2-Dibromoethane	23.6		ug/L	25.0		94	70-130			
1,2-Dichlorobenzene	23.7		ug/L	25.0		95	70-130			
1,2-Dichloroethane	24.5		ug/L	25.0		98	70-130			
1,2-Dichloropropane	22.9		ug/L	25.0		92	70-130			
1,3,5-Trimethylbenzene	24.0		ug/L	25.0		96	70-130			
1,3-Dichlorobenzene	23.5		ug/L	25.0		94	70-130			
1,3-Dichloropropane	23.6		ug/L	25.0		94	70-130			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62718 - 5035										
1,4-Dichlorobenzene	23.2		ug/L	25.0		93	70-130			
1,4-Dioxane - Screen	417		ug/L	500		83	70-130			
1-Chlorohexane	24.3		ug/L	25.0		97	70-130			
2,2-Dichloropropane	25.4		ug/L	25.0		102	70-130			
2-Butanone	105		ug/L	125		84	70-130			
2-Chlorotoluene	24.4		ug/L	25.0		98	70-130			
2-Hexanone	107		ug/L	125		86	70-130			
4-Chlorotoluene	23.4		ug/L	25.0		94	70-130			
4-Isopropyltoluene	23.9		ug/L	25.0		96	70-130			
4-Methyl-2-Pentanone	103		ug/L	125		82	70-130			
Acetone	99.6		ug/L	125		80	70-130			
Benzene	24.1		ug/L	25.0		96	70-130			
Bromobenzene	25.1		ug/L	25.0		100	70-130			
Bromochloromethane	25.6		ug/L	25.0		102	70-130			
Bromodichloromethane	26.5		ug/L	25.0		106	70-130			
Bromoform	24.7		ug/L	25.0		99	70-130			
Bromomethane	18.9		ug/L	25.0		76	70-130			
Carbon Disulfide	24.1		ug/L	25.0		96	70-130			
Carbon Tetrachloride	24.8		ug/L	25.0		99	70-130			
Chlorobenzene	24.4		ug/L	25.0		98	70-130			
Chloroethane	18.4		ug/L	25.0		74	70-130			
Chloroform	25.1		ug/L	25.0		100	70-130			
Chloromethane	23.2		ug/L	25.0		93	70-130			
cis-1,2-Dichloroethene	26.1		ug/L	25.0		104	70-130			
cis-1,3-Dichloropropene	23.8		ug/L	25.0		95	70-130			
Dibromochloromethane	24.7		ug/L	25.0		99	70-130			
Dibromomethane	25.0		ug/L	25.0		100	70-130			
Dichlorodifluoromethane	23.6		ug/L	25.0		94	70-130			
Diethyl Ether	23.3		ug/L	25.0		93	70-130			
Di-isopropyl ether	23.4		ug/L	25.0		94	70-130			
Ethyl tertiary-butyl ether	23.2		ug/L	25.0		93	70-130			
Ethylbenzene	25.1		ug/L	25.0		100	70-130			
Hexachlorobutadiene	25.7		ug/L	25.0		103	70-130			
Isopropylbenzene	22.0		ug/L	25.0		88	70-130			
Methyl tert-Butyl Ether	26.1		ug/L	25.0		104	70-130			
Methylene Chloride	24.5		ug/L	25.0		98	70-130			
Naphthalene	22.7		ug/L	25.0		91	70-130			
n-Butylbenzene	24.4		ug/L	25.0		98	70-130			
n-Propylbenzene	23.7		ug/L	25.0		95	70-130			
sec-Butylbenzene	23.8		ug/L	25.0		95	70-130			
Styrene	24.9		ug/L	25.0		100	70-130			
tert-Butylbenzene	24.0		ug/L	25.0		96	70-130			
Tertiary-amyl methyl ether	24.0		ug/L	25.0		96	70-130			
Tetrachloroethene	25.0		ug/L	25.0		100	70-130			
Tetrahydrofuran	20.9		ug/L	25.0		84	70-130			
Toluene	24.6		ug/L	25.0		98	70-130			
trans-1,2-Dichloroethene	27.9		ug/L	25.0		112	70-130			

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62718 - 5035										
trans-1,3-Dichloropropene	22.3		ug/L	25.0		89	70-130			
Trichloroethene	24.3		ug/L	25.0		97	70-130			
Trichlorofluoromethane	24.4		ug/L	25.0		98	70-130			
Vinyl Chloride	24.4		ug/L	25.0		98	70-130			
Xylene O	24.5		ug/L	25.0		98	70-130			
Xylene P,M	49.4		ug/L	50.0		99	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.3*		ug/L	*25.0*		*97*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.8*		ug/L	*25.0*		*95*	*70-130*			
Surrogate: Dibromofluoromethane	*24.1*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Toluene-d8	*23.4*		ug/L	*25.0*		*94*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	24.4		ug/L	25.0		98	70-130	0	20	
1,1,1-Trichloroethane	24.7		ug/L	25.0		99	70-130	0	20	
1,1,2,2-Tetrachloroethane	23.4		ug/L	25.0		94	70-130	3	20	
1,1,2-Trichloroethane	23.7		ug/L	25.0		95	70-130	0	20	
1,1-Dichloroethane	23.8		ug/L	25.0		95	70-130	1	20	
1,1-Dichloroethene	26.0		ug/L	25.0		104	70-130	0	20	
1,1-Dichloropropene	24.0		ug/L	25.0		96	70-130	0	20	
1,2,3-Trichlorobenzene	26.7		ug/L	25.0		107	70-130	4	20	
1,2,3-Trichloropropane	23.2		ug/L	25.0		93	70-130	11	20	
1,2,4-Trichlorobenzene	24.6		ug/L	25.0		98	70-130	1	20	
1,2,4-Trimethylbenzene	24.4		ug/L	25.0		98	70-130	1	20	
1,2-Dibromo-3-Chloropropane	23.8		ug/L	25.0		95	70-130	5	20	
1,2-Dibromoethane	23.9		ug/L	25.0		96	70-130	2	20	
1,2-Dichlorobenzene	23.9		ug/L	25.0		96	70-130	1	20	
1,2-Dichloroethane	24.6		ug/L	25.0		98	70-130	0	20	
1,2-Dichloropropane	23.0		ug/L	25.0		92	70-130	0	20	
1,3,5-Trimethylbenzene	24.2		ug/L	25.0		97	70-130	1	20	
1,3-Dichlorobenzene	23.6		ug/L	25.0		94	70-130	0	20	
1,3-Dichloropropane	23.6		ug/L	25.0		94	70-130	0	20	
1,4-Dichlorobenzene	23.5		ug/L	25.0		94	70-130	1	20	
1,4-Dioxane - Screen	438		ug/L	500		88	70-130	6	20	
1-Chlorohexane	24.1		ug/L	25.0		96	70-130	1	20	
2,2-Dichloropropane	25.1		ug/L	25.0		100	70-130	2	20	
2-Butanone	111		ug/L	125		89	70-130	6	20	
2-Chlorotoluene	25.9		ug/L	25.0		104	70-130	6	20	
2-Hexanone	111		ug/L	125		89	70-130	3	20	
4-Chlorotoluene	24.0		ug/L	25.0		96	70-130	2	20	
4-Isopropyltoluene	24.1		ug/L	25.0		96	70-130	0	20	
4-Methyl-2-Pentanone	108		ug/L	125		86	70-130	5	20	
Acetone	107		ug/L	125		86	70-130	7	20	
Benzene	24.0		ug/L	25.0		96	70-130	0	20	
Bromobenzene	25.2		ug/L	25.0		101	70-130	1	20	
Bromochloromethane	25.4		ug/L	25.0		102	70-130	0	20	
Bromodichloromethane	26.3		ug/L	25.0		105	70-130	0.9	20	
Bromoform	25.0		ug/L	25.0		100	70-130	1	20	
Bromomethane	18.8		ug/L	25.0		75	70-130	1	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62718 - 5035										
Carbon Disulfide	23.8		ug/L	25.0		95	70-130	1	20	
Carbon Tetrachloride	24.7		ug/L	25.0		99	70-130	0	20	
Chlorobenzene	24.4		ug/L	25.0		98	70-130	0	20	
Chloroethane	17.3		ug/L	25.0		69	70-130	7	20	+
Chloroform	25.1		ug/L	25.0		100	70-130	0	20	
Chloromethane	23.1		ug/L	25.0		92	70-130	1	20	
cis-1,2-Dichloroethene	25.9		ug/L	25.0		104	70-130	0	20	
cis-1,3-Dichloropropene	23.7		ug/L	25.0		95	70-130	0	20	
Dibromochloromethane	24.8		ug/L	25.0		99	70-130	0	20	
Dibromomethane	25.0		ug/L	25.0		100	70-130	0	20	
Dichlorodifluoromethane	23.0		ug/L	25.0		92	70-130	2	20	
Diethyl Ether	23.3		ug/L	25.0		93	70-130	0	20	
Di-isopropyl ether	23.1		ug/L	25.0		92	70-130	2	20	
Ethyl tertiary-butyl ether	23.2		ug/L	25.0		93	70-130	0	20	
Ethylbenzene	25.2		ug/L	25.0		101	70-130	1	20	
Hexachlorobutadiene	25.9		ug/L	25.0		104	70-130	1	20	
Isopropylbenzene	22.2		ug/L	25.0		89	70-130	1	20	
Methyl tert-Butyl Ether	26.4		ug/L	25.0		106	70-130	2	20	
Methylene Chloride	24.6		ug/L	25.0		98	70-130	0	20	
Naphthalene	24.2		ug/L	25.0		97	70-130	6	20	
n-Butylbenzene	24.7		ug/L	25.0		99	70-130	1	20	
n-Propylbenzene	23.4		ug/L	25.0		94	70-130	1	20	
sec-Butylbenzene	24.0		ug/L	25.0		96	70-130	1	20	
Styrene	24.7		ug/L	25.0		99	70-130	1	20	
tert-Butylbenzene	24.2		ug/L	25.0		97	70-130	1	20	
Tertiary-amyl methyl ether	24.2		ug/L	25.0		97	70-130	1	20	
Tetrachloroethene	24.9		ug/L	25.0		100	70-130	0	20	
Tetrahydrofuran	22.0		ug/L	25.0		88	70-130	5	20	
Toluene	24.5		ug/L	25.0		98	70-130	0	20	
trans-1,2-Dichloroethene	27.8		ug/L	25.0		111	70-130	0.9	20	
trans-1,3-Dichloropropene	22.4		ug/L	25.0		90	70-130	1	20	
Trichloroethene	24.3		ug/L	25.0		97	70-130	0	20	
Trichlorofluoromethane	24.2		ug/L	25.0		97	70-130	1	20	
Vinyl Chloride	24.3		ug/L	25.0		97	70-130	1	20	
Xylene O	24.4		ug/L	25.0		98	70-130	0	20	
Xylene P,M	49.5		ug/L	50.0		99	70-130	0	20	
Surrogate: 1,2-Dichloroethane-d4	*24.5*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.6*		ug/L	*25.0*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*23.9*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Toluene-d8	*23.3*		ug/L	*25.0*		*93*	*70-130*			
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62806 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	100	ug/Kg wet							
1,1,1-Trichloroethane	ND	50.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	50.0	ug/Kg wet							

Volatile Organics Calibration Data

ANALYSIS SEQUENCE

BPF0045

Instrument: VMS4

Calibration ID: 0605037

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0045-TUN1	QC		1		6F06045		
BPF0045-CAL1	QC		2		6F06046	6E24035	
BPF0045-CAL2	QC		3		6F06047	6E24035	
BPF0045-CAL3	QC		4		6F06048	6E24035	
BPF0045-CAL4	QC		5		6F06049	6E24035	
BPF0045-CAL5	QC		6		6F06050	6E24035	
BPF0045-CAL6	QC		7		6F06051	6E24035	
BPF0045-SCV1	QC		8		6F06053	6E24035	

Samples Loaded By Date Data Processed By Date

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/5/06	7	M4 14922	0606019-06	A8050906		mo
	8	M4 23	-07			
	9	M4 24	-08			
	10	M4 26	-03		10X	
	11	M4 26	-04		10X	
	12	M4 27	-02		50X	
	13	M4 28	-09		50X	
3B5 6/6/06	14	M4 29	-05	A8050906	100X	mo
6/6/06	1	M4 30	BLF0045-TUNI	L0052606	6F06045	
	2	M4 31	BLF0045-CAL1		6F06046	
	3	M4 32	BLF0045-CAL2		6F06047	
	4	M4 33	BLF0045-CAL3		6F06048	
	5	M4 34	BLF0045-CAL4		6F06049	
	6	M4 35	BLF0045-CAL5		6F06050	
	7	M4 36	BLF0045-CAL6		6F06051	
	8	M4 37	TestBlk	L0052606		
6/6/06	9	M4 38	BLF0045-SCV1	L0060606	6F06053	mo

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

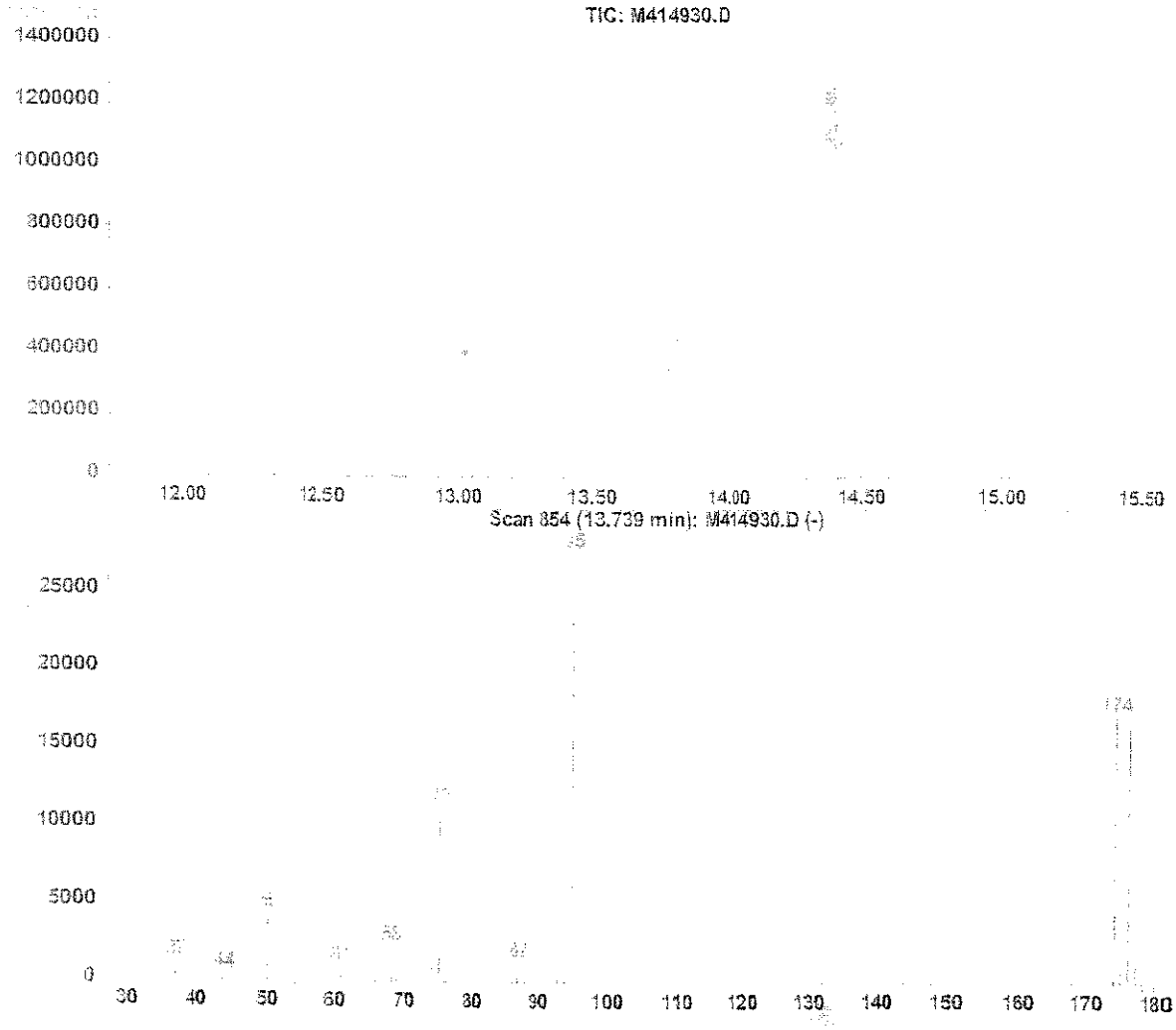
Surrogate: 6E24033

On-column IS: 6E24035

Page _____

BFB

Data File : Q:/VOA/MS4_MH/MH0606/MH060606\M414930.D Vial: 1
Acq On : 6 Jun 2006 8:26 am Operator: MD
Sample : BPF0045-TUN1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\LO052606.M (RTE Integrator)
Title : Element ID: 0605024



Spectrum Information: Scan 854

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.5	4266	PASS
75	95	30	60	40.5	11154	PASS
95	95	100	100	100.0	27546	PASS
96	95	5	9	7.7	2125	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	62.0	17069	PASS
175	174	5	9	8.2	1407	PASS
176	174	95	101	96.1	16395	PASS
177	176	5	9	8.2	1348	PASS

Response Factor Report VOA_MS4

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration

Calibration Files
25 =M414931.D 10 =M414932.D 5 =M414933.D
2.5 =M414934.D 50 =M414935.D 100 =M414936.D

		Compound	25	10	5	2.5	50	100	Avg	%RSD
1)	I	Fluorobenzene	ISTD							
2)		Dichlorodifluoromet	0.310	0.311	0.354	0.399	0.307	0.317	0.333	11.03
3)		Chloromethane	0.142	0.143	0.167	0.185	0.147	0.167	0.158	10.84
4)		Vinyl Chloride	0.162	0.162	0.185	0.201	0.164	0.166	0.174	9.37
5)		Bromomethane	0.147	0.153	0.181	0.191	0.143	0.143	0.160	13.12
6)		Chloroethane	0.085	0.087	0.104	0.109	0.066	0.051	0.084	26.41
7)		Trichlorofluorometh	0.540	0.544	0.628	0.678	0.544	0.567	0.584	9.74
8)		Diethyl ether	0.098	0.098	0.113	0.120	0.101	0.102	0.105	8.63
9)		Acrolein	0.019	0.020	0.025		0.020	0.019	0.021	11.91
10)		1,1,2-Trichloro-1,2	0.539	0.541	0.622	0.667	0.531	0.549	0.575	9.74
11)		Acetone	0.008	0.008	0.011	0.012	0.009	0.009	0.009	13.32
12)		Iodomethane	0.539	0.504	0.598	0.626	0.619	0.548	0.572	8.64
13)		Carbon Disulfide	0.575	0.582	0.676	0.734	0.572	0.596	0.622	10.74
14)		1,1-Dichloroethene	0.230	0.235	0.269	0.291	0.227	0.230	0.247	10.87
15)		Allyl Chloride	0.233	0.236	0.273	0.295	0.231	0.216	0.248	12.19
16)		Methyl Acetate	0.088	0.091	0.125		0.096	0.093	0.099	15.44
17)		Methylene Chloride	0.219	0.241	0.305	0.349	0.217	0.220	0.259	21.44
18)		Tertiary-butyl Alco	0.015	0.016	0.020	0.029	0.017	0.017	0.019	26.87
19)		Methyl tert-Butyl E	0.394	0.416	0.459	0.462	0.396	0.420	0.425	6.98
20)		Acrylonitrile	0.033	0.036	0.039	0.040	0.035	0.035	0.036	8.21
21)		trans-1,2-Dichloroe	0.264	0.284	0.300	0.322	0.265	0.276	0.285	7.91
22)		1,1-Dichloroethane	0.424	0.426	0.490	0.526	0.429	0.444	0.456	9.24
23)		Chloroprene	0.260	0.259	0.294	0.314	0.263	0.273	0.277	8.03
24)		Vinyl Acetate	0.638	0.643	0.758	0.798	0.657	0.660	0.692	9.85
25)		Di-isopropyl ether	0.631	0.634	0.733	0.790	0.639	0.654	0.680	9.67
26)		Ethyl tertiary-buty	0.580	0.578	0.665	0.714	0.596	0.613	0.624	8.69
27)		2-Butanone	0.016	0.016	0.020	0.021	0.018	0.017	0.018	10.65
28)		cis-1,2 Dichloroeth	0.302	0.302	0.342	0.367	0.305	0.314	0.322	8.31
29)		2,2-Dichloropropane	0.366	0.364	0.416	0.463	0.358	0.375	0.390	10.59
30)		Methyl Acrylate	0.167	0.168	0.207	0.209	0.182	0.178	0.185	10.03
31)		Methacrylonitrile	0.092	0.101	0.123	0.130	0.101	0.099	0.108	14.21
32)		Bromochloromethane	0.226	0.227	0.262	0.282	0.228	0.224	0.241	10.10
33)		Tetrahydrofuran	0.045	0.047	0.058		0.047	0.045	0.048	11.66
34)		Chloroform	0.534	0.530	0.610	0.660	0.542	0.566	0.574	8.99
35)		1,1,1-Trichloroetha	0.518	0.516	0.600	0.651	0.528	0.550	0.560	9.67
36)	S	Dibromofluoromethan	0.691	0.703	0.824	0.919	0.698	0.715	0.758	12.28
37)		Cyclohexane	0.298	0.294	0.344	0.366	0.288	0.286	0.313	10.86
38)		1-Chlorobutane	0.372	0.388	0.442	0.478	0.387	0.404	0.412	9.77
39)		1,1-Dichloropropene	0.362	0.367	0.421	0.458	0.371	0.373	0.392	9.88
40)		Carbon Tetrachlorid	0.563	0.563	0.659	0.720	0.577	0.603	0.614	10.27
41)		Benzene	0.655	0.651	0.762	0.820	0.665	0.686	0.707	9.76
42)	S	1,2-Dichloroethane-	0.224	0.226	0.267	0.293	0.229	0.236	0.246	11.34
43)		1,2-Dichloroethane	0.240	0.237	0.269	0.291	0.250	0.256	0.257	7.82
44)		Tertiary-amyl methy	0.530	0.525	0.609	0.649	0.555	0.559	0.571	8.50

(#) = Out of Range

Response Factor Report VOA_MS4

Method : C:\HPCHEM\1\METHODS\L0060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration

Calibration Files
25 =M414931.D 10 =M414932.D 5 =M414933.D
2.5 =M414934.D 50 =M414935.D 100 =M414936.D

		Compound	25	10	5	2.5	50	100	Avg	%RSD
45)		Trichloroethene	0.384	0.382	0.444	0.481	0.390	0.403	0.414	9.65
46)		Methyl Cyclohexane	0.374	0.371	0.429	0.454	0.380	0.391	0.400	8.43
47)		1,2-Dichloropropane	0.266	0.263	0.304	0.332	0.270	0.276	0.285	9.58
48)		Dibromomethane	0.314	0.310	0.362	0.387	0.323	0.326	0.337	9.11
49)		1,4-Dioxane	0.002	0.002	0.003	0.004	0.003	0.003	0.003	21.57
50)		Methyl Methacrylate	0.167	0.165	0.198	0.209	0.175	0.173	0.181	9.87
51)		Bromodichloromethan	0.553	0.537	0.615	0.683	0.556	0.575	0.587	9.26
52)		2-Nitropropane	0.042	0.043	0.053	0.056	0.047	0.045	0.048	11.96
53)		2-Chloroethyl vinyl	0.096	0.103	0.126	0.133	0.093	0.080	0.105	19.23
54)		4-Methyl-2-Pentanon	0.076	0.077	0.095	0.105	0.084	0.080	0.086	13.45
55)		cis-1,3-Dichloropro	0.412	0.401	0.458	0.502	0.415	0.426	0.436	8.69
56)		Toluene	0.511	0.500	0.579	0.634	0.512	0.533	0.545	9.54
57)		trans-1,3-Dichlorop	0.342	0.332	0.383	0.410	0.352	0.359	0.363	8.01
58)		1,1,2-Trichloroetha	0.228	0.225	0.269	0.286	0.235	0.235	0.246	10.21
59)	I	Chlorobenzene-d5	ISTD							
60)	S	Toluene-d8 (SURR)	1.009	1.001	1.152	1.264	1.011	1.062	1.083	9.72
61)		2-Hexanone	0.147	0.155	0.191	0.225	0.165	0.162	0.174	16.70
62)		Ethyl Methacrylate	0.348	0.351	0.415	0.437	0.366	0.366	0.380	9.64
63)		1,3-Dichloropropane	0.428	0.428	0.495	0.524	0.443	0.455	0.462	8.47
64)		Tetrachloroethene	0.457	0.454	0.522	0.572	0.460	0.477	0.490	9.70
65)		Dibromochloromethan	0.744	0.728	0.843	0.909	0.763	0.794	0.797	8.59
66)		1,2-Dibromoethane	0.562	0.561	0.649	0.691	0.584	0.595	0.607	8.59
67)		1-Chlorohexane	0.479	0.482	0.557	0.594	0.482	0.499	0.516	9.39
68)		Chlorobenzene	0.871	0.862	0.991	1.077	0.872	0.911	0.931	9.25
69)		1,1,1,2-Tetrachloro	0.498	0.503	0.591	0.647	0.500	0.522	0.543	11.40
70)		Ethylbenzene	1.216	1.191	1.367	1.504	1.210	1.264	1.292	9.42
71)		Xylene P,M	0.499	0.494	0.571	0.621	0.500	0.519	0.534	9.61
72)		Xylene O	0.471	0.476	0.543	0.596	0.473	0.488	0.508	10.00
73)		Styrene	0.819	0.804	0.918	0.999	0.819	0.850	0.868	8.76
74)		Bromoform	0.541	0.526	0.617	0.661	0.570	0.583	0.583	8.53
75)		cis-1,4-Dichloro-2-	0.111	0.127	0.112	0.119	0.113	0.110	0.115	5.84
76)	S	Bromofluorobenzene	0.684	0.680	0.783	0.873	0.679	0.702	0.733	10.80
77)	I	1,4 Dichlorobenzene-D	ISTD							
78)		Isopropylbenzene	2.395	2.382	2.735	3.010	2.412	2.587	2.587	9.64
79)		Trans-1,4-Dichloro-	0.145	0.138	0.159	0.171	0.156	0.163	0.155	7.79
80)		1,2,3-Trichloroprop	0.653	0.653	0.852	0.861	0.705	0.768	0.748	12.53
81)		Bromobenzene	0.842	0.836	0.961	1.058	0.856	0.907	0.910	9.54
82)		1,1,2,2-Tetrachloro	0.864	0.870	1.053	1.256	0.916	0.933	0.982	15.32
83)		n-Propylbenzene	3.166	3.070	3.512	3.848	3.101	3.185	3.314	9.24
84)		2-Chlorotoluene	1.422	1.484	1.746	1.995	1.493	1.709	1.625	11.45
85)		4-Chlorotoluene	2.010	2.012	2.291	2.677	1.998	2.131	2.186	12.13
86)		1,3,5-Trimethylbenz	1.963	1.949	2.275	2.505	1.973	2.102	2.128	10.45
87)		Pentachloroethane	2.772	2.760	3.190	3.550	2.776	2.916	2.994	10.62

(#) = Out of Range

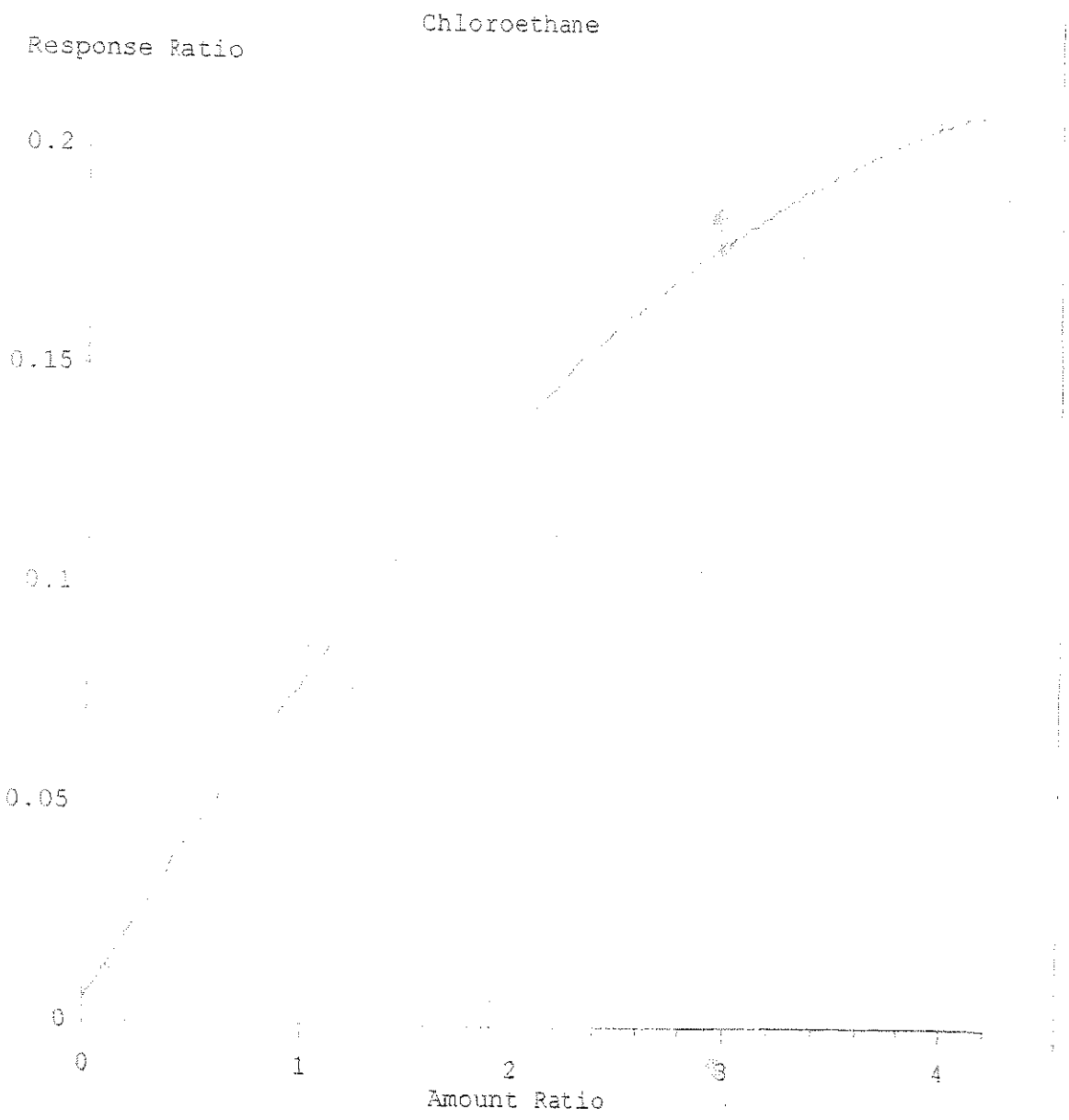
Response Factor Report VOA_MS4

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration

Calibration Files
25 =M414931.D 10 =M414932.D 5 =M414933.D
2.5 =M414934.D 50 =M414935.D 100 =M414936.D

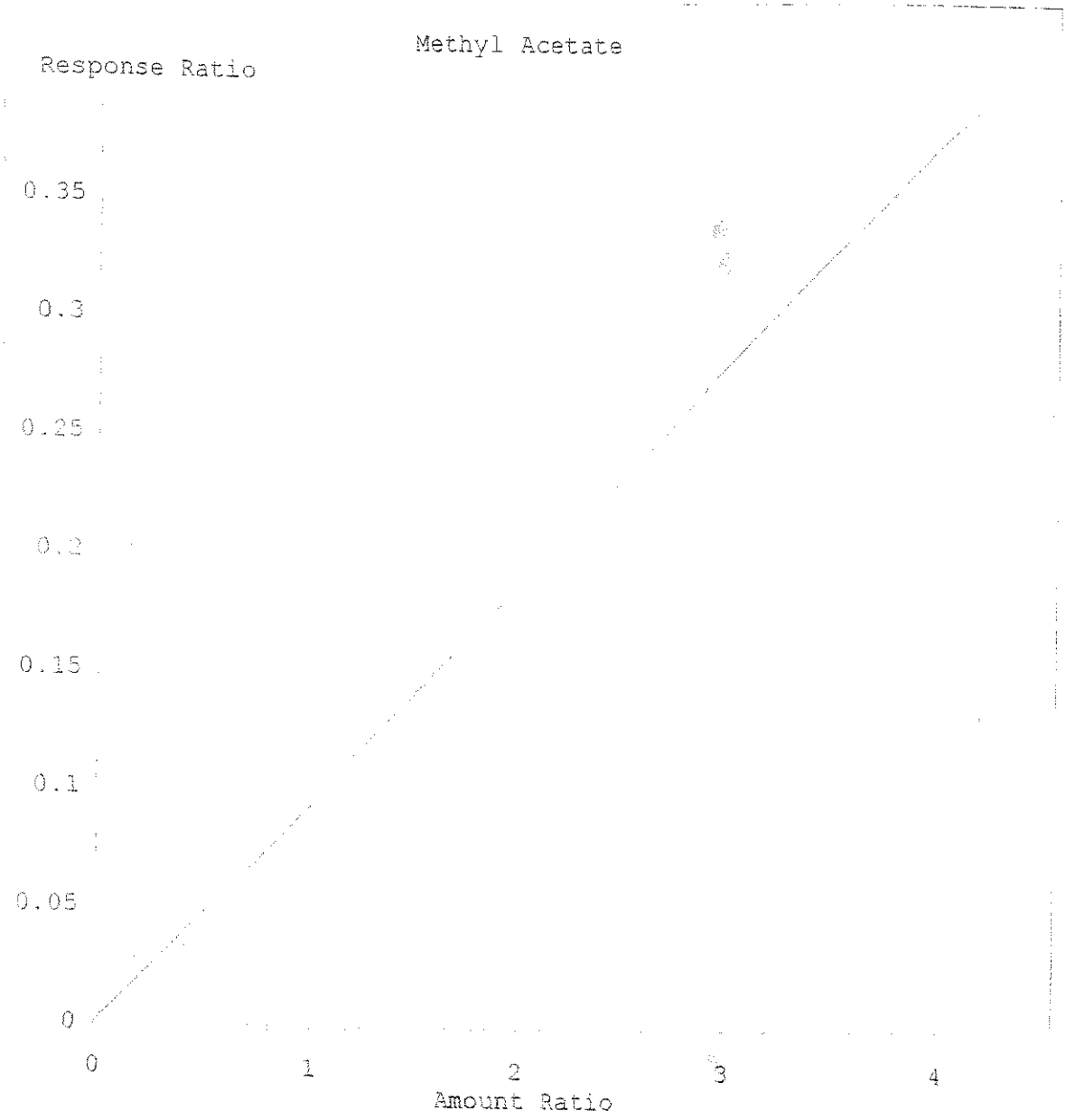
	Compound	25	10	5	2.5	50	100	Avg	%RSD
88)	tert-Butylbenzene	2.772	2.760	3.190	3.550	2.776	2.916	2.994	10.62
89)	1,2,4-Trimethylbenz	1.981	1.992	2.288	2.524	1.993	2.132	2.152	10.12
90)	sec-Butylbenzene	2.968	2.940	3.391	3.812	2.991	3.188	3.215	10.54
91)	1,3 Dichlorobenzene	1.430	1.418	1.649	1.828	1.427	1.521	1.545	10.61
92)	4-Isopropyltoluene	2.409	2.397	2.822	3.087	2.406	2.531	2.609	10.93
93)	1,4 Dichlorobenzene	1.481	1.455	1.754	1.950	1.477	1.554	1.612	12.34
94)	n-Butylbenzene	2.176	2.166	2.485	2.717	2.163	2.289	2.333	9.66
95)	1,2 Dichlorobenzene	1.283	1.308	1.499	1.679	1.292	1.362	1.404	11.18
96)	Hexachloroethane	0.930	0.906	1.035	1.132	0.943	1.008	0.993	8.45
97)	1,2-Dibromo-3-Chlor	0.157	0.158	0.198		0.178	0.179	0.174	9.83
98)	1,2,4-Trichlorobenz	1.060	1.065	1.241	1.496	1.051	1.109	1.170	14.90
99)	Hexachlorobutadiene	0.766	0.762	0.890	1.007	0.771	0.808	0.834	11.69
100)	Naphthalene	1.406	1.476	1.818	2.372	1.486	1.529	1.681	21.86
101)	1,2,3-Trichlorobenz	0.877	0.907	1.061	1.370	0.888	0.931	1.006	18.93

(#) = Out of Range
LO060606.M Tue Jun 06 12:26:55 2006 MS4



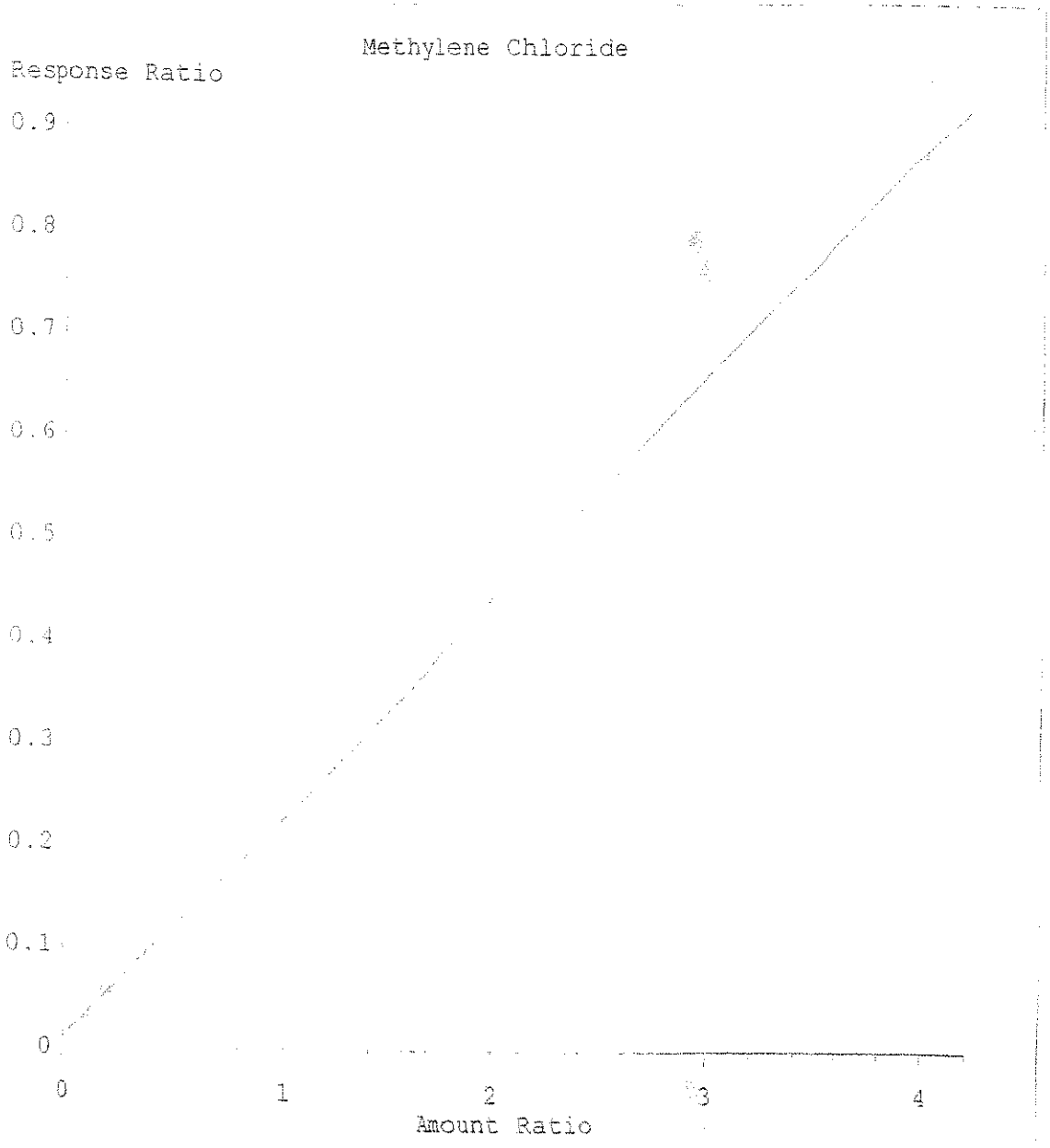
R = -7.80e-003 A*A + 8.12e-002 A + 4.82e-003
Curve Fit: Quadratic

Method Name: C:\HPCHEM\1\METHODS\L0060606.M
Calibration Table Last Updated: Tue Jun 06 12:23:38 2006



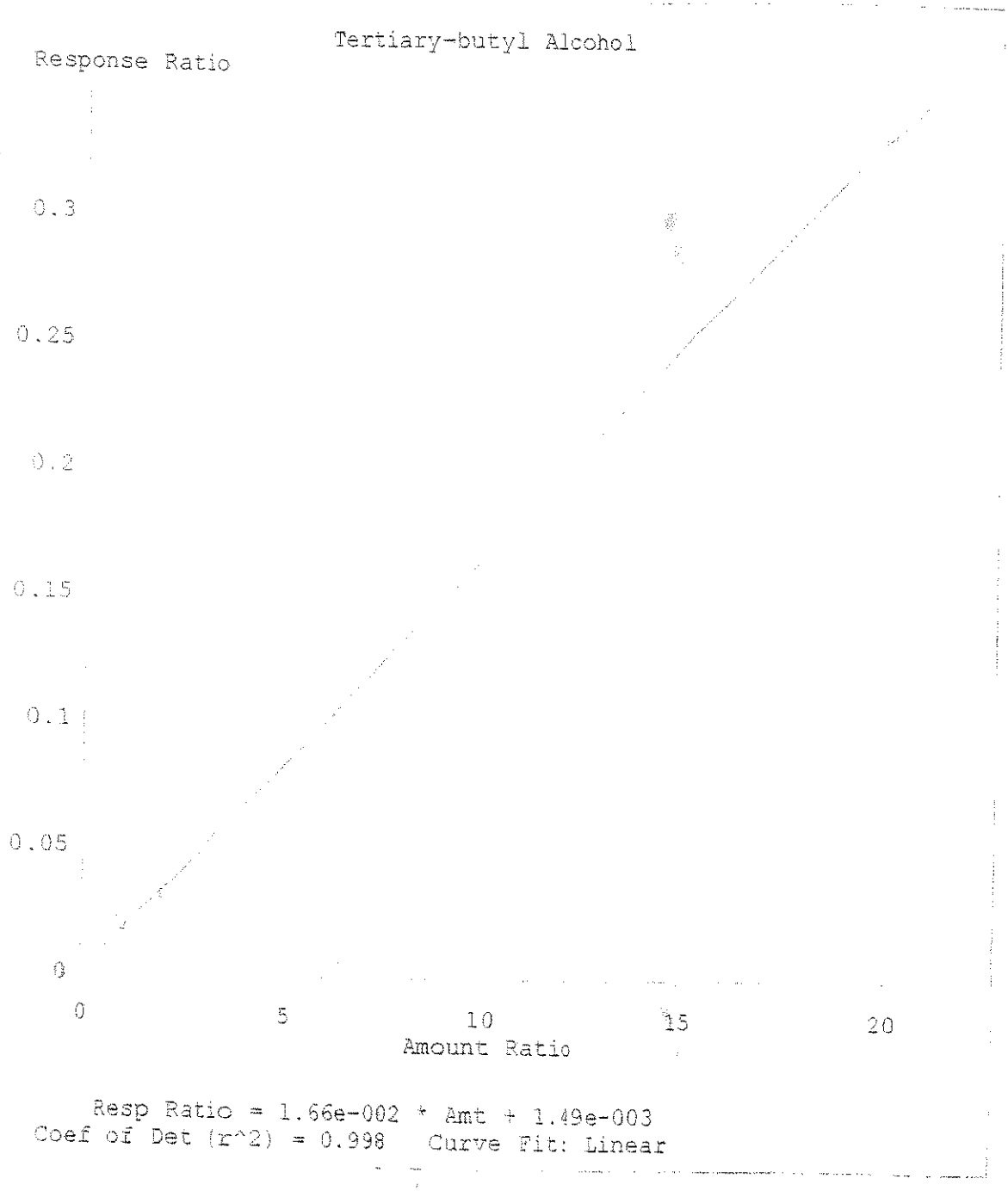
Resp Ratio = 9.30e-002 * Amt + 1.30e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:24:44 2006

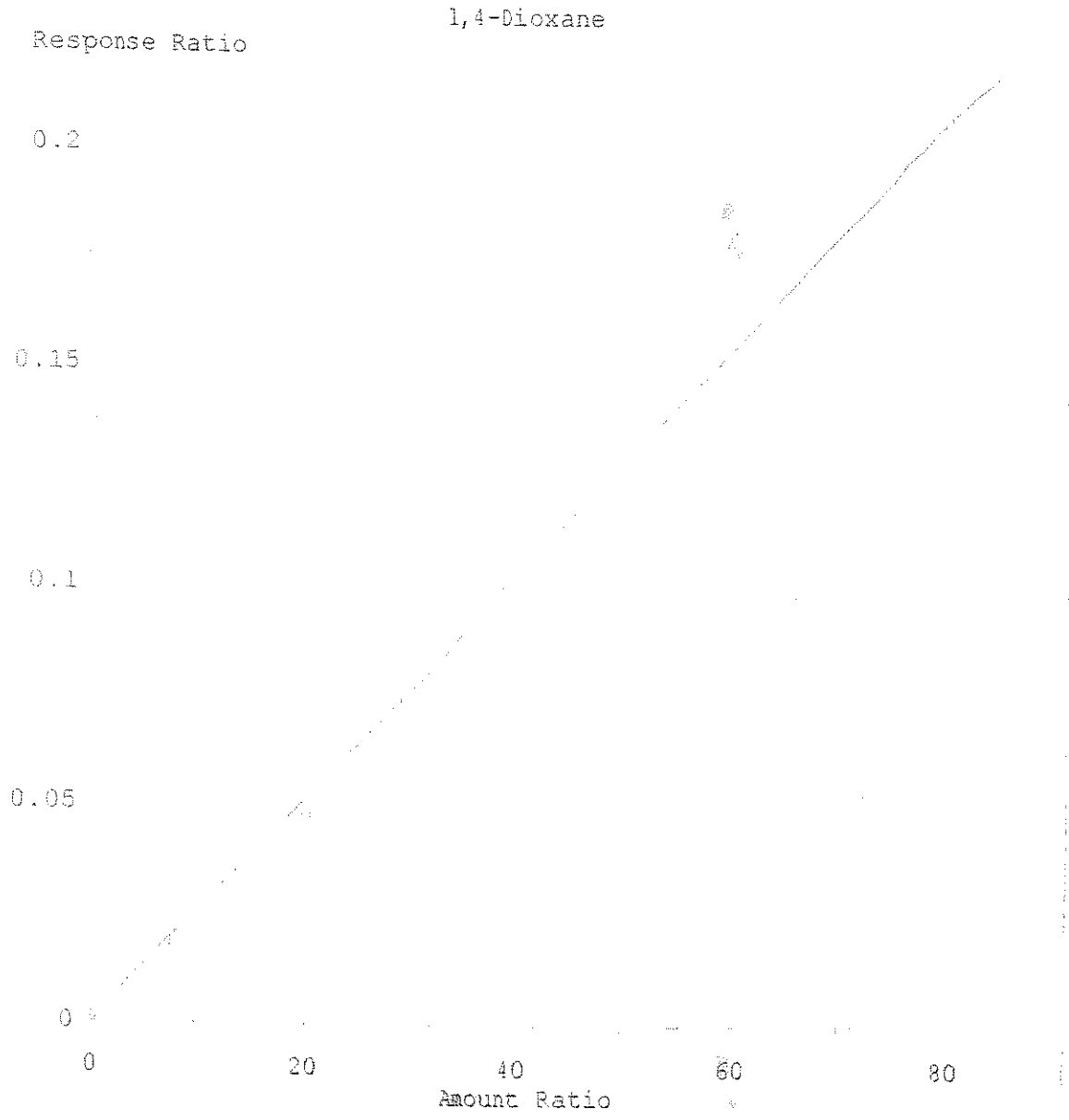


Resp Ratio = 2.16e-001 * Amt + 1.07e-002
Coef of Det (r^2) = 1.000 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:25:03 2006

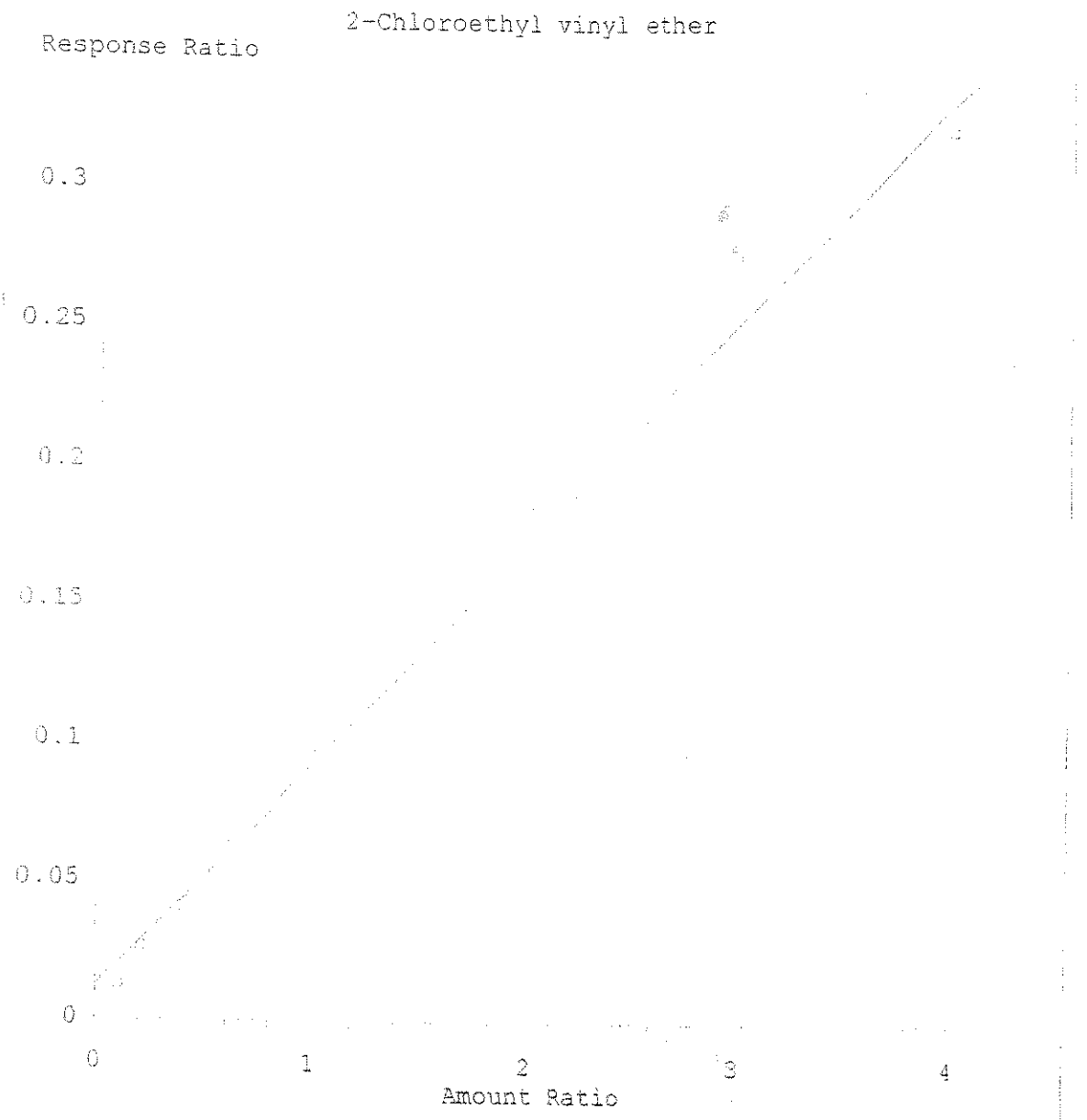


Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:25:08 2006



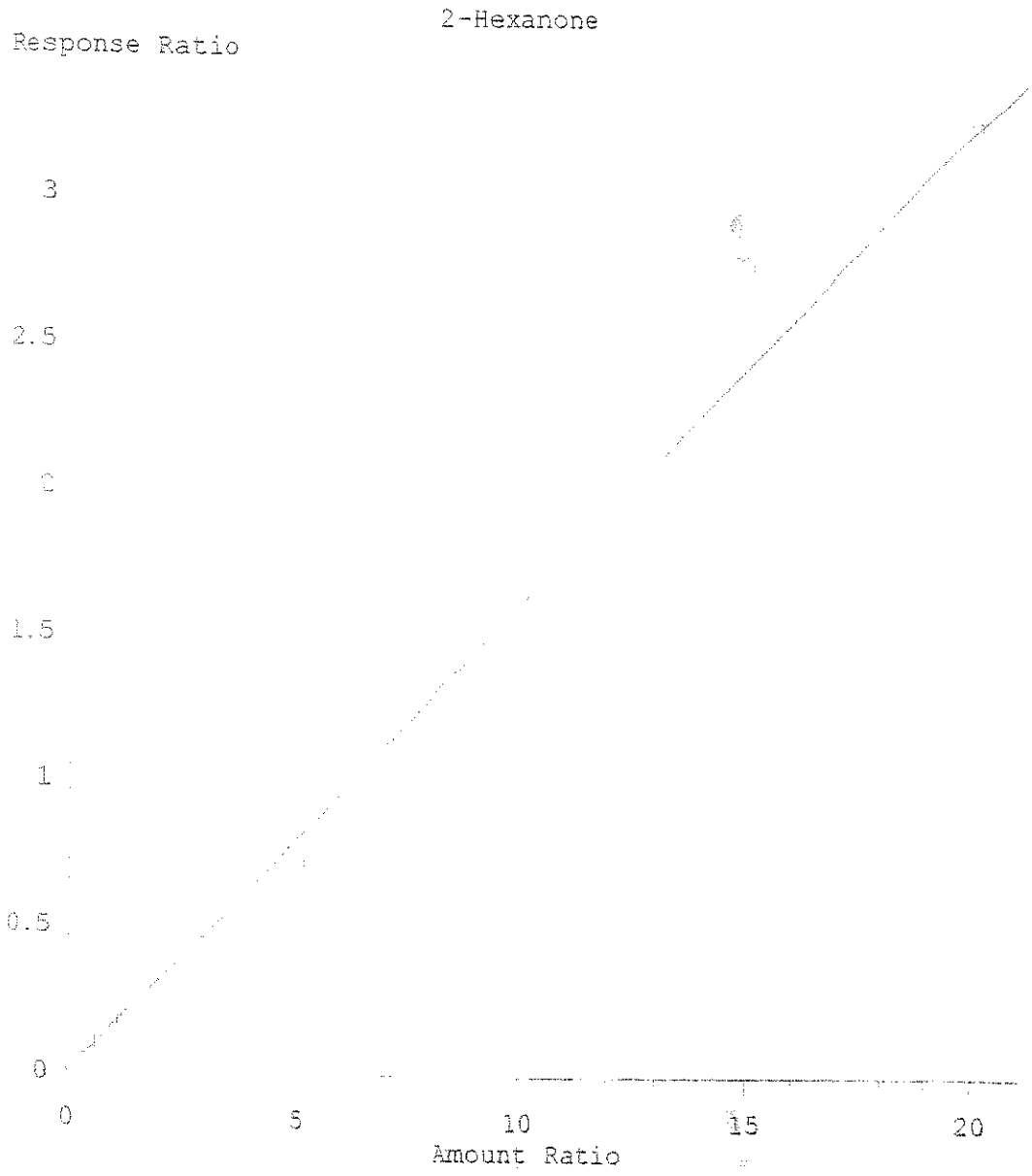
Resp Ratio = 2.58e-003 * Amt - 1.78e-004
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:25:24 2006



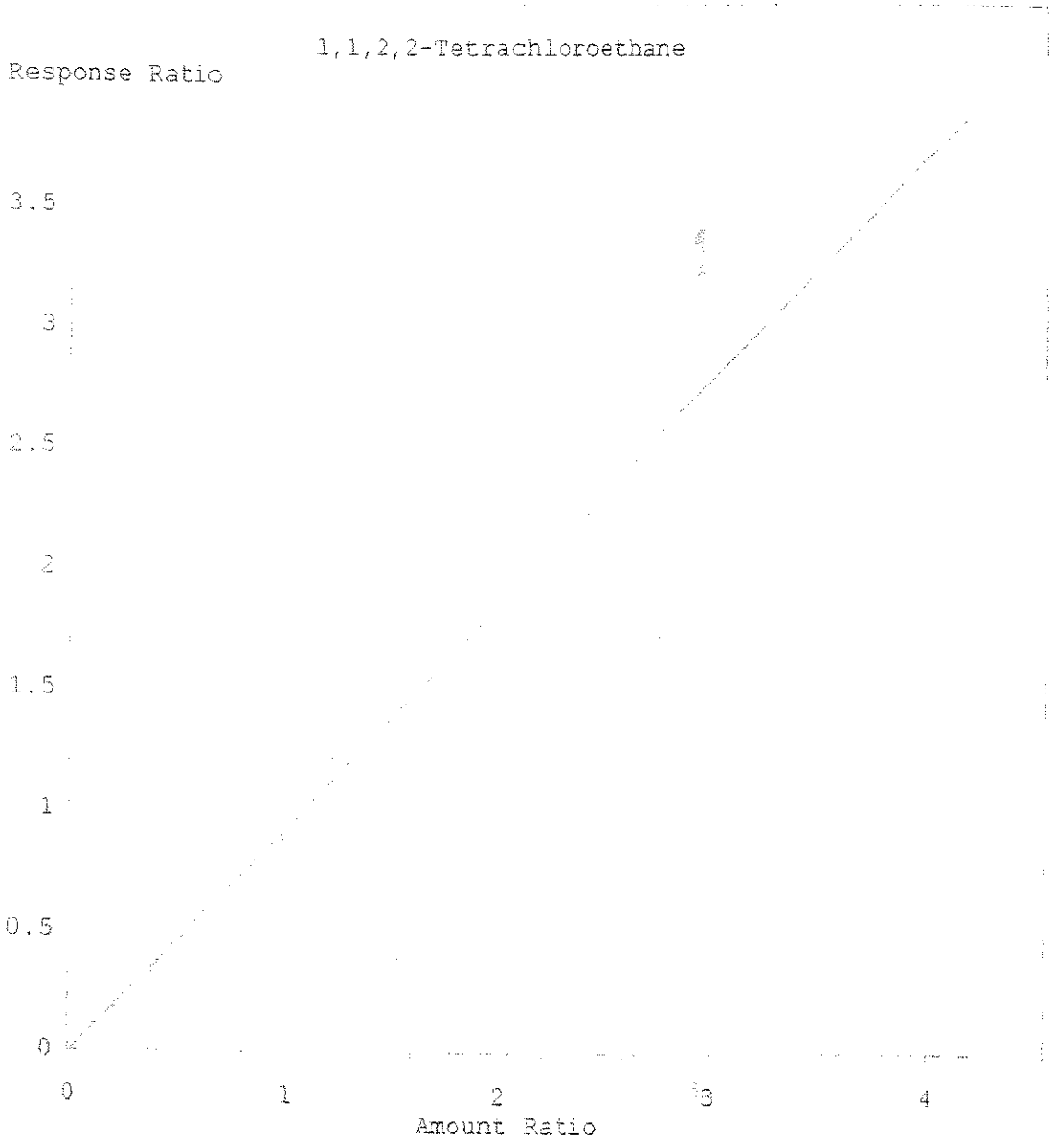
Resp Ratio = 7.94e-002 * Amt + 1.19e-002
Coef of Det (r^2) = 0.995 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:25:36 2006



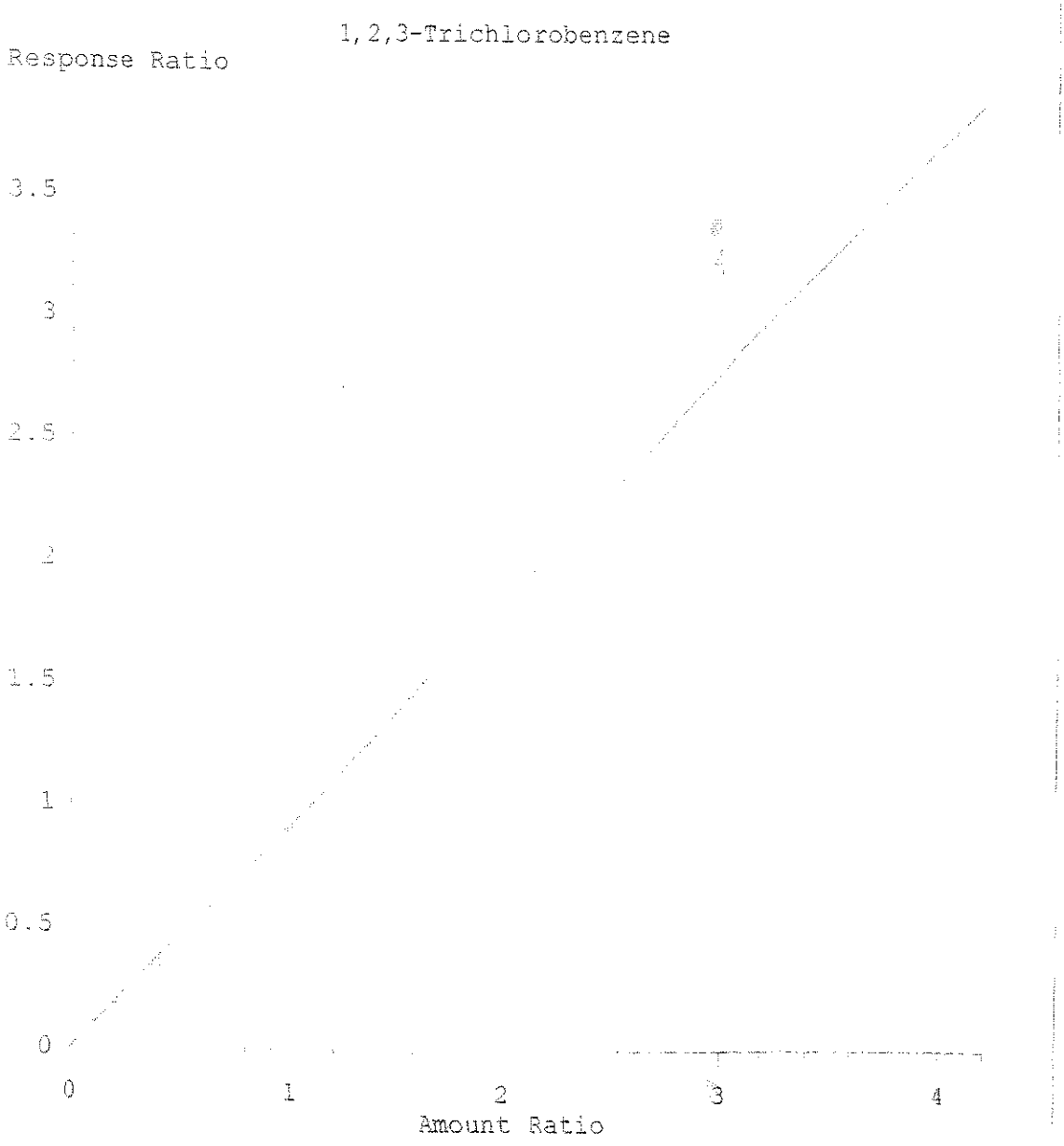
Resp Ratio = 1.62e-001 * Amt + 2.61e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:25:51 2006



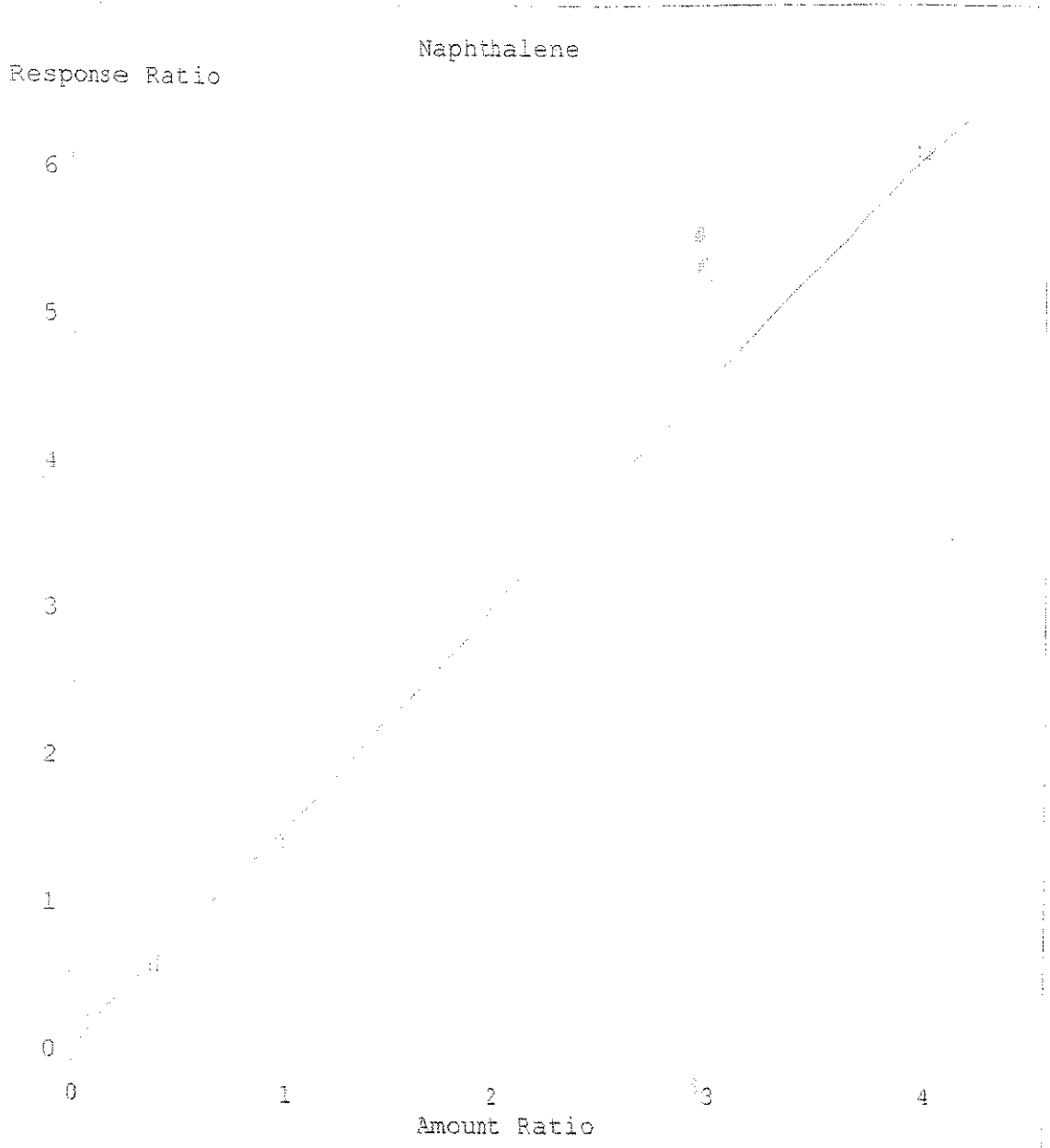
Resp Ratio = 9.29e-001 * Amt - 6.52e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\L0060606.M
Calibration Table Last Updated: Tue Jun 06 12:26:03 2006



Resp Ratio = 9.21e-001 * Amt - 8.41e-005
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:26:38 2006



Resp Ratio = 1.51e+000 * Amt + 4.82e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:26:31 2006

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4_MH\MH0606\MH060606\M414938.D Vial: 9
Acq On : 6 Jun 2006 12:54 pm Operator: MD
Sample : BPF0045-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	98	0.00
2		Dichlorodifluoromethane	0.333	0.392	-17.7	124	0.00
3		Chloromethane	0.158	0.166	-5.1	114	0.00
4		Vinyl Chloride	0.174	0.184	-5.7	111	0.00
5		Bromomethane	0.160	0.154	3.8	102	0.00
6		Chloroethane	0.084	0.058	31.0#	67	0.00
7		Trichlorofluoromethane	0.584	0.570	2.4	103	0.00
8		Diethyl ether	0.105	0.108	-2.9	109	0.00
9		Acrolein	0.021	0.013	38.1#	70	0.01
10		1,1,2-Trichloro-1,2,2-trifl	0.575	0.558	3.0	101	0.00
11		Acetone	0.009	0.008	11.1	98	0.00
12		Iodomethane	0.572	0.627	-9.6	114	0.00
13		Carbon Disulfide	0.622	0.643	-3.4	110	0.00
14		1,1-Dichloroethene	0.247	0.264	-6.9	112	0.00
15		Allyl Chloride	0.248	0.238	4.0	100	0.00
16		Methyl Acetate	0.099	0.098	1.0	109	0.00
17		Methylene Chloride	0.259	0.240	7.3	107	0.00
18		Tertiary-butyl Alcohol	0.019	0.000	100.0#	0#	-2.98#
19		Methyl tert-Butyl Ether	0.425	0.411	3.3	102	0.00
20		Acrylonitrile	0.036	0.034	5.6	102	0.00
21		trans-1,2-Dichloroethene	0.285	0.285	0.0	105	0.00
22		1,1-Dichloroethane	0.456	0.450	1.3	104	0.00
23		Chloroprene	0.277	0.000	100.0#	0#	-3.68#
24		Vinyl Acetate	0.692	0.671	3.0	103	0.00
25		Di-isopropyl ether	0.680	0.690	-1.5	107	0.00
26		Ethyl tertiary-butyl ether	0.624	0.611	2.1	103	0.00
27		2-Butanone	0.018	0.017	5.6	103	0.00
28		cis-1,2 Dichloroethene	0.322	0.342	-6.2	111	0.00
29		2,2-Dichloropropane	0.390	0.379	2.8	101	0.00
30		Methyl Acrylate	0.185	0.179	3.2	105	0.00
31		Methacrylonitrile	0.108	0.098	9.3	104	0.00
32		Bromochloromethane	0.241	0.243	-0.8	105	0.00
33		Tetrahydrofuran	0.048	0.048	0.0	105	0.00
34		Chloroform	0.574	0.572	0.3	105	0.00
35		1,1,1-Trichloroethane	0.560	0.555	0.9	105	0.00
36	S	Dibromofluoromethane(SURR)	0.758	0.729	3.8	103	0.00
37		Cyclohexane	0.313	0.321	-2.6	106	0.00
38		1-Chlorobutane	0.412	0.429	-4.1	113	0.00
39		1,1-Dichloropropene	0.392	0.387	1.3	105	0.00
40		Carbon Tetrachloride	0.614	0.601	2.1	104	0.00
41		Benzene	0.707	0.711	-0.6	106	0.00
42	S	1,2-Dichloroethane-d4(SURR)	0.246	0.234	4.9	102	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4_MH\MH0606\MH060606\M414938.D Vial: 9
Acq On : 6 Jun 2006 12:54 pm Operator: MD
Sample : BPF0045-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43		1,2-Dichloroethane	0.257	0.246	4.3	100	0.00
44		Tertiary-amyl methyl ether	0.571	0.576	-0.9	106	0.00
45		Trichloroethene	0.414	0.408	1.4	104	0.00
46		Methyl Cyclohexane	0.400	0.415	-3.7	109	0.00
47		1,2-Dichloropropane	0.285	0.277	2.8	102	0.00
48		Dibromomethane	0.337	0.342	-1.5	106	0.00
49		1,4-Dioxane	0.003	0.003	0.0	109	0.00
50		Methyl Methacrylate	0.181	0.170	6.1	100	0.00
51		Bromodichloromethane	0.587	0.613	-4.4	108	0.00
52		2-Nitropropane	0.048	0.047	2.1	108	0.00
53		2-Chloroethyl vinyl ether	0.105	0.112	-6.7	114	0.00
54		4-Methyl-2-Pentanone	0.086	0.080	7.0	103	0.00
55		cis-1,3-Dichloropropene	0.436	0.417	4.4	99	0.00
56		Toluene	0.545	0.542	0.6	104	0.00
57		trans-1,3-Dichloropropene	0.363	0.320	11.8	92	0.00
58		1,1,2-Trichloroethane	0.246	0.240	2.4	103	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
60	S	Toluene-d8 (SURR)	1.083	1.056	2.5	102	0.00
61		2-Hexanone	0.174	0.158	9.2	105	0.01
62		Ethyl Methacrylate	0.380	0.361	5.0	101	0.00
63		1,3-Dichloropropane	0.462	0.456	1.3	103	0.00
64		Tetrachloroethene	0.490	0.481	1.8	102	0.00
65		Dibromochloromethane	0.797	0.806	-1.1	105	0.00
66		1,2-Dibromoethane	0.607	0.588	3.1	102	0.00
67		1-Chlorohexane	0.516	0.512	0.8	104	0.00
68		Chlorobenzene	0.931	0.912	2.0	102	0.00
69		1,1,1,2-Tetrachloroethane	0.543	0.522	3.9	102	0.00
70		Ethylbenzene	1.292	1.305	-1.0	104	0.00
71		Xylene P,M	0.534	0.534	0.0	104	0.00
72		Xylene O	0.508	0.503	1.0	104	0.00
73		Styrene	0.868	0.879	-1.3	104	0.00
74		Bromoform	0.583	0.578	0.9	104	0.00
75		cis-1,4-Dichloro-2-butene	0.115	0.000	100.0#	0#	-13.74#
76	S	Bromofluorobenzene (SURR)	0.733	0.713	2.7	101	0.00
77	I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	95	0.00
78		Isopropylbenzene	2.587	2.385	7.8	95	0.00
79		Trans-1,4-Dichloro-2-Butene	0.155	0.144	7.1	94	0.00
80		1,2,3-Trichloropropane	0.748	0.742	0.8	108	0.00
81		Bromobenzene	0.910	0.943	-3.6	106	0.00
82		1,1,2,2-Tetrachloroethane	0.982	0.923	6.0	101	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4_MH\MH0606\MH060606\M414938.D Vial: 9
Acq On : 6 Jun 2006 12:54 pm Operator: MD
Sample : BPF0045-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	n-Propylbenzene	3.314	3.324	-0.3	100	0.00
84	2-Chlorotoluene	1.625	1.620	0.3	108	0.00
85	4-Chlorotoluene	2.186	2.143	2.0	101	0.00
86	1,3,5-Trimethylbenzene	2.128	2.146	-0.8	104	0.00
87	Pentachloroethane	2.994	2.994	0.0	103	0.00
88	tert-Butylbenzene	2.994	2.994	0.0	103	0.00
89	1,2,4-Trimethylbenzene	2.152	2.186	-1.6	105	0.00
90	sec-Butylbenzene	3.215	3.196	0.6	102	0.00
91	1,3 Dichlorobenzene	1.545	1.494	3.3	99	0.00
92	4-Isopropyltoluene	2.609	2.568	1.6	101	0.00
93	1,4 Dichlorobenzene	1.612	1.532	5.0	98	0.00
94	n-Butylbenzene	2.333	2.336	-0.1	102	0.00
95	1,2 Dichlorobenzene	1.404	1.369	2.5	101	0.00
96	Hexachloroethane	0.993	1.002	-0.9	102	0.00
97	1,2-Dibromo-3-Chloropropane	0.174	0.173	0.6	105	0.00
98	1,2,4-Trichlorobenzene	1.170	1.126	3.8	101	0.00
99	Hexachlorobutadiene	0.834	0.815	2.3	101	0.00
100	Naphthalene	1.681	1.562	7.1	105	0.00
101	1,2,3-Trichlorobenzene	1.006	0.965	4.1	104	0.00

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH060606\M414938.D Vial: 9
Acq On : 6 Jun 2006 12:54 pm Operator: MD
Sample : BPF0045-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 6 14:25 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.25	96	4218516	25.00 ug/l	0.00
59) Chlorobenzene-d5	11.58	117	3603135	25.00 ug/l	0.00
77) 1,4 Dichlorobenzene-D4	15.98	152	2042242	25.00 ug/l	0.00
System Monitoring Compounds					
36) Dibromofluoromethane(SURR)	5.18	111	3073481	24.02 ug/l	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 96.08%		
42) 1,2-Dichloroethane-d4(SURR	5.68	65	986507	23.78 ug/l	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 95.12%		
60) Toluene-d8 (SURR)	9.00	98	3806538	24.38 ug/l	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 97.52%		
76) Bromofluorobenzene (SURR)	13.79	95	2570827	24.32 ug/l	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 97.28%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.20	85	1655382	29.44 ug/l	100
3) Chloromethane	1.35	50	701621	26.25 ug/l	99
4) Vinyl Chloride	1.41	62	775868	26.50 ug/l	99
5) Bromomethane	1.64	94	649151m	24.11 ug/l	
6) Chloroethane	1.69	64	244853	17.58 ug/l	95
7) Trichlorofluoromethane	1.89	101	2403302	24.40 ug/l	100
8) Diethyl ether	2.14	59	456836	25.73 ug/l	99
9) Acrolein	2.25	56	56221	16.14 ug/l	98
10) 1,1,2-Trichloro-1,2,2-trif	2.32	101	2353334	24.25 ug/l	93
11) Acetone	2.39	58	177456	110.78 ug/l	97
12) Iodomethane	2.44	142	2645355	27.39 ug/l	100
13) Carbon Disulfide	2.48	76	2714216	25.84 ug/l	100
14) 1,1-Dichloroethene	2.30	96	1112272	26.69 ug/l	98
15) Allyl Chloride	2.65	41	1004598	24.05 ug/l	95
16) Methyl Acetate	2.69	43	412967	25.97 ug/l	99
17) Methylene Chloride	2.77	84	1012934	26.59 ug/l	99
19) Methyl tert-Butyl Ether	3.09	73	1731847	24.17 ug/l	99
20) Acrylonitrile	3.05	53	142778	23.21 ug/l	97
21) trans-1,2-Dichloroethene	3.05	96	1200308	24.94 ug/l	98
22) 1,1-Dichloroethane	3.56	63	1897387	24.64 ug/l	100
24) Vinyl Acetate	3.69	43	2831053	24.24 ug/l	98
25) Di-isopropyl ether	3.72	45	2908719	25.35 ug/l	92
26) Ethyl tertiary-butyl ether	4.25	59	2577994	24.47 ug/l	100
27) 2-Butanone	4.49	72	364285	119.57 ug/l	99
28) cis-1,2 Dichloroethene	4.40	96	1441731	26.54 ug/l	98
29) 2,2-Dichloropropane	4.39	77	1597262	24.26 ug/l	99
30) Methyl Acrylate	4.64	55	754052	24.14 ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH060606\M414938.D Vial: 9
Acq On : 6 Jun 2006 12:54 pm Operator: MD
Sample : BPF0045-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 6 14:25 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31)	Methacrylonitrile	4.81	41	411849	22.68 ug/l	99
32)	Bromochloromethane	4.76	128	1024147	25.13 ug/l	97
33)	Tetrahydrofuran	4.85	42	202176	24.77 ug/l	99
34)	Chloroform	4.92	83	2414533	24.95 ug/l	99
35)	1,1,1-Trichloroethane	5.16	97	2343111	24.78 ug/l	100
37)	Cyclohexane	5.22	56	1354685	25.66 ug/l	99
38)	1-Chlorobutane	5.36	56	1810072	26.03 ug/l	99
39)	1,1-Dichloropropene	5.43	75	1632466	24.68 ug/l	99
40)	Carbon Tetrachloride	5.42	117	2533910	24.45 ug/l	100
41)	Benzene	5.76	78	3000675	25.17 ug/l	100
43)	1,2-Dichloroethane	5.80	62	1039494	23.95 ug/l	98
44)	Tertiary-amyl methyl ether	6.04	73	2427781	25.19 ug/l	99
45)	Trichloroethene	6.86	95	1722516	24.67 ug/l	98
46)	Methyl Cyclohexane	7.16	83	1751764	25.96 ug/l	100
47)	1,2-Dichloropropane	7.23	63	1168294	24.29 ug/l	100
48)	Dibromomethane	7.42	93	1440658	25.33 ug/l	97
49)	1,4-Dioxane	7.53	88	217620	501.81 ug/l	98
50)	Methyl Methacrylate	7.57	41	718464	23.50 ug/l	99
51)	Bromodichloromethane	7.75	83	2584400	26.11 ug/l	100
52)	2-Nitropropane	8.18	43	196686	24.48 ug/l	99
53)	2-Chloroethyl vinyl ether	8.36	63	470652	31.38 ug/l	97
54)	4-Methyl-2-Pentanone	8.90	58	1686451	115.98 ug/l	87
55)	cis-1,3-Dichloropropene	8.54	75	1758785	23.93 ug/l	98
56)	Toluene	9.11	92	2288436	24.89 ug/l	99
57)	trans-1,3-Dichloropropene	9.57	75	1351432	22.07 ug/l	99
58)	1,1,2-Trichloroethane	9.88	83	1013661	24.38 ug/l	98
61)	2-Hexanone	10.42	43	2847516	121.86 ug/l	99
62)	Ethyl Methacrylate	9.84	69	1299357	23.70 ug/l	96
63)	1,3-Dichloropropane	10.15	76	1642370	24.65 ug/l	100
64)	Tetrachloroethene	10.06	164	1734694	24.54 ug/l	99
65)	Dibromochloromethane	10.53	129	2902755	25.28 ug/l	99
66)	1,2-Dibromoethane	10.68	107	2119948	24.22 ug/l	99
67)	1-Chlorohexane	11.70	91	1846121	24.85 ug/l	99
68)	Chlorobenzene	11.62	112	3285783	24.50 ug/l	99
69)	1,1,1,2-Tetrachloroethane	11.80	131	1879185	24.00 ug/l	99
70)	Ethylbenzene	11.87	91	4701035	25.25 ug/l	100
71)	Xylene P,M	12.11	106	3845429	49.97 ug/l	99
72)	Xylene O	12.83	106	1812208	24.76 ug/l	98
73)	Styrene	12.86	104	3168890	25.32 ug/l	99
74)	Bromoform	13.14	173	2081088	24.77 ug/l	100
78)	Isopropylbenzene	13.54	105	4870548	23.05 ug/l	100
79)	Trans-1,4-Dichloro-2-Buten	14.27	53	293549	23.14 ug/l	94

(#) = qualifier out of range (m) = manual integration

Data File : Q:/VOA/MS4_MH/MH0606/MH060606\M414938.D Vial: 9
Acq On : 6 Jun 2006 12:54 pm Operator: MD
Sample : BPF0045-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 6 14:25 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
80)	1,2,3-Trichloropropane	14.18	75	1515359	24.78 ug/l	100
81)	Bromobenzene	14.02	156	1924903	25.90 ug/l	99
82)	1,1,2,2-Tetrachloroethane	14.15	83	1884158	25.02 ug/l	99
83)	n-Propylbenzene	14.33	91	6787427	25.07 ug/l	99
84)	2-Chlorotoluene	14.42	91	3307599	24.92 ug/l	94
85)	4-Chlorotoluene	14.64	91	4377399	24.51 ug/l	99
86)	1,3,5-Trimethylbenzene	14.70	105	4381765	25.21 ug/l	100
87)	Pentachloroethane	15.28	119	6113794	25.00 ug/l	99
88)	tert-Butylbenzene	15.28	119	6113794	25.00 ug/l	99
89)	1,2,4-Trimethylbenzene	15.39	105	4463353	25.39 ug/l	99
90)	sec-Butylbenzene	15.71	105	6527574	24.86 ug/l	99
91)	1,3 Dichlorobenzene	15.85	146	3051217	24.17 ug/l	100
92)	4-Isopropyltoluene	16.03	119	5244295	24.61 ug/l	99
93)	1,4 Dichlorobenzene	16.03	146	3128473	23.76 ug/l	99
94)	n-Butylbenzene	16.82	91	4770184	25.03 ug/l	99
95)	1,2 Dichlorobenzene	16.71	146	2795854	24.38 ug/l	100
96)	Hexachloroethane	17.19	117	2047296	25.25 ug/l	98
97)	1,2-Dibromo-3-Chloropropan	18.26	75	353464	24.83 ug/l	96
98)	1,2,4-Trichlorobenzene	20.16	180	2300044	24.06 ug/l	100
99)	Hexachlorobutadiene	20.57	225	1664291	24.43 ug/l	99
100)	Naphthalene	20.61	128	3189021	25.71 ug/l	100
101)	1,2,3-Trichlorobenzene	21.01	180	1970550	26.20 ug/l	98

(#) = qualifier out of range (m) = manual integration

ANALYSIS SEQUENCE

BPF0210

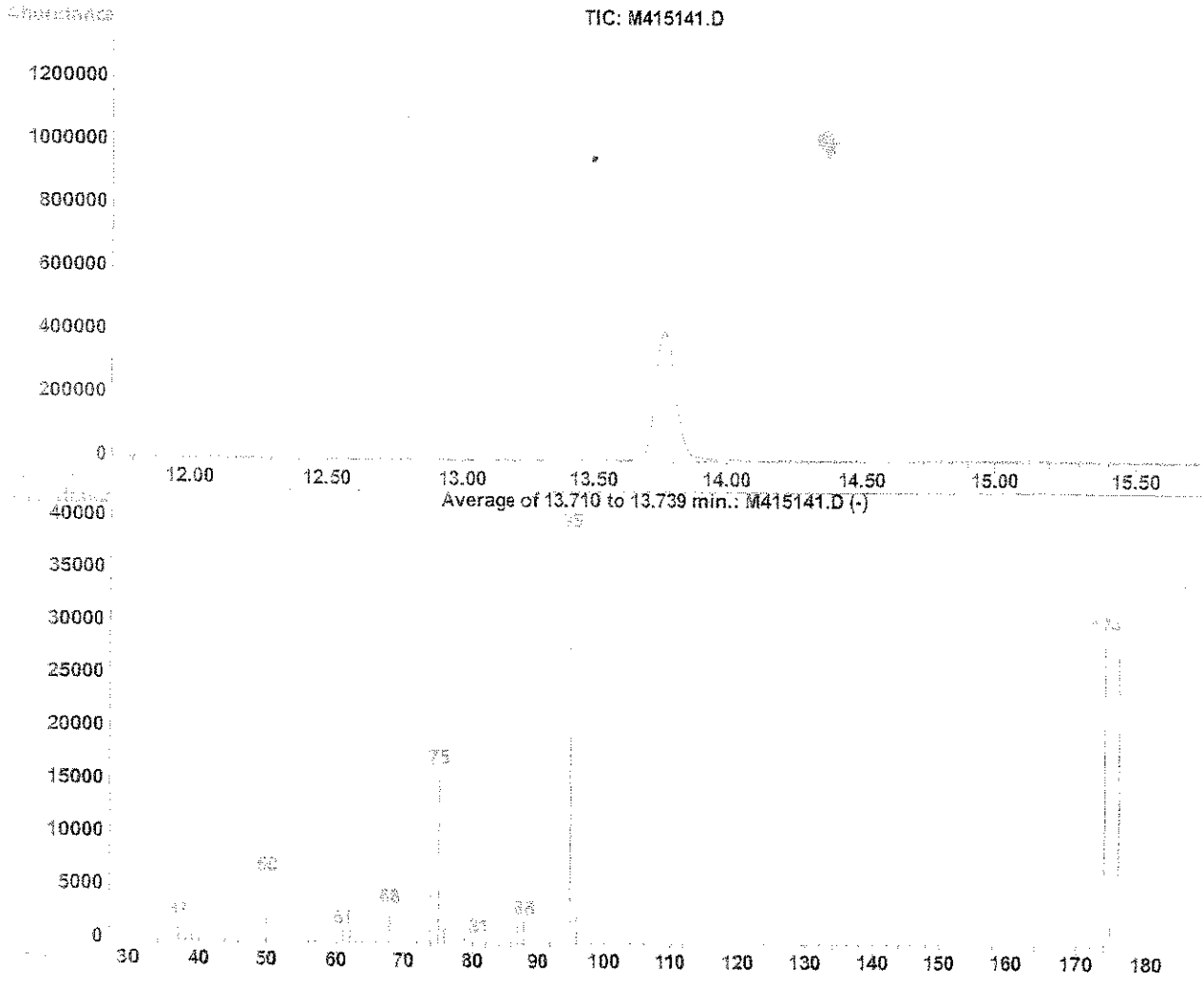
Instrument: VMS4

Calibnration ID: 0606010

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0210-TUN1	QC		1		6F26058		
BPF0210-CCV1	QC		2		6F26059	6F22041	
BF62614-BLK1	QC		3			6F22041	
BF62614-BS1	QC		4			6F22041	
BF62614-BSD1	QC		5			6F22041	
0606374-11	QC: x5035/8260 ppb Low Lev	E	6			6F22041	MACTEC Engineering & Consulting, In
0606374-12	QC: x5035/8260 ppb Low Lev	F	7			6F22041	MACTEC Engineering & Consulting, In
0606374-10	QC: x5035/8260 ppb Low Lev	D	8			6F22041	MACTEC Engineering & Consulting, In
0606374-09	QC: x5035/8260 ppb Low Lev	F	9			6F22041	MACTEC Engineering & Consulting, In
0606374-08	QC: x5035/8260 ppb Low Lev	F	10			6F22041	MACTEC Engineering & Consulting, In
0606374-06	QC: x5035/8260 ppb Low Lev	F	11			6F22041	MACTEC Engineering & Consulting, In
0606374-04	QC: x5035/8260 ppb Low Lev	F	12			6F22041	MACTEC Engineering & Consulting, In
0606374-02	QC: x5035/8260 ppb Low Lev	B	13			6F22041	MACTEC Engineering & Consulting, In
0606374-01	QC: x5035/8260 ppb Low Lev	F	14			6F22041	MACTEC Engineering & Consulting, In
0606373-21	QC: x5035/8260 ppb Low Lev	D	15			6F22041	MACTEC Engineering & Consulting, In
0606373-20	QC: x5035/8260 ppb Low Lev	E	16			6F22041	MACTEC Engineering & Consulting, In
0606373-19	QC: x5035/8260 ppb Low Lev	D	17			6F22041	MACTEC Engineering & Consulting, In
0606373-18	QC: x5035/8260 ppb Low Lev	D	18			6F22041	MACTEC Engineering & Consulting, In
0606383-11	QC: x5035/8260 ppb Low Lev	C	19			6F22041	MACTEC Engineering & Consulting, In
0606374-05	QC: x5035/8260 ppb Low Lev	D	20			6F22041	MACTEC Engineering & Consulting, In
BF62614-MSD1	QC		21			6F22041	
BF62614-MS1	QC		22			6F22041	

Samples Loaded By Date Data Processed By Date

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415141.D Vial: 1
Acq On : 26 Jun 2006 8:13 am Operator: MD
Sample : BPF0210-TUN1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010



Spectrum Information: Average of 13.710 to 13.739 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.2	5908	PASS
75	95	30	60	42.1	16311	PASS
95	95	100	100	100.0	38774	PASS
96	95	5	9	7.7	3003	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	75.1	29106	PASS
175	174	5	9	6.9	2014	PASS
176	174	95	101	97.0	28240	PASS
177	176	5	9	6.4	1801	PASS

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/23/06	11	M4 160126	060373-03	Leo060606	7.2/10 D4238	MP
	12	M4 27	-04		4.8/10 D4239	
	13	M4 28	-05		4.1/10 D4242	
	14	M4 29	-06		3/10 D4244	
	15	M4 30	-07		2.9/10 D4231	
	16	M4 31	TestBlk ~~060623~~ 060626		-08: Both vials broke in freezer	
	17	M4 32	060373 -09		7/10 D4226	
	18	M4 33	-10		5.1/10 D4229	
	19	M4 34	-11		5/10 -TB D4228	
	20	M4 35	-12		3.7/10 D3188	
	21	M4 36	-13		5.2/10 D4217	
	22	M4 37	-14		7.6/10 D4210	
	23	M4 38	-15		6.8/10 D4233	
	24	M4 39	-16		7.3/10 D4220	
6/23/06	25	M4 40	-17	Leo060606	7.4/10 D4197	MP
6/26/06	1	M4 41	BPF0210-TVM		6F26058	
6/26/06	2	M4 42	BPF0210-CVM	Leo060606	6F26059	MP

3988

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: 6F22039

On-column IS: 6F22041

Page _____

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/26/06	3	M4 15143	BF62614- BS1	L006066	6F26060	∞
	4	M4 44	BF62614- BSD1		6F26060	
	5	M4 45	Test BLK			
	6	M4 46	BF62614- BLK1			
	7	M4 47	0606 373 -18		3.9/10 04219	
	8	M4 48	-19		7.3/10 04218	
	9	M4 49	-20		9.2/10 04184	
	10	M4 50	-21		8.3/10 04195	
	11	M4 51	0606 374 -01		7/10 04182	
	12	M4 52	-02		6.2/10 04217	
	13	M4 53	-03		8/10 04193	
	14	M4 54	-04		6.9/10 04204	
	15	M4 55	-05		6.7/10 04180	
	16	M4 56	-06		7.5/10 04215	
	17	M4 57	-07		4.5/10 04191	
	18	M4 58	-08		6.9/10 04202	
6/26/06	19	M4 59	-09	L006066	3.8/10 04178	MF

359

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: 6F22039

On-column IS: 6F22041

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/26/06	20	M4,5160	060374-10	L006060	4.7/10 D4190	
	21	M4 61	-11		7/10 D4212	
	22	M4 62	-12		3.6/10 D4177	
	23	M4 63	060383-11		6.7/10 D4335	
	24	M4 64	BF62614-MS1		4.1/10 D4336 060383-11	
	25	M4 65	BF62614-MSD1		3.9/10 D4324 060383-11	
	26	M4 66	BF60211-TUN		BF26061 6/26/06	
	27	M4 67	BF60211-CAL1		CF26062	
360	28	M4 68	BF62615-BS1		BF26063	
	29	M4 69	BF62615-BSD1		BF26063	
	30	M4 70	Test BLK			
	31	M4 71	BF62615-BLK1			
	32	M4 72	060383-17		5/10 D3935	
	33	M4 73	060377-13		8.1/10 D4199	
	34	M4 74	-14		6.2/10 D4174	
	35	M4 75	-15		5.3/10 D4188	
6/26/06	36	M4 76	-16	L006060	7.4/10 D4175	

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: BF72639

On-column IS: CF72641

Page

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415142.D Vial: 2
Acq On : 26 Jun 2006 8:43 am Operator: MD
Sample : BPF0210-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	86	-0.03
2		Dichlorodifluoromethane	0.333	0.319	4.2	89	0.00
3		Chloromethane	0.158	0.141	10.8	86	-0.02
4		Vinyl Chloride	0.174	0.160	8.0	85	0.00
5		Bromomethane	0.160	0.147	8.1	86	0.00
6		Chloroethane	0.084	0.085	-1.2	86	0.00
7		Trichlorofluoromethane	0.584	0.566	3.1	91	-0.02
8		Diethyl ether	0.105	0.095	9.5	84	0.00
9		Acrolein	0.021	0.017	19.0	79	0.00
10		1,1,2-Trichloro-1,2,2-trifl	0.575	0.552	4.0	89	0.00
11		Acetone	0.009	0.008	11.1	82	-0.02
12		Iodomethane	0.572	0.621	-8.6	100	-0.02
13		Carbon Disulfide	0.622	0.568	8.7	85	-0.02
14		1,1-Dichloroethene	0.247	0.236	4.5	89	-0.02
15		Allyl Chloride	0.248	0.223	10.1	82	-0.02
16		Methyl Acetate	0.099	0.087	12.1	86	-0.02
17		Methylene Chloride	0.259	0.207	20.1	82	-0.02
18		Tertiary-butyl Alcohol	0.019	0.016	15.8	92	-0.02
19		Methyl tert-Butyl Ether	0.425	0.416	2.1	91	-0.03
20		Acrylonitrile	0.036	0.034	5.6	89	-0.02
21		trans-1,2-Dichloroethene	0.285	0.283	0.7	93	-0.02
22		1,1-Dichloroethane	0.456	0.424	7.0	86	-0.03
23		Chloroprene	0.277	0.260	6.1	87	-0.02
24		Vinyl Acetate	0.692	0.599	13.4	81	-0.02
25		Di-isopropyl ether	0.680	0.591	13.1	81	-0.02
26		Ethyl tertiary-butyl ether	0.624	0.567	9.1	84	-0.02
27		2-Butanone	0.018	0.016	11.1	85	-0.03
28		cis-1,2 Dichloroethene	0.322	0.306	5.0	88	-0.02
29		2,2-Dichloropropane	0.390	0.380	2.6	90	-0.02
30		Methyl Acrylate	0.185	0.166	10.3	86	-0.02
31		Methacrylonitrile	0.108	0.090	16.7	85	-0.03
32		Bromochloromethane	0.241	0.236	2.1	90	-0.03
33		Tetrahydrofuran	0.048	0.043	10.4	83	-0.03
34		Chloroform	0.574	0.552	3.8	89	-0.02
35		1,1,1-Trichloroethane	0.560	0.538	3.9	90	-0.02
36	S	Dibromofluoromethane(SURR)	0.758	0.720	5.0	90	-0.02
37		Cyclohexane	0.313	0.269	14.1	78	-0.02
38		1-Chlorobutane	0.412	0.383	7.0	89	-0.02
39		1,1-Dichloropropene	0.392	0.371	5.4	89	-0.02
40		Carbon Tetrachloride	0.614	0.588	4.2	90	-0.02
41		Benzene	0.707	0.651	7.9	86	-0.02
42	S	1,2-Dichloroethane-d4(SURR)	0.246	0.235	4.5	91	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415142.D Vial: 2
Acq On : 26 Jun 2006 8:43 am Operator: MD
Sample : BPF0210-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\L0060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43		1,2-Dichloroethane	0.257	0.249	3.1	90	-0.03
44		Tertiary-amyl methyl ether	0.571	0.527	7.7	86	-0.02
45		Trichloroethene	0.414	0.398	3.9	89	-0.03
46		Methyl Cyclohexane	0.400	0.375	6.3	87	-0.02
47		1,2-Dichloropropane	0.285	0.260	8.8	84	-0.03
48		Dibromomethane	0.337	0.322	4.5	89	-0.02
49		1,4-Dioxane	0.003	0.002	33.3#	89	-0.02
50		Methyl Methacrylate	0.181	0.163	9.9	84	-0.03
51		Bromodichloromethane	0.587	0.574	2.2	90	-0.02
52		2-Nitropropane	0.048	0.045	6.3	92	-0.02
53		2-Chloroethyl vinyl ether	0.105	0.098	6.7	88	-0.03
54		4-Methyl-2-Pentanone	0.086	0.075	12.8	85	-0.03
55		cis-1,3-Dichloropropene	0.436	0.415	4.8	87	-0.02
56		Toluene	0.545	0.516	5.3	87	-0.03
57		trans-1,3-Dichloropropene	0.363	0.350	3.6	88	-0.02
58		1,1,2-Trichloroethane	0.246	0.230	6.5	87	-0.02
59	I	Chlorobenzene-d5	1.000	1.000	0.0	87	-0.02
60	S	Toluene-d8 (SURR)	1.083	1.012	6.6	88	-0.02
61		2-Hexanone	0.174	0.145	16.7	87	-0.02
62		Ethyl Methacrylate	0.380	0.338	11.1	85	-0.02
63		1,3-Dichloropropane	0.462	0.423	8.4	86	-0.02
64		Tetrachloroethene	0.490	0.476	2.9	91	-0.03
65		Dibromochloromethane	0.797	0.765	4.0	90	-0.02
66		1,2-Dibromoethane	0.607	0.569	6.3	88	-0.02
67		1-Chlorohexane	0.516	0.485	6.0	88	-0.03
68		Chlorobenzene	0.931	0.887	4.7	89	-0.03
69		1,1,1,2-Tetrachloroethane	0.543	0.511	5.9	90	-0.02
70		Ethylbenzene	1.292	1.230	4.8	88	-0.02
71		Xylene P,M	0.534	0.506	5.2	89	-0.03
72		Xylene O	0.508	0.480	5.5	89	-0.03
73		Styrene	0.868	0.828	4.6	88	-0.02
74		Bromoform	0.583	0.573	1.7	93	-0.02
75		cis-1,4-Dichloro-2-butene	0.115	0.125	-8.7	99	-0.02
76	S	Bromofluorobenzene (SURR)	0.733	0.693	5.5	89	-0.02
77	I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	89	-0.03
78		Isopropylbenzene	2.587	2.407	7.0	89	-0.02
79		Trans-1,4-Dichloro-2-Butene	0.155	0.147	5.2	90	-0.03
80		1,2,3-Trichloropropane	0.748	0.659	11.9	89	-0.02
81		Bromobenzene	0.910	0.862	5.3	91	-0.03
82		1,1,2,2-Tetrachloroethane	0.982	0.875	10.9	90	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415142.D Vial: 2
Acq On : 26 Jun 2006 8:43 am Operator: MD
Sample : BPF0210-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	n-Propylbenzene	3.314	3.026	8.7	85	-0.03
84	2-Chlorotoluene	1.625	1.594	1.9	99	-0.02
85	4-Chlorotoluene	2.186	2.017	7.7	89	-0.03
86	1,3,5-Trimethylbenzene	2.128	1.980	7.0	89	-0.02
87	Pentachloroethane	2.994	2.809	6.2	90	-0.03
88	tert-Butylbenzene	2.994	2.809	6.2	90	-0.03
89	1,2,4-Trimethylbenzene	2.152	1.999	7.1	89	-0.03
90	sec-Butylbenzene	3.215	2.986	7.1	89	-0.03
91	1,3 Dichlorobenzene	1.545	1.448	6.3	90	-0.03
92	4-Isopropyltoluene	2.609	2.459	5.7	90	-0.03
93	1,4 Dichlorobenzene	1.612	1.514	6.1	91	-0.03
94	n-Butylbenzene	2.333	2.195	5.9	89	-0.02
95	1,2 Dichlorobenzene	1.404	1.310	6.7	90	-0.02
96	Hexachloroethane	0.993	0.961	3.2	91	-0.02
97	1,2-Dibromo-3-Chloropropane	0.174	0.171	1.7	96	-0.03
98	1,2,4-Trichlorobenzene	1.170	1.124	3.9	94	-0.03
99	Hexachlorobutadiene	0.834	0.818	1.9	95	-0.02
100	Naphthalene	1.681	1.468	12.7	92	-0.02
101	1,2,3-Trichlorobenzene	1.006	0.944	6.2	95	-0.02

Quantitation Report (QT Reviewed)

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415142.D Vial: 2
Acq On : 26 Jun 2006 8:43 am Operator: MD
Sample : BPF0210-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 26 11:22 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.22	96	3724885	25.00	ug/l	-0.03
59) Chlorobenzene-d5	11.55	117	3246204	25.00	ug/l	-0.02
77) 1,4 Dichlorobenzene-D4	15.95	152	1904399	25.00	ug/l	-0.03
System Monitoring Compounds						
36) Dibromofluoromethane(SURR)	5.15	111	2683668	23.75	ug/l	-0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 95.00%			
42) 1,2-Dichloroethane-d4(SURR	5.66	65	875215	23.90	ug/l	-0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 95.60%			
60) Toluene-d8 (SURR)	8.97	98	3286537	23.37	ug/l	-0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 93.48%			
76) Bromofluorobenzene (SURR)	13.77	95	2250348	23.63	ug/l	-0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 94.52%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.21	85	1187756	23.92	ug/l	100
3) Chloromethane	1.34	50	525184	22.25	ug/l	99
4) Vinyl Chloride	1.40	62	594924	23.01	ug/l	100
5) Bromomethane	1.62	94	547437	23.02	ug/l	100
6) Chloroethane	1.70	64	316193	27.58	ug/l	97
7) Trichlorofluoromethane	1.88	101	2109373	24.25	ug/l	100
8) Diethyl ether	2.13	59	352836	22.51	ug/l	98
9) Acrolein	2.23	56	64000	20.81	ug/l	96
10) 1,1,2-Trichloro-1,2,2-trif	2.31	101	2057895	24.02	ug/l	94
11) Acetone	2.37	58	148625	105.08	ug/l	87
12) Iodomethane	2.43	142	2314518	27.14	ug/l	100
13) Carbon Disulfide	2.47	76	2116787	22.82	ug/l	100
14) 1,1-Dichloroethene	2.29	96	879994	23.92	ug/l	98
15) Allyl Chloride	2.62	41	829951	22.50	ug/l	96
16) Methyl Acetate	2.68	43	322761	22.95	ug/l	99
17) Methylene Chloride	2.75	84	770885	22.75	ug/l	98
18) Tertiary-butyl Alcohol	2.96	59	293319	116.68	ug/l	99
19) Methyl tert-Butyl Ether	3.07	73	1550656	24.51	ug/l	98
20) Acrylonitrile	3.04	53	124999	23.01	ug/l	97
21) trans-1,2-Dichloroethene	3.04	96	1054346	24.81	ug/l	99
22) 1,1-Dichloroethane	3.53	63	1579303	23.23	ug/l	99
23) Chloroprene	3.66	53	969575	23.48	ug/l	99
24) Vinyl Acetate	3.66	43	2229895	21.62	ug/l	98
25) Di-isopropyl ether	3.69	45	2199992	21.71	ug/l	98
26) Ethyl tertiary-butyl ether	4.23	59	2111904	22.70	ug/l	99
27) 2-Butanone	4.45	72	299149	111.20	ug/l	94
28) cis-1,2 Dichloroethene	4.38	96	1141106	23.79	ug/l	96

(#) = qualifier out of range (m) = manual integration
M415142.D LO060606.M Mon Jun 26 11:22:39 2006 MS4 Page 1

Quantitation Report (QT Reviewed)

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415142.D Vial: 2
Acq On : 26 Jun 2006 8:43 am Operator: MD
Sample : BPF0210-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 26 11:22 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) 2,2-Dichloropropane	4.36	77	1415049	24.34 ug/l	98
30) Methyl Acrylate	4.61	55	617064	22.37 ug/l	100
31) Methacrylonitrile	4.76	41	335857	20.94 ug/l	97
32) Bromochloromethane	4.73	128	880592	24.47 ug/l	99
33) Tetrahydrofuran	4.82	42	160601	22.28 ug/l	97
34) Chloroform	4.90	83	2055304	24.05 ug/l	100
35) 1,1,1-Trichloroethane	5.14	97	2003461	23.99 ug/l	99
37) Cyclohexane	5.19	56	1002319	21.50 ug/l	97
38) 1-Chlorobutane	5.33	56	1425717	23.22 ug/l	99
39) 1,1-Dichloropropene	5.40	75	1383618	23.69 ug/l	99
40) Carbon Tetrachloride	5.39	117	2191695	23.95 ug/l	100
41) Benzene	5.73	78	2426014	23.04 ug/l	100
43) 1,2-Dichloroethane	5.78	62	926252	24.17 ug/l	99
44) Tertiary-amyl methyl ether	6.01	73	1963108	23.07 ug/l	99
45) Trichloroethene	6.83	95	1481523	24.03 ug/l	98
46) Methyl Cyclohexane	7.13	83	1396289	23.43 ug/l	98
47) 1,2-Dichloropropane	7.20	63	967359	22.77 ug/l	97
48) Dibromomethane	7.40	93	1199714	23.89 ug/l	97
49) 1,4-Dioxane	7.52	88	177295	463.14 ug/l	96
50) Methyl Methacrylate	7.55	41	607448	22.50 ug/l	97
51) Bromodichloromethane	7.72	83	2138063	24.47 ug/l	100
52) 2-Nitropropane	8.16	43	166528	23.47 ug/l	100
53) 2-Chloroethyl vinyl ether	8.33	63	363256	26.96 ug/l	97
54) 4-Methyl-2-Pentanone	8.87	58	1393782	108.55 ug/l	99
55) cis-1,3-Dichloropropene	8.53	75	1547472	23.84 ug/l	98
56) Toluene	9.08	92	1923294	23.69 ug/l	99
57) trans-1,3-Dichloropropene	9.56	75	1302551	24.09 ug/l	99
58) 1,1,2-Trichloroethane	9.85	83	857995#	23.38 ug/l	98
61) 2-Hexanone	10.39	43	2357361	111.94 ug/l	98
62) Ethyl Methacrylate	9.82	69	1095680	22.18 ug/l	93
63) 1,3-Dichloropropane	10.14	76	1372300	22.86 ug/l	99
64) Tetrachloroethene	10.03	164	1544602	24.25 ug/l	98
65) Dibromochloromethane	10.52	129	2484754	24.02 ug/l	100
66) 1,2-Dibromoethane	10.67	107	1846828	23.42 ug/l	100
67) 1-Chlorohexane	11.67	91	1573932	23.51 ug/l	100
68) Chlorobenzene	11.59	112	2880862	23.84 ug/l	100
69) 1,1,1,2-Tetrachloroethane	11.79	131	1657676	23.49 ug/l	99
70) Ethylbenzene	11.86	91	3994200	23.81 ug/l	100
71) Xylene P,M	12.09	106	3281999	47.34 ug/l	98
72) Xylene O	12.80	106	1556805	23.61 ug/l	98
73) Styrene	12.84	104	2686485	23.83 ug/l	99
74) Bromoform	13.13	173	1858901	24.56 ug/l	94

(#) = qualifier out of range (m) = manual integration
M415142.D LO060606.M Mon Jun 26 11:22:39 2006 MS4 Page 2

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415142.D Vial: 2
Acq On : 26 Jun 2006 8:43 am Operator: MD
Sample : BPF0210-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 26 11:22 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75)	cis-1,4-Dichloro-2-butene	13.72	75	406649m	27.17 ug/l	
78)	Isopropylbenzene	13.53	105	4583414	23.26 ug/l	100
79)	Trans-1,4-Dichloro-2-Buten	14.24	53	280509	23.71 ug/l	98
80)	1,2,3-Trichloropropane	14.17	75	1254514	22.00 ug/l	99
81)	Bromobenzene	13.99	156	1641976	23.69 ug/l	98
82)	1,1,2,2-Tetrachloroethane	14.14	83	1666862	23.74 ug/l	100
83)	n-Propylbenzene	14.30	91	5761878	22.83 ug/l	99
84)	2-Chlorotoluene	14.39	91	3036481m	24.53 ug/l	
85)	4-Chlorotoluene	14.62	91	3840741	23.06 ug/l	100
86)	1,3,5-Trimethylbenzene	14.67	105	3770596	23.26 ug/l	99
87)	Pentachloroethane	15.25	119	5349460	23.46 ug/l	97
88)	tert-Butylbenzene	15.25	119	5349460	23.46 ug/l	99
89)	1,2,4-Trimethylbenzene	15.36	105	3806935	23.23 ug/l	99
90)	sec-Butylbenzene	15.69	105	5687204	23.22 ug/l	100
91)	1,3 Dichlorobenzene	15.82	146	2758106	23.43 ug/l	99
92)	4-Isopropyltoluene	16.00	119	4682509	23.56 ug/l	99
93)	1,4 Dichlorobenzene	16.00	146	2883381	23.48 ug/l	99
94)	n-Butylbenzene	16.79	91	4180639	23.53 ug/l	99
95)	1,2 Dichlorobenzene	16.70	146	2494754	23.33 ug/l	98
96)	Hexachloroethane	17.16	117	1830645	24.21 ug/l	97
97)	1,2-Dibromo-3-Chloropropan	18.23	75	325651	24.53 ug/l	95
98)	1,2,4-Trichlorobenzene	20.14	180	2140372	24.01 ug/l	99
99)	Hexachlorobutadiene	20.55	225	1558325	24.53 ug/l	100
100)	Naphthalene	20.60	128	2795798	24.17 ug/l	100
101)	1,2,3-Trichlorobenzene	21.00	180	1798192	25.64 ug/l	98

(#) = qualifier out of range (m) = manual integration
M415142.D LO060606.M Mon Jun 26 11:22:40 2006 MS4 Page 3

ANALYSIS SEQUENCE

BPF0211

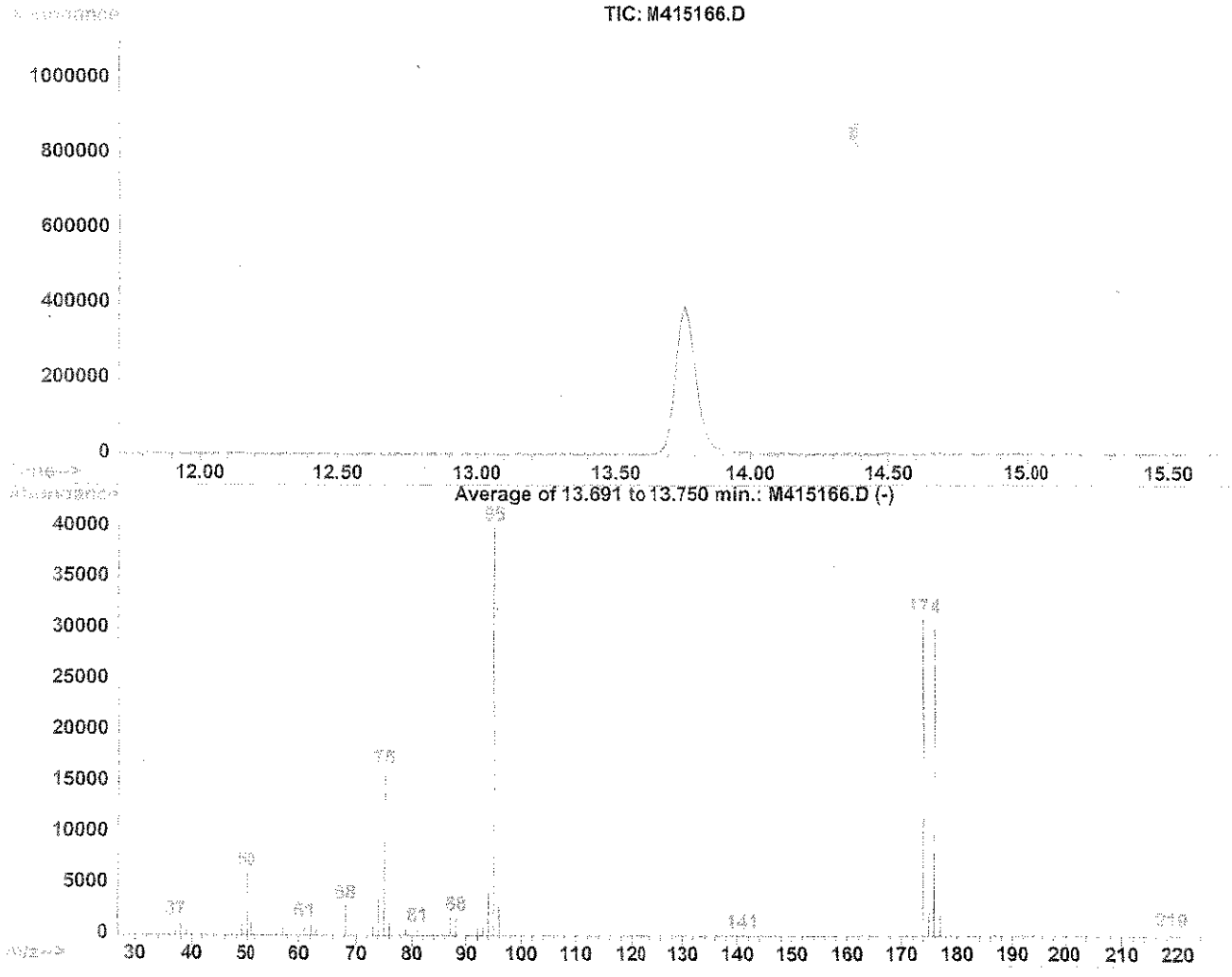
Instrument: VMS4

Calibration ID: 0606010

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606383-17	B: 5035/8260 ppb Low Leve	A	1			6F22041	MACTEC Engineering & Consultin
0606383-10	DC: x5035/8260 ppb Low Lev	F	2			6F22041	MACTEC Engineering & Consultin
0606383-07	DC: x5035/8260 ppb Low Lev	C	3			6F22041	MACTEC Engineering & Consultin
0606383-06	DC: x5035/8260 ppb Low Lev	C	4			6F22041	MACTEC Engineering & Consultin
0606383-05	DC: x5035/8260 ppb Low Lev	F	5			6F22041	MACTEC Engineering & Consultin
0606383-04	DC: x5035/8260 ppb Low Lev	D	6			6F22041	MACTEC Engineering & Consultin
0606383-03	DC: x5035/8260 ppb Low Lev	F	7			6F22041	MACTEC Engineering & Consultin
0606383-02	DC: x5035/8260 ppb Low Lev	E	8			6F22041	MACTEC Engineering & Consultin
0606383-01	DC: x5035/8260 ppb Low Lev	G	9			6F22041	MACTEC Engineering & Consultin
0606374-16	DC: x5035/8260 ppb Low Lev	E	10			6F22041	MACTEC Engineering & Consultin
0606374-13	DC: x5035/8260 ppb Low Lev	A	11			6F22041	MACTEC Engineering & Consultin
BF62615-BLK1	QC		12			6F22041	
BF62615-BS1	QC		13			6F22041	
BF62615-BSD1	QC		14			6F22041	
BPF0211-CCV1	QC		15		6F26062	6F22041	
BPF0211-TUN1	QC		16		6F26061		

Samples Loaded By Date Data Processed By Date

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415166.D Vial: 26
Acq On : 26 Jun 2006 8:38 pm Operator: MD
Sample : BPF0211-TUN1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010



Spectrum Information: Average of 13.691 to 13.750 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.2	6106	PASS
75	95	30	60	40.5	16224	PASS
95	95	100	100	100.0	40095	PASS
96	95	5	9	7.3	2908	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	77.4	31047	PASS
175	174	5	9	7.1	2213	PASS
176	174	95	101	97.7	30338	PASS
177	176	5	9	6.7	2035	PASS

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/26/06	20	M4 5160	0606374-10	L006 0606	4.7/10 D4190	no
	21	M4 61	-11		7/10 D4212	
	22	M4 62	-12		3.6/10 D4177	
	23	M4 63	0606383-11		6.7/10 D4335	
	24	M4 64	BF62614- MS1		4.1/10 D4336 0606383-11	
	25	M4 65	BF62614- MSD1		3.9/10 D4327 0606383-11	
	26	M4 66	BF0211- TUN		6F26061	
	27	M4 67	BF0211- CCV1		6F26062	
	28	M4 68	BF62615- BS1		6F26063	
	29	M4 69	BF62615- BSD1		6F26063	
	30	M4 70	Test Blk			
	31	M4 71	BF62615- BLK1			
	32	M4 72	0606383-17		5/10 D3925	
	33	M4 73	0606377-13		8.1/10 D4199	
	34	M4 74	-14		6.2/10 D4174	
	35	M4 75	-15		5.3/10 D4188	
6/26/06	36	M4 76	-16	L006 0606	7.4/10 D4175	no

369

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: 6F22039

On-column IS: 6F22041

Page____

080

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/20/06	37	M415177	0606383-01	1009606	7.9/10 03177	
	38	M4 78	-02		4.7/10 03927	
	39	M4 79	-03		6.6/10 03180	
	40	M4 80	-04		3.5/10 03922	
	41	M4 81	-05		6.3/10 03189	
	42	M4 82	-06		6.9/10 03910	
	43	M4 83	-07		5.8/10 04319	
	44	M4 84	-08		5.6/10 04330	
	45	M4 85	-10		9.5/10 04337	
	46	M4 86	-12		4.3/10 R. Archer error 04337	
	47	M4 87	-13		4/10 04341	
	48	M4 88	-14		3.3/10 03917	
	49	M4 89	BF62615- MS1		3.8/10 04326 0606383-13	
6/20/06	50	M4 90	BF62615- MSD1	1006006	4.2/10 04327 0606383-13	
6/21/06	1	M4 91	BF0219- TUN		6F27049	
	2	M4 92	BF0219- CCV		6F27015	
6/21/06	3	M4 93	BF62718- BS1	1006606	6F27046	

370

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: 6F27039

On-column IS: 6F27041

Page______

085

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415167.D Vial: 27
Acq On : 26 Jun 2006 9:07 pm Operator: MD
Sample : BPF0211-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	88	-0.03
2		Dichlorodifluoromethane	0.333	0.310	6.9	88	0.00
3		Chloromethane	0.158	0.139	12.0	86	-0.01
4		Vinyl Chloride	0.174	0.156	10.3	84	0.00
5		Bromomethane	0.160	0.144	10.0	86	0.00
6		Chloroethane	0.084	0.078	7.1	81	0.00
7		Trichlorofluoromethane	0.584	0.549	6.0	89	-0.01
8		Diethyl ether	0.105	0.092	12.4	83	0.00
9		Acrolein	0.021	0.016	23.8	77	-0.01
10		1,1,2-Trichloro-1,2,2-trifl	0.575	0.534	7.1	87	0.00
11		Acetone	0.009	0.008	11.1	83	-0.01
12		Iodomethane	0.572	0.593	-3.7	97	-0.01
13		Carbon Disulfide	0.622	0.548	11.9	84	-0.01
14		1,1-Dichloroethene	0.247	0.228	7.7	87	-0.01
15		Allyl Chloride	0.248	0.215	13.3	81	-0.01
16		Methyl Acetate	0.099	0.085	14.1	85	-0.03
17		Methylene Chloride	0.259	0.202	22.0	81	-0.01
18		Tertiary-butyl Alcohol	0.019	0.017	10.5	102	-0.03
19		Methyl tert-Butyl Ether	0.425	0.419	1.4	93	-0.03
20		Acrylonitrile	0.036	0.036	0.0	96	-0.03
21		trans-1,2-Dichloroethene	0.285	0.292	-2.5	97	-0.01
22		1,1-Dichloroethane	0.456	0.412	9.6	85	-0.03
23		Chloroprene	0.277	0.251	9.4	85	-0.03
24		Vinyl Acetate	0.692	0.577	16.6	79	-0.03
25		Di-isopropyl ether	0.680	0.576	15.3	80	-0.01
26		Ethyl tertiary-butyl ether	0.624	0.556	10.9	84	-0.03
27		2-Butanone	0.018	0.016	11.1	83	-0.03
28		cis-1,2 Dichloroethene	0.322	0.295	8.4	86	-0.03
29		2,2-Dichloropropane	0.390	0.350	10.3	84	-0.03
30		Methyl Acrylate	0.185	0.158	14.6	83	-0.03
31		Methacrylonitrile	0.108	0.086	20.4	82	-0.03
32		Bromochloromethane	0.241	0.230	4.6	89	-0.03
33		Tetrahydrofuran	0.048	0.041	14.6	80	-0.04
34		Chloroform	0.574	0.537	6.4	88	-0.03
35		1,1,1-Trichloroethane	0.560	0.523	6.6	89	-0.03
36	S	Dibromofluoromethane(SURR)	0.758	0.707	6.7	90	-0.03
37		Cyclohexane	0.313	0.269	14.1	79	-0.01
38		1-Chlorobutane	0.412	0.369	10.4	87	-0.01
39		1,1-Dichloropropene	0.392	0.358	8.7	87	-0.01
40		Carbon Tetrachloride	0.614	0.562	8.5	88	-0.03
41		Benzene	0.707	0.627	11.3	84	-0.01
42	S	1,2-Dichloroethane-d4(SURR)	0.246	0.235	4.5	92	-0.01

(#) = Out of Range

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415167.D Vial: 27
Acq On : 26 Jun 2006 9:07 pm Operator: MD
Sample : BPF0211-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43		1,2-Dichloroethane	0.257	0.246	4.3	90	-0.03
44		Tertiary-amyl methyl ether	0.571	0.512	10.3	85	-0.03
45		Trichloroethene	0.414	0.383	7.5	88	-0.03
46		Methyl Cyclohexane	0.400	0.361	9.8	85	-0.01
47		1,2-Dichloropropane	0.285	0.249	12.6	82	-0.03
48		Dibromomethane	0.337	0.314	6.8	88	-0.01
49		1,4-Dioxane	0.003	0.002	33.3#	88	-0.03
50		Methyl Methacrylate	0.181	0.148	18.2	78	-0.03
51		Bromodichloromethane	0.587	0.554	5.6	88	-0.01
52		2-Nitropropane	0.048	0.044	8.3	91	-0.03
53		2-Chloroethyl vinyl ether	0.105	0.088	16.2	81	-0.03
54		4-Methyl-2-Pentanone	0.086	0.071	17.4	82	-0.03
55		cis-1,3-Dichloropropene	0.436	0.397	8.9	85	-0.03
56		Toluene	0.545	0.498	8.6	86	-0.03
57		trans-1,3-Dichloropropene	0.363	0.335	7.7	86	-0.03
58		1,1,2-Trichloroethane	0.246	0.223	9.3	86	-0.03
59	I	Chlorobenzene-d5	1.000	1.000	0.0	89	-0.01
60	S	Toluene-d8 (SURR)	1.083	0.975	10.0	86	-0.01
61		2-Hexanone	0.174	0.134	23.0	82	-0.01
62		Ethyl Methacrylate	0.380	0.325	14.5	83	-0.03
63		1,3-Dichloropropane	0.462	0.407	11.9	85	-0.03
64		Tetrachloroethene	0.490	0.468	4.5	91	-0.03
65		Dibromochloromethane	0.797	0.738	7.4	89	-0.03
66		1,2-Dibromoethane	0.607	0.549	9.6	87	-0.03
67		1-Chlorohexane	0.516	0.466	9.7	87	-0.03
68		Chlorobenzene	0.931	0.851	8.6	87	-0.03
69		1,1,1,2-Tetrachloroethane	0.543	0.500	7.9	90	-0.03
70		Ethylbenzene	1.292	1.175	9.1	86	-0.03
71		Xylene P,M	0.534	0.483	9.6	86	-0.03
72		Xylene O	0.508	0.459	9.6	87	-0.03
73		Styrene	0.868	0.787	9.3	86	-0.01
74		Bromoform	0.583	0.547	6.2	90	-0.03
75		cis-1,4-Dichloro-2-butene	0.115	0.099	13.9	80	-0.03
76	S	Bromofluorobenzene (SURR)	0.733	0.670	8.6	87	-0.01
77	I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	90	-0.03
78		Isopropylbenzene	2.587	2.325	10.1	87	-0.03
79		Trans-1,4-Dichloro-2-Butene	0.155	0.138	11.0	86	-0.03
80		1,2,3-Trichloropropane	0.748	0.631	15.6	87	-0.03
81		Bromobenzene	0.910	0.837	8.0	89	-0.03
82		1,1,2,2-Tetrachloroethane	0.982	0.832	15.3	86	-0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415167.D Vial: 27
Acq On : 26 Jun 2006 9:07 pm Operator: MD
Sample : BPF0211-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	n-Propylbenzene	3.314	2.992	9.7	85	-0.03
84	2-Chlorotoluene	1.625	1.447	11.0	91	-0.01
85	4-Chlorotoluene	2.186	1.941	11.2	87	-0.03
86	1,3,5-Trimethylbenzene	2.128	1.910	10.2	87	-0.01
87	Pentachloroethane	2.994	2.697	9.9	87	-0.03
88	tert-Butylbenzene	2.994	2.697	9.9	87	-0.03
89	1,2,4-Trimethylbenzene	2.152	1.927	10.5	87	-0.03
90	sec-Butylbenzene	3.215	2.893	10.0	88	-0.03
91	1,3 Dichlorobenzene	1.545	1.401	9.3	88	-0.03
92	4-Isopropyltoluene	2.609	2.366	9.3	88	-0.03
93	1,4 Dichlorobenzene	1.612	1.455	9.7	88	-0.03
94	n-Butylbenzene	2.333	2.093	10.3	86	-0.01
95	1,2 Dichlorobenzene	1.404	1.264	10.0	88	-0.03
96	Hexachloroethane	0.993	0.924	6.9	89	-0.03
97	1,2-Dibromo-3-Chloropropane	0.174	0.162	6.9	92	-0.03
98	1,2,4-Trichlorobenzene	1.170	1.049	10.3	89	-0.03
99	Hexachlorobutadiene	0.834	0.797	4.4	94	-0.03
100	Naphthalene	1.681	1.334	20.6	85	-0.03
101	1,2,3-Trichlorobenzene	1.006	0.898	10.7	92	-0.03

Quantitation Report (QT Reviewed)

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415167.D Vial: 27
Acq On : 26 Jun 2006 9:07 pm Operator: MD
Sample : BPF0211-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 8:37 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.22	96	3783441	25.00	ug/l	-0.03
59) Chlorobenzene-d5	11.55	117	3313850	25.00	ug/l	-0.01
77) 1,4 Dichlorobenzene-D4	15.96	152	1931828	25.00	ug/l	-0.03
System Monitoring Compounds						
36) Dibromofluoromethane(SURR)	5.14	111	2673701	23.30	ug/l	-0.03
Spiked Amount 25.000	Range 70 - 130		Recovery = 93.20%			
42) 1,2-Dichloroethane-d4(SURR	5.66	65	887345	23.85	ug/l	-0.01
Spiked Amount 25.000	Range 70 - 130		Recovery = 95.40%			
60) Toluene-d8 (SURR)	8.98	98	3231767	22.51	ug/l	-0.01
Spiked Amount 25.000	Range 70 - 130		Recovery = 90.04%			
76) Bromofluorobenzene (SURR)	13.77	95	2218825	22.82	ug/l	-0.01
Spiked Amount 25.000	Range 70 - 130		Recovery = 91.28%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.21	85	1171054	23.22	ug/l	99
3) Chloromethane	1.34	50	526255	21.95	ug/l	98
4) Vinyl Chloride	1.40	62	590100	22.47	ug/l	98
5) Bromomethane	1.63	94	545730	22.60	ug/l	99
6) Chloroethane	1.70	64	296529	25.07	ug/l	99
7) Trichlorofluoromethane	1.88	101	2077276	23.51	ug/l	99
8) Diethyl ether	2.13	59	348234	21.87	ug/l	97
9) Acrolein	2.22	56	61742	19.77	ug/l	99
10) 1,1,2-Trichloro-1,2,2-trif	2.31	101	2019699	23.21	ug/l	93
11) Acetone	2.37	58	150774	104.95	ug/l	96
12) Iodomethane	2.43	142	2242747	25.89	ug/l	100
13) Carbon Disulfide	2.47	76	2071463	21.99	ug/l	100
14) 1,1-Dichloroethene	2.30	96	862502	23.08	ug/l	98
15) Allyl Chloride	2.62	41	811887	21.67	ug/l	95
16) Methyl Acetate	2.67	43	321179	22.48	ug/l	97
17) Methylene Chloride	2.76	84	765014	22.20	ug/l	98
18) Tertiary-butyl Alcohol	2.95	59	325313	127.61	ug/l	96
19) Methyl tert-Butyl Ether	3.07	73	1586889	24.70	ug/l	98
20) Acrylonitrile	3.02	53	134626	24.40	ug/l	96
21) trans-1,2-Dichloroethene	3.04	96	1104131	25.58	ug/l	98
22) 1,1-Dichloroethane	3.53	63	1560533	22.59	ug/l	100
23) Chloroprene	3.65	53	950122	22.65	ug/l	99
24) Vinyl Acetate	3.65	43	2184004	20.85	ug/l	99
25) Di-isopropyl ether	3.69	45	2177524	21.16	ug/l	89
26) Ethyl tertiary-butyl ether	4.22	59	2104035	22.27	ug/l	98
27) 2-Butanone	4.45	72	293673	107.48	ug/l	95
28) cis-1,2 Dichloroethene	4.36	96	1115905	22.91	ug/l	99

(#) = qualifier out of range (m) = manual integration
M415167.D LO060606.M Tue Jun 27 08:37:21 2006 MS4 Page 1

ANALYSIS SEQUENCE

BPF0219

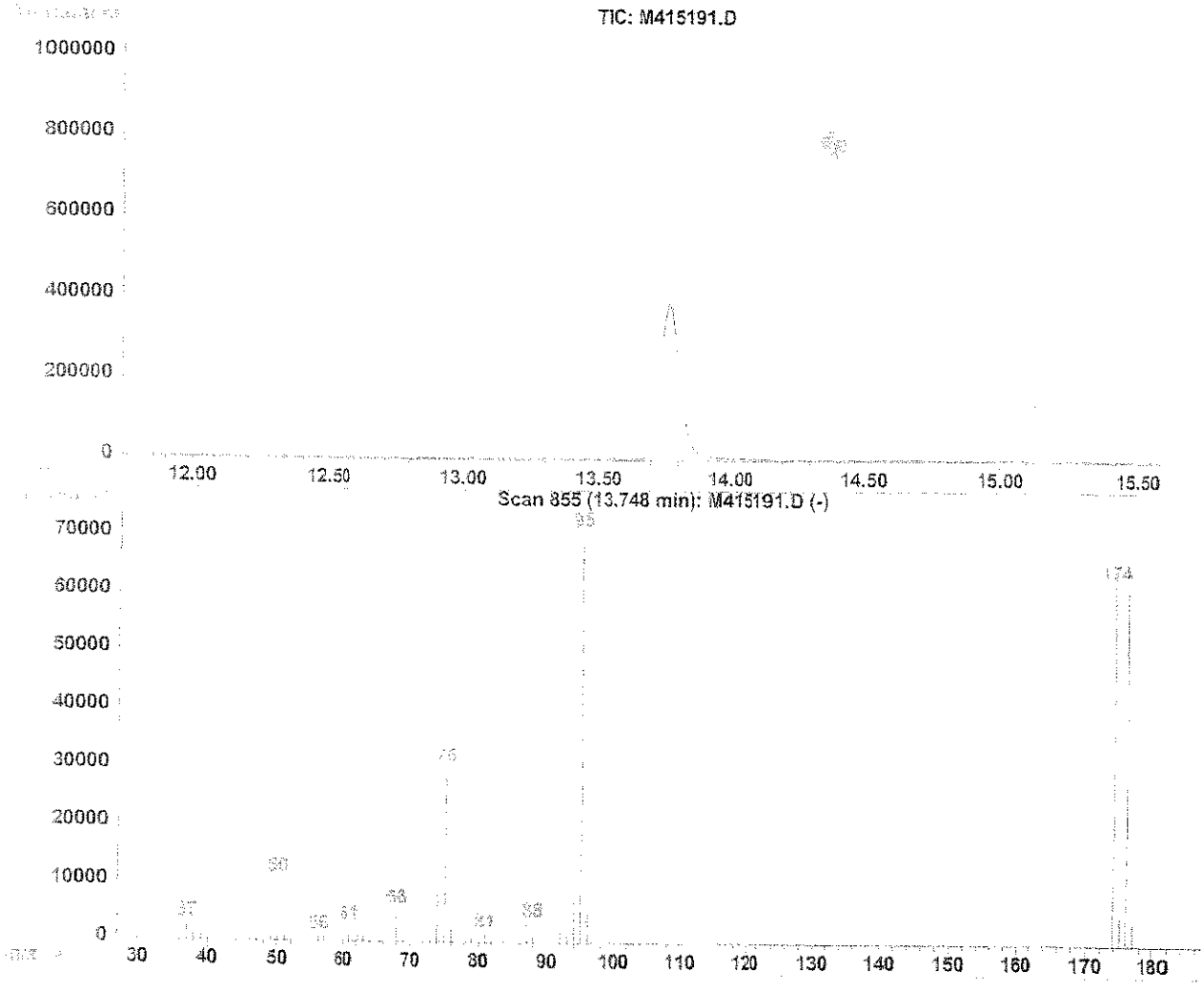
Instrument: VMS4

Calibnration ID: 0606010

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0219-TUN1	QC		1		6F27044		
BPF0219-CCV1	QC		2		6F27045	6F22041	
BF62718-BLK1	QC		3			6F22041	
BF62718-BS1	QC		4			6F22041	
BF62718-BSD1	QC		5			6F22041	
0606383-14	)C: x5035/8260 ppb Low Lev	E	6			6F22041	MACTEC Engineering & Consulting, In
0606383-13	)C: x5035/8260 ppb Low Lev	E	7			6F22041	MACTEC Engineering & Consulting, In
0606383-12	)C: x5035/8260 ppb Low Lev	E	8			6F22041	MACTEC Engineering & Consulting, In
0606383-08	)C: x5035/8260 ppb Low Lev	D	9			6F22041	MACTEC Engineering & Consulting, In
0606374-15	)C: x5035/8260 ppb Low Lev	D	10			6F22041	MACTEC Engineering & Consulting, In
0606374-14	)C: x5035/8260 ppb Low Lev	D	11			6F22041	MACTEC Engineering & Consulting, In
0606374-07	)C: x5035/8260 ppb Low Lev	E	12			6F22041	MACTEC Engineering & Consulting, In
0606374-03	)C: x5035/8260 ppb Low Lev	E	13			6F22041	MACTEC Engineering & Consulting, In
0606373-07	)C: x5035/8260 ppb Low Lev	F	14			6F22041	MACTEC Engineering & Consulting, In
BF62718-MS1	QC		15			6F22041	
BF62718-MSD1	QC		16			6F22041	

Samples Loaded By Date Data Processed By Date

Data File : Q:/VOA/MS4_MH/MH0606/MH062706\M415191.D Vial: 1
Acq On : 27 Jun 2006 8:18 am Operator: MD
Sample : BPF0219-TUN1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010



Spectrum Information: Scan 855

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.1	10690	PASS
75	95	30	60	42.2	29856	PASS
95	95	100	100	100.0	70716	PASS
96	95	5	9	8.2	5810	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	87.9	62136	PASS
175	174	5	9	7.7	4802	PASS
176	174	95	101	97.6	60656	PASS
177	176	5	9	6.4	3867	PASS

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/20/06	37	M4/5177	0606383-01	1000606	7.9/10 03179	
	38	M4 78	-02		4.7/10 03927	
	39	M4 79	-03		6.6/10 03180	
	40	M4 80	-04		3.5/10 03922	
	41	M4 81	-05		6.3/10 03189	
	42	M4 82	-06		6.9/10 03910	
	43	M4 83	-07		5.8/10 04319	
	44	M4 84	-08		5.6/10 04330	
	45	M4 85	-10		9.5/10 04337	
	46	M4 86	-12		4.3/10 R. Archer e1101 04337	
	47	M4 87	-13		4/10 04341	
	48	M4 88	-14		3.3/10 03917	
	49	M4 89	BF62615- MS1		3.8/10 04326 0606383-13	
6/21/06	50	M4 90	BF62615- MSD1	1000606	4.2/10 04327 0606383-13	
6/21/06	1	M4 91	BF0219- TUN		6F27047	
	2	M4 92	BF0219- CCV		6F27045	
6/21/06	3	M4 93	BF62718- BS1	1000606	6F27046	

377

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: 6F27039

On-column IS: 6F27041

Page______

085

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/27/06	4	M4 15194	BF62718- BS01	L606606	BF27046	
	5	M4 95	Test Blk			
	6	M4 96	BF62718- BLK1			
	7	M4 97	0606383-12		4.3/10 04337	
	8	M4 98	-13		4/10 04341	
	9	M4 99	-14		3.3/10 03919	
	10	M4 15200	BF62718- MS1		BF27081 10ul/10ul 3.8/10 04326 0606383-13	
6/27/06	11	M4 01	BF62718- MSD1	L606606	BF27081 10ul/10ul 4.2/10 04327 0606383-13	
		M4	0606373-01		8.8/10 MW 6/27/06 04236	
		M4	-05		6/27/06 04242	
		M4	-06		MW 6/27/06	
6/27/06	12	M4 15202	0606373 -07	L606606	4/10 04232	
	13	M4 03	-12		3/10 03914	
	14	M4 04	0606374-03		8/10 04181	
6/27/06	15	M4 05	-07	L606606	7.6/10 04179	
		M4	-09		MW 6/27/06 04185	
6/27/06	16	M4 15206	-11	L606606	6.4/10 04201	

378

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: BF27039

On-column IS: BF27041

Page______

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/27/06	17	M4 15207	0606374-17	1006060	7.9/10 D4186	mo
	18	M4 08	-15		7.7/10 D4200	
	19	M4 09	0606383-08		4.6/10 D4332	
6/27/06	20	M4 10	~~0606374-12~~ 0606383-12	Loa06	~~4.8/10~~ 3.5/10 D4338 ~~D4176~~	mo
6/27/06	21	M4 11	~~0606383~~ 0606379-12	Loa06	4.8/10 D4176	mo
6/28/06	1	M4 12	BPF0232- TUN	AG061306	6F28046	
	2	M4 13	BPF0232- CAL		6F28047	
	3	M4 14	BF62822- BS1		6F17081 20μl/15ml	
	4	M4 15	BF62822- BSD1		6F17081 20μl/15ml	
	5	M4 16	Test Blk			
	6	M4 17	BF62822-BLK1			
	7	M4 18	0606324-13		50X pHCL	
	8	M4 19	0606349-07		10X	
	9	M4 20	0606349-06		1000X	
	10	M4 21	BF62611- MS1		6F17081 20μl/10ml 0606349-06 = used Batch # from MS1 100x run	
	11	M4 22	BF62611- MSD1		6F17081 20μl/10ml 0606349-06 RPD dil %R>0.01	
6/28/06	12	M4 23	Test Blk	AG061306		mo

379

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: 6F22039

On-column IS: 6F22041

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH062706\M415192.D Vial: 2
Acq On : 27 Jun 2006 8:47 am Operator: MD
Sample : BPF0219-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF		%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000		0.0	86	-0.03
2		Dichlorodifluoromethane	0.333	0.310		6.9	86	0.00
3		Chloromethane	0.158	0.137		13.3	83	-0.03
4		Vinyl Chloride	0.174	0.155		10.9	82	0.00
5		Bromomethane	0.160	0.143		10.6	83	0.00
6		Chloroethane	0.084	0.083		1.2	84	0.00
7		Trichlorofluoromethane	0.584	0.543		7.0	86	-0.02
8		Diethyl ether	0.105	0.089		15.2	79	0.00
9		Acrolein	0.021	0.016		23.8	74	-0.01
10		1,1,2-Trichloro-1,2,2-trifl	0.575	0.528		8.2	84	0.00
11		Acetone	0.009	0.007		22.2	76	-0.02
12		Iodomethane	0.572	0.575		-0.5	92	-0.02
13		Carbon Disulfide	0.622	0.549		11.7	82	-0.02
14		1,1-Dichloroethene	0.247	0.225		8.9	84	-0.02
15		Allyl Chloride	0.248	0.214		13.7	79	-0.02
16		Methyl Acetate	0.099	0.081		18.2	79	-0.03
17		Methylene Chloride	0.259	0.198		23.6	78	-0.01
18		Tertiary-butyl Alcohol	0.019	0.015		21.1	89	-0.03
19		Methyl tert-Butyl Ether	0.425	0.407		4.2	89	-0.03
20		Acrylonitrile	0.036	0.034		5.6	90	-0.03
21		trans-1,2-Dichloroethene	0.285	0.288		-1.1	93	-0.03
22		1,1-Dichloroethane	0.456	0.407		10.7	82	-0.03
23		Chloroprene	0.277	0.253		8.7	84	-0.03
24		Vinyl Acetate	0.692	0.566		18.2	76	-0.03
25		Di-isopropyl ether	0.680	0.566		16.8	77	-0.02
26		Ethyl tertiary-butyl ether	0.624	0.540		13.5	80	-0.03
27		2-Butanone	0.018	0.015		16.7	78	-0.03
28		cis-1,2 Dichloroethene	0.322	0.292		9.3	83	-0.03
29		2,2-Dichloropropane	0.390	0.367		5.9	86	-0.03
30		Methyl Acrylate	0.185	0.152		17.8	78	-0.03
31		Methacrylonitrile	0.108	0.083		23.1	78	-0.03
32		Bromochloromethane	0.241	0.224		7.1	85	-0.03
33		Tetrahydrofuran	0.048	0.039		18.8	75	-0.04
34		Chloroform	0.574	0.528		8.0	85	-0.03
35		1,1,1-Trichloroethane	0.560	0.518		7.5	86	-0.03
36	S	Dibromofluoromethane(SURR)	0.758	0.695		8.3	86	-0.03
37		Cyclohexane	0.313	0.267		14.7	77	-0.02
38		1-Chlorobutane	0.412	0.365		11.4	84	-0.02
39		1,1-Dichloropropene	0.392	0.358		8.7	85	-0.02
40		Carbon Tetrachloride	0.614	0.558		9.1	85	-0.03
41		Benzene	0.707	0.622		12.0	81	-0.02
42	S	1,2-Dichloroethane-d4(SURR)	0.246	0.227		7.7	87	-0.02

(#) = Out of Range

Data File : Q:/VOA/MS4_MH/MH0606/MH062706\M415192.D Vial: 2
Acq On : 27 Jun 2006 8:47 am Operator: MD
Sample : BPF0219-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43		1,2-Dichloroethane	0.257	0.238	7.4	85	-0.03
44		Tertiary-amyl methyl ether	0.571	0.500	12.4	81	-0.03
45		Trichloroethene	0.414	0.379	8.5	85	-0.03
46		Methyl Cyclohexane	0.400	0.361	9.8	83	-0.02
47		1,2-Dichloropropane	0.285	0.248	13.0	80	-0.03
48		Dibromomethane	0.337	0.305	9.5	84	-0.02
49		1,4-Dioxane	0.003	0.002	33.3#	76	-0.03
50		Methyl Methacrylate	0.181	0.147	18.8	75	-0.03
51		Bromodichloromethane	0.587	0.545	7.2	85	-0.02
52		2-Nitropropane	0.048	0.042	12.5	85	-0.03
53		2-Chloroethyl vinyl ether	0.105	0.084	20.0	75	-0.03
54		4-Methyl-2-Pentanone	0.086	0.069	19.8	77	-0.03
55		cis-1,3-Dichloropropene	0.436	0.394	9.6	82	-0.03
56		Toluene	0.545	0.494	9.4	83	-0.03
57		trans-1,3-Dichloropropene	0.363	0.334	8.0	84	-0.03
58		1,1,2-Trichloroethane	0.246	0.217	11.8	82	-0.03
59	I	Chlorobenzene-d5	1.000	1.000	0.0	86	-0.02
60	S	Toluene-d8 (SURR)	1.083	0.979	9.6	84	-0.02
61		2-Hexanone	0.174	0.134	23.0	78	-0.01
62		Ethyl Methacrylate	0.380	0.322	15.3	80	-0.03
63		1,3-Dichloropropane	0.462	0.403	12.8	81	-0.03
64		Tetrachloroethene	0.490	0.462	5.7	87	-0.03
65		Dibromochloromethane	0.797	0.726	8.9	84	-0.03
66		1,2-Dibromoethane	0.607	0.540	11.0	83	-0.03
67		1-Chlorohexane	0.516	0.476	7.8	86	-0.03
68		Chlorobenzene	0.931	0.863	7.3	85	-0.03
69		1,1,1,2-Tetrachloroethane	0.543	0.497	8.5	86	-0.02
70		Ethylbenzene	1.292	1.183	8.4	84	-0.03
71		Xylene P,M	0.534	0.492	7.9	85	-0.03
72		Xylene O	0.508	0.462	9.1	84	-0.03
73		Styrene	0.868	0.795	8.4	84	-0.02
74		Bromoform	0.583	0.539	7.5	86	-0.03
75		cis-1,4-Dichloro-2-butene	0.115	0.098	14.8	76	-0.03
76	S	Bromofluorobenzene (SURR)	0.733	0.671	8.5	84	-0.02
77	I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	88	-0.03
78		Isopropylbenzene	2.587	2.306	10.9	85	-0.03
79		Trans-1,4-Dichloro-2-Butene	0.155	0.136	12.3	82	-0.03
80		1,2,3-Trichloropropane	0.748	0.607	18.9	82	-0.03
81		Bromobenzene	0.910	0.826	9.2	86	-0.03
82		1,1,2,2-Tetrachloroethane	0.982	0.813	17.2	83	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH062706\M415192.D Vial: 2
Acq On : 27 Jun 2006 8:47 am Operator: MD
Sample : BPF0219-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF		%Dev	Area%	Dev(min)
83	n-Propylbenzene	3.314	2.992		9.7	83	-0.03
84	2-Chlorotoluene	1.625	1.458		10.3	90	-0.02
85	4-Chlorotoluene	2.186	1.940		11.3	85	-0.03
86	1,3,5-Trimethylbenzene	2.128	1.895		10.9	85	-0.02
87	Pentachloroethane	2.994	2.694		10.0	85	-0.03
88	tert-Butylbenzene	2.994	2.694		10.0	85	-0.03
89	1,2,4-Trimethylbenzene	2.152	1.911		11.2	85	-0.03
90	sec-Butylbenzene	3.215	2.884		10.3	85	-0.03
91	1,3 Dichlorobenzene	1.545	1.398		9.5	86	-0.03
92	4-Isopropyltoluene	2.609	2.366		9.3	86	-0.03
93	1,4 Dichlorobenzene	1.612	1.448		10.2	86	-0.03
94	n-Butylbenzene	2.333	2.109		9.6	85	-0.02
95	1,2 Dichlorobenzene	1.404	1.253		10.8	86	-0.03
96	Hexachloroethane	0.993	0.910		8.4	86	-0.02
97	1,2-Dibromo-3-Chloropropane	0.174	0.154		11.5	86	-0.03
98	1,2,4-Trichlorobenzene	1.170	1.065		9.0	88	-0.03
99	Hexachlorobutadiene	0.834	0.792		5.0	91	-0.03
100	Naphthalene	1.681	1.314		21.8	82	-0.03
101	1,2,3-Trichlorobenzene	1.006	0.888		11.7	89	-0.03

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH062706\M415192.D Vial: 2
Acq On : 27 Jun 2006 8:47 am Operator: MD
Sample : BPF0219-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 11:38 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.22	96	3702641	25.00 ug/l	-0.03
59) Chlorobenzene-d5	11.55	117	3194712	25.00 ug/l	-0.02
77) 1,4 Dichlorobenzene-D4	15.96	152	1891145	25.00 ug/l	-0.03
System Monitoring Compounds					
36) Dibromofluoromethane(SURR)	5.14	111	2572157	22.90 ug/l	-0.03
Spiked Amount 25.000	Range 70 - 130		Recovery = 91.60%		
42) 1,2-Dichloroethane-d4(SURR	5.66	65	841512	23.11 ug/l	-0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 92.44%		
60) Toluene-d8 (SURR)	8.98	98	3127411	22.60 ug/l	-0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 90.40%		
76) Bromofluorobenzene (SURR)	13.77	95	2143409	22.87 ug/l	-0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 91.48%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.21	85	1146259	23.23 ug/l	99
3) Chloromethane	1.33	50	509044	21.70 ug/l	100
4) Vinyl Chloride	1.40	62	572819	22.29 ug/l	99
5) Bromomethane	1.63	94	528209	22.35 ug/l	100
6) Chloroethane	1.70	64	307172	26.83 ug/l	98
7) Trichlorofluoromethane	1.88	101	2010493	23.25 ug/l	100
8) Diethyl ether	2.13	59	331364	21.26 ug/l	96
9) Acrolein	2.22	56	59252	19.38 ug/l	98
10) 1,1,2-Trichloro-1,2,2-trif	2.31	101	1953848	22.94 ug/l	92
11) Acetone	2.37	58	138670	98.63 ug/l	97
12) Iodomethane	2.43	142	2127507	25.10 ug/l	99
13) Carbon Disulfide	2.47	76	2034306	22.07 ug/l	100
14) 1,1-Dichloroethene	2.29	96	832622	22.77 ug/l	99
15) Allyl Chloride	2.62	41	792467	21.62 ug/l	95
16) Methyl Acetate	2.67	43	299449	21.40 ug/l	99
17) Methylene Chloride	2.76	84	734518	21.75 ug/l	98
18) Tertiary-butyl Alcohol	2.95	59	285259	114.10 ug/l	96
19) Methyl tert-Butyl Ether	3.07	73	1507724	23.98 ug/l	98
20) Acrylonitrile	3.02	53	126098	23.35 ug/l	97
21) trans-1,2-Dichloroethene	3.02	96	1065020	25.22 ug/l	98
22) 1,1-Dichloroethane	3.53	63	1505366	22.27 ug/l	100
23) Chloroprene	3.65	53	935774	22.80 ug/l	98
24) Vinyl Acetate	3.65	43	2095870	20.44 ug/l	98
25) Di-isopropyl ether	3.69	45	2096990	20.82 ug/l	88
26) Ethyl tertiary-butyl ether	4.21	59	1998855	21.61 ug/l	99
27) 2-Butanone	4.45	72	272881	102.05 ug/l	92
28) cis-1,2 Dichloroethene	4.36	96	1082407	22.70 ug/l	100

(#) = qualifier out of range (m) = manual integration

Data File : Q:/VOA/MS4_MH/MH0606/MH062706\M415192.D Vial: 2
Acq On : 27 Jun 2006 8:47 am Operator: MD
Sample : BPF0219-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 11:38 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29)	2,2-Dichloropropane	4.35	77	1357488	23.49 ug/l	98
30)	Methyl Acrylate	4.60	55	561279	20.47 ug/l	100
31)	Methacrylonitrile	4.77	41	308794	19.37 ug/l	97
32)	Bromochloromethane	4.74	128	827870	23.15 ug/l	96
33)	Tetrahydrofuran	4.81	42	145209	20.27 ug/l	96
34)	Chloroform	4.88	83	1953551	23.00 ug/l	100
35)	1,1,1-Trichloroethane	5.12	97	1916470	23.09 ug/l	99
37)	Cyclohexane	5.20	56	988932	21.34 ug/l	96
38)	1-Chlorobutane	5.33	56	1353232	22.17 ug/l	100
39)	1,1-Dichloropropene	5.41	75	1325676	22.83 ug/l	98
40)	Carbon Tetrachloride	5.38	117	2064546	22.70 ug/l	99
41)	Benzene	5.73	78	2301342	21.99 ug/l	100
43)	1,2-Dichloroethane	5.78	62	882518	23.17 ug/l	98
44)	Tertiary-amyl methyl ether	6.00	73	1850314	21.87 ug/l	99
45)	Trichloroethene	6.83	95	1403847	22.91 ug/l	99
46)	Methyl Cyclohexane	7.13	83	1337870	22.58 ug/l	97
47)	1,2-Dichloropropane	7.21	63	917060	21.72 ug/l	98
48)	Dibromomethane	7.40	93	1130190	22.64 ug/l	94
49)	1,4-Dioxane	7.50	88	152973	402.23 ug/l	97
50)	Methyl Methacrylate	7.55	41	542923	20.23 ug/l	96
51)	Bromodichloromethane	7.73	83	2016099	23.21 ug/l	99
52)	2-Nitropropane	8.14	43	153798	21.81 ug/l	100
53)	2-Chloroethyl vinyl ether	8.34	63	312342	22.81 ug/l	97
54)	4-Methyl-2-Pentanone	8.87	58	1270023	99.51 ug/l	98
55)	cis-1,3-Dichloropropene	8.52	75	1460092	22.63 ug/l	97
56)	Toluene	9.08	92	1829079	22.67 ug/l	99
57)	trans-1,3-Dichloropropene	9.54	75	1236403	23.00 ug/l	99
58)	1,1,2-Trichloroethane	9.84	83	803934	22.03 ug/l	99
61)	2-Hexanone	10.39	43	2132812	102.88 ug/l	97
62)	Ethyl Methacrylate	9.81	69	1029677	21.18 ug/l	96
63)	1,3-Dichloropropane	10.12	76	1285991	21.77 ug/l	99
64)	Tetrachloroethene	10.03	164	1475604	23.54 ug/l	98
65)	Dibromochloromethane	10.51	129	2319498	22.78 ug/l	100
66)	1,2-Dibromoethane	10.66	107	1724096	22.22 ug/l	99
67)	1-Chlorohexane	11.67	91	1522101	23.10 ug/l	100
68)	Chlorobenzene	11.60	112	2755757	23.17 ug/l	99
69)	1,1,1,2-Tetrachloroethane	11.79	131	1588695	22.88 ug/l	98
70)	Ethylbenzene	11.85	91	3779426	22.89 ug/l	100
71)	Xylene P,M	12.09	106	3141439	46.04 ug/l	99
72)	Xylene O	12.80	106	1475619	22.74 ug/l	100
73)	Styrene	12.85	104	2540273	22.89 ug/l	99
74)	Bromoform	13.11	173	1722934	23.13 ug/l	95

(#) = qualifier out of range (m) = manual integration
M415192.D LO060606.M Tue Jun 27 11:39:13 2006 MS4 Page 2

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH062706\M415192.D Vial: 2
Acq On : 27 Jun 2006 8:47 am Operator: MD
Sample : BPF0219-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 11:38 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
75)	cis-1,4-Dichloro-2-butene	13.71	75	311548m	21.15	ug/l	
78)	Isopropylbenzene	13.52	105	4361636	22.29	ug/l	99
79)	Trans-1,4-Dichloro-2-Buten	14.25	53	256396	21.82	ug/l	97
80)	1,2,3-Trichloropropane	14.16	75	1147773	20.27	ug/l	100
81)	Bromobenzene	13.99	156	1561867	22.69	ug/l	99
82)	1,1,2,2-Tetrachloroethane	14.14	83	1537065	22.06	ug/l	99
83)	n-Propylbenzene	14.30	91	5657705	22.57	ug/l	99
84)	2-Chlorotoluene	14.39	91	2757025m	22.43	ug/l	
85)	4-Chlorotoluene	14.62	91	3668331	22.18	ug/l	99
86)	1,3,5-Trimethylbenzene	14.68	105	3583096	22.26	ug/l	99
87)	Pentachloroethane	15.26	119	5095032	22.50	ug/l	99
88)	tert-Butylbenzene	15.26	119	5095032	22.50	ug/l	100
89)	1,2,4-Trimethylbenzene	15.36	105	3614526	22.21	ug/l	100
90)	sec-Butylbenzene	15.69	105	5454361	22.43	ug/l	100
91)	1,3 Dichlorobenzene	15.82	146	2644621	22.62	ug/l	99
92)	4-Isopropyltoluene	16.00	119	4473997	22.67	ug/l	100
93)	1,4 Dichlorobenzene	16.00	146	2739000	22.46	ug/l	99
94)	n-Butylbenzene	16.79	91	3988973	22.61	ug/l	98
95)	1,2 Dichlorobenzene	16.69	146	2369785	22.32	ug/l	99
96)	Hexachloroethane	17.16	117	1721849	22.93	ug/l	96
97)	1,2-Dibromo-3-Chloropropan	18.23	75	291377	22.11	ug/l	96
98)	1,2,4-Trichlorobenzene	20.14	180	2014674	22.76	ug/l	99
99)	Hexachlorobutadiene	20.54	225	1497206	23.73	ug/l	100
100)	Naphthalene	20.58	128	2485245	21.62	ug/l	100
101)	1,2,3-Trichlorobenzene	20.99	180	1679912	24.12	ug/l	100

(#) = qualifier out of range (m) = manual integration

Volatile Organics Data Package

MeOH

Volatile Organics
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1501
Date Sampled: 06/22/06 12:30
Percent Solids: 81
Initial Volume: 23.1
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-05
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	104	1	06/28/06
1,1,1-Trichloroethane	**863**	ug/Kg dry	51.8	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	51.8	1	06/28/06
1,1,2-Trichloroethane	ND	ug/Kg dry	51.8	1	06/28/06
1,1-Dichloroethane	**51.8**	ug/Kg dry	51.8	1	06/28/06
1,1-Dichloroethene	ND	ug/Kg dry	51.8	1	06/28/06
1,1-Dichloropropene	ND	ug/Kg dry	51.8	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	51.8	1	06/28/06
1,2,3-Trichloropropane	ND	ug/Kg dry	51.8	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	51.8	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	51.8	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	259	1	06/28/06
1,2-Dibromoethane	ND	ug/Kg dry	51.8	1	06/28/06
1,2-Dichlorobenzene	ND	ug/Kg dry	51.8	1	06/28/06
1,2-Dichloroethane	ND	ug/Kg dry	51.8	1	06/28/06
1,2-Dichloropropane	ND	ug/Kg dry	51.8	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	51.8	1	06/28/06
1,3-Dichlorobenzene	ND	ug/Kg dry	51.8	1	06/28/06
1,3-Dichloropropane	ND	ug/Kg dry	51.8	1	06/28/06
1,4-Dichlorobenzene	ND	ug/Kg dry	51.8	1	06/28/06
1,4-Dioxane - Screen	ND	ug/Kg dry	5180	1	06/28/06
1-Chlorohexane	ND	ug/Kg dry	51.8	1	06/28/06
2,2-Dichloropropane	ND	ug/Kg dry	104	1	06/28/06
2-Butanone	ND	ug/Kg dry	1300	1	06/28/06
2-Chlorotoluene	ND	ug/Kg dry	51.8	1	06/28/06
2-Hexanone	ND	ug/Kg dry	518	1	06/28/06
4-Chlorotoluene	ND	ug/Kg dry	51.8	1	06/28/06
4-Isopropyltoluene	ND	ug/Kg dry	51.8	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	518	1	06/28/06
Acetone	ND	ug/Kg dry	1300	1	06/28/06
Benzene	ND	ug/Kg dry	51.8	1	06/28/06
Bromobenzene	ND	ug/Kg dry	51.8	1	06/28/06
Bromochloromethane	ND	ug/Kg dry	51.8	1	06/28/06
Bromodichloromethane	ND	ug/Kg dry	51.8	1	06/28/06
Bromoform	ND	ug/Kg dry	51.8	1	06/28/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1501
Date Sampled: 06/22/06 12:30
Percent Solids: 81
Initial Volume: 23.1
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-05
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Bromomethane	ND	ug/Kg dry	104	1	06/28/06
Carbon Disulfide	ND	ug/Kg dry	51.8	1	06/28/06
Carbon Tetrachloride	ND	ug/Kg dry	51.8	1	06/28/06
Chlorobenzene	ND	ug/Kg dry	51.8	1	06/28/06
Chloroethane	ND	ug/Kg dry	104	1	06/28/06
Chloroform	ND	ug/Kg dry	51.8	1	06/28/06
Chloromethane	ND	ug/Kg dry	104	1	06/28/06
cis-1,2-Dichloroethene	**296**	ug/Kg dry	51.8	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	51.8	1	06/28/06
Dibromochloromethane	ND	ug/Kg dry	51.8	1	06/28/06
Dibromomethane	ND	ug/Kg dry	51.8	1	06/28/06
Dichlorodifluoromethane	ND	ug/Kg dry	51.8	1	06/28/06
Diethyl Ether	ND	ug/Kg dry	51.8	1	06/28/06
Di-isopropyl ether	ND	ug/Kg dry	51.8	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	51.8	1	06/28/06
Ethylbenzene	ND	ug/Kg dry	51.8	1	06/28/06
Hexachlorobutadiene	ND	ug/Kg dry	51.8	1	06/28/06
Isopropylbenzene	ND	ug/Kg dry	51.8	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	51.8	1	06/28/06
Methylene Chloride	ND	ug/Kg dry	259	1	06/28/06
Naphthalene	ND	ug/Kg dry	51.8	1	06/28/06
n-Butylbenzene	ND	ug/Kg dry	51.8	1	06/28/06
n-Propylbenzene	ND	ug/Kg dry	51.8	1	06/28/06
sec-Butylbenzene	ND	ug/Kg dry	51.8	1	06/28/06
Styrene	ND	ug/Kg dry	51.8	1	06/28/06
tert-Butylbenzene	ND	ug/Kg dry	51.8	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	51.8	1	06/28/06
Tetrachloroethene	ND	ug/Kg dry	51.8	1	06/28/06
Tetrahydrofuran	ND	ug/Kg dry	259	1	06/28/06
Toluene	ND	ug/Kg dry	51.8	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	51.8	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	51.8	1	06/28/06
Trichloroethene	**1470**	ug/Kg dry	51.8	1	06/28/06
Trichlorofluoromethane	ND	ug/Kg dry	51.8	1	06/28/06
Vinyl Acetate	ND	ug/Kg dry	259	1	06/28/06
Vinyl Chloride	ND	ug/Kg dry	51.8	1	06/28/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1501
Date Sampled: 06/22/06 12:30
Percent Solids: 81
Initial Volume: 23.1
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-05
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Xylene O	ND	ug/Kg dry	51.8	1	06/28/06
Xylene P,M	ND	ug/Kg dry	104	1	06/28/06
Xylenes (Total)	ND	ug/Kg dry	156		06/28/06

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*85 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*97 %*		*70-130*
Surrogate: Dibromofluoromethane	*102 %*		*70-130*
Surrogate: Toluene-d8	*101 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1503
Date Sampled: 06/22/06 12:55
Percent Solids: 90
Initial Volume: 24.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-06
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	78.0	1	06/28/06
1,1,1-Trichloroethane	**102**	ug/Kg dry	39.0	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	39.0	1	06/28/06
1,1,2-Trichloroethane	ND	ug/Kg dry	39.0	1	06/28/06
1,1-Dichloroethane	ND	ug/Kg dry	39.0	1	06/28/06
1,1-Dichloroethene	ND	ug/Kg dry	39.0	1	06/28/06
1,1-Dichloropropene	ND	ug/Kg dry	39.0	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	39.0	1	06/28/06
1,2,3-Trichloropropane	ND	ug/Kg dry	39.0	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	39.0	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	39.0	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	195	1	06/28/06
1,2-Dibromoethane	ND	ug/Kg dry	39.0	1	06/28/06
1,2-Dichlorobenzene	ND	ug/Kg dry	39.0	1	06/28/06
1,2-Dichloroethane	ND	ug/Kg dry	39.0	1	06/28/06
1,2-Dichloropropane	ND	ug/Kg dry	39.0	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	39.0	1	06/28/06
1,3-Dichlorobenzene	ND	ug/Kg dry	39.0	1	06/28/06
1,3-Dichloropropane	ND	ug/Kg dry	39.0	1	06/28/06
1,4-Dichlorobenzene	ND	ug/Kg dry	39.0	1	06/28/06
1,4-Dioxane - Screen	ND	ug/Kg dry	3900	1	06/28/06
1-Chlorohexane	ND	ug/Kg dry	39.0	1	06/28/06
2,2-Dichloropropane	ND	ug/Kg dry	78.0	1	06/28/06
2-Butanone	ND	ug/Kg dry	976	1	06/28/06
2-Chlorotoluene	ND	ug/Kg dry	39.0	1	06/28/06
2-Hexanone	ND	ug/Kg dry	390	1	06/28/06
4-Chlorotoluene	ND	ug/Kg dry	39.0	1	06/28/06
4-Isopropyltoluene	ND	ug/Kg dry	39.0	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	390	1	06/28/06
Acetone	ND	ug/Kg dry	976	1	06/28/06
Benzene	ND	ug/Kg dry	39.0	1	06/28/06
Bromobenzene	ND	ug/Kg dry	39.0	1	06/28/06
Bromochloromethane	ND	ug/Kg dry	39.0	1	06/28/06
Bromodichloromethane	ND	ug/Kg dry	39.0	1	06/28/06
Bromoform	ND	ug/Kg dry	39.0	1	06/28/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1503
Date Sampled: 06/22/06 12:55
Percent Solids: 90
Initial Volume: 24.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-06
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Bromomethane	ND	ug/Kg dry	78.0	1	06/28/06
Carbon Disulfide	ND	ug/Kg dry	39.0	1	06/28/06
Carbon Tetrachloride	ND	ug/Kg dry	39.0	1	06/28/06
Chlorobenzene	ND	ug/Kg dry	39.0	1	06/28/06
Chloroethane	ND	ug/Kg dry	78.0	1	06/28/06
Chloroform	ND	ug/Kg dry	39.0	1	06/28/06
Chloromethane	ND	ug/Kg dry	78.0	1	06/28/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	39.0	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	39.0	1	06/28/06
Dibromochloromethane	ND	ug/Kg dry	39.0	1	06/28/06
Dibromomethane	ND	ug/Kg dry	39.0	1	06/28/06
Dichlorodifluoromethane	ND	ug/Kg dry	39.0	1	06/28/06
Diethyl Ether	ND	ug/Kg dry	39.0	1	06/28/06
Di-isopropyl ether	ND	ug/Kg dry	39.0	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	39.0	1	06/28/06
Ethylbenzene	ND	ug/Kg dry	39.0	1	06/28/06
Hexachlorobutadiene	ND	ug/Kg dry	39.0	1	06/28/06
Isopropylbenzene	ND	ug/Kg dry	39.0	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	39.0	1	06/28/06
Methylene Chloride	ND	ug/Kg dry	195	1	06/28/06
Naphthalene	ND	ug/Kg dry	39.0	1	06/28/06
n-Butylbenzene	ND	ug/Kg dry	39.0	1	06/28/06
n-Propylbenzene	ND	ug/Kg dry	39.0	1	06/28/06
sec-Butylbenzene	ND	ug/Kg dry	39.0	1	06/28/06
Styrene	ND	ug/Kg dry	39.0	1	06/28/06
tert-Butylbenzene	ND	ug/Kg dry	39.0	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	39.0	1	06/28/06
Tetrachloroethene	ND	ug/Kg dry	39.0	1	06/28/06
Tetrahydrofuran	ND	ug/Kg dry	195	1	06/28/06
Toluene	ND	ug/Kg dry	39.0	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	39.0	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	39.0	1	06/28/06
Trichloroethene	**109**	ug/Kg dry	39.0	1	06/28/06
Trichlorofluoromethane	ND	ug/Kg dry	39.0	1	06/28/06
Vinyl Acetate	ND	ug/Kg dry	195	1	06/28/06
Vinyl Chloride	ND	ug/Kg dry	39.0	1	06/28/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1503
Date Sampled: 06/22/06 12:55
Percent Solids: 90
Initial Volume: 24.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-06
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Xylene O	ND	ug/Kg dry	39.0	1	06/28/06
Xylene P,M	ND	ug/Kg dry	78.0	1	06/28/06
Xylenes (Total)	ND	ug/Kg dry	117		06/28/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*78 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*94 %*		*70-130*
Surrogate: Dibromofluoromethane	*97 %*		*70-130*
Surrogate: Toluene-d8	*97 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1801
Date Sampled: 06/22/06 14:00
Percent Solids: 13
Initial Volume: 9.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-09
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	1830	1	06/28/06
1,1,1-Trichloroethane	ND	ug/Kg dry	917	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	917	1	06/28/06
1,1,2-Trichloroethane	ND	ug/Kg dry	917	1	06/28/06
1,1-Dichloroethane	ND	ug/Kg dry	917	1	06/28/06
1,1-Dichloroethene	ND	ug/Kg dry	917	1	06/28/06
1,1-Dichloropropene	ND	ug/Kg dry	917	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	917	1	06/28/06
1,2,3-Trichloropropane	ND	ug/Kg dry	917	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	917	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	917	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	4590	1	06/28/06
1,2-Dibromoethane	ND	ug/Kg dry	917	1	06/28/06
1,2-Dichlorobenzene	ND	ug/Kg dry	917	1	06/28/06
1,2-Dichloroethane	ND	ug/Kg dry	917	1	06/28/06
1,2-Dichloropropane	ND	ug/Kg dry	917	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	917	1	06/28/06
1,3-Dichlorobenzene	ND	ug/Kg dry	917	1	06/28/06
1,3-Dichloropropane	ND	ug/Kg dry	917	1	06/28/06
1,4-Dichlorobenzene	ND	ug/Kg dry	917	1	06/28/06
1,4-Dioxane - Screen	ND	ug/Kg dry	91700	1	06/28/06
1-Chlorohexane	ND	ug/Kg dry	917	1	06/28/06
2,2-Dichloropropane	ND	ug/Kg dry	1830	1	06/28/06
2-Butanone	ND	ug/Kg dry	22900	1	06/28/06
2-Chlorotoluene	ND	ug/Kg dry	917	1	06/28/06
2-Hexanone	ND	ug/Kg dry	9170	1	06/28/06
4-Chlorotoluene	ND	ug/Kg dry	917	1	06/28/06
4-Isopropyltoluene	ND	ug/Kg dry	917	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	9170	1	06/28/06
Acetone	ND	ug/Kg dry	22900	1	06/28/06
Benzene	ND	ug/Kg dry	917	1	06/28/06
Bromobenzene	ND	ug/Kg dry	917	1	06/28/06
Bromochloromethane	ND	ug/Kg dry	917	1	06/28/06
Bromodichloromethane	ND	ug/Kg dry	917	1	06/28/06
Bromoform	ND	ug/Kg dry	917	1	06/28/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1801
Date Sampled: 06/22/06 14:00
Percent Solids: 13
Initial Volume: 9.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-09
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Bromomethane	ND	ug/Kg dry	1830	1	06/28/06
Carbon Disulfide	ND	ug/Kg dry	917	1	06/28/06
Carbon Tetrachloride	ND	ug/Kg dry	917	1	06/28/06
Chlorobenzene	ND	ug/Kg dry	917	1	06/28/06
Chloroethane	ND	ug/Kg dry	1830	1	06/28/06
Chloroform	ND	ug/Kg dry	917	1	06/28/06
Chloromethane	ND	ug/Kg dry	1830	1	06/28/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	917	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	917	1	06/28/06
Dibromochloromethane	ND	ug/Kg dry	917	1	06/28/06
Dibromomethane	ND	ug/Kg dry	917	1	06/28/06
Dichlorodifluoromethane	ND	ug/Kg dry	917	1	06/28/06
Diethyl Ether	ND	ug/Kg dry	917	1	06/28/06
Di-isopropyl ether	ND	ug/Kg dry	917	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	917	1	06/28/06
Ethylbenzene	ND	ug/Kg dry	917	1	06/28/06
Hexachlorobutadiene	ND	ug/Kg dry	917	1	06/28/06
Isopropylbenzene	ND	ug/Kg dry	917	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	917	1	06/28/06
Methylene Chloride	ND	ug/Kg dry	4590	1	06/28/06
Naphthalene	ND	ug/Kg dry	917	1	06/28/06
n-Butylbenzene	ND	ug/Kg dry	917	1	06/28/06
n-Propylbenzene	ND	ug/Kg dry	917	1	06/28/06
sec-Butylbenzene	ND	ug/Kg dry	917	1	06/28/06
Styrene	ND	ug/Kg dry	917	1	06/28/06
tert-Butylbenzene	ND	ug/Kg dry	917	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	917	1	06/28/06
Tetrachloroethene	ND	ug/Kg dry	917	1	06/28/06
Tetrahydrofuran	ND	ug/Kg dry	4590	1	06/28/06
Toluene	ND	ug/Kg dry	917	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	917	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	917	1	06/28/06
Trichloroethene	ND	ug/Kg dry	917	1	06/28/06
Trichlorofluoromethane	ND	ug/Kg dry	917	1	06/28/06
Vinyl Acetate	ND	ug/Kg dry	4590	1	06/28/06
Vinyl Chloride	ND	ug/Kg dry	917	1	06/28/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1801
Date Sampled: 06/22/06 14:00
Percent Solids: 13
Initial Volume: 9.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-09
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Xylene O	ND	ug/Kg dry	917	1	06/28/06
Xylene P,M	ND	ug/Kg dry	1830	1	06/28/06
Xylenes (Total)	ND	ug/Kg dry	2750		06/28/06

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*81 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*93 %*		*70-130*
Surrogate: Dibromofluoromethane	*99 %*		*70-130*
Surrogate: Toluene-d8	*98 %*		*70-130*

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Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1901
Date Sampled: 06/22/06 14:35
Percent Solids: 21
Initial Volume: 11.6
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-11
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	992	1	06/28/06
1,1,1-Trichloroethane	**635**	ug/Kg dry	496	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	496	1	06/28/06
1,1,2-Trichloroethane	ND	ug/Kg dry	496	1	06/28/06
1,1-Dichloroethane	**7920**	ug/Kg dry	496	1	06/28/06
1,1-Dichloroethene	**11300**	ug/Kg dry	496	1	06/28/06
1,1-Dichloropropene	ND	ug/Kg dry	496	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	496	1	06/28/06
1,2,3-Trichloropropane	ND	ug/Kg dry	496	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	496	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	496	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	2480	1	06/28/06
1,2-Dibromoethane	ND	ug/Kg dry	496	1	06/28/06
1,2-Dichlorobenzene	ND	ug/Kg dry	496	1	06/28/06
1,2-Dichloroethane	ND	ug/Kg dry	496	1	06/28/06
1,2-Dichloropropane	ND	ug/Kg dry	496	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	496	1	06/28/06
1,3-Dichlorobenzene	ND	ug/Kg dry	496	1	06/28/06
1,3-Dichloropropane	ND	ug/Kg dry	496	1	06/28/06
1,4-Dichlorobenzene	ND	ug/Kg dry	496	1	06/28/06
1,4-Dioxane - Screen	ND	ug/Kg dry	49600	1	06/28/06
1-Chlorohexane	ND	ug/Kg dry	496	1	06/28/06
2,2-Dichloropropane	ND	ug/Kg dry	992	1	06/28/06
2-Butanone	ND	ug/Kg dry	12400	1	06/28/06
2-Chlorotoluene	ND	ug/Kg dry	496	1	06/28/06
2-Hexanone	ND	ug/Kg dry	4960	1	06/28/06
4-Chlorotoluene	ND	ug/Kg dry	496	1	06/28/06
4-Isopropyltoluene	ND	ug/Kg dry	496	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	4960	1	06/28/06
Acetone	ND	ug/Kg dry	12400	1	06/28/06
Benzene	ND	ug/Kg dry	496	1	06/28/06
Bromobenzene	ND	ug/Kg dry	496	1	06/28/06
Bromochloromethane	ND	ug/Kg dry	496	1	06/28/06
Bromodichloromethane	ND	ug/Kg dry	496	1	06/28/06
Bromoform	ND	ug/Kg dry	496	1	06/28/06

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1901
Date Sampled: 06/22/06 14:35
Percent Solids: 21
Initial Volume: 11.6
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-11
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Bromomethane	ND	ug/Kg dry	992		1	06/28/06
Carbon Disulfide	ND	ug/Kg dry	496		1	06/28/06
Carbon Tetrachloride	ND	ug/Kg dry	496		1	06/28/06
Chlorobenzene	ND	ug/Kg dry	496		1	06/28/06
Chloroethane	ND	ug/Kg dry	992		1	06/28/06
Chloroform	ND	ug/Kg dry	496		1	06/28/06
Chloromethane	ND	ug/Kg dry	992		1	06/28/06
cis-1,2-Dichloroethene	E **173000**	ug/Kg dry	496		1	06/28/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	496		1	06/28/06
Dibromochloromethane	ND	ug/Kg dry	496		1	06/28/06
Dibromomethane	ND	ug/Kg dry	496		1	06/28/06
Dichlorodifluoromethane	ND	ug/Kg dry	496		1	06/28/06
Diethyl Ether	ND	ug/Kg dry	496		1	06/28/06
Di-isopropyl ether	ND	ug/Kg dry	496		1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	496	REVISED JUL 25 2006	1	06/28/06
Ethylbenzene	ND	ug/Kg dry	496		1	06/28/06
Hexachlorobutadiene	ND	ug/Kg dry	496		1	06/28/06
Isopropylbenzene	ND	ug/Kg dry	496		1	06/28/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	496		1	06/28/06
Methylene Chloride	ND	ug/Kg dry	2480		1	06/28/06
Naphthalene	ND	ug/Kg dry	496		1	06/28/06
n-Butylbenzene	ND	ug/Kg dry	496		1	06/28/06
n-Propylbenzene	ND	ug/Kg dry	496		1	06/28/06
sec-Butylbenzene	ND	ug/Kg dry	496		1	06/28/06
Styrene	ND	ug/Kg dry	496		1	06/28/06
tert-Butylbenzene	ND	ug/Kg dry	496		1	06/28/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	496		1	06/28/06
Tetrachloroethene	**18100**	ug/Kg dry	496		1	06/28/06
Tetrahydrofuran	ND	ug/Kg dry	2480		1	06/28/06
Toluene	ND	ug/Kg dry	496		1	06/28/06
trans-1,2-Dichloroethene	**2790**	ug/Kg dry	496		1	06/28/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	496		1	06/28/06
Trichloroethene	**58400**	ug/Kg dry	496		1	06/28/06
Trichlorofluoromethane	ND	ug/Kg dry	496		1	06/28/06
Vinyl Acetate	ND	ug/Kg dry	2480		1	06/28/06
Vinyl Chloride	ND	ug/Kg dry	496		1	06/28/06

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1901
Date Sampled: 06/22/06 14:35
Percent Solids: 21
Initial Volume: 11.6
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-11
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Xylene O	ND	ug/Kg dry	496	1	06/28/06
Xylene P,M	ND	ug/Kg dry	992	1	06/28/06
Xylenes (Total)	ND	ug/Kg dry	1490		06/28/06

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*84 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*80 %*		*70-130*
Surrogate: Dibromofluoromethane	*97 %*		*70-130*
Surrogate: Toluene-d8	*88 %*		*70-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1901
Date Sampled: 06/22/06 14:35
Percent Solids: 21
Initial Volume: 11.6
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-11RE1
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	9920	10	06/29/06
1,1,1-Trichloroethane	ND	ug/Kg dry	4960	10	06/29/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	4960	10	06/29/06
1,1,2-Trichloroethane	ND	ug/Kg dry	4960	10	06/29/06
1,1-Dichloroethane	**7740**	ug/Kg dry	4960	10	06/29/06
1,1-Dichloroethene	ND	ug/Kg dry	4960	10	06/29/06
1,1-Dichloropropene	ND	ug/Kg dry	4960	10	06/29/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	4960	10	06/29/06
1,2,3-Trichloropropane	ND	ug/Kg dry	4960	10	06/29/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	4960	10	06/29/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	4960	10	06/29/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	24800	10	06/29/06
1,2-Dibromoethane	ND	ug/Kg dry	4960	10	06/29/06
1,2-Dichlorobenzene	ND	ug/Kg dry	4960	10	06/29/06
1,2-Dichloroethane	ND	ug/Kg dry	4960	10	06/29/06
1,2-Dichloropropane	ND	ug/Kg dry	4960	10	06/29/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	4960	10	06/29/06
1,3-Dichlorobenzene	ND	ug/Kg dry	4960	10	06/29/06
1,3-Dichloropropane	ND	ug/Kg dry	4960	10	06/29/06
1,4-Dichlorobenzene	ND	ug/Kg dry	4960	10	06/29/06
1,4-Dioxane - Screen	ND	ug/Kg dry	496000	10	06/29/06
1-Chlorohexane	ND	ug/Kg dry	4960	10	06/29/06
2,2-Dichloropropane	ND	ug/Kg dry	9920	10	06/29/06
2-Butanone	ND	ug/Kg dry	124000	10	06/29/06
2-Chlorotoluene	ND	ug/Kg dry	4960	10	06/29/06
2-Hexanone	ND	ug/Kg dry	49600	10	06/29/06
4-Chlorotoluene	ND	ug/Kg dry	4960	10	06/29/06
4-Isopropyltoluene	ND	ug/Kg dry	4960	10	06/29/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	49600	10	06/29/06
Acetone	ND	ug/Kg dry	124000	10	06/29/06
Benzene	ND	ug/Kg dry	4960	10	06/29/06
Bromobenzene	ND	ug/Kg dry	4960	10	06/29/06
Bromochloromethane	ND	ug/Kg dry	4960	10	06/29/06
Bromodichloromethane	ND	ug/Kg dry	4960	10	06/29/06
Bromoform	ND	ug/Kg dry	4960	10	06/29/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1901
Date Sampled: 06/22/06 14:35
Percent Solids: 21
Initial Volume: 11.6
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-11RE1
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Bromomethane	ND	ug/Kg dry	9920	10	06/29/06
Carbon Disulfide	ND	ug/Kg dry	4960	10	06/29/06
Carbon Tetrachloride	ND	ug/Kg dry	4960	10	06/29/06
Chlorobenzene	ND	ug/Kg dry	4960	10	06/29/06
Chloroethane	ND	ug/Kg dry	9920	10	06/29/06
Chloroform	ND	ug/Kg dry	4960	10	06/29/06
Chloromethane	ND	ug/Kg dry	9920	10	06/29/06
cis-1,2-Dichloroethene	**175000**	ug/Kg dry	4960	10	06/29/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	4960	10	06/29/06
Dibromochloromethane	ND	ug/Kg dry	4960	10	06/29/06
Dibromomethane	ND	ug/Kg dry	4960	10	06/29/06
Dichlorodifluoromethane	ND	ug/Kg dry	4960	10	06/29/06
Diethyl Ether	ND	ug/Kg dry	4960	10	06/29/06
Di-isopropyl ether	ND	ug/Kg dry	4960	10	06/29/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	4960	10	06/29/06
Ethylbenzene	ND	ug/Kg dry	4960	10	06/29/06
Hexachlorobutadiene	ND	ug/Kg dry	4960	10	06/29/06
Isopropylbenzene	ND	ug/Kg dry	4960	10	06/29/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	4960	10	06/29/06
Methylene Chloride	ND	ug/Kg dry	24800	10	06/29/06
Naphthalene	ND	ug/Kg dry	4960	10	06/29/06
n-Butylbenzene	ND	ug/Kg dry	4960	10	06/29/06
n-Propylbenzene	ND	ug/Kg dry	4960	10	06/29/06
sec-Butylbenzene	ND	ug/Kg dry	4960	10	06/29/06
Styrene	ND	ug/Kg dry	4960	10	06/29/06
tert-Butylbenzene	ND	ug/Kg dry	4960	10	06/29/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	4960	10	06/29/06
Tetrachloroethene	**14900**	ug/Kg dry	4960	10	06/29/06
Tetrahydrofuran	ND	ug/Kg dry	24800	10	06/29/06
Toluene	ND	ug/Kg dry	4960	10	06/29/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	4960	10	06/29/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	4960	10	06/29/06
Trichloroethene	**57600**	ug/Kg dry	4960	10	06/29/06
Trichlorofluoromethane	ND	ug/Kg dry	4960	10	06/29/06
Vinyl Acetate	ND	ug/Kg dry	24800	10	06/29/06
Vinyl Chloride	ND	ug/Kg dry	4960	10	06/29/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1901
Date Sampled: 06/22/06 14:35
Percent Solids: 21
Initial Volume: 11.6
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-11RE1
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Xylene O	ND	ug/Kg dry	4960	10	06/29/06
Xylene P,M	ND	ug/Kg dry	9920	10	06/29/06
Xylenes (Total)	ND	ug/Kg dry	14900		06/29/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*78 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*73 %*		*70-130*
Surrogate: Dibromofluoromethane	*93 %*		*70-130*
Surrogate: Toluene-d8	*81 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1903
Date Sampled: 06/22/06 14:50
Percent Solids: 12
Initial Volume: 11.6
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-12
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	1810	1	06/29/06
1,1,1-Trichloroethane	**6650**	ug/Kg dry	905	1	06/29/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	905	1	06/29/06
1,1,2-Trichloroethane	ND	ug/Kg dry	905	1	06/29/06
1,1-Dichloroethane	ND	ug/Kg dry	905	1	06/29/06
1,1-Dichloroethene	ND	ug/Kg dry	905	1	06/29/06
1,1-Dichloropropene	ND	ug/Kg dry	905	1	06/29/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	905	1	06/29/06
1,2,3-Trichloropropane	ND	ug/Kg dry	905	1	06/29/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	905	1	06/29/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	905	1	06/29/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	4530	1	06/29/06
1,2-Dibromoethane	ND	ug/Kg dry	905	1	06/29/06
1,2-Dichlorobenzene	ND	ug/Kg dry	905	1	06/29/06
1,2-Dichloroethane	ND	ug/Kg dry	905	1	06/29/06
1,2-Dichloropropane	ND	ug/Kg dry	905	1	06/29/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	905	1	06/29/06
1,3-Dichlorobenzene	ND	ug/Kg dry	905	1	06/29/06
1,3-Dichloropropane	ND	ug/Kg dry	905	1	06/29/06
1,4-Dichlorobenzene	ND	ug/Kg dry	905	1	06/29/06
1,4-Dioxane - Screen	ND	ug/Kg dry	90500	1	06/29/06
1-Chlorohexane	ND	ug/Kg dry	905	1	06/29/06
2,2-Dichloropropane	ND	ug/Kg dry	1810	1	06/29/06
2-Butanone	ND	ug/Kg dry	22600	1	06/29/06
2-Chlorotoluene	ND	ug/Kg dry	905	1	06/29/06
2-Hexanone	ND	ug/Kg dry	9050	1	06/29/06
4-Chlorotoluene	ND	ug/Kg dry	905	1	06/29/06
4-Isopropyltoluene	ND	ug/Kg dry	905	1	06/29/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	9050	1	06/29/06
Acetone	ND	ug/Kg dry	22600	1	06/29/06
Benzene	ND	ug/Kg dry	905	1	06/29/06
Bromobenzene	ND	ug/Kg dry	905	1	06/29/06
Bromochloromethane	ND	ug/Kg dry	905	1	06/29/06
Bromodichloromethane	ND	ug/Kg dry	905	1	06/29/06
Bromoform	ND	ug/Kg dry	905	1	06/29/06

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1903
Date Sampled: 06/22/06 14:50
Percent Solids: 12
Initial Volume: 11.6
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-12
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Bromomethane	ND	ug/Kg dry	1810	1	06/29/06
Carbon Disulfide	ND	ug/Kg dry	905	1	06/29/06
Carbon Tetrachloride	ND	ug/Kg dry	905	1	06/29/06
Chlorobenzene	ND	ug/Kg dry	905	1	06/29/06
Chloroethane	ND	ug/Kg dry	1810	1	06/29/06
Chloroform	ND	ug/Kg dry	905	1	06/29/06
Chloromethane	ND	ug/Kg dry	1810	1	06/29/06
cis-1,2-Dichloroethene	**5780**	ug/Kg dry	905	1	06/29/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	905	1	06/29/06
Dibromochloromethane	ND	ug/Kg dry	905	1	06/29/06
Dibromomethane	ND	ug/Kg dry	905	1	06/29/06
Dichlorodifluoromethane	ND	ug/Kg dry	905	1	06/29/06
Diethyl Ether	ND	ug/Kg dry	905	1	06/29/06
Di-isopropyl ether	ND	ug/Kg dry	905	1	06/29/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	905	1	06/29/06
Ethylbenzene	ND	ug/Kg dry	905	1	06/29/06
Hexachlorobutadiene	ND	ug/Kg dry	905	1	06/29/06
Isopropylbenzene	ND	ug/Kg dry	905	1	06/29/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	905	1	06/29/06
Methylene Chloride	ND	ug/Kg dry	4530	1	06/29/06
Naphthalene	ND	ug/Kg dry	905	1	06/29/06
n-Butylbenzene	ND	ug/Kg dry	905	1	06/29/06
n-Propylbenzene	ND	ug/Kg dry	905	1	06/29/06
sec-Butylbenzene	ND	ug/Kg dry	905	1	06/29/06
Styrene	ND	ug/Kg dry	905	1	06/29/06
tert-Butylbenzene	ND	ug/Kg dry	905	1	06/29/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	905	1	06/29/06
Tetrachloroethene	**27000**	ug/Kg dry	905	1	06/29/06
Tetrahydrofuran	ND	ug/Kg dry	4530	1	06/29/06
Toluene	ND	ug/Kg dry	905	1	06/29/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	905	1	06/29/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	905	1	06/29/06
Trichloroethene	**88000**	ug/Kg dry	905	1	06/29/06
Trichlorofluoromethane	ND	ug/Kg dry	905	1	06/29/06
Vinyl Acetate	ND	ug/Kg dry	4530	1	06/29/06
Vinyl Chloride	ND	ug/Kg dry	905	1	06/29/06

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1903
Date Sampled: 06/22/06 14:50
Percent Solids: 12
Initial Volume: 11.6
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-12
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Xylene O	ND	ug/Kg dry	905	1	06/29/06
Xylene P,M	ND	ug/Kg dry	1810	1	06/29/06
Xylenes (Total)	ND	ug/Kg dry	2720		06/29/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*84 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*81 %*		*70-130*
Surrogate: Dibromofluoromethane	*99 %*		*70-130*
Surrogate: Toluene-d8	*87 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2301
Date Sampled: 06/22/06 15:30
Percent Solids: 76
Initial Volume: 27.2
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-13
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	104	1	06/28/06
1,1,1-Trichloroethane	ND	ug/Kg dry	52.1	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	52.1	1	06/28/06
1,1,2-Trichloroethane	ND	ug/Kg dry	52.1	1	06/28/06
1,1-Dichloroethane	ND	ug/Kg dry	52.1	1	06/28/06
1,1-Dichloroethene	ND	ug/Kg dry	52.1	1	06/28/06
1,1-Dichloropropene	ND	ug/Kg dry	52.1	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	52.1	1	06/28/06
1,2,3-Trichloropropane	ND	ug/Kg dry	52.1	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	52.1	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	52.1	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	260	1	06/28/06
1,2-Dibromoethane	ND	ug/Kg dry	52.1	1	06/28/06
1,2-Dichlorobenzene	ND	ug/Kg dry	52.1	1	06/28/06
1,2-Dichloroethane	ND	ug/Kg dry	52.1	1	06/28/06
1,2-Dichloropropane	ND	ug/Kg dry	52.1	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	52.1	1	06/28/06
1,3-Dichlorobenzene	ND	ug/Kg dry	52.1	1	06/28/06
1,3-Dichloropropane	ND	ug/Kg dry	52.1	1	06/28/06
1,4-Dichlorobenzene	ND	ug/Kg dry	52.1	1	06/28/06
1,4-Dioxane - Screen	ND	ug/Kg dry	5210	1	06/28/06
1-Chlorohexane	ND	ug/Kg dry	52.1	1	06/28/06
2,2-Dichloropropane	ND	ug/Kg dry	104	1	06/28/06
2-Butanone	ND	ug/Kg dry	1300	1	06/28/06
2-Chlorotoluene	ND	ug/Kg dry	52.1	1	06/28/06
2-Hexanone	ND	ug/Kg dry	521	1	06/28/06
4-Chlorotoluene	ND	ug/Kg dry	52.1	1	06/28/06
4-Isopropyltoluene	ND	ug/Kg dry	52.1	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	521	1	06/28/06
Acetone	ND	ug/Kg dry	1300	1	06/28/06
Benzene	ND	ug/Kg dry	52.1	1	06/28/06
Bromobenzene	ND	ug/Kg dry	52.1	1	06/28/06
Bromochloromethane	ND	ug/Kg dry	52.1	1	06/28/06
Bromodichloromethane	ND	ug/Kg dry	52.1	1	06/28/06
Bromoform	ND	ug/Kg dry	52.1	1	06/28/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2301
Date Sampled: 06/22/06 15:30
Percent Solids: 76
Initial Volume: 27.2
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-13
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Bromomethane	ND	ug/Kg dry	104	1	06/28/06
Carbon Disulfide	ND	ug/Kg dry	52.1	1	06/28/06
Carbon Tetrachloride	ND	ug/Kg dry	52.1	1	06/28/06
Chlorobenzene	ND	ug/Kg dry	52.1	1	06/28/06
Chloroethane	ND	ug/Kg dry	104	1	06/28/06
Chloroform	ND	ug/Kg dry	52.1	1	06/28/06
Chloromethane	ND	ug/Kg dry	104	1	06/28/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	52.1	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	52.1	1	06/28/06
Dibromochloromethane	ND	ug/Kg dry	52.1	1	06/28/06
Dibromomethane	ND	ug/Kg dry	52.1	1	06/28/06
Dichlorodifluoromethane	ND	ug/Kg dry	52.1	1	06/28/06
Diethyl Ether	ND	ug/Kg dry	52.1	1	06/28/06
Di-isopropyl ether	ND	ug/Kg dry	52.1	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	52.1	1	06/28/06
Ethylbenzene	ND	ug/Kg dry	52.1	1	06/28/06
Hexachlorobutadiene	ND	ug/Kg dry	52.1	1	06/28/06
Isopropylbenzene	ND	ug/Kg dry	52.1	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	52.1	1	06/28/06
Methylene Chloride	ND	ug/Kg dry	260	1	06/28/06
Naphthalene	ND	ug/Kg dry	52.1	1	06/28/06
n-Butylbenzene	ND	ug/Kg dry	52.1	1	06/28/06
n-Propylbenzene	ND	ug/Kg dry	52.1	1	06/28/06
sec-Butylbenzene	ND	ug/Kg dry	52.1	1	06/28/06
Styrene	ND	ug/Kg dry	52.1	1	06/28/06
tert-Butylbenzene	ND	ug/Kg dry	52.1	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	52.1	1	06/28/06
Tetrachloroethene	**1040**	ug/Kg dry	52.1	1	06/28/06
Tetrahydrofuran	ND	ug/Kg dry	260	1	06/28/06
Toluene	ND	ug/Kg dry	52.1	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	52.1	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	52.1	1	06/28/06
Trichloroethene	**176**	ug/Kg dry	52.1	1	06/28/06
Trichlorofluoromethane	ND	ug/Kg dry	52.1	1	06/28/06
Vinyl Acetate	ND	ug/Kg dry	260	1	06/28/06
Vinyl Chloride	ND	ug/Kg dry	52.1	1	06/28/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2301
Date Sampled: 06/22/06 15:30
Percent Solids: 76
Initial Volume: 27.2
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-13
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Xylene O	ND	ug/Kg dry	52.1	1	06/28/06
Xylene P,M	ND	ug/Kg dry	104	1	06/28/06
Xylenes (Total)	ND	ug/Kg dry	156		06/28/06

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*94 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*96 %*		*70-130*
Surrogate: Dibromofluoromethane	*103 %*		*70-130*
Surrogate: Toluene-d8	*102 %*		*70-130*

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Volatile Organics Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62718 - 5035										
Carbon Disulfide	23.8		ug/L	25.0		95	70-130	1	20	
Carbon Tetrachloride	24.7		ug/L	25.0		99	70-130	0	20	
Chlorobenzene	24.4		ug/L	25.0		98	70-130	0	20	
Chloroethane	17.3		ug/L	25.0		69	70-130	7	20	+
Chloroform	25.1		ug/L	25.0		100	70-130	0	20	
Chloromethane	23.1		ug/L	25.0		92	70-130	1	20	
cis-1,2-Dichloroethene	25.9		ug/L	25.0		104	70-130	0	20	
cis-1,3-Dichloropropene	23.7		ug/L	25.0		95	70-130	0	20	
Dibromochloromethane	24.8		ug/L	25.0		99	70-130	0	20	
Dibromomethane	25.0		ug/L	25.0		100	70-130	0	20	
Dichlorodifluoromethane	23.0		ug/L	25.0		92	70-130	2	20	
Diethyl Ether	23.3		ug/L	25.0		93	70-130	0	20	
Di-isopropyl ether	23.1		ug/L	25.0		92	70-130	2	20	
Ethyl tertiary-butyl ether	23.2		ug/L	25.0		93	70-130	0	20	
Ethylbenzene	25.2		ug/L	25.0		101	70-130	1	20	
Hexachlorobutadiene	25.9		ug/L	25.0		104	70-130	1	20	
Isopropylbenzene	22.2		ug/L	25.0		89	70-130	1	20	
Methyl tert-Butyl Ether	26.4		ug/L	25.0		106	70-130	2	20	
Methylene Chloride	24.6		ug/L	25.0		98	70-130	0	20	
Naphthalene	24.2		ug/L	25.0		97	70-130	6	20	
n-Butylbenzene	24.7		ug/L	25.0		99	70-130	1	20	
n-Propylbenzene	23.4		ug/L	25.0		94	70-130	1	20	
sec-Butylbenzene	24.0		ug/L	25.0		96	70-130	1	20	
Styrene	24.7		ug/L	25.0		99	70-130	1	20	
tert-Butylbenzene	24.2		ug/L	25.0		97	70-130	1	20	
Tertiary-amyl methyl ether	24.2		ug/L	25.0		97	70-130	1	20	
Tetrachloroethene	24.9		ug/L	25.0		100	70-130	0	20	
Tetrahydrofuran	22.0		ug/L	25.0		88	70-130	5	20	
Toluene	24.5		ug/L	25.0		98	70-130	0	20	
trans-1,2-Dichloroethene	27.8		ug/L	25.0		111	70-130	0.9	20	
trans-1,3-Dichloropropene	22.4		ug/L	25.0		90	70-130	1	20	
Trichloroethene	24.3		ug/L	25.0		97	70-130	0	20	
Trichlorofluoromethane	24.2		ug/L	25.0		97	70-130	1	20	
Vinyl Chloride	24.3		ug/L	25.0		97	70-130	1	20	
Xylene O	24.4		ug/L	25.0		98	70-130	0	20	
Xylene P,M	49.5		ug/L	50.0		99	70-130	0	20	
Surrogate: 1,2-Dichloroethane-d4	*24.5*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.6*		ug/L	*25.0*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*23.9*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Toluene-d8	*23.3*		ug/L	*25.0*		*93*	*70-130*			
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62806 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	100	ug/Kg wet							
1,1,1-Trichloroethane	ND	50.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	50.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62806 - 5035										
1,1,2-Trichloroethane	ND	50.0	ug/Kg wet							
1,1-Dichloroethane	ND	50.0	ug/Kg wet							
1,1-Dichloroethene	ND	50.0	ug/Kg wet							
1,1-Dichloropropene	ND	50.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	50.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	50.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	50.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	50.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	250	ug/Kg wet							
1,2-Dibromoethane	ND	50.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,2-Dichloroethane	ND	50.0	ug/Kg wet							
1,2-Dichloropropane	ND	50.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	50.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,3-Dichloropropane	ND	50.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	5000	ug/Kg wet							
1-Chlorohexane	ND	50.0	ug/Kg wet							
2,2-Dichloropropane	ND	100	ug/Kg wet							
2-Butanone	ND	1250	ug/Kg wet							
2-Chlorotoluene	ND	50.0	ug/Kg wet							
2-Hexanone	ND	500	ug/Kg wet							
4-Chlorotoluene	ND	50.0	ug/Kg wet							
4-Isopropyltoluene	ND	50.0	ug/Kg wet							
4-Methyl-2-Pentanone	ND	500	ug/Kg wet							
Acetone	ND	1250	ug/Kg wet							
Benzene	ND	50.0	ug/Kg wet							
Bromobenzene	ND	50.0	ug/Kg wet							
Bromochloromethane	ND	50.0	ug/Kg wet							
Bromodichloromethane	ND	50.0	ug/Kg wet							
Bromoform	ND	50.0	ug/Kg wet							
Bromomethane	ND	100	ug/Kg wet							
Carbon Disulfide	ND	50.0	ug/Kg wet							
Carbon Tetrachloride	ND	50.0	ug/Kg wet							
Chlorobenzene	ND	50.0	ug/Kg wet							
Chloroethane	ND	100	ug/Kg wet							
Chloroform	ND	50.0	ug/Kg wet							
Chloromethane	ND	100	ug/Kg wet							
cis-1,2-Dichloroethene	ND	50.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	50.0	ug/Kg wet							
Dibromochloromethane	ND	50.0	ug/Kg wet							
Dibromomethane	ND	50.0	ug/Kg wet							
Dichlorodifluoromethane	ND	50.0	ug/Kg wet							
Diethyl Ether	ND	50.0	ug/Kg wet							
Di-isopropyl ether	ND	50.0	ug/Kg wet							
Ethyl tertiary-butyl ether	ND	50.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62806 - 5035										
Ethylbenzene	ND	50.0	ug/Kg wet							
Hexachlorobutadiene	ND	50.0	ug/Kg wet							
Isopropylbenzene	ND	50.0	ug/Kg wet							
Methyl tert-Butyl Ether	ND	50.0	ug/Kg wet							
Methylene Chloride	ND	250	ug/Kg wet							
Naphthalene	ND	50.0	ug/Kg wet							
n-Butylbenzene	ND	50.0	ug/Kg wet							
n-Propylbenzene	ND	50.0	ug/Kg wet							
sec-Butylbenzene	ND	50.0	ug/Kg wet							
Styrene	ND	50.0	ug/Kg wet							
tert-Butylbenzene	ND	50.0	ug/Kg wet							
Tertiary-amyl methyl ether	ND	50.0	ug/Kg wet							
Tetrachloroethene	ND	50.0	ug/Kg wet							
Tetrahydrofuran	ND	250	ug/Kg wet							
Toluene	ND	50.0	ug/Kg wet							
trans-1,2-Dichloroethene	ND	50.0	ug/Kg wet							
trans-1,3-Dichloropropene	ND	50.0	ug/Kg wet							
Trichloroethene	ND	50.0	ug/Kg wet							
Trichlorofluoromethane	ND	50.0	ug/Kg wet							
Vinyl Acetate	ND	250	ug/Kg wet							
Vinyl Chloride	ND	50.0	ug/Kg wet							
Xylene O	ND	50.0	ug/Kg wet							
Xylene P,M	ND	100	ug/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*2280*		ug/Kg wet	*2500*		*91*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2490*		ug/Kg wet	*2500*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*2600*		ug/Kg wet	*2500*		*104*	*70-130*			
Surrogate: Toluene-d8	*2560*		ug/Kg wet	*2500*		*102*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	23.2		ug/L	25.0		93	70-130			
1,1,1-Trichloroethane	24.3		ug/L	25.0		97	70-130			
1,1,2,2-Tetrachloroethane	24.6		ug/L	25.0		98	70-130			
1,1,2-Trichloroethane	24.7		ug/L	25.0		99	70-130			
1,1-Dichloroethane	24.7		ug/L	25.0		99	70-130			
1,1-Dichloroethene	25.2		ug/L	25.0		101	70-130			
1,1-Dichloropropene	23.8		ug/L	25.0		95	70-130			
1,2,3-Trichlorobenzene	26.8		ug/L	25.0		107	70-130			
1,2,3-Trichloropropane	23.6		ug/L	25.0		94	70-130			
1,2,4-Trichlorobenzene	25.3		ug/L	25.0		101	70-130			
1,2,4-Trimethylbenzene	25.6		ug/L	25.0		102	70-130			
1,2-Dibromo-3-Chloropropane	24.8		ug/L	25.0		99	70-130			
1,2-Dibromoethane	23.0		ug/L	25.0		92	70-130			
1,2-Dichlorobenzene	25.4		ug/L	25.0		102	70-130			
1,2-Dichloroethane	21.3		ug/L	25.0		85	70-130			
1,2-Dichloropropane	24.7		ug/L	25.0		99	70-130			
1,3,5-Trimethylbenzene	25.0		ug/L	25.0		100	70-130			
1,3-Dichlorobenzene	24.6		ug/L	25.0		98	70-130			
1,3-Dichloropropane	26.0		ug/L	25.0		104	70-130			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62806 - 5035										
1,4-Dichlorobenzene	24.6		ug/L	25.0		98	70-130			
1,4-Dioxane - Screen	562		ug/L	500		112	70-130			
1-Chlorohexane	24.5		ug/L	25.0		98	70-130			
2,2-Dichloropropane	24.3		ug/L	25.0		97	70-130			
2-Butanone	112		ug/L	125		90	70-130			
2-Chlorotoluene	24.5		ug/L	25.0		98	70-130			
2-Hexanone	120		ug/L	125		96	70-130			
4-Chlorotoluene	24.5		ug/L	25.0		98	70-130			
4-Isopropyltoluene	25.0		ug/L	25.0		100	70-130			
4-Methyl-2-Pentanone	120		ug/L	125		96	70-130			
Acetone	118		ug/L	125		94	70-130			
Benzene	23.8		ug/L	25.0		95	70-130			
Bromobenzene	26.3		ug/L	25.0		105	70-130			
Bromochloromethane	23.0		ug/L	25.0		92	70-130			
Bromodichloromethane	26.2		ug/L	25.0		105	70-130			
Bromoform	23.4		ug/L	25.0		94	70-130			
Bromomethane	22.3		ug/L	25.0		89	70-130			
Carbon Disulfide	24.8		ug/L	25.0		99	70-130			
Carbon Tetrachloride	22.8		ug/L	25.0		91	70-130			
Chlorobenzene	25.1		ug/L	25.0		100	70-130			
Chloroethane	23.5		ug/L	25.0		94	70-130			
Chloroform	24.0		ug/L	25.0		96	70-130			
Chloromethane	23.1		ug/L	25.0		92	70-130			
cis-1,2-Dichloroethene	25.9		ug/L	25.0		104	70-130			
cis-1,3-Dichloropropene	23.1		ug/L	25.0		92	70-130			
Dibromochloromethane	23.8		ug/L	25.0		95	70-130			
Dibromomethane	24.2		ug/L	25.0		97	70-130			
Dichlorodifluoromethane	23.8		ug/L	25.0		95	70-130			
Diethyl Ether	24.2		ug/L	25.0		97	70-130			
Di-isopropyl ether	23.9		ug/L	25.0		96	70-130			
Ethyl tertiary-butyl ether	23.5		ug/L	25.0		94	70-130			
Ethylbenzene	25.7		ug/L	25.0		103	70-130			
Hexachlorobutadiene	25.9		ug/L	25.0		104	70-130			
Isopropylbenzene	23.7		ug/L	25.0		95	70-130			
Methyl tert-Butyl Ether	24.1		ug/L	25.0		96	70-130			
Methylene Chloride	25.1		ug/L	25.0		100	70-130			
Naphthalene	25.9		ug/L	25.0		104	70-130			
n-Butylbenzene	24.5		ug/L	25.0		98	70-130			
n-Propylbenzene	25.3		ug/L	25.0		101	70-130			
sec-Butylbenzene	25.2		ug/L	25.0		101	70-130			
Styrene	25.8		ug/L	25.0		103	70-130			
tert-Butylbenzene	25.6		ug/L	25.0		102	70-130			
Tertiary-amyl methyl ether	25.0		ug/L	25.0		100	70-130			
Tetrachloroethene	23.6		ug/L	25.0		94	70-130			
Tetrahydrofuran	22.1		ug/L	25.0		88	70-130			
Toluene	25.1		ug/L	25.0		100	70-130			
trans-1,2-Dichloroethene	25.4		ug/L	25.0		102	70-130			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62806 - 5035										
trans-1,3-Dichloropropene	21.0		ug/L	25.0		84	70-130			
Trichloroethene	24.0		ug/L	25.0		96	70-130			
Trichlorofluoromethane	22.5		ug/L	25.0		90	70-130			
Vinyl Acetate	21.4		ug/L	25.0		86	70-130			
Vinyl Chloride	24.4		ug/L	25.0		98	70-130			
Xylene O	25.6		ug/L	25.0		102	70-130			
Xylene P,M	50.8		ug/L	50.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	*2390*		ug/Kg wet	*2500*		*96*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2420*		ug/Kg wet	*2500*		*97*	*70-130*			
Surrogate: Dibromofluoromethane	*2400*		ug/Kg wet	*2500*		*96*	*70-130*			
Surrogate: Toluene-d8	*2510*		ug/Kg wet	*2500*		*100*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	24.4		ug/L	25.0		98	70-130	5	20	
1,1,1-Trichloroethane	26.0		ug/L	25.0		104	70-130	7	20	
1,1,2,2-Tetrachloroethane	26.0		ug/L	25.0		104	70-130	6	20	
1,1,2-Trichloroethane	26.2		ug/L	25.0		105	70-130	6	20	
1,1-Dichloroethane	26.3		ug/L	25.0		105	70-130	6	20	
1,1-Dichloroethene	27.2		ug/L	25.0		109	70-130	8	20	
1,1-Dichloropropene	25.9		ug/L	25.0		104	70-130	9	20	
1,2,3-Trichlorobenzene	27.7		ug/L	25.0		111	70-130	4	20	
1,2,3-Trichloropropane	25.5		ug/L	25.0		102	70-130	8	20	
1,2,4-Trichlorobenzene	26.7		ug/L	25.0		107	70-130	6	20	
1,2,4-Trimethylbenzene	27.6		ug/L	25.0		110	70-130	8	20	
1,2-Dibromo-3-Chloropropane	25.9		ug/L	25.0		104	70-130	5	20	
1,2-Dibromoethane	24.2		ug/L	25.0		97	70-130	5	20	
1,2-Dichlorobenzene	26.4		ug/L	25.0		106	70-130	4	20	
1,2-Dichloroethane	22.9		ug/L	25.0		92	70-130	8	20	
1,2-Dichloropropane	26.2		ug/L	25.0		105	70-130	6	20	
1,3,5-Trimethylbenzene	27.3		ug/L	25.0		109	70-130	9	20	
1,3-Dichlorobenzene	26.4		ug/L	25.0		106	70-130	8	20	
1,3-Dichloropropane	27.3		ug/L	25.0		109	70-130	5	20	
1,4-Dichlorobenzene	25.8		ug/L	25.0		103	70-130	5	20	
1,4-Dioxane - Screen	661		ug/L	500		132	70-130	16	20	+
1-Chlorohexane	26.4		ug/L	25.0		106	70-130	8	20	
2,2-Dichloropropane	25.6		ug/L	25.0		102	70-130	5	20	
2-Butanone	116		ug/L	125		93	70-130	3	20	
2-Chlorotoluene	27.4		ug/L	25.0		110	70-130	12	20	
2-Hexanone	125		ug/L	125		100	70-130	4	20	
4-Chlorotoluene	26.2		ug/L	25.0		105	70-130	7	20	
4-Isopropyltoluene	26.8		ug/L	25.0		107	70-130	7	20	
4-Methyl-2-Pentanone	127		ug/L	125		102	70-130	6	20	
Acetone	122		ug/L	125		98	70-130	4	20	
Benzene	24.6		ug/L	25.0		98	70-130	3	20	
Bromobenzene	27.9		ug/L	25.0		112	70-130	6	20	
Bromochloromethane	24.3		ug/L	25.0		97	70-130	5	20	
Bromodichloromethane	27.5		ug/L	25.0		110	70-130	5	20	
Bromoform	24.6		ug/L	25.0		98	70-130	4	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62806 - 5035										
Bromomethane	24.9		ug/L	25.0		100	70-130	12	20	
Carbon Disulfide	26.5		ug/L	25.0		106	70-130	7	20	
Carbon Tetrachloride	24.9		ug/L	25.0		100	70-130	9	20	
Chlorobenzene	26.7		ug/L	25.0		107	70-130	7	20	
Chloroethane	24.8		ug/L	25.0		99	70-130	5	20	
Chloroform	25.5		ug/L	25.0		102	70-130	6	20	
Chloromethane	23.8		ug/L	25.0		95	70-130	3	20	
cis-1,2-Dichloroethene	27.2		ug/L	25.0		109	70-130	5	20	
cis-1,3-Dichloropropene	24.4		ug/L	25.0		98	70-130	6	20	
Dibromochloromethane	24.7		ug/L	25.0		99	70-130	4	20	
Dibromomethane	25.4		ug/L	25.0		102	70-130	5	20	
Dichlorodifluoromethane	25.7		ug/L	25.0		103	70-130	8	20	
Diethyl Ether	25.7		ug/L	25.0		103	70-130	6	20	
Di-isopropyl ether	25.6		ug/L	25.0		102	70-130	6	20	
Ethyl tertiary-butyl ether	25.0		ug/L	25.0		100	70-130	6	20	
Ethylbenzene	27.0		ug/L	25.0		108	70-130	5	20	
Hexachlorobutadiene	28.7		ug/L	25.0		115	70-130	10	20	
Isopropylbenzene	25.4		ug/L	25.0		102	70-130	7	20	
Methyl tert-Butyl Ether	25.6		ug/L	25.0		102	70-130	6	20	
Methylene Chloride	26.3		ug/L	25.0		105	70-130	5	20	
Naphthalene	27.6		ug/L	25.0		110	70-130	6	20	
n-Butylbenzene	26.7		ug/L	25.0		107	70-130	9	20	
n-Propylbenzene	26.9		ug/L	25.0		108	70-130	7	20	
sec-Butylbenzene	27.1		ug/L	25.0		108	70-130	7	20	
Styrene	26.9		ug/L	25.0		108	70-130	5	20	
tert-Butylbenzene	27.2		ug/L	25.0		109	70-130	7	20	
Tertiary-amyl methyl ether	26.5		ug/L	25.0		106	70-130	6	20	
Tetrachloroethene	25.2		ug/L	25.0		101	70-130	7	20	
Tetrahydrofuran	22.6		ug/L	25.0		90	70-130	2	20	
Toluene	26.5		ug/L	25.0		106	70-130	6	20	
trans-1,2-Dichloroethene	27.0		ug/L	25.0		108	70-130	6	20	
trans-1,3-Dichloropropene	21.9		ug/L	25.0		88	70-130	5	20	
Trichloroethene	25.7		ug/L	25.0		103	70-130	7	20	
Trichlorofluoromethane	24.2		ug/L	25.0		97	70-130	7	20	
Vinyl Acetate	22.7		ug/L	25.0		91	70-130	6	20	
Vinyl Chloride	25.9		ug/L	25.0		104	70-130	6	20	
Xylene O	27.3		ug/L	25.0		109	70-130	7	20	
Xylene P,M	53.2		ug/L	50.0		106	70-130	4	20	
Surrogate: 1,2-Dichloroethane-d4	*2380*		ug/Kg wet	*2500*		*95*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2500*		ug/Kg wet	*2500*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*2530*		ug/Kg wet	*2500*		*101*	*70-130*			
Surrogate: Toluene-d8	*2630*		ug/Kg wet	*2500*		*105*	*70-130*			
Batch BF62904 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	100	ug/Kg wet							
1,1,1-Trichloroethane	ND	50.0	ug/Kg wet							

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62904 - 5035										
1,1,2,2-Tetrachloroethane	ND	50.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	50.0	ug/Kg wet							
1,1-Dichloroethane	ND	50.0	ug/Kg wet							
1,1-Dichloroethene	ND	50.0	ug/Kg wet							
1,1-Dichloropropene	ND	50.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	50.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	50.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	50.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	50.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	250	ug/Kg wet							
1,2-Dibromoethane	ND	50.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,2-Dichloroethane	ND	50.0	ug/Kg wet							
1,2-Dichloropropane	ND	50.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	50.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,3-Dichloropropane	ND	50.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	5000	ug/Kg wet							
1-Chlorohexane	ND	50.0	ug/Kg wet							
2,2-Dichloropropane	ND	100	ug/Kg wet							
2-Butanone	ND	1250	ug/Kg wet							
2-Chlorotoluene	ND	50.0	ug/Kg wet							
2-Hexanone	ND	500	ug/Kg wet							
4-Chlorotoluene	ND	50.0	ug/Kg wet							
4-Isopropyltoluene	ND	50.0	ug/Kg wet							
4-Methyl-2-Pentanone	ND	500	ug/Kg wet							
Acetone	ND	1250	ug/Kg wet							
Benzene	ND	50.0	ug/Kg wet							
Bromobenzene	ND	50.0	ug/Kg wet							
Bromochloromethane	ND	50.0	ug/Kg wet							
Bromodichloromethane	ND	50.0	ug/Kg wet							
Bromoform	ND	50.0	ug/Kg wet							
Bromomethane	ND	100	ug/Kg wet							
Carbon Disulfide	ND	50.0	ug/Kg wet							
Carbon Tetrachloride	ND	50.0	ug/Kg wet							
Chlorobenzene	ND	50.0	ug/Kg wet							
Chloroethane	ND	100	ug/Kg wet							
Chloroform	ND	50.0	ug/Kg wet							
Chloromethane	ND	100	ug/Kg wet							
cis-1,2-Dichloroethene	ND	50.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	50.0	ug/Kg wet							
Dibromochloromethane	ND	50.0	ug/Kg wet							
Dibromomethane	ND	50.0	ug/Kg wet							
Dichlorodifluoromethane	ND	50.0	ug/Kg wet							
Diethyl Ether	ND	50.0	ug/Kg wet							
Di-isopropyl ether	ND	50.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
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ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62904 - 5035										
Ethyl tertiary-butyl ether	ND	50.0	ug/Kg wet							
Ethylbenzene	ND	50.0	ug/Kg wet							
Hexachlorobutadiene	ND	50.0	ug/Kg wet							
Isopropylbenzene	ND	50.0	ug/Kg wet							
Methyl tert-Butyl Ether	ND	50.0	ug/Kg wet							
Methylene Chloride	ND	250	ug/Kg wet							
Naphthalene	ND	50.0	ug/Kg wet							
n-Butylbenzene	ND	50.0	ug/Kg wet							
n-Propylbenzene	ND	50.0	ug/Kg wet							
sec-Butylbenzene	ND	50.0	ug/Kg wet							
Styrene	ND	50.0	ug/Kg wet							
tert-Butylbenzene	ND	50.0	ug/Kg wet							
Tertiary-amyl methyl ether	ND	50.0	ug/Kg wet							
Tetrachloroethene	ND	50.0	ug/Kg wet							
Tetrahydrofuran	ND	250	ug/Kg wet							
Toluene	ND	50.0	ug/Kg wet							
trans-1,2-Dichloroethene	ND	50.0	ug/Kg wet							
trans-1,3-Dichloropropene	ND	50.0	ug/Kg wet							
Trichloroethene	ND	50.0	ug/Kg wet							
Trichlorofluoromethane	ND	50.0	ug/Kg wet							
Vinyl Acetate	ND	250	ug/Kg wet							
Vinyl Chloride	ND	50.0	ug/Kg wet							
Xylene O	ND	50.0	ug/Kg wet							
Xylene P,M	ND	100	ug/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*2050*		ug/Kg wet	*2500*		*82*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2380*		ug/Kg wet	*2500*		*95*	*70-130*			
Surrogate: Dibromofluoromethane	*2530*		ug/Kg wet	*2500*		*101*	*70-130*			
Surrogate: Toluene-d8	*2480*		ug/Kg wet	*2500*		*99*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	23.8		ug/L	25.0		95	70-130			
1,1,1-Trichloroethane	24.6		ug/L	25.0		98	70-130			
1,1,2,2-Tetrachloroethane	25.5		ug/L	25.0		102	70-130			
1,1,2-Trichloroethane	25.3		ug/L	25.0		101	70-130			
1,1-Dichloroethane	25.4		ug/L	25.0		102	70-130			
1,1-Dichloroethene	26.1		ug/L	25.0		104	70-130			
1,1-Dichloropropene	24.6		ug/L	25.0		98	70-130			
1,2,3-Trichlorobenzene	25.5		ug/L	25.0		102	70-130			
1,2,3-Trichloropropane	25.2		ug/L	25.0		101	70-130			
1,2,4-Trichlorobenzene	25.0		ug/L	25.0		100	70-130			
1,2,4-Trimethylbenzene	25.7		ug/L	25.0		103	70-130			
1,2-Dibromo-3-Chloropropane	25.0		ug/L	25.0		100	70-130			
1,2-Dibromoethane	23.9		ug/L	25.0		96	70-130			
1,2-Dichlorobenzene	25.2		ug/L	25.0		101	70-130			
1,2-Dichloroethane	22.7		ug/L	25.0		91	70-130			
1,2-Dichloropropane	25.2		ug/L	25.0		101	70-130			
1,3,5-Trimethylbenzene	25.4		ug/L	25.0		102	70-130			
1,3-Dichlorobenzene	24.7		ug/L	25.0		99	70-130			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62904 - 5035										
1,3-Dichloropropane	27.1		ug/L	25.0		108	70-130			
1,4-Dichlorobenzene	24.2		ug/L	25.0		97	70-130			
1,4-Dioxane - Screen	582		ug/L	500		116	70-130			
1-Chlorohexane	25.1		ug/L	25.0		100	70-130			
2,2-Dichloropropane	24.9		ug/L	25.0		100	70-130			
2-Butanone	121		ug/L	125		97	70-130			
2-Chlorotoluene	25.7		ug/L	25.0		103	70-130			
2-Hexanone	129		ug/L	125		103	70-130			
4-Chlorotoluene	24.8		ug/L	25.0		99	70-130			
4-Isopropyltoluene	25.2		ug/L	25.0		101	70-130			
4-Methyl-2-Pentanone	127		ug/L	125		102	70-130			
Acetone	124		ug/L	125		99	70-130			
Benzene	23.9		ug/L	25.0		96	70-130			
Bromobenzene	26.4		ug/L	25.0		106	70-130			
Bromochloromethane	23.4		ug/L	25.0		94	70-130			
Bromodichloromethane	26.4		ug/L	25.0		106	70-130			
Bromoform	24.2		ug/L	25.0		97	70-130			
Bromomethane	23.4		ug/L	25.0		94	70-130			
Carbon Disulfide	25.3		ug/L	25.0		101	70-130			
Carbon Tetrachloride	23.3		ug/L	25.0		93	70-130			
Chlorobenzene	25.2		ug/L	25.0		101	70-130			
Chloroethane	23.4		ug/L	25.0		94	70-130			
Chloroform	24.3		ug/L	25.0		97	70-130			
Chloromethane	21.7		ug/L	25.0		87	70-130			
cis-1,2-Dichloroethene	26.6		ug/L	25.0		106	70-130			
cis-1,3-Dichloropropene	23.7		ug/L	25.0		95	70-130			
Dibromochloromethane	24.5		ug/L	25.0		98	70-130			
Dibromomethane	24.6		ug/L	25.0		98	70-130			
Dichlorodifluoromethane	23.8		ug/L	25.0		95	70-130			
Diethyl Ether	25.8		ug/L	25.0		103	70-130			
Di-isopropyl ether	25.0		ug/L	25.0		100	70-130			
Ethyl tertiary-butyl ether	24.4		ug/L	25.0		98	70-130			
Ethylbenzene	25.9		ug/L	25.0		104	70-130			
Hexachlorobutadiene	26.8		ug/L	25.0		107	70-130			
Isopropylbenzene	23.8		ug/L	25.0		95	70-130			
Methyl tert-Butyl Ether	25.0		ug/L	25.0		100	70-130			
Methylene Chloride	24.9		ug/L	25.0		100	70-130			
Naphthalene	25.3		ug/L	25.0		101	70-130			
n-Butylbenzene	25.2		ug/L	25.0		101	70-130			
n-Propylbenzene	25.7		ug/L	25.0		103	70-130			
sec-Butylbenzene	25.3		ug/L	25.0		101	70-130			
Styrene	25.8		ug/L	25.0		103	70-130			
tert-Butylbenzene	25.7		ug/L	25.0		103	70-130			
Tertiary-amyl methyl ether	26.1		ug/L	25.0		104	70-130			
Tetrachloroethene	24.0		ug/L	25.0		96	70-130			
Tetrahydrofuran	23.7		ug/L	25.0		95	70-130			
Toluene	25.0		ug/L	25.0		100	70-130			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62904 - 5035										
trans-1,2-Dichloroethene	26.0		ug/L	25.0		104	70-130			
trans-1,3-Dichloropropene	21.4		ug/L	25.0		86	70-130			
Trichloroethene	24.3		ug/L	25.0		97	70-130			
Trichlorofluoromethane	22.2		ug/L	25.0		89	70-130			
Vinyl Acetate	22.2		ug/L	25.0		89	70-130			
Vinyl Chloride	25.0		ug/L	25.0		100	70-130			
Xylene O	25.7		ug/L	25.0		103	70-130			
Xylene P,M	50.6		ug/L	50.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	*2320*		ug/Kg wet	*2500*		*93*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2400*		ug/Kg wet	*2500*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*2420*		ug/Kg wet	*2500*		*97*	*70-130*			
Surrogate: Toluene-d8	*2510*		ug/Kg wet	*2500*		*100*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	23.9		ug/L	25.0		96	70-130	1	20	
1,1,1-Trichloroethane	25.5		ug/L	25.0		102	70-130	4	20	
1,1,2,2-Tetrachloroethane	25.9		ug/L	25.0		104	70-130	2	20	
1,1,2-Trichloroethane	26.0		ug/L	25.0		104	70-130	3	20	
1,1-Dichloroethane	25.9		ug/L	25.0		104	70-130	2	20	
1,1-Dichloroethene	26.9		ug/L	25.0		108	70-130	4	20	
1,1-Dichloropropene	25.2		ug/L	25.0		101	70-130	3	20	
1,2,3-Trichlorobenzene	27.6		ug/L	25.0		110	70-130	8	20	
1,2,3-Trichloropropane	25.4		ug/L	25.0		102	70-130	1	20	
1,2,4-Trichlorobenzene	25.8		ug/L	25.0		103	70-130	3	20	
1,2,4-Trimethylbenzene	26.0		ug/L	25.0		104	70-130	1	20	
1,2-Dibromo-3-Chloropropane	25.3		ug/L	25.0		101	70-130	1	20	
1,2-Dibromoethane	24.1		ug/L	25.0		96	70-130	0	20	
1,2-Dichlorobenzene	25.3		ug/L	25.0		101	70-130	0	20	
1,2-Dichloroethane	22.2		ug/L	25.0		89	70-130	2	20	
1,2-Dichloropropane	25.7		ug/L	25.0		103	70-130	2	20	
1,3,5-Trimethylbenzene	25.5		ug/L	25.0		102	70-130	0	20	
1,3-Dichlorobenzene	25.0		ug/L	25.0		100	70-130	1	20	
1,3-Dichloropropane	27.6		ug/L	25.0		110	70-130	2	20	
1,4-Dichlorobenzene	24.6		ug/L	25.0		98	70-130	1	20	
1,4-Dioxane - Screen	622		ug/L	500		124	70-130	7	20	
1-Chlorohexane	25.3		ug/L	25.0		101	70-130	1	20	
2,2-Dichloropropane	24.8		ug/L	25.0		99	70-130	1	20	
2-Butanone	121		ug/L	125		97	70-130	0	20	
2-Chlorotoluene	25.6		ug/L	25.0		102	70-130	1	20	
2-Hexanone	130		ug/L	125		104	70-130	1	20	
4-Chlorotoluene	25.0		ug/L	25.0		100	70-130	1	20	
4-Isopropyltoluene	25.3		ug/L	25.0		101	70-130	0	20	
4-Methyl-2-Pentanone	129		ug/L	125		103	70-130	1	20	
Acetone	117		ug/L	125		94	70-130	5	20	
Benzene	23.3		ug/L	25.0		93	70-130	3	20	
Bromobenzene	26.5		ug/L	25.0		106	70-130	0	20	
Bromochloromethane	23.9		ug/L	25.0		96	70-130	2	20	
Bromodichloromethane	26.4		ug/L	25.0		106	70-130	0	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62904 - 5035										
Bromoform	24.4		ug/L	25.0		98	70-130	1	20	
Bromomethane	24.0		ug/L	25.0		96	70-130	2	20	
Carbon Disulfide	25.7		ug/L	25.0		103	70-130	2	20	
Carbon Tetrachloride	24.2		ug/L	25.0		97	70-130	4	20	
Chlorobenzene	25.6		ug/L	25.0		102	70-130	1	20	
Chloroethane	23.6		ug/L	25.0		94	70-130	0	20	
Chloroform	24.8		ug/L	25.0		99	70-130	2	20	
Chloromethane	22.1		ug/L	25.0		88	70-130	1	20	
cis-1,2-Dichloroethene	26.8		ug/L	25.0		107	70-130	0.9	20	
cis-1,3-Dichloropropene	23.9		ug/L	25.0		96	70-130	1	20	
Dibromochloromethane	24.7		ug/L	25.0		99	70-130	1	20	
Dibromomethane	24.9		ug/L	25.0		100	70-130	2	20	
Dichlorodifluoromethane	24.6		ug/L	25.0		98	70-130	3	20	
Diethyl Ether	26.0		ug/L	25.0		104	70-130	1	20	
Di-isopropyl ether	25.1		ug/L	25.0		100	70-130	0	20	
Ethyl tertiary-butyl ether	24.8		ug/L	25.0		99	70-130	1	20	
Ethylbenzene	26.0		ug/L	25.0		104	70-130	0	20	
Hexachlorobutadiene	26.9		ug/L	25.0		108	70-130	0.9	20	
Isopropylbenzene	24.0		ug/L	25.0		96	70-130	1	20	
Methyl tert-Butyl Ether	25.7		ug/L	25.0		103	70-130	3	20	
Methylene Chloride	25.2		ug/L	25.0		101	70-130	1	20	
Naphthalene	26.7		ug/L	25.0		107	70-130	6	20	
n-Butylbenzene	25.3		ug/L	25.0		101	70-130	0	20	
n-Propylbenzene	25.9		ug/L	25.0		104	70-130	1	20	
sec-Butylbenzene	25.5		ug/L	25.0		102	70-130	1	20	
Styrene	26.1		ug/L	25.0		104	70-130	1	20	
tert-Butylbenzene	25.8		ug/L	25.0		103	70-130	0	20	
Tertiary-amyl methyl ether	26.4		ug/L	25.0		106	70-130	2	20	
Tetrachloroethene	24.2		ug/L	25.0		97	70-130	1	20	
Tetrahydrofuran	23.4		ug/L	25.0		94	70-130	1	20	
Toluene	25.2		ug/L	25.0		101	70-130	1	20	
trans-1,2-Dichloroethene	26.3		ug/L	25.0		105	70-130	1	20	
trans-1,3-Dichloropropene	21.6		ug/L	25.0		86	70-130	0	20	
Trichloroethene	25.0		ug/L	25.0		100	70-130	3	20	
Trichlorofluoromethane	22.2		ug/L	25.0		89	70-130	0	20	
Vinyl Acetate	22.5		ug/L	25.0		90	70-130	1	20	
Vinyl Chloride	25.6		ug/L	25.0		102	70-130	2	20	
Xylene O	26.2		ug/L	25.0		105	70-130	2	20	
Xylene P,M	50.7		ug/L	50.0		101	70-130	0	20	
Surrogate: 1,2-Dichloroethane-d4	*2200*		ug/Kg wet	*2500*		*88*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2460*		ug/Kg wet	*2500*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*2470*		ug/Kg wet	*2500*		*99*	*70-130*			
Surrogate: Toluene-d8	*2540*		ug/Kg wet	*2500*		*102*	*70-130*			
8081A Organochlorine Pesticides										
Batch BF62723 - 3541										
Blank										

Volatile Organics Calibration Data

ANALYSIS SEQUENCE

BPF0223

Instrument: VMS1

Calibration ID: ~~0606001~~ MI 061706

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0223-TUN1	QC		1		6F27054		
BPF0223-CAL1	QC		2		6F27055	6F22057	
BPF0223-CAL2	QC		3		6F27056	6F22057	
BPF0223-CAL3	QC		4		6F27057	6F22057	
BPF0223-CAL4	QC		5		6F27058	6F22057	
BPF0223-CAL5	QC		6		6F27059	6F22057	
BPF0223-CAL6	QC		7		6F27060	6F22057	
BPF0223-SCV1	QC		8		6F27061	6F22057	

Samples Loaded By Date Data Processed By Date

ESS LABORATORY MS-1 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/26/06	06	M1 041035	0606348-02	AA061606	from over	RS
↓	07	M1 36	BF62612-MS1	↓	0606348-02 40µl/100ml } 6F12081	↓
6/26/06	08	M1 37	BF62612-MSD1	AA061606	0606348-02 40µl/100ml 6F12081	RS
6/27/06	1	M1 38	BPF0223 -Tunl	HB053106 ~~HB06~~ *	6F27054	KES
↓	2	M1 39 4*	-CAL1	↓	055	↓
	3	M1 40	-CAL2		056	
	4	M1 41	-CAL3		057	
	5	M1 42	-CAL4		058	
	6	M1 43	-CAL5		059 ~~060~~ *	
	7	M1 44	BPF0223 -CAL6	↓	6F27 060 ~~061~~ *	
↓	8	M1 45	TB	HB053106		↓
6/27/06	9	M1 46	BPF0223 -SCV1	HB062706	6F27061	
6/28/06	1	M1 47	BPF0228 -Tunl	↓	6F28037	KES
6/28/06	2	M1 48	BPF0228 -CCV1	HB062706	6F28038	↓
						VM

Run Sequence Confirmation

KES 6/29/06

Surrogate: 6F22055 / 6E19055 5.0.1

On-column IS: 6F22057 / 6F27048

Control Number 20.0001-0601A

Page ____

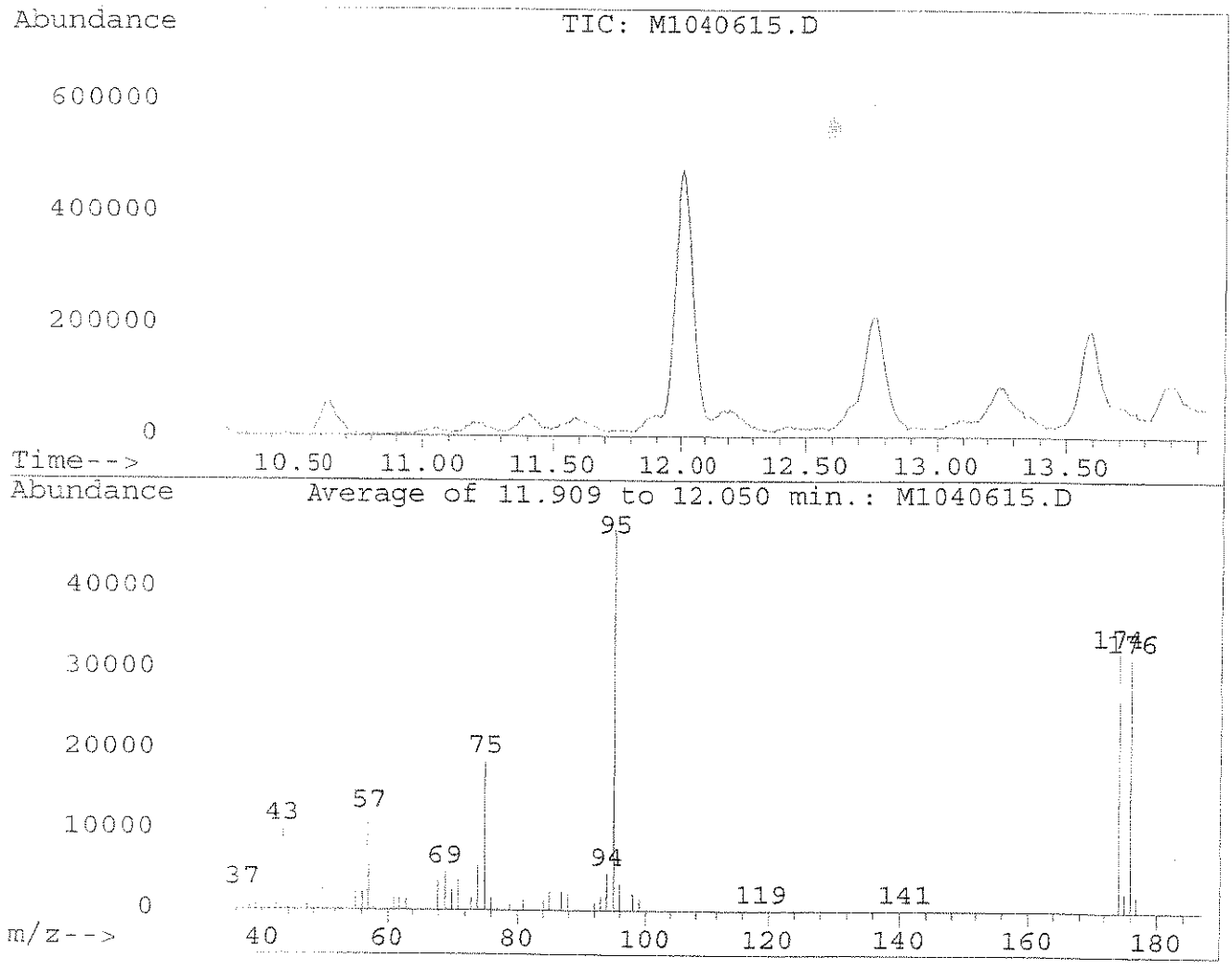
423

023

BFB

Data File : Q:\VOA\MS1_MA\MA0506\MA053106\M1040615.D Vial: 1
Acq On : 31 May 106 6:35 am Operator: RES
Sample : BPE0238-TUN1 Inst : VOA MASS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI050406.M
Title : Element ID: 0605009



Peak Apex is scan: 1320

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.3	7706	PASS
75	95	30	60	39.3	18576	PASS
95	95	100	100	100.0	47254	PASS
96	95	5	9	7.0	3307	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	68.0	32132	PASS
175	174	5	9	7.6	2429	PASS
176	174	95	101	98.2	31559	PASS
177	176	5	9	6.2	1960	PASS

M1040615.D HI050406.M Wed May 31 10:55:22 2006

Response Factor Report VOA MASS

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:25:32 2006
Response via : Initial Calibration

Calibration Files
25 =M1041039.D 10 =M1041040.D 2.5 =M1041041.D
.5 =M1041042.D = 50 =M1041043.D

		Compound	25	10	2.5	.5	5	~~50~~ 100 per 4/28/06	Avg	%RSD
1)	I	Fluorobenzene	ISTD							
2)		Dichlorodifluoromet	0.478	0.460	0.390	0.340	0.481	0.445	0.432	12.99
3)		Chloromethane	0.283	0.287	0.265	0.302	0.275	0.247	0.277	6.89
4)		Vinyl Chloride	0.263	0.255	0.224	0.179	0.267	0.238	0.238	13.94
5)		Bromomethane	0.220	0.222	0.206	0.254	0.240	0.225	0.228	7.35
6)		Chloroethane	0.098	0.094	0.092	0.049	0.099	0.088	0.087	21.74
7)		Trichlorofluorometh	0.508	0.497	0.460	0.403	0.519	0.479	0.478	8.88
8)		Diethyl ether	0.148	0.146	0.141	0.117	0.150	0.135	0.140	8.69
9)		Acrolein	0.018	0.022	0.032		0.021	0.019	0.022	24.51
10)		1,1,2-Trichloro-1,2	0.488	0.476	0.421	0.355	0.485	0.438	0.444	11.51
11)		Acetone	0.008	0.011	0.019	0.008	0.007	0.438	0.011	47.84
12)		Iodomethane	0.641	0.688	0.582	0.692	0.606	0.438	0.642	7.63
13)		Carbon Disulfide	0.688	0.668	0.571	0.498	0.696	0.632	0.626	12.37
14)	M	1,1-Dichloroethene	0.247	0.241	0.211	0.155	0.246	0.220	0.220	15.94
15)		Allyl Chloride	0.398	0.382	0.339	0.338	0.400	0.355	0.369	7.67
16)		Methyl Acetate	0.098	0.105	0.124	0.101	0.090	0.355	0.104	12.42
17)		Methylene Chloride	0.273	0.262	0.249	0.212	0.270	0.246	0.252	8.82
18)		Methyl tert-Butyl E	0.470	0.461	0.425	0.399	0.480	0.431	0.444	7.04
19)		Acrylonitrile	0.037	0.035	0.031	0.037	0.034	0.431	0.035	7.22
20)		trans-1,2-Dichloroe	0.278	0.271	0.243	0.199	0.280	0.256	0.254	12.11
21)		1,1-Dichloroethane	0.441	0.433	0.383	0.335	0.447	0.405	0.407	10.57
22)		Vinyl Acetate	0.813	0.794	0.710	0.684	0.829	0.737	0.761	7.79
23)		Chloroprene	0.318	0.304	0.270	0.217	0.320	0.293	0.287	13.61
24)		Di-isopropyl ether	0.963	0.924	0.900	0.889	0.973	0.863	0.919	4.70
25)		Ethyl tertiary-buty	0.727	0.703	0.668	0.593	0.744	0.673	0.685	7.84
26)		2-Butanone	0.012	0.011	0.011	0.010	0.011	0.009	0.011	7.61
27)		cis-1,2 Dichloroeth	0.267	0.264	0.238	0.208	0.264	0.241	0.247	9.29
28)		2,2-Dichloropropane	0.380	0.372	0.358	0.376	0.359	0.328	0.362	5.22
29)		Methyl Acrylate	0.127	0.119	0.116	0.130	0.118	0.328	0.122	5.08
30)		Bromochloromethane	0.166	0.160	0.144	0.099	0.168	0.159	0.149	17.39
31)		Methacrylonitrile	0.077	0.079	0.082	0.080	0.070	0.159	0.077	5.83
32)		Tetrahydrofuran	0.030	0.030	0.039	0.028	0.032	0.027	0.031	13.92
33)		Chloroform	0.467	0.460	0.434	0.424	0.464	0.427	0.446	4.42
34)	S	Dibromofluoromethan	0.473	0.466	0.417	0.358	0.472	0.435	0.437	10.27
35)		1,1,1-Trichloroetha	0.434	0.415	0.363	0.311	0.436	0.398	0.393	12.27
36)		Cyclohexane	0.253	0.255	0.192	0.248	0.234	0.186	0.228	13.68
37)		1-Chlorobutane	0.496	0.427	0.467	0.568	0.535	0.428	0.487	11.77
38)		1,1-Dichloropropene	0.341	0.300	0.286	0.245	0.339	0.294	0.301	11.88
39)		Carbon Tetrachlorid	0.382	0.333	0.315	0.218	0.386	0.358	0.332	18.71
40)	M	Benzene	0.746	0.741	0.562	0.487	0.755	0.661	0.659	16.99
41)	S	1,2-Dichloroethane-	0.211	0.201	0.149	0.214	0.181	0.661	0.191	14.00
42)		1,2-Dichloroethane	0.234	0.237	0.216	0.251	0.241	0.212	0.232	6.48
43)		Tertiary-amyl methy	0.621	0.612	0.581	0.504	0.644	0.600	0.593	8.23

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report VOA MASS

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:25:32 2006
Response via : Initial Calibration

Calibration Files
25 =M1041039.D 10 =M1041040.D 2.5 =M1041041.D
.5 =M1041042.D = 50 =M1041043.D

		Compound	25	10	2.5	.5	50	50/2	6/27/06 Avg	%RSD
44)	M	Trichloroethene	0.347	0.338	0.317	0.281	0.355	0.334	0.329	8.04
45)		Methyl Cyclohexane	0.297	0.289	0.255	0.221	0.300	0.284	0.274	11.19
46)		1,2-Dichloropropane	0.289	0.274	0.255	0.203	0.296	0.271	0.265	12.63
47)		Dibromomethane	0.211	0.203	0.183	0.116	0.214	0.195	0.187	19.56
48)		Methyl Methacrylate	0.174	0.167	0.165	0.129	0.185	0.164	0.164	11.49
49)		1,4-Dioxane	0.001	0.003	0.004	0.020	0.001	0.001	0.005	144.69
50)		Bromodichloromethan	0.472	0.453	0.412	0.352	0.479	0.446	0.436	10.86
51)		2-Nitropropane	0.034	0.034	0.031	0.033	0.034	0.030	0.033	5.05
52)		2-Chloroethyl vinyl	0.122	0.117	0.105	0.076	0.127	0.113	0.110	16.48
53)		4-Methyl-2-Pentanon	0.067	0.065	0.060	0.053	0.070	0.062	0.063	9.59
54)		cis-1,3-Dichloropro	0.421	0.401	0.346	0.269	0.430	0.396	0.377	15.98
55)		Toluene	0.599	0.577	0.528	0.442	0.598	0.549	0.549	10.80
56)		trans-1,3-Dichlorop	0.327	0.309	0.256	0.195	0.337	0.313	0.290	18.70
57)		1,1,2-Trichloroetha	0.188	0.181	0.172	0.123	0.191	0.173	0.171	14.57
58)	I	Chlorobenzene-d5	----------	ISTD	----------					
59)	S	Toluene-d8 (SURR)	1.126	1.090	1.029	0.837	1.155	1.082	1.053	10.84
60)		2-Hexanone	0.127	0.121	0.127	0.123	0.133	0.123	0.126	3.50
61)		Ethyl Methacrylate	0.356	0.341	0.336	0.318	0.374	0.344	0.345	5.45
62)		1,3-Dichloropropane	0.416	0.406	0.370	0.277	0.439	0.407	0.386	15.02
63)		Tetrachloroethene	0.373	0.363	0.325	0.235	0.381	0.361	0.340	16.11
64)		Dibromochloromethan	0.429	0.405	0.363	0.268	0.466	0.446	0.396	18.20
65)		1,2-Dibromoethane	0.385	0.362	0.320	0.238	0.405	0.384	0.349	17.66
66)		1-Chlorohexane	0.432	0.427	0.383	0.400	0.439	0.413	0.416	5.09
67)	M	Chlorobenzene	0.911	0.878	0.811	0.644	0.934	0.879	0.843	12.56
68)		1,1,1,2-Tetrachloro	0.392	0.367	0.342	0.230	0.408	0.394	0.355	18.55
69)		Ethylbenzene	1.312	1.284	1.214	1.033	1.326	1.227	1.233	8.73
70)		Xylene P,M	0.562	0.555	0.517	0.425	0.570	0.533	0.527	10.18
71)		Xylene O	0.548	0.524	0.480	0.385	0.554	0.520	0.502	12.55
72)		Styrene	0.953	0.916	0.839	0.684	0.963	0.904	0.877	11.86
73)		Bromoform	0.244	0.225	0.183	0.060	0.268	0.259	0.207	37.69
74)		cis1,4-Dichloro-2-b	0.044	0.045	0.039	0.050	0.049	0.259	0.046	9.54
75)	S	Bromofluorobenzene	0.645	0.626	0.611	0.562	0.648	0.610	0.617	5.11
76)	I	1,4 Dichlorobenzene-D	----------	ISTD	----------					
77)		Isopropylbenzene	2.913	2.823	2.492	2.141	2.940	2.795	2.684	11.56
78)		Trans-1,4-Dichloro-	0.125	0.113	0.145	0.140	2.940	2.795	0.131	11.11
79)		1,2,3-Trichloroprop	0.583	0.554	0.612	0.366	0.611	0.588	0.552	16.95
80)		Bromobenzene	0.843	0.810	0.731	0.619	0.868	0.831	0.784	11.87
81)		1,1,2,2-Tetrachloro	0.694	0.679	0.642	0.591	0.720	0.674	0.667	6.74
82)		n-Propylbenzene	3.140	2.927	2.666	2.458	3.031	2.929	2.859	8.80
83)		2-Chlorotoluene	2.207	2.171	1.895	1.833	2.196	2.073	2.062	7.86
84)		4-Chlorotoluene	2.380	2.349	2.214	2.041	2.385	2.294	2.277	5.81
85)		1,3,5-Trimethylbenz	2.199	2.165	1.986	1.790	2.214	2.122	2.079	7.87

(#) = Out of Range ### Number of calibration levels exceeded format ###

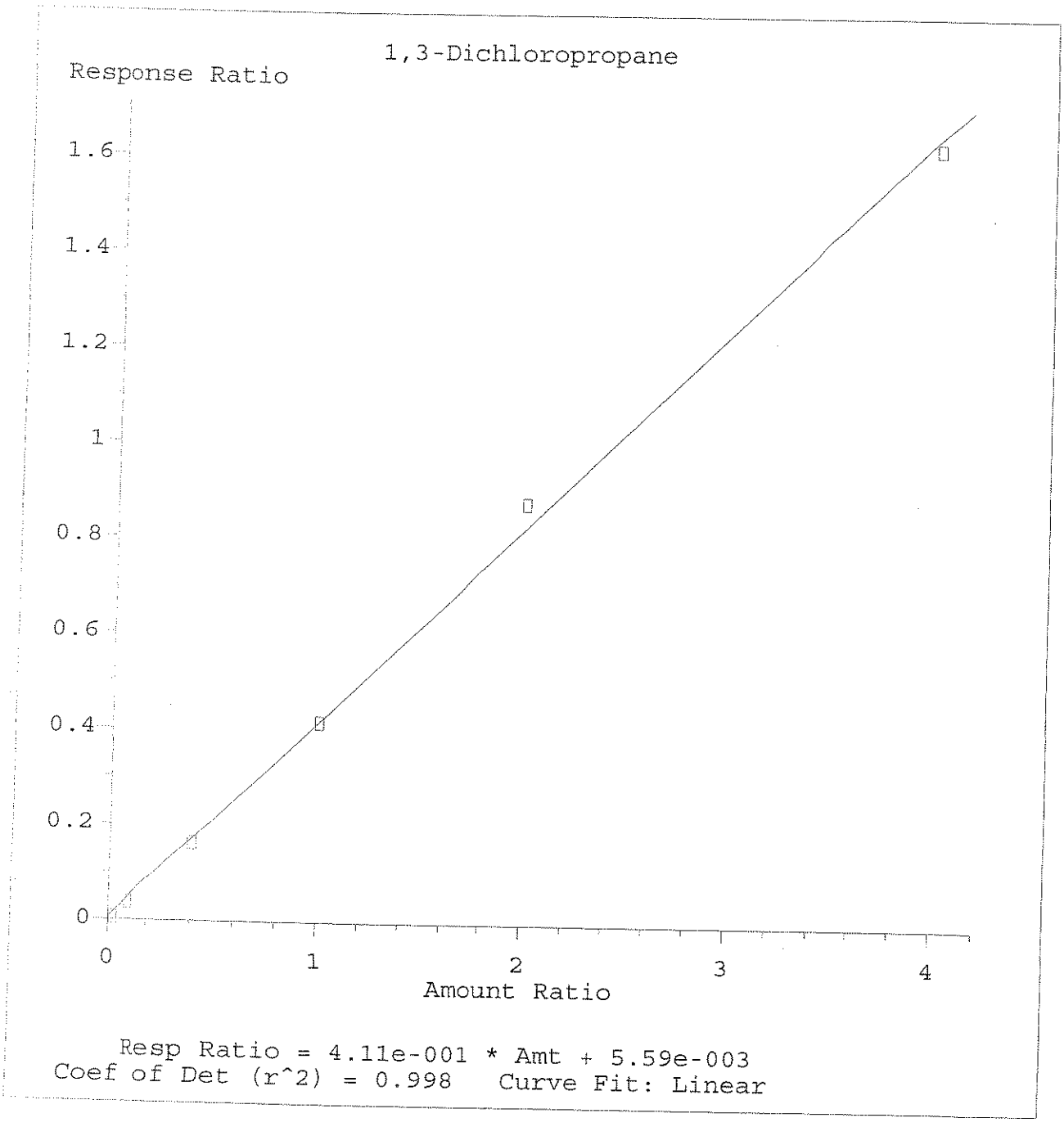
Response Factor Report VOA MASS

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:25:32 2006
Response via : Initial Calibration

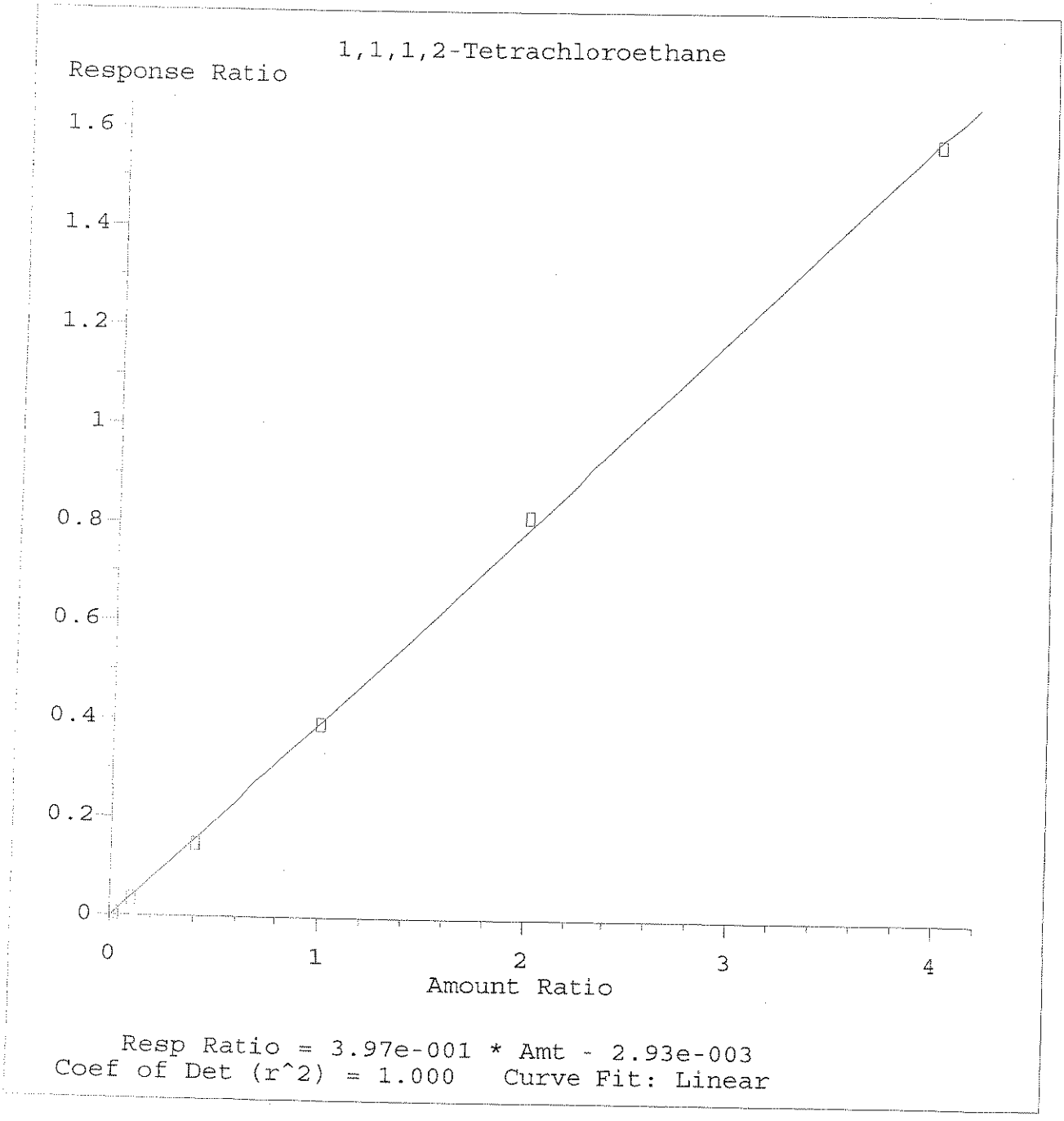
Calibration Files
25 =M1041039.D 10 =M1041040.D 2.5 =M1041041.D
.5 =M1041042.D = 50 =M1041043.D

	Compound	25	10	2.5	.5	50	100 ~~50~~	Avg	%RSD
86)	tert-Butylbenzene	2.751	2.664	2.403	2.013	2.764	2.654	2.542	11.39
87)	Pentachloroethane	2.751	2.664	2.403	2.013	2.764	2.654	2.542	11.39
88)	1,2,4-Trimethylbenz	2.267	2.193	1.987	1.759	2.238	2.130	2.096	9.18
89)	sec-Butylbenzene	2.729	2.704	2.454	2.097	2.741	2.632	2.559	9.78
90)	1,3 Dichlorobenzene	1.434	1.367	1.257	1.073	1.470	1.389	1.332	10.97
91)	4-Isopropyltoluene	2.213	2.175	1.962	1.713	2.205	2.128	2.066	9.48
92)	1,4 Dichlorobenzene	1.539	1.483	1.354	1.187	1.552	1.495	1.435	9.77
93)	n-Butylbenzene	1.721	1.688	1.564	1.768	1.663	1.607	1.669	4.46
94)	1,2 Dichlorobenzene	1.239	1.215	1.094	0.890	1.267	1.215	1.153	12.29
95)	Hexachloroethane	0.464	0.433	0.371	0.498	0.504	1.215	0.454	11.98
96)	1,2-Dibromo-3-Chlor	0.092	0.097	0.082	0.094	0.094	1.215	0.092	6.41
97)	1,2,4-Trichlorobenz	0.583	0.646	0.538	0.598	0.551	0.598	0.586	6.55
98)	Hexachlorobutadiene	0.269	0.326	0.256	0.356	0.256	0.278	0.290	14.26
99)	Naphthalene	0.806	0.992	0.793	1.128	0.799	0.838	0.893	15.40
100)	1,2,3-Trichlorobenz	0.398	0.543	0.405	0.623	0.382	0.416	0.461	21.32

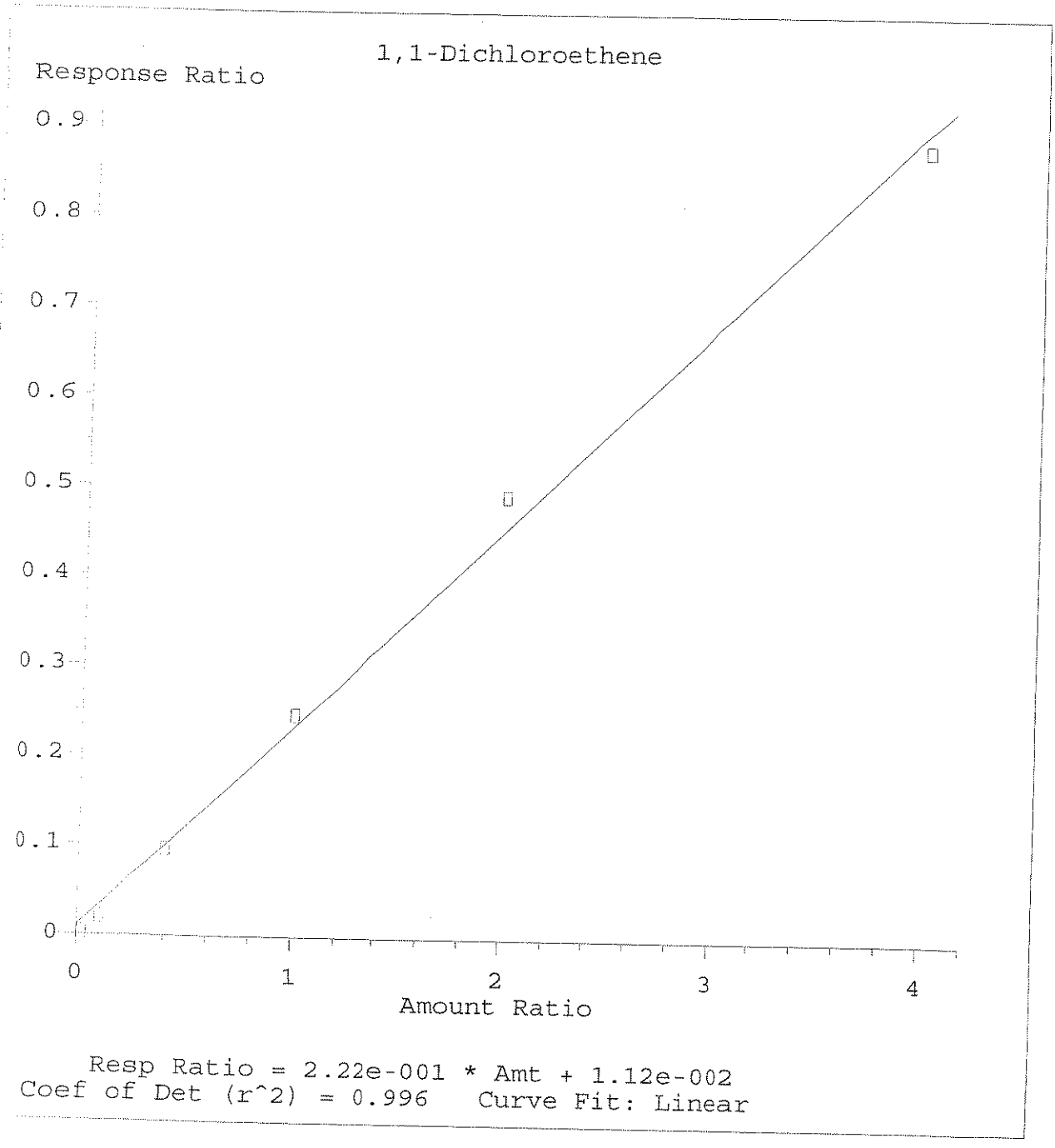
(#) = Out of Range ### Number of calibration levels exceeded format ###



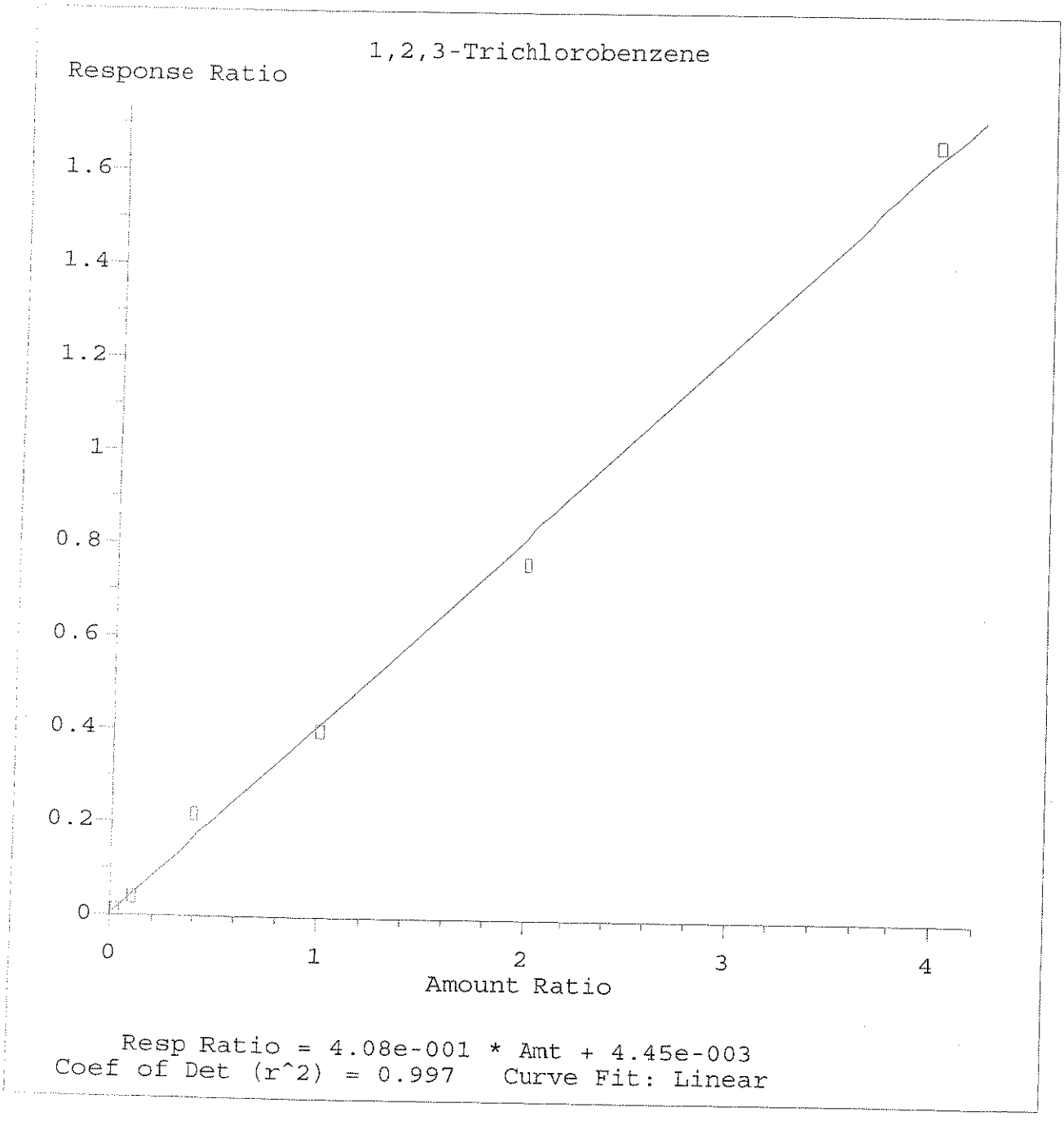
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:34:21 2006



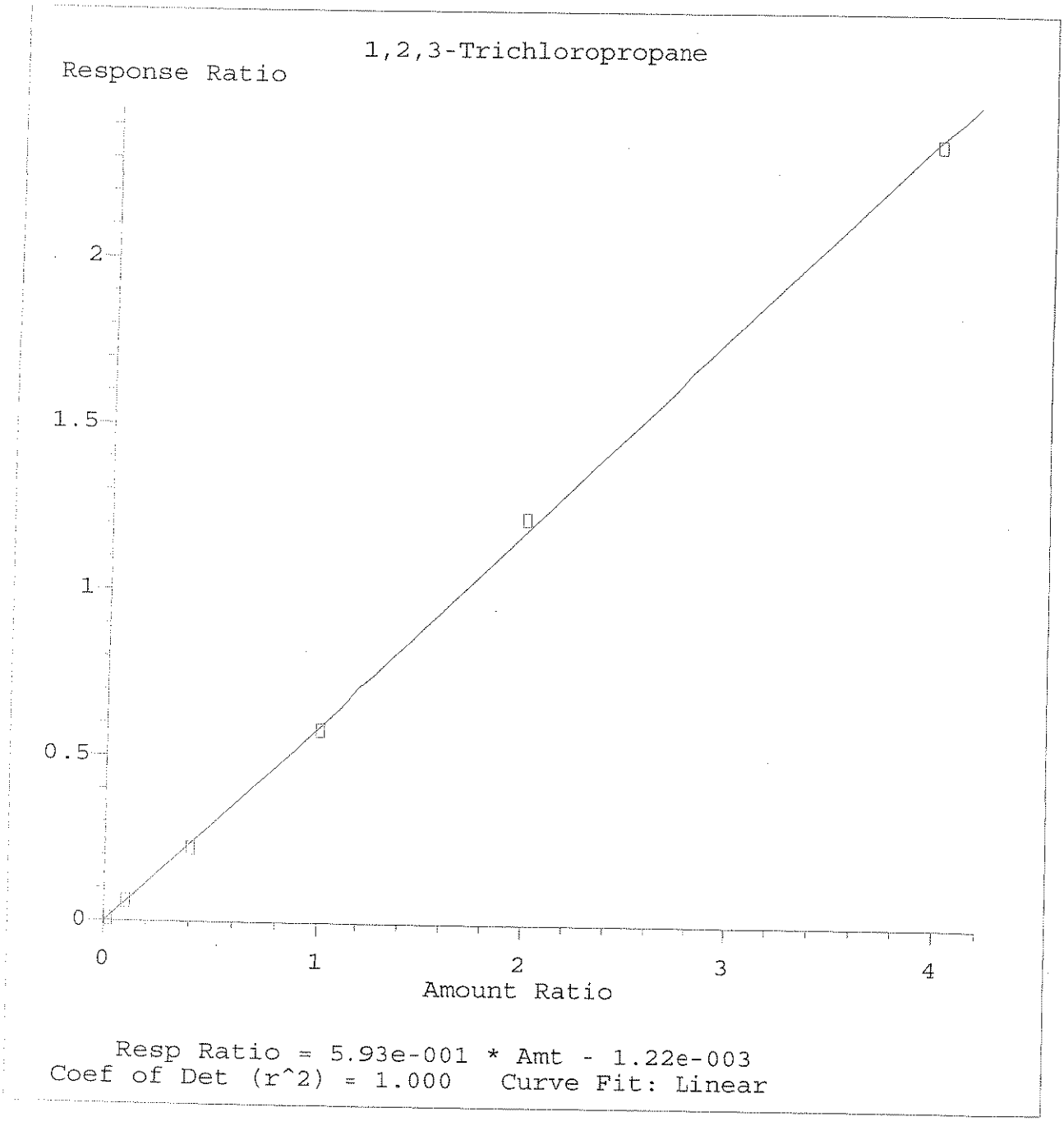
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:22:08 2006



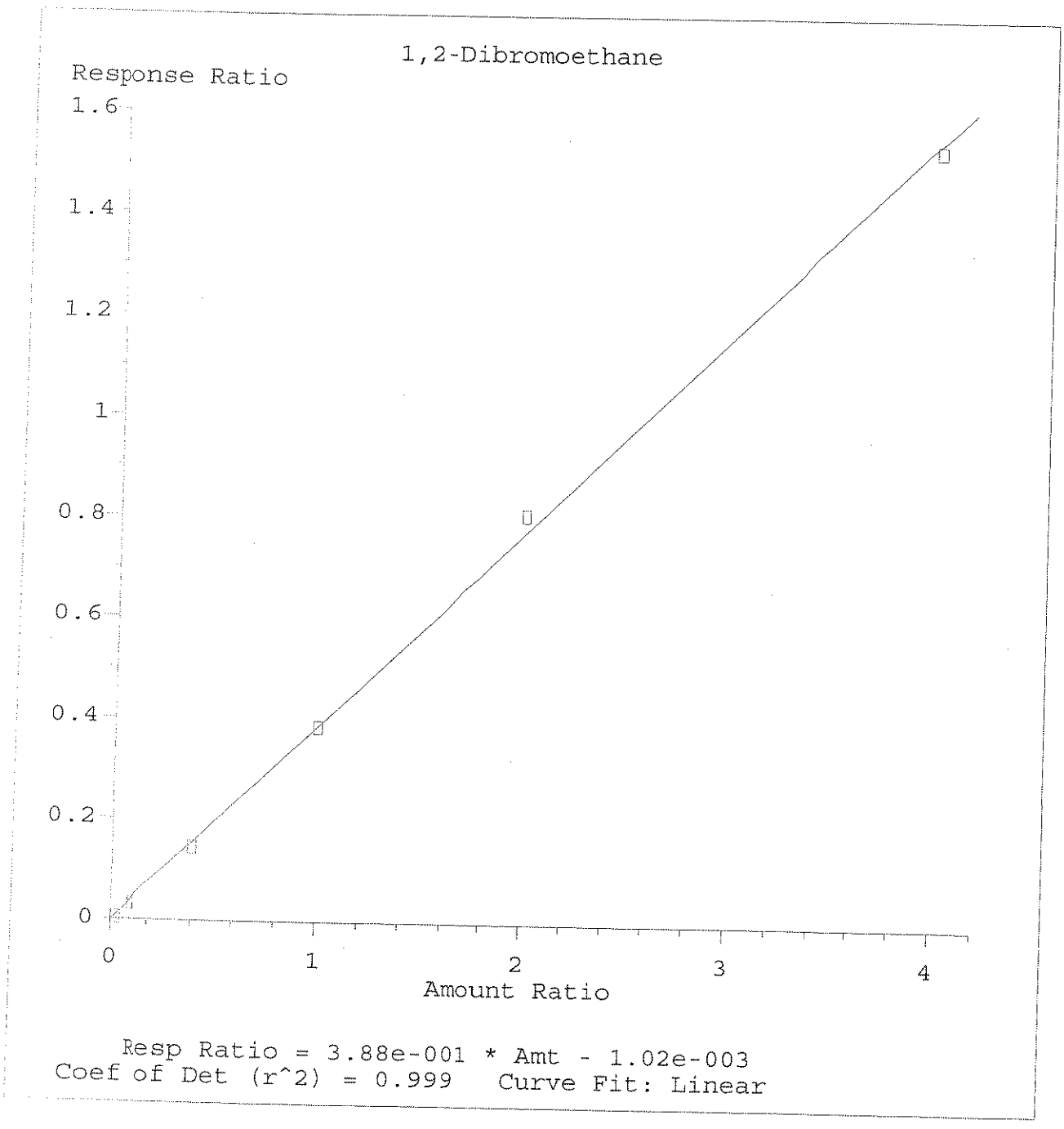
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 06:56:36 2006



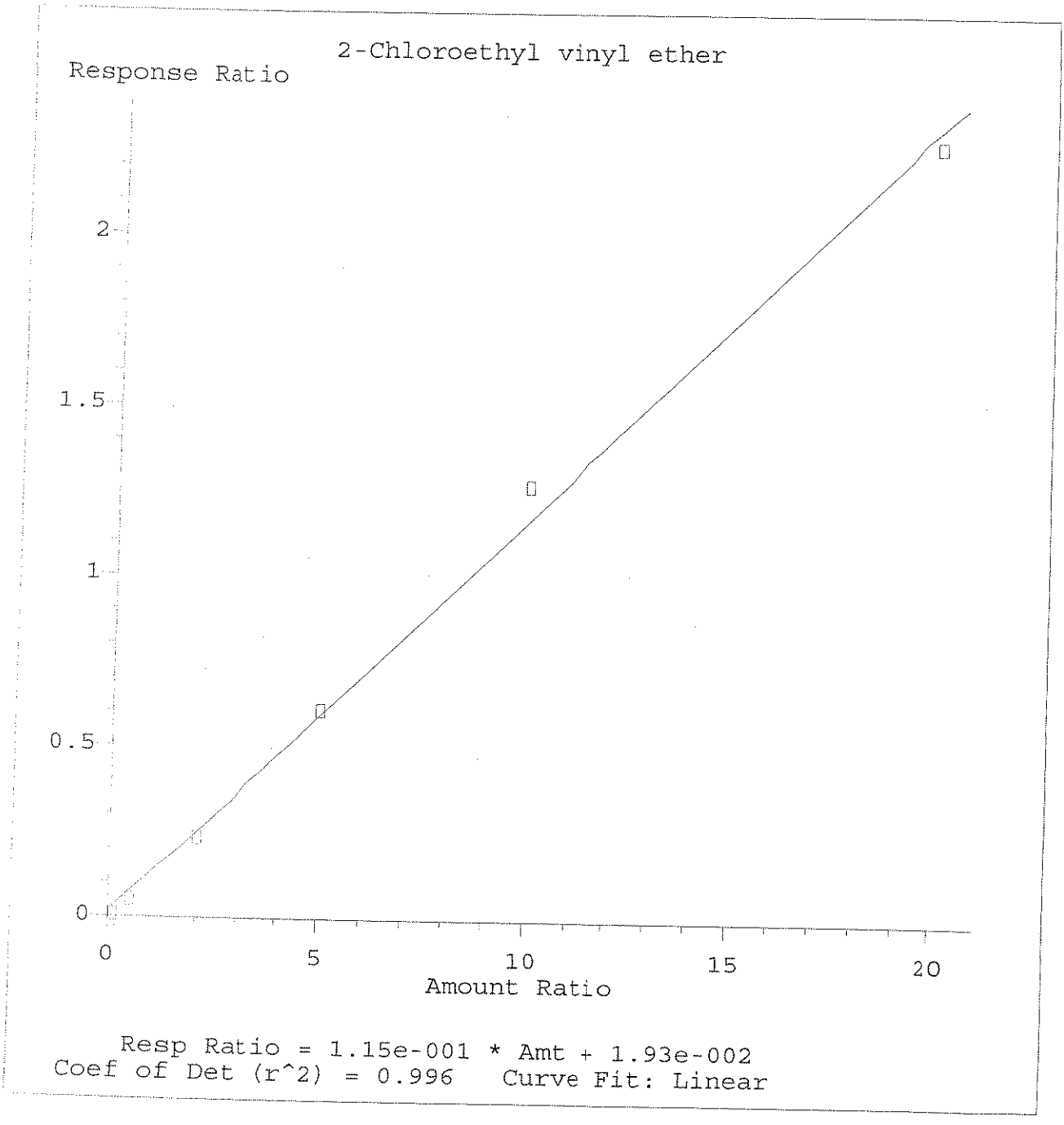
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:25:16 2006



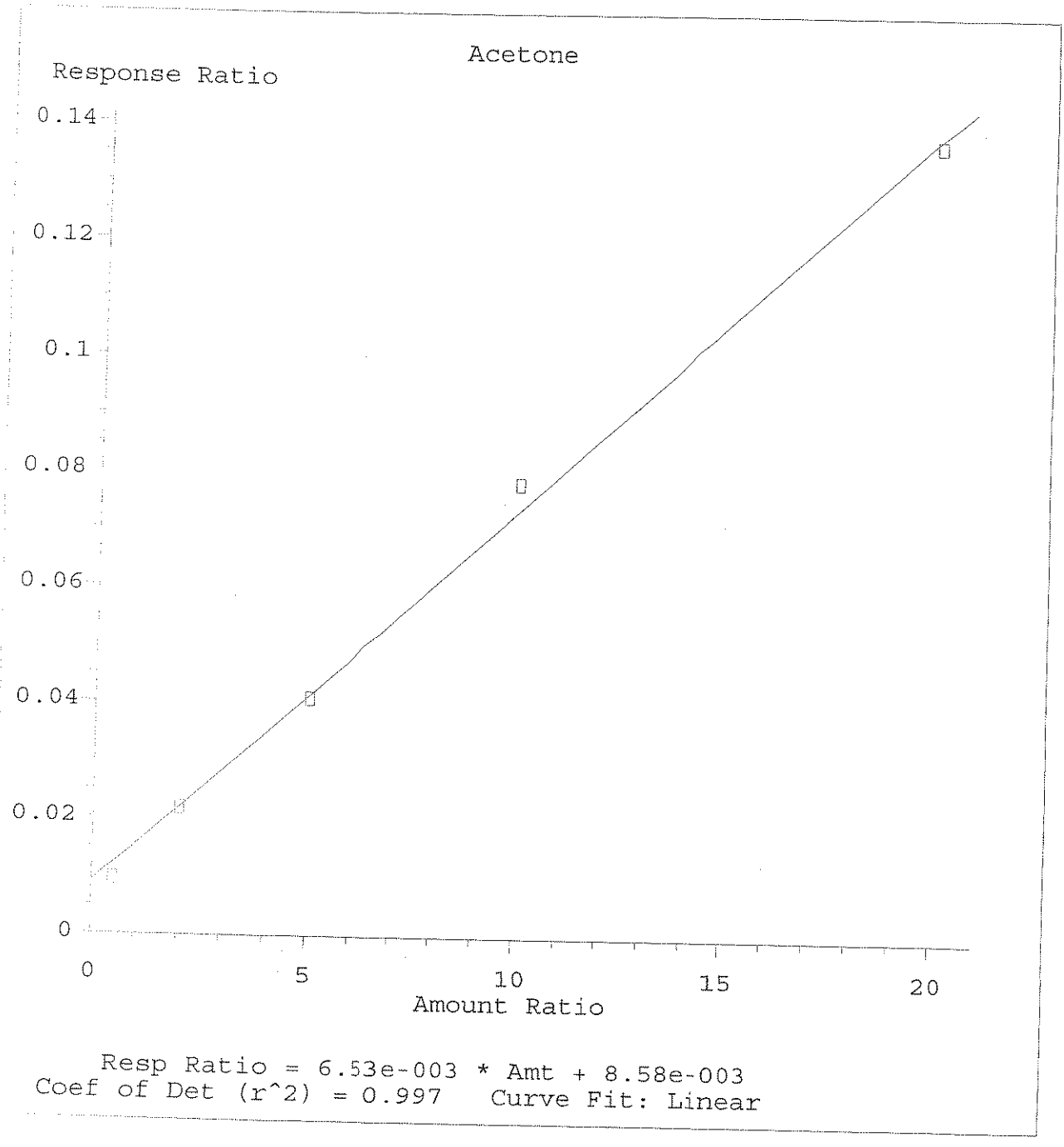
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:23:38 2006



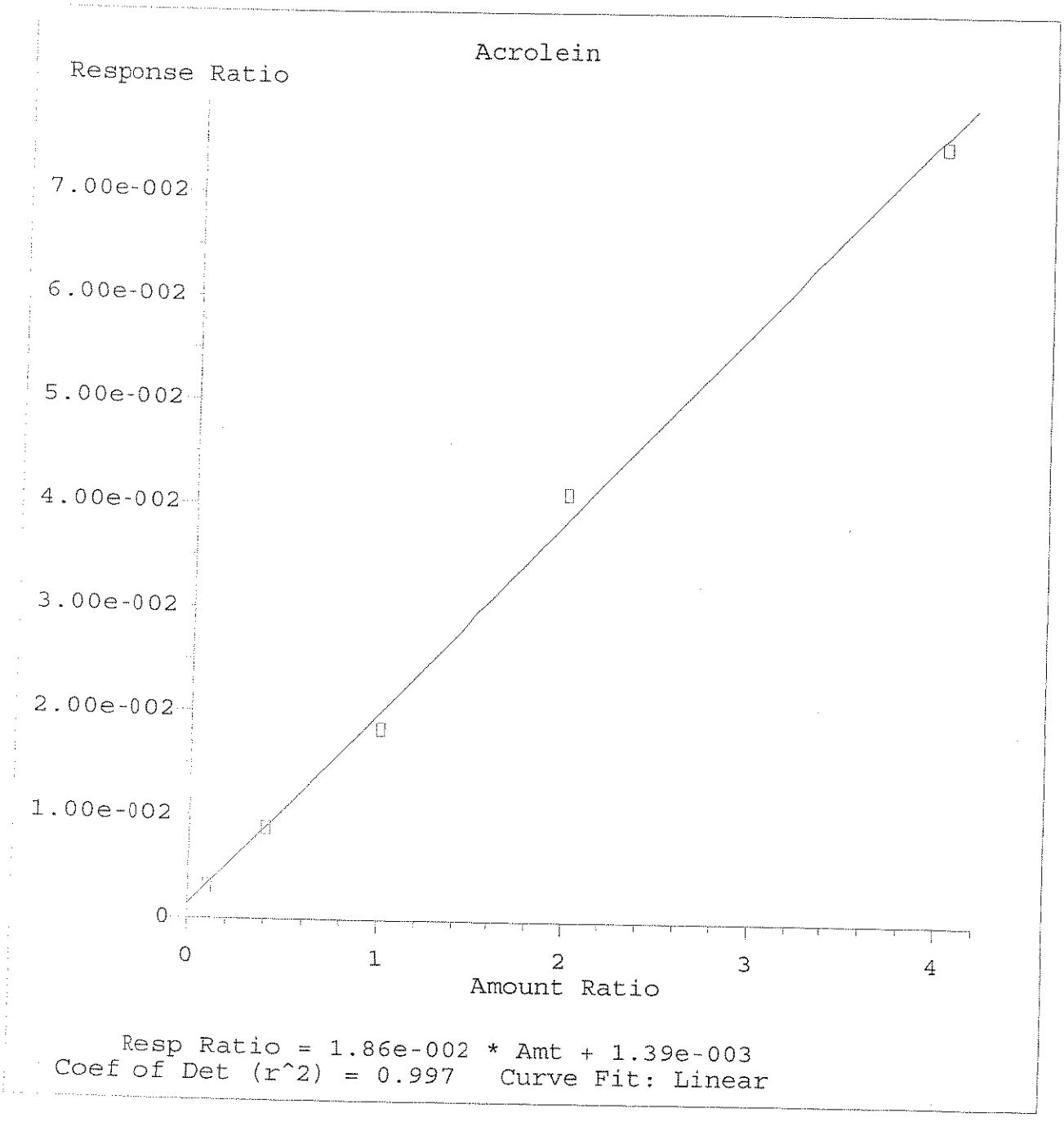
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:21:41 2006



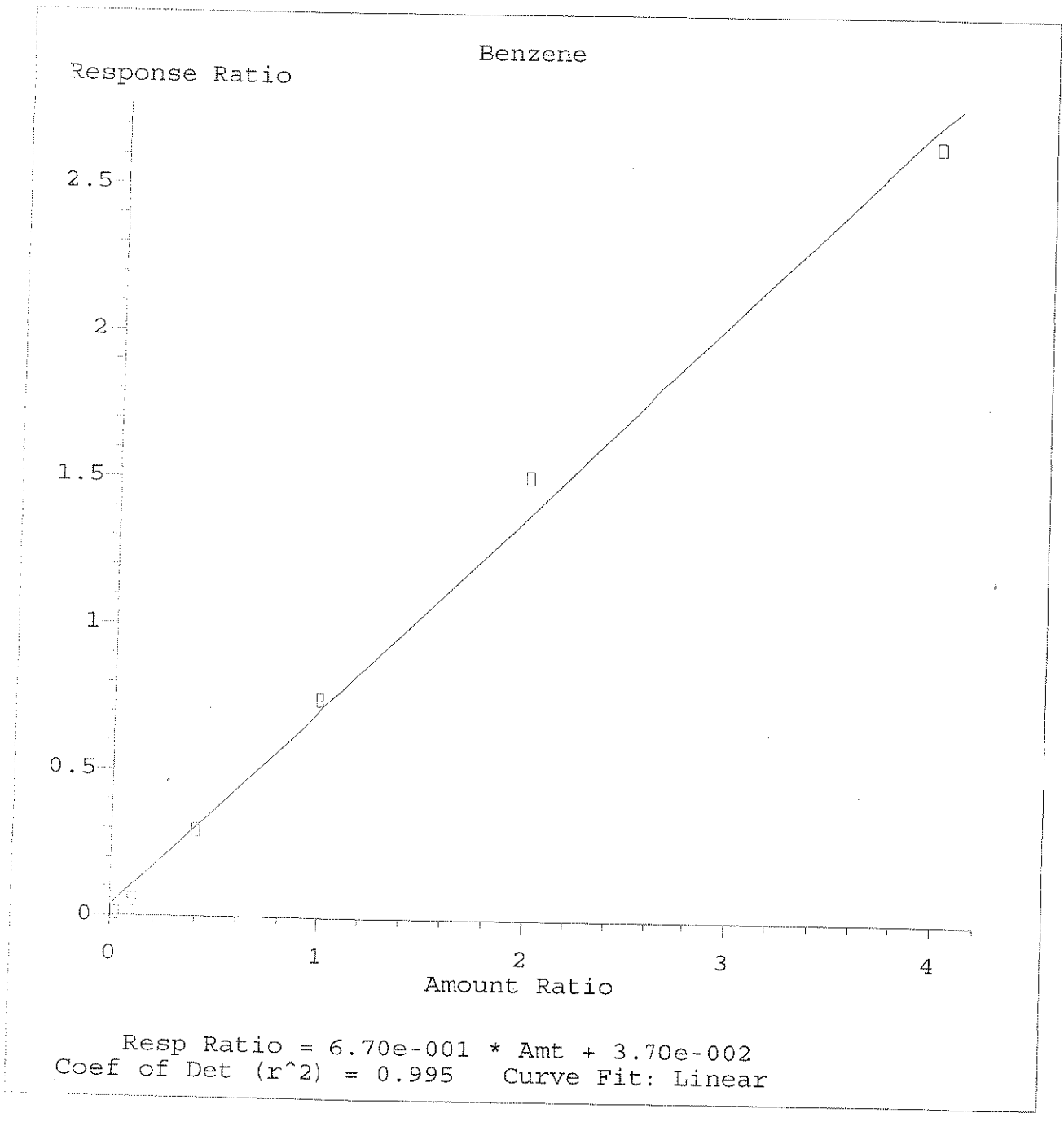
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:18:27 2006



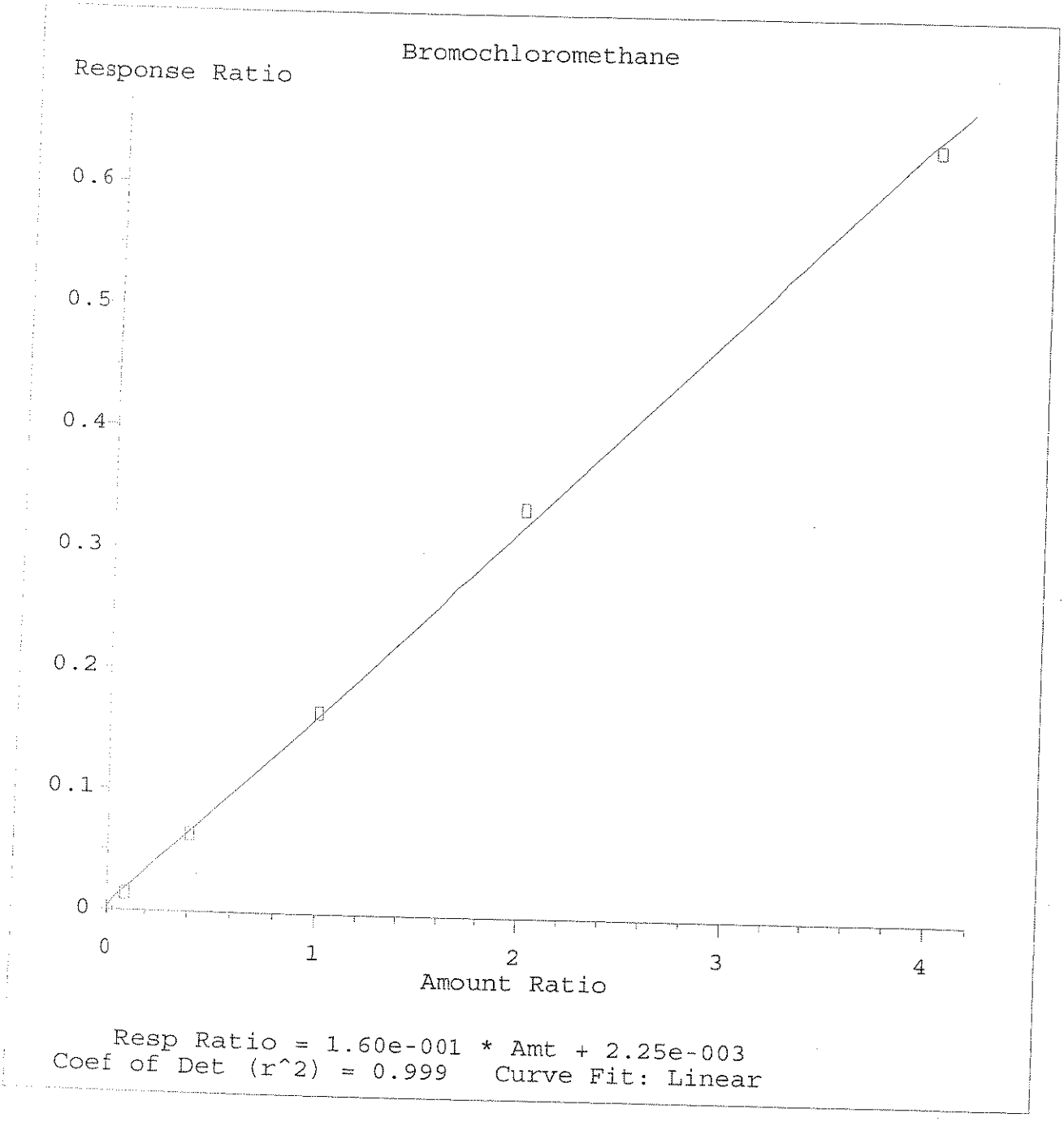
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 06:53:51 2006



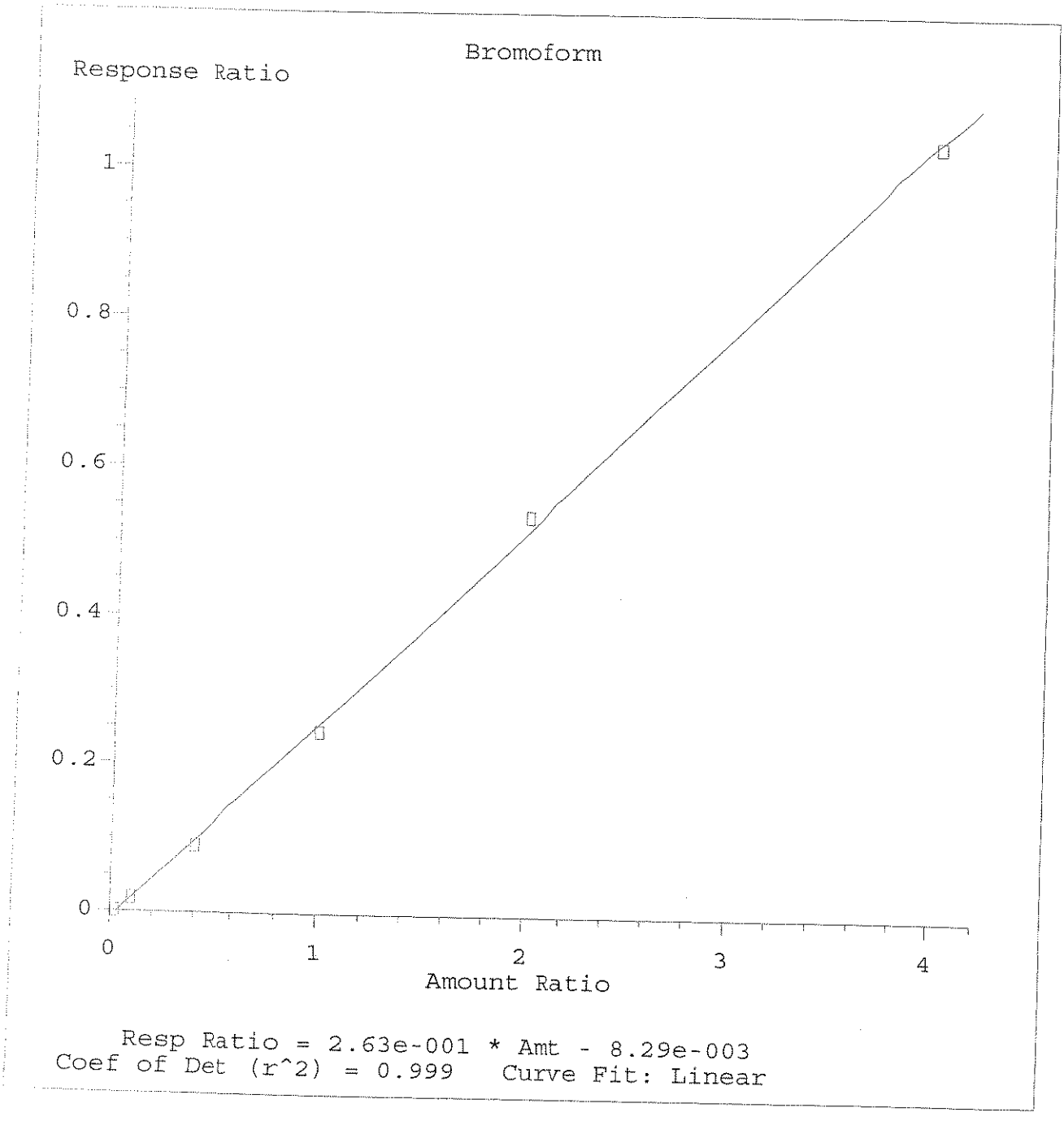
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 06:53:04 2006



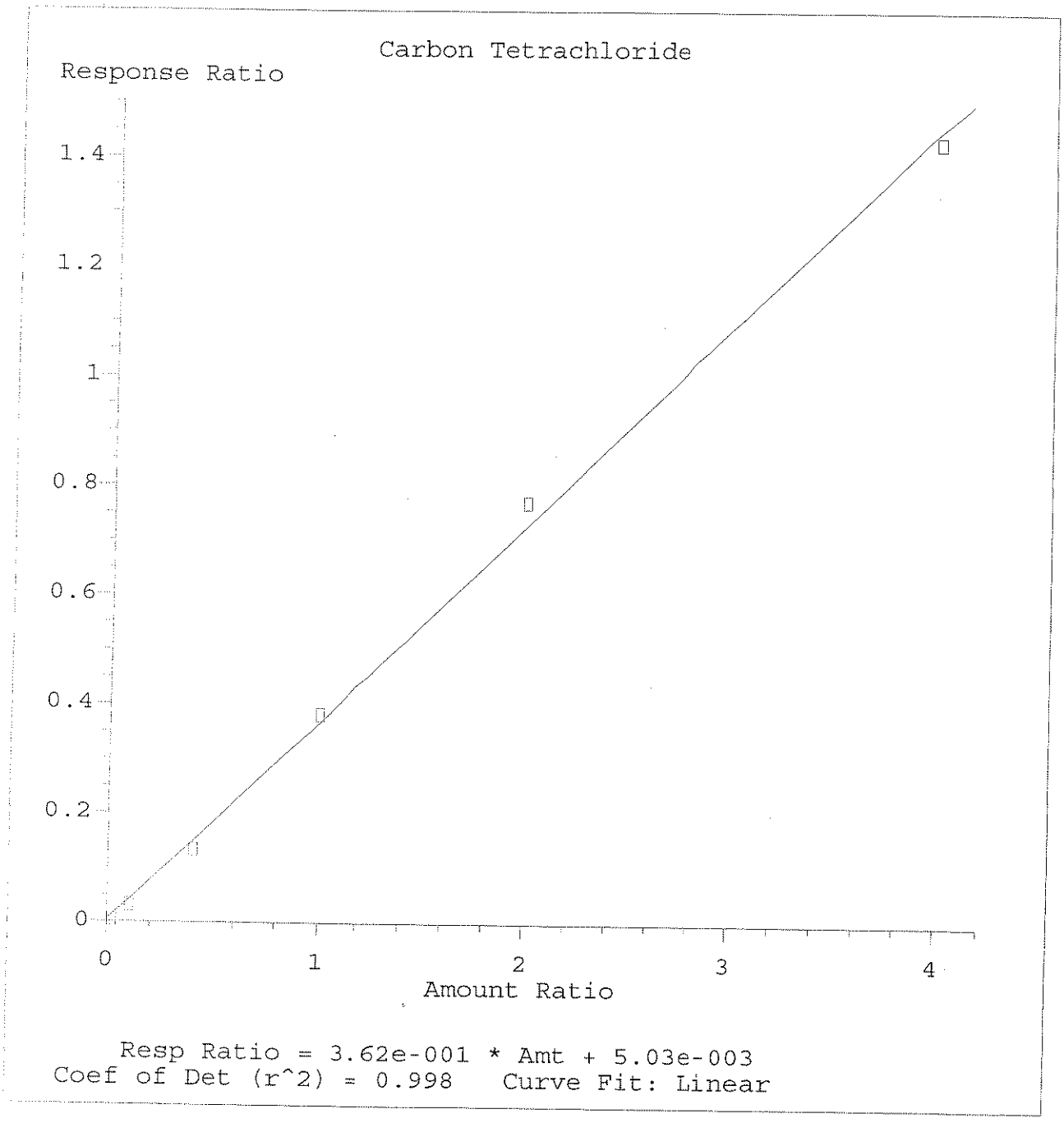
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:17:16 2006



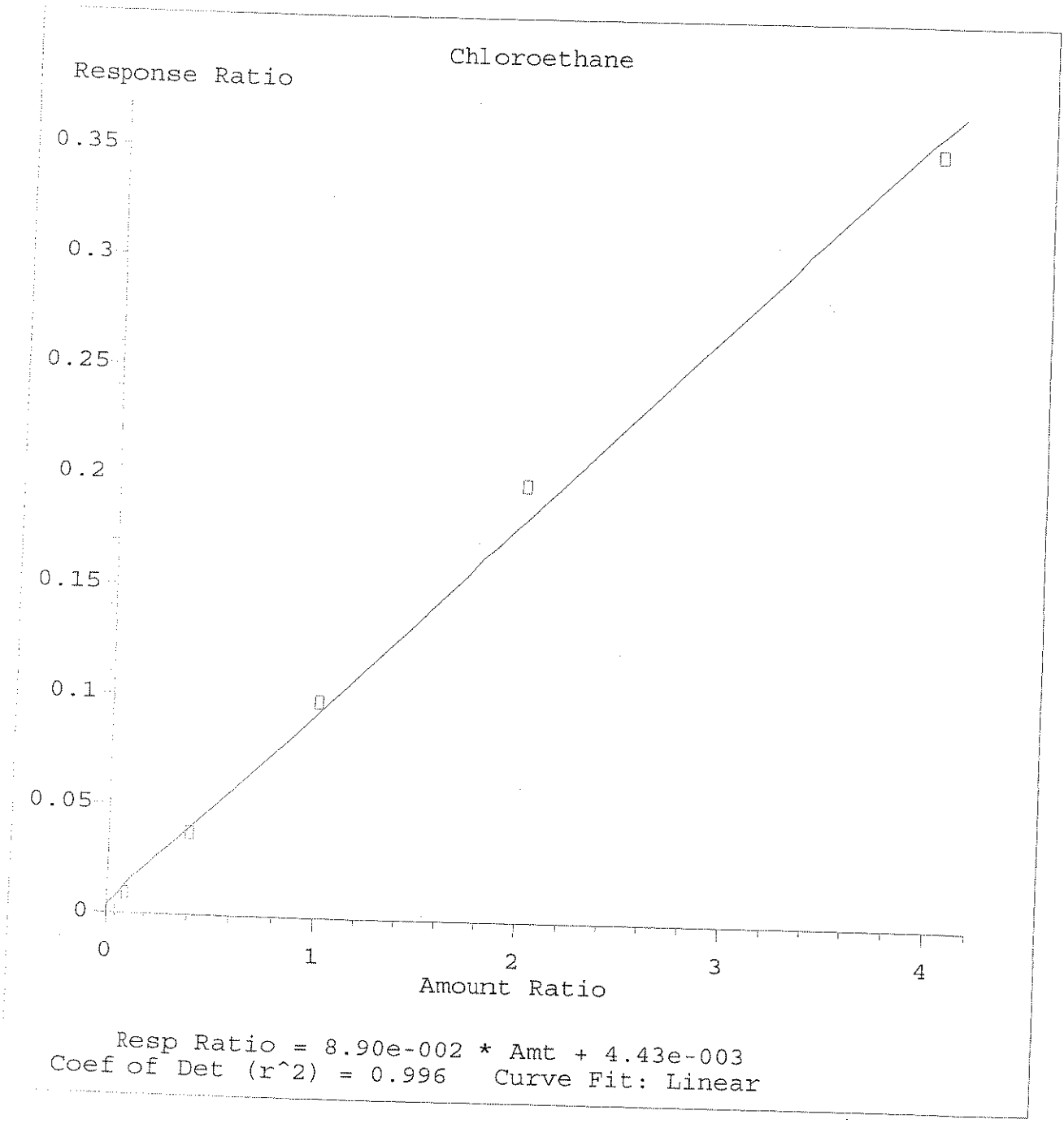
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 06:58:52 2006



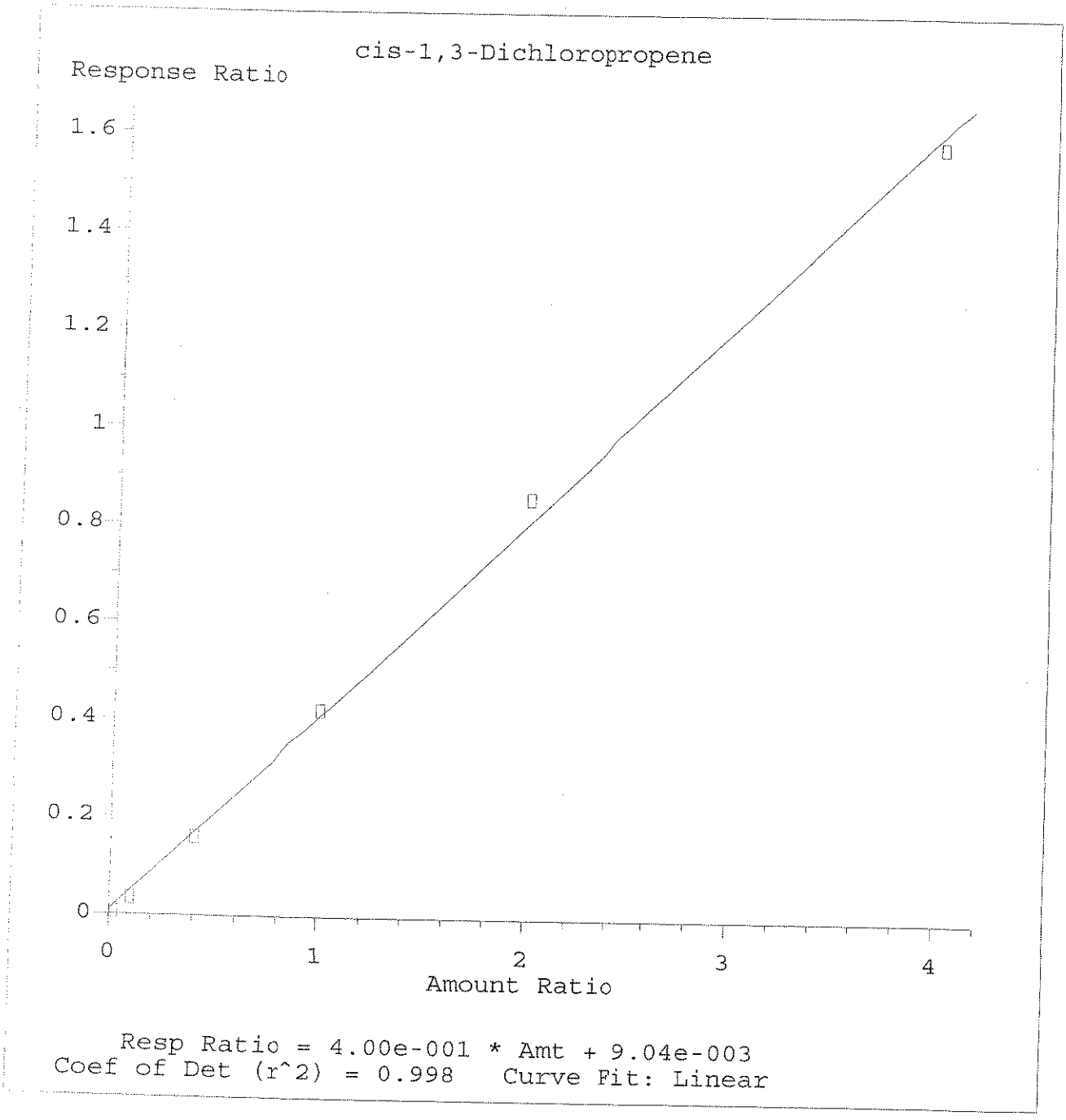
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:22:38 2006



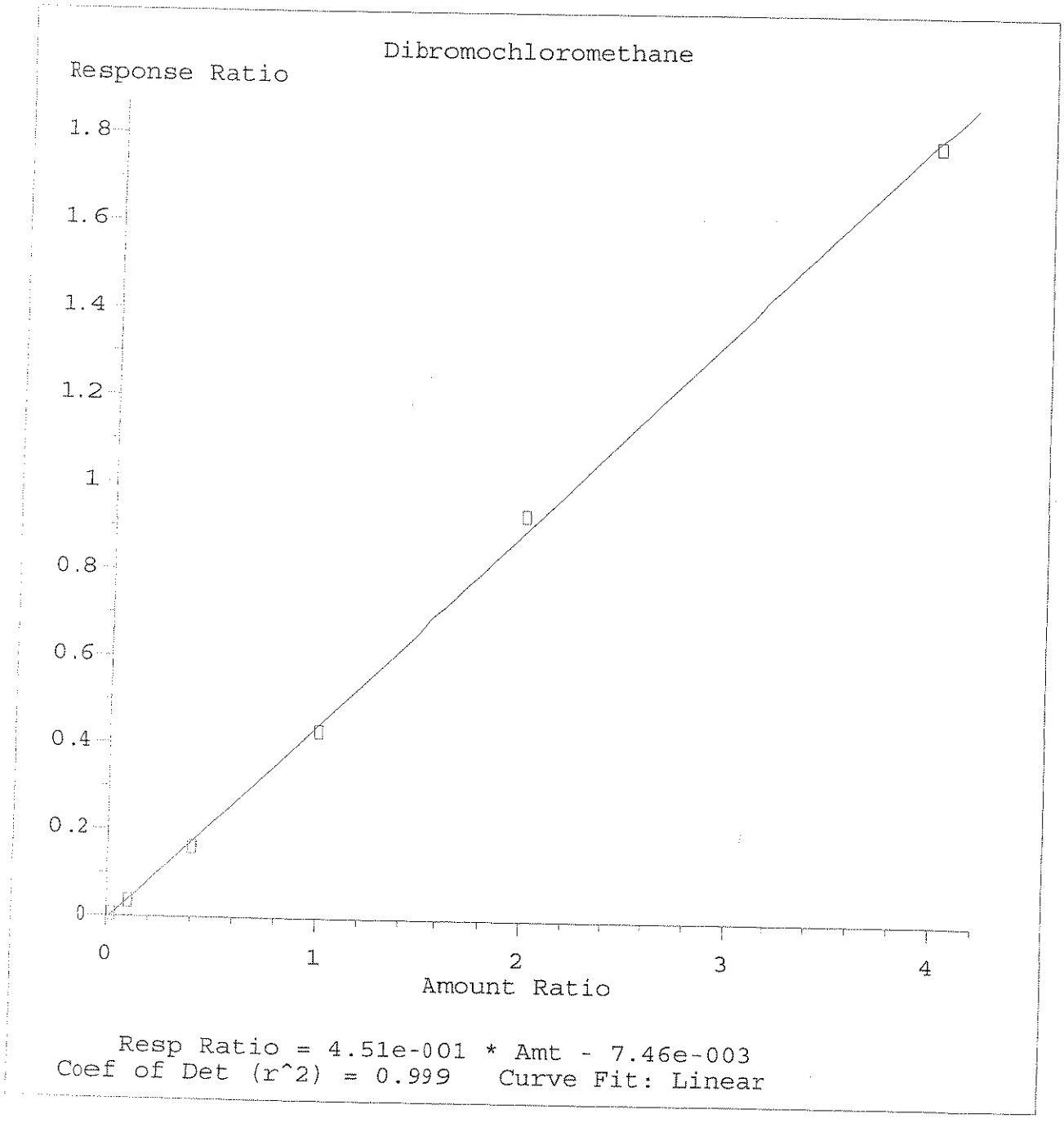
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:10:08 2006



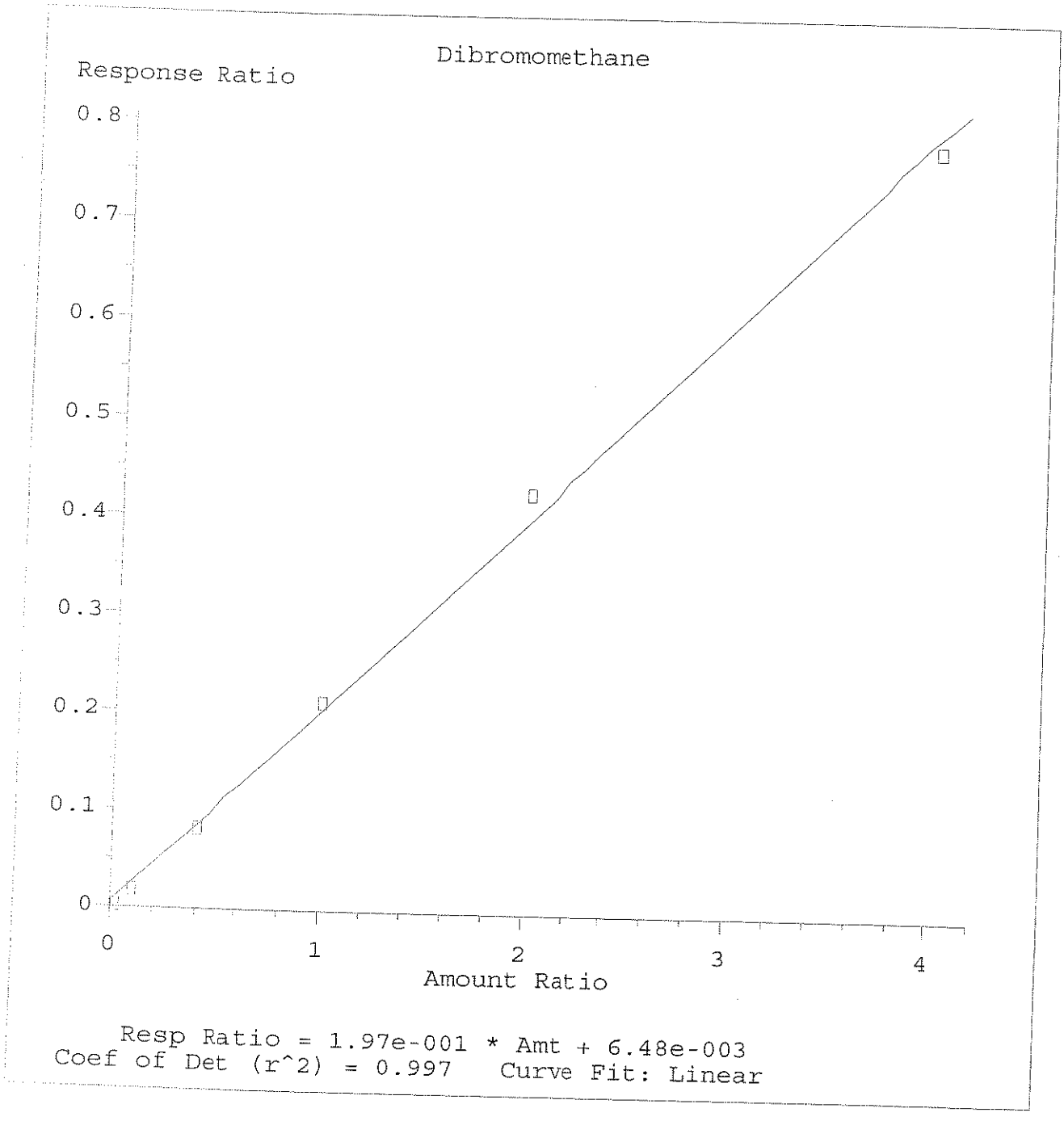
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 06:51:34 2006



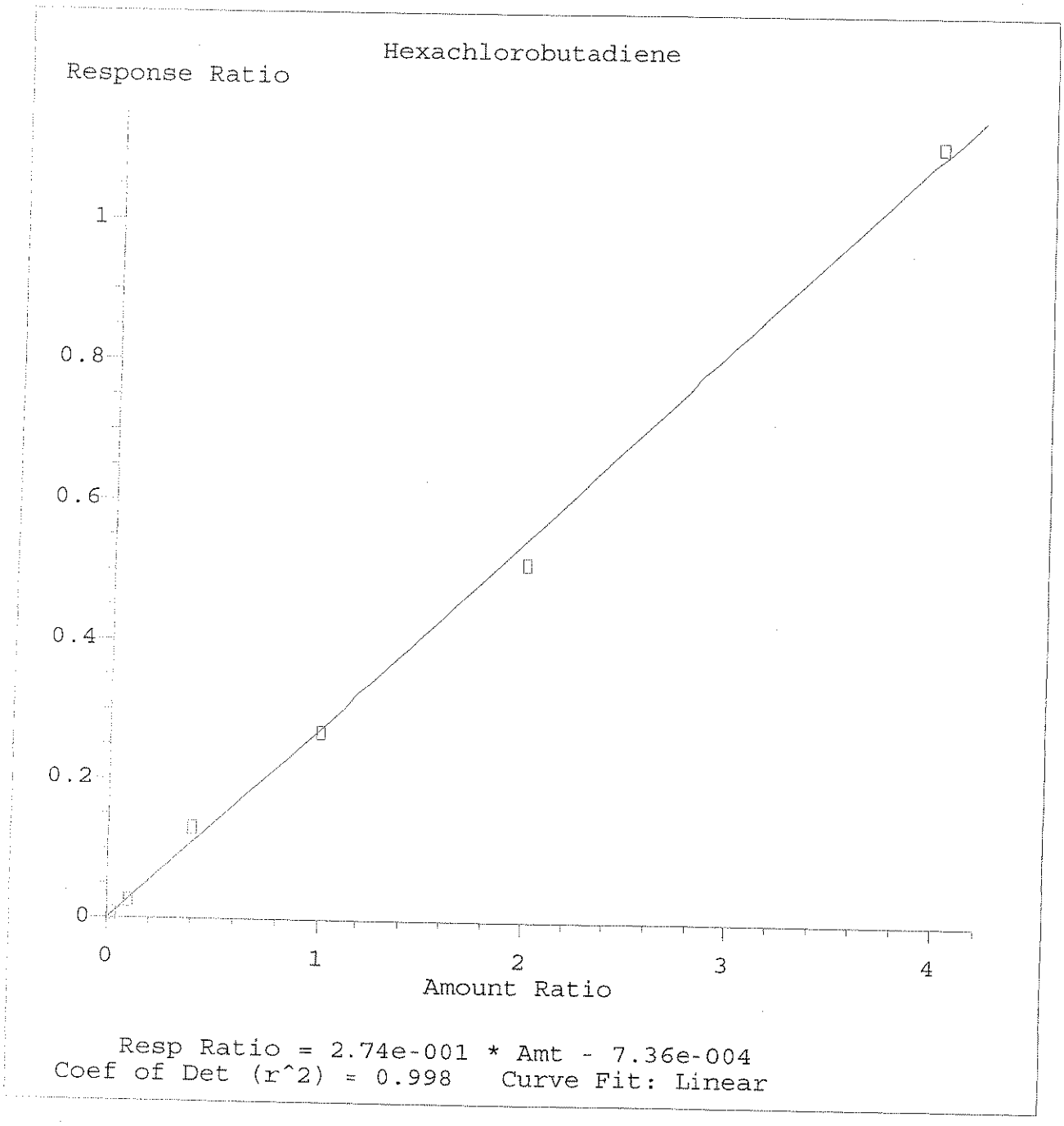
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:19:51 2006



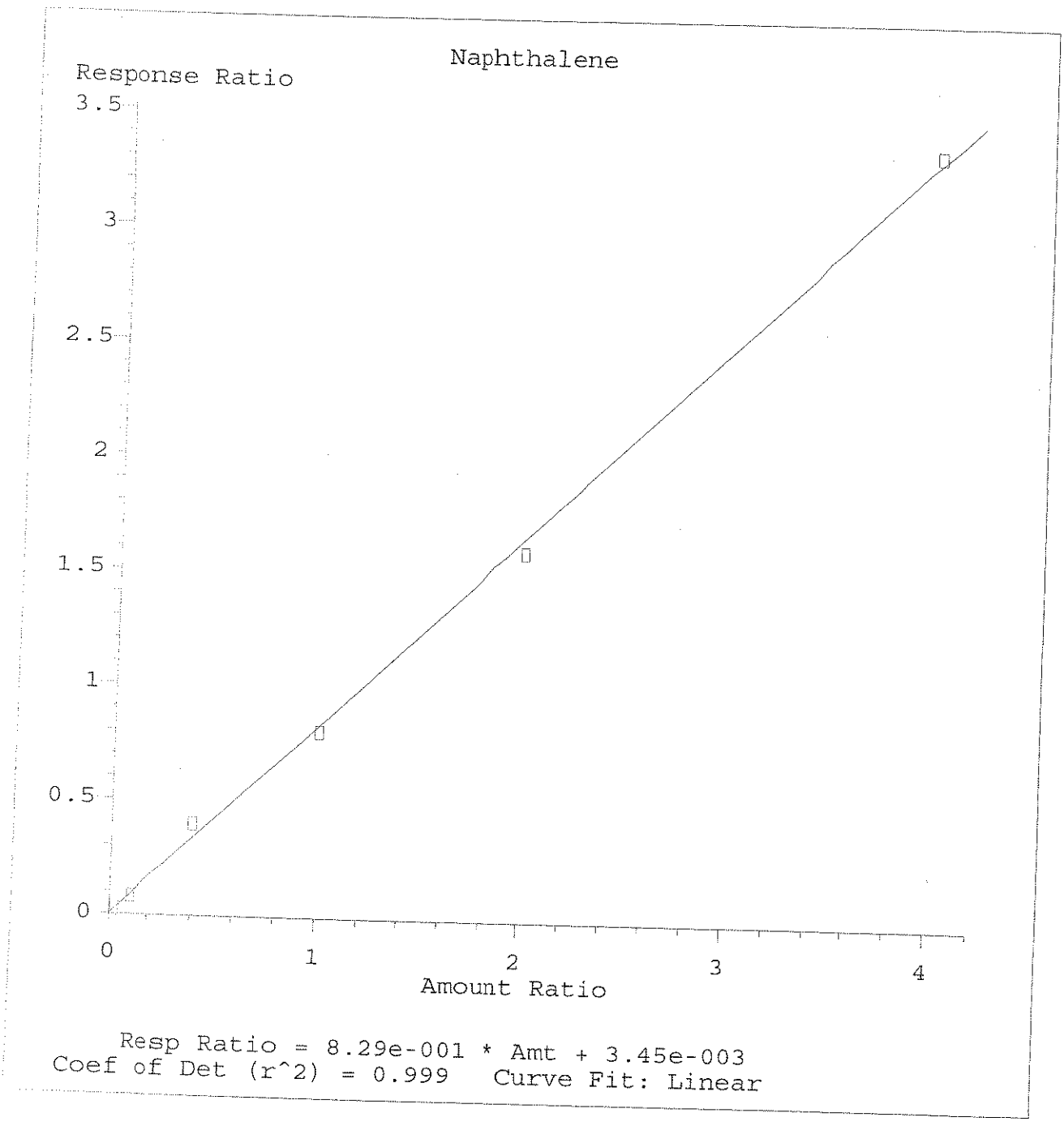
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:21:28 2006



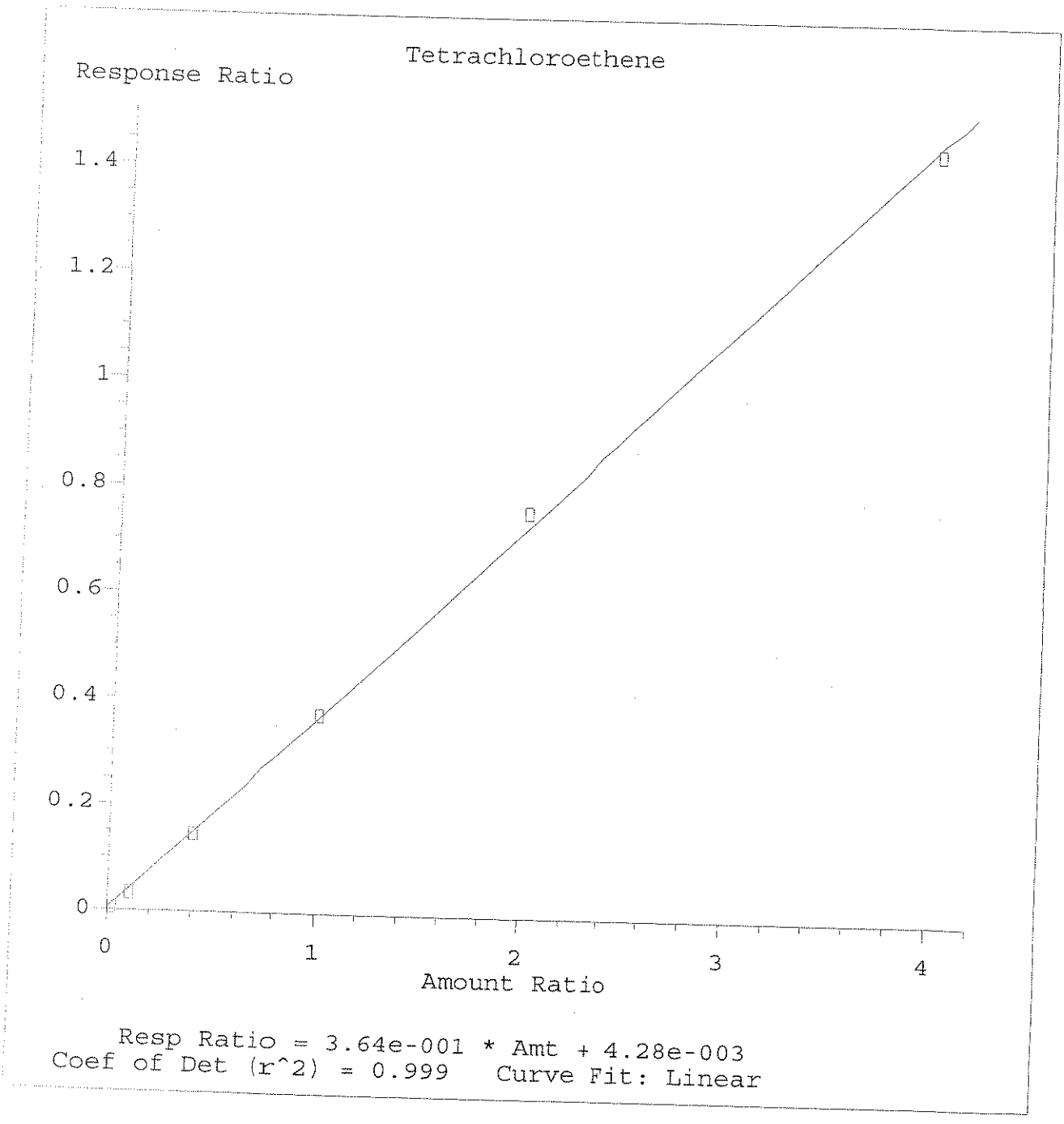
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:17:47 2006



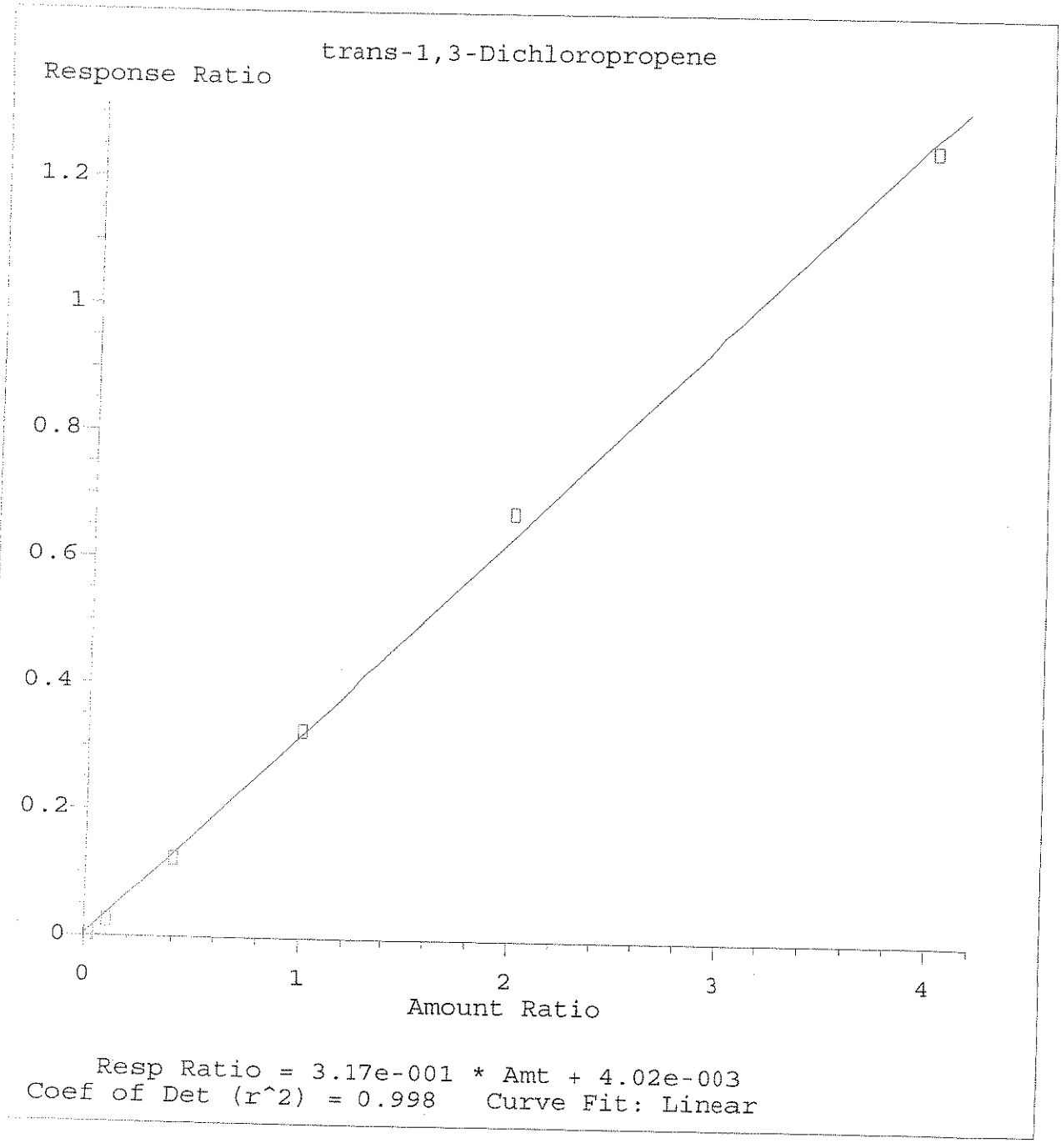
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:24:47 2006



Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:25:06 2006



Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:20:48 2006



Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:20:19 2006

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062706\M1041046.D Vial: 9
Acq On : 27 Jun 106 7:32 pm Operator: RES
Sample : BPF0223-SCV1 Inst : VOA MASS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	109	0.00
2		Dichlorodifluoromethane	0.432	0.421	2.6	96	0.00
3		Chloromethane	0.277	0.246	10.9	95	-0.01
4		Vinyl Chloride	0.238	0.234	1.4	97	0.00
5		Bromomethane	0.228	0.216	5.1	107	0.00
6		Chloroethane	0.087	0.098	-13.0	109	0.00
7		Trichlorofluoromethane	0.478	0.471	1.3	101	0.01
8		Diethyl ether	0.140	0.138	0.8	102	-0.01
9		Acrolein	0.022	0.010	53.6#	62	0.00
10		1,1,2-Trichloro-1,2,2-trifl	0.444	0.437	1.6	98	0.00
11		Acetone	0.011	0.008	28.7	101	-0.01
12		Iodomethane	0.642	0.636	1.0	108	0.00
13		Carbon Disulfide	0.626	0.629	-0.5	100	0.00
14	M	1,1-Dichloroethene	0.220	0.241	-9.7	107	0.00
15		Allyl Chloride	0.369	0.343	7.1	94	0.00
16		Methyl Acetate	0.104	0.108	-4.0	121	-0.01
17		Methylene Chloride	0.252	0.255	-1.3	102	0.00
18		Methyl tert-Butyl Ether	0.444	0.437	1.6	102	0.00
19		Acrylonitrile	0.035	0.032	8.7	93	-0.01
20		trans-1,2-Dichloroethene	0.254	0.264	-3.6	103	0.00
21		1,1-Dichloroethane	0.407	0.404	0.7	100	-0.01
22		Vinyl Acetate	0.761	0.657	13.7	88	0.00
23		Chloroprene	0.287	0.000	100.0#	0#	-0.02
24		Di-isopropyl ether	0.919	0.905	1.5	103	-0.01
25		Ethyl tertiary-butyl ether	0.685	0.659	3.7	99	0.00
26		2-Butanone	0.011	0.010	8.4	93	-0.02
27		cis-1,2 Dichloroethene	0.247	0.263	-6.6	108	0.00
28		2,2-Dichloropropane	0.362	0.326	10.1	94	0.00
29		Methyl Acrylate	0.122	0.113	7.7	97	-0.01
30		Bromochloromethane	0.149	0.156	-4.8	103	0.00
31		Methacrylonitrile	0.077	0.070	9.8	99	-0.01
32		Tetrahydrofuran	0.031	0.028	9.7	102	-0.01
33		Chloroform	0.446	0.440	1.4	103	0.00
34	S	Dibromofluoromethane(SURR)	0.437	0.402	8.0	93	0.00
35		1,1,1-Trichloroethane	0.393	0.396	-1.0	100	0.00
36		Cyclohexane	0.228	0.219	4.1	94	0.01
37		1-Chlorobutane	0.487	0.500	-2.8	110	0.00
38		1,1-Dichloropropene	0.301	0.297	1.5	95	0.00
39		Carbon Tetrachloride	0.332	0.350	-5.6	100	0.00
40	M	Benzene	0.659	0.704	-6.9	103	0.00
41	S	1,2-Dichloroethane-d4(SURR)	0.191	0.166	13.4	86	0.00
42		1,2-Dichloroethane	0.232	0.212	8.4	99	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062706\M1041046.D Vial: 9
Acq On : 27 Jun 106 7:32 pm Operator: RES
Sample : BPF0223-SCV1 Inst : VOA MASS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43		Tertiary-amyl methyl ether	0.593	0.571	3.8	100	0.00
44	M	Trichloroethene	0.329	0.327	0.7	103	0.00
45		Methyl Cyclohexane	0.274	0.283	-3.0	104	0.00
46		1,2-Dichloropropane	0.265	0.264	0.4	99	0.00
47		Dibromomethane	0.187	0.198	-5.8	102	0.00
48		Methyl Methacrylate	0.164	0.157	4.4	98	-0.01
49		1,4-Dioxane	0.005	0.001	78.8#	88	0.01
50		Bromodichloromethane	0.436	0.458	-5.2	106	0.00
51		2-Nitropropane	0.033	0.031	4.8	100	0.00
52		2-Chloroethyl vinyl ether	0.110	0.021	80.6#	19#	0.00
53		4-Methyl-2-Pentanone	0.063	0.060	4.8	97	0.00
54		cis-1,3-Dichloropropene	0.377	0.374	0.9	97	0.00
55		Toluene	0.549	0.557	-1.4	101	0.00
56		trans-1,3-Dichloropropene	0.290	0.267	7.6	89	0.00
57		1,1,2-Trichloroethane	0.171	0.175	-2.1	101	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
59	S	Toluene-d8 (SURR)	1.053	1.004	4.6	92	0.00
60		2-Hexanone	0.126	0.121	4.0	98	0.00
61		Ethyl Methacrylate	0.345	0.347	-0.6	100	0.00
62		1,3-Dichloropropane	0.386	0.407	-5.6	101	0.00
63		Tetrachloroethene	0.340	0.360	-5.9	99	0.00
64		Dibromochloromethane	0.396	0.426	-7.5	102	0.00
65		1,2-Dibromoethane	0.349	0.365	-4.7	97	0.00
66		1-Chlorohexane	0.416	0.411	1.1	98	0.00
67	M	Chlorobenzene	0.843	0.868	-3.0	98	0.00
68		1,1,1,2-Tetrachloroethane	0.355	0.376	-5.8	98	0.00
69		Ethylbenzene	1.233	1.296	-5.2	101	0.00
70		Xylene P,M	0.527	0.546	-3.7	100	0.01
71		Xylene O	0.502	0.532	-6.1	100	0.00
72		Styrene	0.877	0.931	-6.2	100	0.00
73		Bromoform	0.207	0.238	-15.2	100	0.00
74		cis1,4-Dichloro-2-butene	0.046	0.000	100.0#	0#	-11.84#
75	S	Bromofluorobenzene (SURR)	0.617	0.567	8.1	90	0.00
76	I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	103	0.00
77		Isopropylbenzene	2.684	2.594	3.3	92	0.00
78		Trans-1,4-Dichloro-2-Butene	0.131	0.115	12.6	94	0.00
79		1,2,3-Trichloropropane	0.552	0.549	0.6	97	-0.01
80		Bromobenzene	0.784	0.838	-6.9	103	0.00
81		1,1,2,2-Tetrachloroethane	0.667	0.656	1.6	98	0.00
82		n-Propylbenzene	2.859	2.959	-3.5	97	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062706\M1041046.D Vial: 9
Acq On : 27 Jun 106 7:32 pm Operator: RES
Sample : BPF0223-SCV1 Inst : VOA MASS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	2-Chlorotoluene	2.062	2.096	-1.6	98	0.00
84	4-Chlorotoluene	2.277	2.235	1.8	97	0.00
85	1,3,5-Trimethylbenzene	2.079	2.130	-2.4	100	0.00
86	tert-Butylbenzene	2.542	2.654	-4.4	100	0.00
87	Pentachloroethane	2.542	2.654	-4.4	100	0.00
88	1,2,4-Trimethylbenzene	2.096	2.196	-4.8	100	0.00
89	sec-Butylbenzene	2.559	2.618	-2.3	99	0.00
90	1,3 Dichlorobenzene	1.332	1.351	-1.5	97	0.00
91	4-Isopropyltoluene	2.066	2.101	-1.7	98	0.00
92	1,4 Dichlorobenzene	1.435	1.423	0.9	96	0.00
93	n-Butylbenzene	1.669	1.649	1.2	99	0.00
94	1,2 Dichlorobenzene	1.153	1.192	-3.3	99	0.00
95	Hexachloroethane	0.454	0.455	-0.2	101	0.00
96	1,2-Dibromo-3-Chloropropane	0.092	0.086	6.2	96	0.00
97	1,2,4-Trichlorobenzene	0.586	0.581	0.9	103	0.00
98	Hexachlorobutadiene	0.290	0.281	3.3	108	0.00
99	Naphthalene	0.893	0.822	7.9	105	0.00
100	1,2,3-Trichlorobenzene	0.461	0.423	8.2	110	0.00

Quantitation Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062706\M1041046.D Vial: 9
Acq On : 27 Jun 106 7:32 pm Operator: RES
Sample : BPF0223-SCV1 Inst : VOA MASS
Misc : Multiplr: 1.00
Quant Time: Jun 29 10:57 19106

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.07	96	3263352	25.00	ug/l	0.00
58) Chlorobenzene-d5	10.13	117	2603933	25.00	ug/l	0.00
76) 1,4 Dichlorobenzene-D4	13.82	152	1234582	25.00	ug/l	0.00
System Monitoring Compounds						%Recovery
34) Dibromofluoromethane(SURR)	5.31	111	1310921	23.00	ug/l	91.99%
41) 1,2-Dichloroethane-d4 (SURR	5.69	65	540117	21.65	ug/l	86.59%
59) Toluene-d8 (SURR)	8.08	98	2615648	23.84	ug/l	95.36%
75) Bromofluorobenzene (SURR)	11.95	95	1476264	22.97	ug/l	91.89%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.56	85	1373407	24.35	ug/l	98
3) Chloromethane	1.74	50	803761	22.27	ug/l	95
4) Vinyl Chloride	1.84	62	764915	24.66	ug/l	98
5) Bromomethane	2.15	94	705855	23.72	ug/l	100
6) Chloroethane	2.24	64	319651	26.26	ug/l	100
7) Trichlorofluoromethane	2.48	101	1538268	24.67	ug/l	100
8) Diethyl ether	2.79	59	451757	24.80	ug/l	97
9) Acrolein	2.93	56	33763	12.05	ug/l	87
10) 1,1,2-Trichloro-1,2,2-trif	2.98	101	1426230	24.61	ug/l	99
11) Acetone	3.08	58	123466	112.04	ug/l	100
12) Iodomethane	3.13	142	2074287	24.76	ug/l	100
13) Carbon Disulfide	3.18	76	2051290	25.12	ug/l	100
14) 1,1-Dichloroethene	2.98	96	787113	25.87	ug/l	98
15) Allyl Chloride	3.34	41	1118062	23.23	ug/l	100
16) Methyl Acetate	3.39	43	351810	26.00	ug/l	98
17) Methylene Chloride	3.47	84	832892	25.33	ug/l	95
18) Methyl tert-Butyl Ether	3.76	73	1427628	24.61	ug/l	98
19) Acrylonitrile	3.74	53	103746	22.82	ug/l	94
20) trans-1,2-Dichloroethene	3.74	96	860439	25.91	ug/l	99
21) 1,1-Dichloroethane	4.16	63	1319290	24.83	ug/l	100
22) Vinyl Acetate	4.24	43	2143627	21.57	ug/l	99
24) Di-isopropyl ether	4.25	45	2952553	24.62	ug/l	90
25) Ethyl tertiary-butyl ether	4.64	59	2150905	24.07	ug/l	98
26) 2-Butanone	4.82	72	160171	114.54	ug/l	95
27) cis-1,2 Dichloroethene	4.77	96	859053	26.65	ug/l	96
28) 2,2-Dichloropropane	4.76	77	1062695	22.48	ug/l	98
29) Methyl Acrylate	4.92	55	367967	23.07	ug/l	95
30) Bromochloromethane	5.04	128	510491	24.06	ug/l	95
31) Methacrylonitrile	5.05	41	227986	22.56	ug/l	97
32) Tetrahydrofuran	5.10	42	91317	22.57	ug/l	95
33) Chloroform	5.13	83	1434874	24.65	ug/l	95
35) 1,1,1-Trichloroethane	5.31	97	1293886	25.24	ug/l	98
36) Cyclohexane	5.39	56	713232	23.97	ug/l m	51

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062706\M1041046.D Vial: 9
Acq On : 27 Jun 106 7:32 pm Operator: RES
Sample : BPF0223-SCV1 Inst : VOA MASS
Misc : Multiplr: 1.00
Quant Time: Jun 29 10:57 19106

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

xpes 6/30/06

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
37)	1-Chlorobutane	5.44	56	1632399	25.69 ug/l	m	99
38)	1,1-Dichloropropene	5.49	75	967865	24.63 ug/l		98
39)	Carbon Tetrachloride	5.49	117	1143609	23.85 ug/l		99
40)	Benzene	5.73	78	2297072	24.87 ug/l		100
42)	1,2-Dichloroethane	5.78	62	693323	22.89 ug/l		99
43)	Tertiary-amyl methyl ether	5.89	73	1863061	24.05 ug/l		98
44)	Trichloroethene	6.50	95	1065704	24.84 ug/l		96
45)	Methyl Cyclohexane	6.72	83	922018	25.75 ug/l		97
46)	1,2-Dichloropropane	6.80	63	860113	24.89 ug/l		97
47)	Dibromomethane	6.94	93	645698	24.30 ug/l		96
48)	Methyl Methacrylate	6.96	41	511111	23.89 ug/l		99
49)	1,4-Dioxane	7.02	88	70709	340.79 ug/l		98
50)	Bromodichloromethane	7.15	83	1495889	26.31 ug/l		97
51)	2-Nitropropane	7.47	43	101548	23.79 ug/l		90
52)	2-Chloroethyl vinyl ether	7.56	63	348375	19.00 ug/l		96
53)	4-Methyl-2-Pentanone	7.98	58	976284	119.02 ug/l		91
54)	cis-1,3-Dichloropropene	7.73	75	1219814	22.78 ug/l		98
55)	Toluene	8.17	92	1816652	25.35 ug/l		99
56)	trans-1,3-Dichloropropene	8.49	75	872878	20.78 ug/l		98
57)	1,1,2-Trichloroethane	8.75	83	571347	25.52 ug/l		96
60)	2-Hexanone	9.13	43	1570771	119.98 ug/l		98
61)	Ethyl Methacrylate	8.63	69	903799	25.15 ug/l		98
62)	1,3-Dichloropropane	8.97	76	1060768	26.40 ug/l		97
63)	Tetrachloroethene	8.91	164	936223	24.43 ug/l		95
64)	Dibromochloromethane	9.30	129	1108938	24.00 ug/l		98
65)	1,2-Dibromoethane	9.46	107	951366	23.60 ug/l		100
66)	1-Chlorohexane	10.16	91	1071444	24.74 ug/l		98
67)	Chlorobenzene	10.17	112	2260123	25.75 ug/l		98
68)	1,1,1,2-Tetrachloroethane	10.30	131	978812	23.85 ug/l		97
69)	Ethylbenzene	10.34	91	3375967	26.30 ug/l		99
70)	Xylene P,M	10.53	106	2845096	51.84 ug/l		100
71)	Xylene O	11.13	106	1385728	26.52 ug/l		100
72)	Styrene	11.16	104	2424602	26.55 ug/l		98
73)	Bromoform	11.44	173	620164	23.43 ug/l		98
77)	Isopropylbenzene	11.72	105	3202873	24.16 ug/l		100
78)	Trans-1,4-Dichloro-2-Buten	12.31	53	141475	21.86 ug/l		92
79)	1,2,3-Trichloropropane	12.27	75	678290	23.23 ug/l		94
80)	Bromobenzene	12.17	156	1034594	26.73 ug/l		96
81)	1,1,2,2-Tetrachloroethane	12.22	83	809473	24.59 ug/l		98
82)	n-Propylbenzene	12.37	91	3652789	25.87 ug/l		99
83)	2-Chlorotoluene	12.49	91	2587120	25.40 ug/l	m	99
84)	4-Chlorotoluene	12.67	91	2759721	24.54 ug/l		100
85)	1,3,5-Trimethylbenzene	12.66	105	2629398	25.61 ug/l		98
86)	tert-Butylbenzene	13.19	119	3276993	26.11 ug/l		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062706\M1041046.D Vial: 9
Acq On : 27 Jun 106 7:32 pm Operator: RES
Sample : BPF0223-SCV1 Inst : VOA MASS
Misc : Multiplr: 1.00
Quant Time: Jun 29 10:57 19106

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
87) Pentachloroethane	13.19	119	3276993	26.11 ug/l	98
88) 1,2,4-Trimethylbenzene	13.27	105	2711348	26.20 ug/l	98
89) sec-Butylbenzene	13.54	105	3231924	25.57 ug/l	99
90) 1,3 Dichlorobenzene	13.70	146	1668435	25.37 ug/l	99
91) 4-Isopropyltoluene	13.80	119	2593503	25.42 ug/l	100
92) 1,4 Dichlorobenzene	13.86	146	1756274	24.78 ug/l	97
93) n-Butylbenzene	14.45	91	2035992	24.71 ug/l	99
94) 1,2 Dichlorobenzene	14.44	146	1471576	25.84 ug/l	99
95) Hexachloroethane	14.78	117	561537	25.04 ug/l	97
96) 1,2-Dibromo-3-Chloropropan	15.44	75	106075	23.44 ug/l	90
97) 1,2,4-Trichlorobenzene	16.27	180	716816	24.78 ug/l	94
98) Hexachlorobutadiene	16.44	225	346558	25.67 ug/l	99
99) Naphthalene	16.50	128	1014966	24.69 ug/l	100
100) 1,2,3-Trichlorobenzene	16.75	180	522593	25.65 ug/l	98

(#) = qualifier out of range (m) = manual integration

ANALYSIS SEQUENCE

BPF0228

Instrument: VMS1

Calibnration ID: 0606042

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0228-TUN1	QC		1		6F28037		
BPF0228-CCV1	QC		2		6F28038	6F22057	
BF62806-BLK1	QC		3			6F22057	
BF62806-BS1	QC		4			6F22057	
BF62806-BSD1	QC		5			6F22057	
BF62806-MS1	QC		6			6F22057	
BF62806-MSD1	QC		7			6F22057	
0606427-02	MA-MCP 5035/8260 ppm V	A	8			6F22057	Gannett Fleming
0606427-01	XMA MCP 5035/8260 ppm	A	9			6F22057	Gannett Fleming
0606427-01	VOC: x5035/8260 ppb VOA	A	10			6F22057	Gannett Fleming
0606427-01	MA-MCP 5035/8260 ppm V	A	11			6F22057	Gannett Fleming
0606427-01	TB: 5035/8260 ppb VOA	A	12			6F22057	Gannett Fleming
0606383-10	VOC: x5035/8260 ppb VOA	E	13			6F22057	MACTEC Engineering & Consulting, In
0606383-06	VOC: x5035/8260 ppb VOA	C	14			6F22057	MACTEC Engineering & Consulting, In
0606383-05	VOC: x5035/8260 ppb VOA	E	15			6F22057	MACTEC Engineering & Consulting, In
0606374-13	VOC: x5035/8260 ppb VOA	D	16			6F22057	MACTEC Engineering & Consulting, In
0606374-11	VOC: x5035/8260 ppb VOA	D	17			6F22057	MACTEC Engineering & Consulting, In
0606374-09	VOC: x5035/8260 ppb VOA	D	18			6F22057	MACTEC Engineering & Consulting, In
0606374-06	VOC: x5035/8260 ppb VOA	D	19			6F22057	MACTEC Engineering & Consulting, In
0606374-05	VOC: x5035/8260 ppb VOA	D	20			6F22057	MACTEC Engineering & Consulting, In
0606373-15	VOC: x5035/8260 ppb VOA	D	21			6F22057	MACTEC Engineering & Consulting, In
0606373-14	VOC: x5035/8260 ppb VOA	D	22			6F22057	MACTEC Engineering & Consulting, In
0606373-11	TB: 5035/8260 ppb VOA	A	23			6F22057	MACTEC Engineering & Consulting, In
0606373-08	VOC: x5035/8260 ppb VOA	D	24			6F22057	MACTEC Engineering & Consulting, In
0606373-01	VOC: x5035/8260 ppb VOA	D	25			6F22057	MACTEC Engineering & Consulting, In
0606360-01	VOC: x5035/8260 ppb VOA	B	26			6F22057	Vertex

Samples Loaded By Date Data Processed By Date

ESS LABORATORY MS-1 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/26/06	06	M1 041035	0606348-02	AQ061606		
↓	07	M1 36	BFL2612-MS1	↓	0606348-02 40µL/100mL 6F12081	
6/26/06	08	M1 37	BFL2612-MSD1	AQ061606	0606348-02 40µL/100mL 6F12081	
6/27/06	1	M1 38	BPF0223-TUN1	HP053106	6F27054	
	2	M1 39	-CAL1		055	
	3	M1 40	-CAL2		056	
	4	M1 41	-CAL3		057	
	5	M1 42	-CAL4		058	
	6	M1 43	-CAL5		059	
	7	M1 44	BPF0223-CAL6		6F27 060	
	8	M1 45	TB	HP053106		
6/27/06	9	M1 46	BPF0223-SCV1	HP062706	6F27061	
6/28/06	1	M1 47	BPF0228-TUN1	↓	6F28037	
6/28/06	2	M1 48	BPF0228-CCV1	HP062706	6F28038	

Run Sequence Confirmation 6/27/06

Surrogate: 6F22055 / 6E19055 5011

On-column IS: 6F22057 / 6F27048

Control Number 20.0001-0601A

Page_____

456

0213

ESS LABORATORY MS-1 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/28/06	3	M1 041049	BF62806 -BS1	HT062706	6F28039 100X	PM
	4	M1 50	BF62806 -DSD1		6F28039	
	5	M1 51	TB			
	6	M1 52	TB			
	7	M1 53	BF62806 -BLK1			
	8	M1 54	0606427-02		15/15 TB D1711	
	9	M1 55	0606373-11		15/15 TB D4023	
	10	M1 56	0606360-01		19.3/15 D4006	
	11	M1 57	0606373-01		7.6/15 D4022 *~~D4002~~	
	12	M1 58	-09		8.3/15 D3876	
	13	M1 59	-14		20.5/15 D3866	
	14	M1 60	0606373 -15		18.8/15 D3887	
	15	M1 61	0606374-05		23.1/15 D3859	
6/28/06	16	M1 02	0606374 -06	HT062706	24.9/15 10X D3849	PM

Run Sequence Confirmation DM 6/28/06

Surrogate: AQ 6F22055 / soil 6E19050

On-column IS: 6F22057 / 6F27048

457

ESS LABORATORY MS-1 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/28/06	17	M1 0410 63	0606374 - 09	HE062706	9.9/15 100X D3853	
	18	M1 64	-11		11.6/15 D3840	
	19	M1 65	-12		11.6/15 D3846	
	20	M1 66	0606374 -13		27.2/15 D3847	
	21	M1 67	0606383 - 05		11.9/15 D3844	
	22	M1 68	-06		19.2/15 D3855	
	23	M1 69	0606383 - 10		15.7/15 D3983	
	24	M1 70	0606427 -01		21.8/15 100X C5989	
	25	M1 71	BF62806 -MS1		0606427-01 100µl/100ml 6F27042	
6/28/06	26	M1 72	BF62806 -MSD1	HE062706	0606427-01 100µl/100ml 6F27042	
6/29/06	1	M1 73	BPF0238 -Tun1		6F29034 6F29034x	
"	2	M1 74	BBF0238 -CCV1		6F29035	
	3	M1 75	BF62904 -BS1		6F29036 100X	
6/29/06	4	M1 76	BF62904 -BSD1	HE062706	6F29036 100X	

458

Run Sequence Confirmation

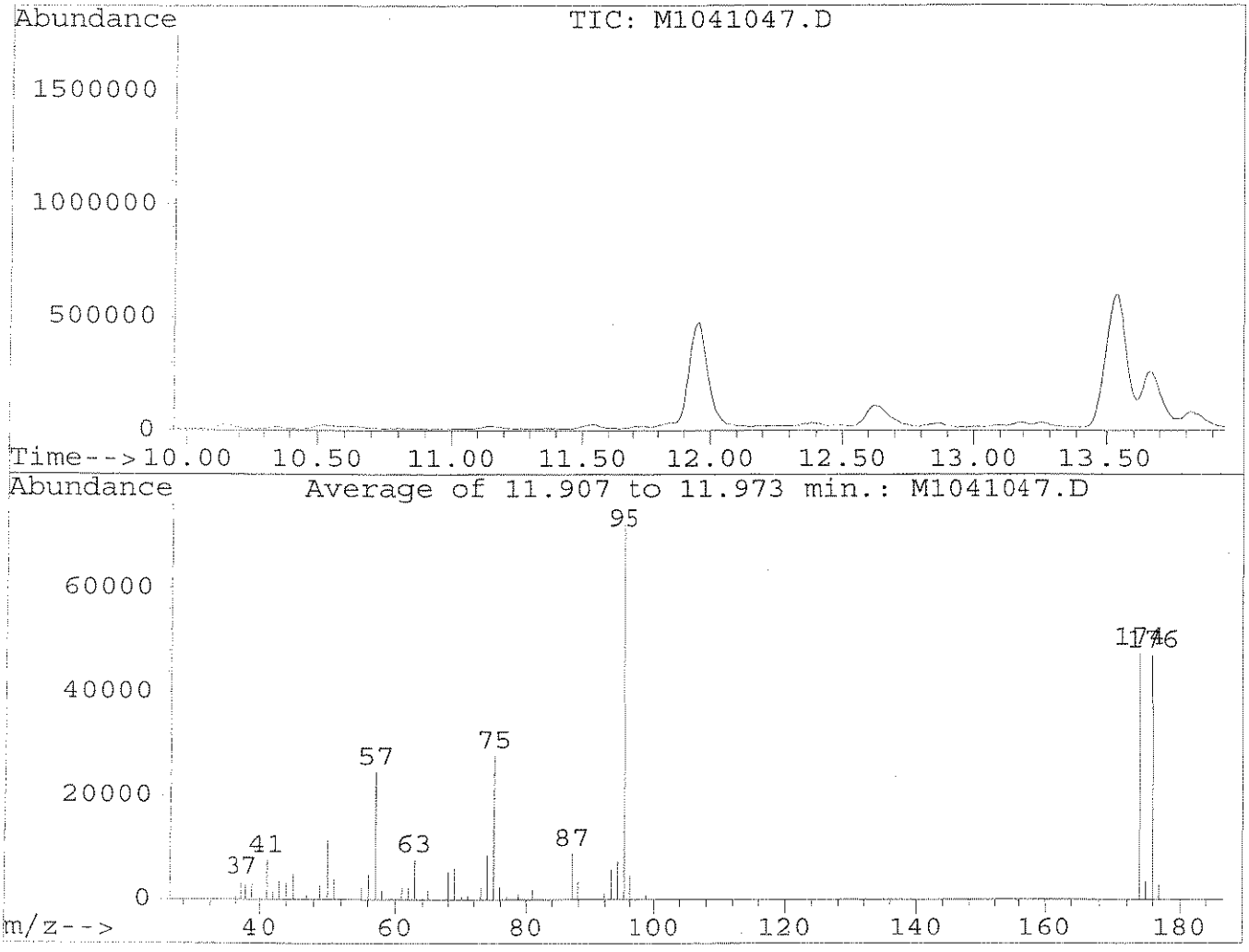
20 RS 6/29/06

Surrogate: 6E19050

On-column IS: 6F27049

Data File : Q:\VOA\MS1_MA\MA0606\MA062806\M1041047.D Vial: 1
Acq On : 28 Jun 106 7:42 am Operator: RES
Sample : BPF0228-TUN1 Inst : VOA MASS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001



Peak Apex is scan: 1316

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.9	11498	PASS
75	95	30	60	38.4	27835	PASS
95	95	100	100	100.0	72540	PASS
96	95	5	9	6.5	4724	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	65.7	47630	PASS
175	174	5	9	7.5	3593	PASS
176	174	95	101	98.9	47083	PASS
177	176	5	9	6.4	3030	PASS

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062806\M1041048.D Vial: 2
Acq On : 28 Jun 106 8:10 am Operator: RES
Sample : BPF0228-CCV1 Inst : VOA MASS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	107	0.00
2		Dichlorodifluoromethane	0.432	0.440	-1.7	98	0.00
3		Chloromethane	0.277	0.302	-9.1	114	-0.01
4		Vinyl Chloride	0.238	0.248	-4.4	101	0.00
5		Bromomethane	0.228	0.182	20.2	88	0.00
6		Chloroethane	0.087	0.089	-2.5	97	0.00
7		Trichlorofluoromethane	0.478	0.464	2.8	98	0.00
8		Diethyl ether	0.140	0.138	0.8	100	0.00
9		Acrolein	0.022	0.020	9.4	118	0.00
10		1,1,2-Trichloro-1,2,2-trifl	0.444	0.459	-3.3	100	0.00
11		Acetone	0.011	0.009	18.7	113	0.01
12		Iodomethane	0.642	0.545	15.1	91	0.01
13		Carbon Disulfide	0.626	0.652	-4.2	101	0.00
14	M	1,1-Dichloroethene	0.220	0.228	-3.9	99	0.00
15		Allyl Chloride	0.369	0.385	-4.4	103	0.00
16		Methyl Acetate	0.104	0.096	7.8	105	0.00
17		Methylene Chloride	0.252	0.248	1.4	97	0.00
18		Methyl tert-Butyl Ether	0.444	0.440	1.0	100	0.00
19		Acrylonitrile	0.035	0.034	2.6	97	0.00
20		trans-1,2-Dichloroethene	0.254	0.260	-2.2	100	0.00
21		1,1-Dichloroethane	0.407	0.412	-1.1	100	0.00
22		Vinyl Acetate	0.761	0.761	-0.0	100	0.00
23		Chloroprene	0.287	0.297	-3.7	100	0.00
24		Di-isopropyl ether	0.919	0.896	2.4	100	0.00
25		Ethyl tertiary-butyl ether	0.685	0.682	0.5	100	0.00
26		2-Butanone	0.011	0.011	1.4	98	0.00
27		cis-1,2 Dichloroethene	0.247	0.246	0.4	98	0.00
28		2,2-Dichloropropane	0.362	0.355	1.8	100	0.00
29		Methyl Acrylate	0.122	0.115	5.6	97	0.00
30		Bromochloromethane	0.149	0.147	1.2	95	0.00
31		Methacrylonitrile	0.077	0.074	5.0	102	0.00
32		Tetrahydrofuran	0.031	0.030	2.1	109	0.02
33		Chloroform	0.446	0.432	3.1	99	0.00
34	S	Dibromofluoromethane(SURR)	0.437	0.437	-0.1	99	0.00
35		1,1,1-Trichloroethane	0.393	0.397	-1.0	98	0.00
36		Cyclohexane	0.228	0.216	5.4	91	0.00
37		1-Chlorobutane	0.487	0.423	13.0	91	0.00
38		1,1-Dichloropropene	0.301	0.299	0.8	94	0.00
39		Carbon Tetrachloride	0.332	0.347	-4.4	97	0.00
40	M	Benzene	0.659	0.660	-0.1	95	0.00
41	S	1,2-Dichloroethane-d4(SURR)	0.191	0.170	11.2	86	0.00
42		1,2-Dichloroethane	0.232	0.211	9.1	96	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062806\M1041048.D Vial: 2
Acq On : 28 Jun 106 8:10 am Operator: RES
Sample : BPF0228-CCV1 Inst : VOA MASS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43		Tertiary-amyl methyl ether	0.593	0.595	-0.2	102	0.01
44	M	Trichloroethene	0.329	0.330	-0.4	102	0.00
45		Methyl Cyclohexane	0.274	0.287	-4.7	103	0.00
46		1,2-Dichloropropane	0.265	0.271	-2.2	100	0.00
47		Dibromomethane	0.187	0.193	-3.5	98	0.00
48		Methyl Methacrylate	0.164	0.160	2.4	98	0.00
49		1,4-Dioxane	0.005	0.001	73.1#	110	0.00
50		Bromodichloromethane	0.436	0.438	-0.5	99	0.00
51		2-Nitropropane	0.033	0.036	-10.1	113	0.01
52		2-Chloroethyl vinyl ether	0.110	0.116	-4.9	101	0.00
53		4-Methyl-2-Pentanone	0.063	0.063	-0.6	100	0.00
54		cis-1,3-Dichloropropene	0.377	0.391	-3.6	99	0.00
55		Toluene	0.549	0.551	-0.4	98	0.00
56		trans-1,3-Dichloropropene	0.290	0.306	-5.7	100	0.00
57		1,1,2-Trichloroethane	0.171	0.175	-2.0	99	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
59	S	Toluene-d8 (SURR)	1.053	1.084	-2.9	98	0.00
60		2-Hexanone	0.126	0.126	-0.0	101	0.00
61		Ethyl Methacrylate	0.345	0.344	0.3	98	0.00
62		1,3-Dichloropropane	0.386	0.408	-5.6	99	0.00
63		Tetrachloroethene	0.340	0.355	-4.6	97	0.00
64		Dibromochloromethane	0.396	0.427	-7.8	101	0.00
65		1,2-Dibromoethane	0.349	0.369	-5.6	97	0.00
66		1-Chlorohexane	0.416	0.422	-1.4	99	0.01
67	M	Chlorobenzene	0.843	0.870	-3.3	97	0.00
68		1,1,1,2-Tetrachloroethane	0.355	0.377	-6.1	98	0.00
69		Ethylbenzene	1.233	1.252	-1.6	97	0.00
70		Xylene P,M	0.527	0.538	-2.0	97	0.01
71		Xylene O	0.502	0.522	-4.0	97	0.00
72		Styrene	0.877	0.906	-3.4	97	0.00
73		Bromoform	0.207	0.243	-17.7	101	0.01
74		cis1,4-Dichloro-2-butene	0.046	0.047	-2.6	109	0.00
75	S	Bromofluorobenzene (SURR)	0.617	0.618	-0.1	97	0.00
76	I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	102	0.00
77		Isopropylbenzene	2.684	2.793	-4.1	98	0.00
78		Trans-1,4-Dichloro-2-Butene	0.131	0.136	-4.1	111	0.00
79		1,2,3-Trichloropropane	0.552	0.603	-9.2	105	0.00
80		Bromobenzene	0.784	0.806	-2.8	97	0.00
81		1,1,2,2-Tetrachloroethane	0.667	0.682	-2.3	100	0.00
82		n-Propylbenzene	2.859	2.917	-2.0	95	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062806\M1041048.D Vial: 2
Acq On : 28 Jun 106 8:10 am Operator: RES
Sample : BPF0228-CCV1 Inst : VOA MASS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	2-Chlorotoluene	2.062	2.027	1.7	94	0.00
84	4-Chlorotoluene	2.277	2.284	-0.3	98	0.00
85	1,3,5-Trimethylbenzene	2.079	2.105	-1.2	97	0.00
86	tert-Butylbenzene	2.542	2.632	-3.6	97	0.00
87	Pentachloroethane	2.542	2.632	-3.6	97	0.00
88	1,2,4-Trimethylbenzene	2.096	2.151	-2.6	97	0.00
89	sec-Butylbenzene	2.559	2.643	-3.3	99	0.00
90	1,3 Dichlorobenzene	1.332	1.363	-2.3	97	0.00
91	4-Isopropyltoluene	2.066	2.147	-3.9	99	0.00
92	1,4 Dichlorobenzene	1.435	1.480	-3.2	98	0.00
93	n-Butylbenzene	1.669	1.622	2.8	96	0.00
94	1,2 Dichlorobenzene	1.153	1.175	-1.8	97	0.00
95	Hexachloroethane	0.454	0.478	-5.2	105	0.00
96	1,2-Dibromo-3-Chloropropane	0.092	0.094	-2.9	104	0.00
97	1,2,4-Trichlorobenzene	0.586	0.563	4.0	98	0.00
98	Hexachlorobutadiene	0.290	0.279	4.0	105	0.00
99	Naphthalene	0.893	0.808	9.5	102	0.00
100	1,2,3-Trichlorobenzene	0.461	0.402	12.9	103	0.00

Quantitation Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062806\M1041048.D Vial: 2
Acq On : 28 Jun 106 8:10 am Operator: RES
Sample : BPF0228-CCV1 Inst : VOA MASS
Misc : Multiplr: 1.00
Quant Time: Jun 28 11:18 19106

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	6.07	96	3196558	25.00	ug/l		0.00
58) Chlorobenzene-d5	10.13	117	2576358	25.00	ug/l		0.00
76) 1,4 Dichlorobenzene-D4	13.82	152	1216483	25.00	ug/l		0.00
System Monitoring Compounds							%Recovery
34) Dibromofluoromethane(SURR)	5.31	111	1397748	25.03	ug/l		100.13%
41) 1,2-Dichloroethane-d4(SURR	5.69	65	542335	22.19	ug/l		88.76%
59) Toluene-d8 (SURR)	8.08	98	2793332	25.73	ug/l		102.93%
75) Bromofluorobenzene (SURR)	11.96	95	1591162	25.03	ug/l		100.11%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.56	85	1405290	25.43	ug/l		96
3) Chloromethane	1.74	50	964809	27.28	ug/l		96
4) Vinyl Chloride	1.84	62	792822	26.10	ug/l		97
5) Bromomethane	2.15	94	581464	19.95	ug/l		97
6) Chloroethane	2.24	64	284188	23.72	ug/l		98
7) Trichlorofluoromethane	2.47	101	1484434	24.30	ug/l		98
8) Diethyl ether	2.80	59	442600	24.81	ug/l		96
9) Acrolein	2.93	56	64546	25.29	ug/l		93
10) 1,1,2-Trichloro-1,2,2-trif	2.98	101	1466503	25.83	ug/l		97
11) Acetone	3.11	58	137883	132.34	ug/l		93
12) Iodomethane	3.14	142	1742434	21.23	ug/l		99
13) Carbon Disulfide	3.17	76	2084530	26.06	ug/l		100
14) 1,1-Dichloroethene	2.97	96	729918	24.42	ug/l		98
15) Allyl Chloride	3.34	41	1230486	26.10	ug/l		96
16) Methyl Acetate	3.40	43	305329	23.04	ug/l		99
17) Methylene Chloride	3.48	84	793876	24.65	ug/l		97
18) Methyl tert-Butyl Ether	3.77	73	1406116	24.75	ug/l		98
19) Acrylonitrile	3.74	53	108458	24.36	ug/l		98
20) trans-1,2-Dichloroethene	3.73	96	831293	25.56	ug/l		98
21) 1,1-Dichloroethane	4.16	63	1315866	25.28	ug/l		97
22) Vinyl Acetate	4.25	43	2433942	25.01	ug/l		99
23) Chloroprene	4.25	53	950609	25.92	ug/l		92
24) Di-isopropyl ether	4.26	45	2865311	24.39	ug/l		95
25) Ethyl tertiary-butyl ether	4.64	59	2178657	24.88	ug/l		100
26) 2-Butanone	4.84	72	168792	123.23	ug/l	#	88
27) cis-1,2 Dichloroethene	4.78	96	786109	24.89	ug/l		96
28) 2,2-Dichloropropane	4.77	77	1136322	24.54	ug/l		98
29) Methyl Acrylate	4.93	55	368783	23.61	ug/l		97
30) Bromochloromethane	5.03	128	471430	22.67	ug/l		95
31) Methacrylonitrile	5.06	41	235161	23.75	ug/l		98
32) Tetrahydrofuran	5.13	42	96995	24.47	ug/l		92
33) Chloroform	5.13	83	1380913	24.22	ug/l		98
35) 1,1,1-Trichloroethane	5.32	97	1267836	25.25	ug/l		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062806\M1041048.D Vial: 2
Acq On : 28 Jun 106 8:10 am Operator: RES
Sample : BPF0228-CCV1 Inst : VOA MASS
Misc : Multiplr: 1.00
Quant Time: Jun 28 11:18 19106

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36) Cyclohexane	5.37	56	689042	23.64	ug/l	m	51
37) 1-Chlorobutane	5.43	56	1353694	21.75	ug/l	m	98
38) 1,1-Dichloropropene	5.49	75	954437	24.80	ug/l		98
39) Carbon Tetrachloride	5.49	117	1107639	23.58	ug/l		99
40) Benzene	5.74	78	2108206	23.22	ug/l		100
42) 1,2-Dichloroethane	5.78	62	674459	22.74	ug/l		99
43) Tertiary-amyl methyl ether	5.91	73	1901259	25.06	ug/l		97
44) Trichloroethene	6.50	95	1054619	25.09	ug/l		95
45) Methyl Cyclohexane	6.73	83	917704	26.17	ug/l		98
46) 1,2-Dichloropropane	6.80	63	864688	25.54	ug/l		98
47) Dibromomethane	6.94	93	618439	23.74	ug/l		97
48) Methyl Methacrylate	6.97	41	511404	24.40	ug/l		99
49) 1,4-Dioxane	7.01	88	87739	494.18	ug/l		97
50) Bromodichloromethane	7.16	83	1399411	25.12	ug/l		99
51) 2-Nitropropane	7.49	43	115121	27.53	ug/l	m	27
52) 2-Chloroethyl vinyl ether	7.55	63	1846599	121.33	ug/l		98
53) 4-Methyl-2-Pentanone	7.98	58	1010364	125.75	ug/l		97
54) cis-1,3-Dichloropropene	7.74	75	1249393	23.85	ug/l		99
55) Toluene	8.17	92	1761061	25.09	ug/l		99
56) trans-1,3-Dichloropropene	8.50	75	978509	23.83	ug/l		97
57) 1,1,2-Trichloroethane	8.75	83	559139	25.50	ug/l		94
60) 2-Hexanone	9.14	43	1619744	125.05	ug/l		98
61) Ethyl Methacrylate	8.64	69	885655	24.91	ug/l		100
62) 1,3-Dichloropropane	8.98	76	1050088	26.41	ug/l		100
63) Tetrachloroethene	8.91	164	915423	24.14	ug/l		99
64) Dibromochloromethane	9.30	129	1100340	24.07	ug/l		99
65) 1,2-Dibromoethane	9.45	107	949839	23.82	ug/l		99
66) 1-Chlorohexane	10.17	91	1086006	25.34	ug/l		99
67) Chlorobenzene	10.17	112	2242309	25.82	ug/l		97
68) 1,1,1,2-Tetrachloroethane	10.31	131	971524	23.92	ug/l		97
69) Ethylbenzene	10.35	91	3226265	25.40	ug/l		98
70) Xylene P,M	10.53	106	2769811	51.01	ug/l		97
71) Xylene O	11.14	106	1344099	26.00	ug/l		98
72) Styrene	11.16	104	2334749	25.84	ug/l		99
73) Bromoform	11.45	173	626578	23.91	ug/l		98
74) cis1,4-Dichloro-2-butene	11.85	75	120341	25.66	ug/l		95
77) Isopropylbenzene	11.72	105	3397647	26.01	ug/l		99
78) Trans-1,4-Dichloro-2-Buten	12.32	53	165899	26.02	ug/l	#	82
79) 1,2,3-Trichloropropane	12.29	75	734100	25.51	ug/l		97
80) Bromobenzene	12.17	156	979991	25.69	ug/l		98
81) 1,1,2,2-Tetrachloroethane	12.23	83	829456	25.57	ug/l		96
82) n-Propylbenzene	12.38	91	3547985	25.51	ug/l		100
83) 2-Chlorotoluene	12.50	91	2466238	24.57	ug/l	m	100
84) 4-Chlorotoluene	12.68	91	2778590	25.08	ug/l		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062806\M1041048.D
Acq On : 28 Jun 106 8:10 am
Sample : BPF0228-CCV1
Misc :
Quant Time: Jun 28 11:18 19106

Vial: 2
Operator: RES
Inst : VOA MASS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,3,5-Trimethylbenzene	12.67	105	2560772	25.31 ug/l	99
86) tert-Butylbenzene	13.19	119	3201744	25.89 ug/l	99
87) Pentachloroethane	13.19	119	3201744	25.89 ug/l	98
88) 1,2,4-Trimethylbenzene	13.28	105	2616856	25.66 ug/l	99
89) sec-Butylbenzene	13.56	105	3215676	25.82 ug/l	98
90) 1,3 Dichlorobenzene	13.71	146	1657828	25.58 ug/l	100
91) 4-Isopropyltoluene	13.81	119	2611999	25.98 ug/l	99
92) 1,4 Dichlorobenzene	13.86	146	1800784	25.79 ug/l	99
93) n-Butylbenzene	14.45	91	1973475	24.31 ug/l	99
94) 1,2 Dichlorobenzene	14.45	146	1428869	25.46 ug/l	98
95) Hexachloroethane	14.78	117	580971	26.29 ug/l	97
96) 1,2-Dibromo-3-Chloropropan	15.44	75	114766	25.74 ug/l	90
97) 1,2,4-Trichlorobenzene	16.27	180	684383	24.01 ug/l	99
98) Hexachlorobutadiene	16.44	225	338966	25.48 ug/l	97
99) Naphthalene	16.51	128	982635	24.26 ug/l	100
100) 1,2,3-Trichlorobenzene	16.76	180	488453	24.32 ug/l	98

(#) = qualifier out of range (m) = manual integration

ANALYSIS SEQUENCE

BPF0238

Instrument: VMS1

Calibnration ID: 0606042

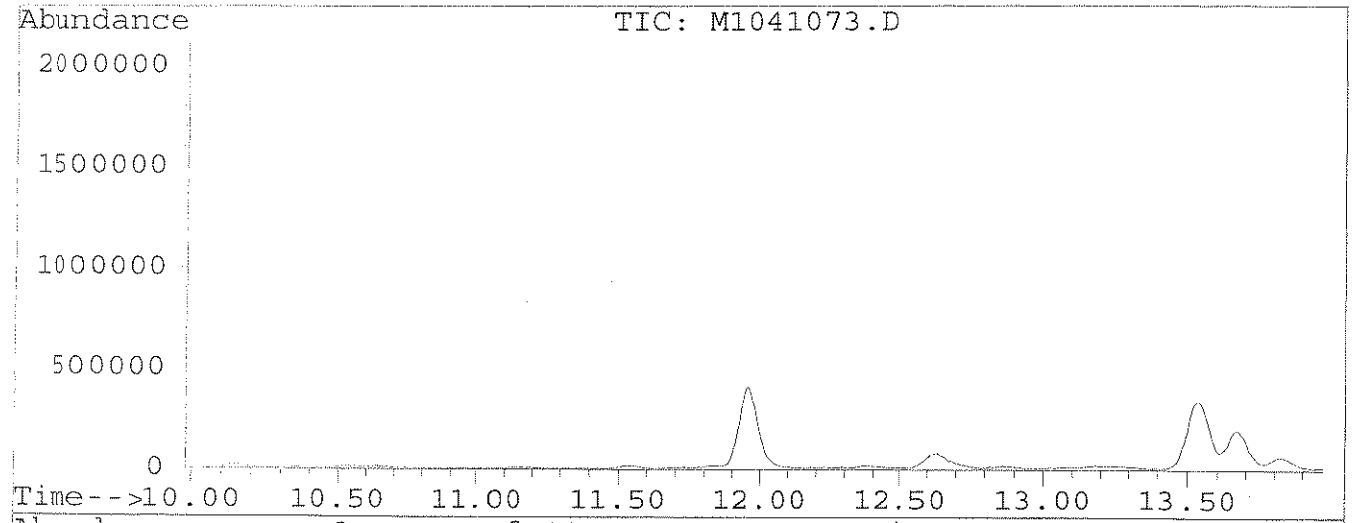
Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0238-TUN1	QC		1		6F29034		
BPF0238-CCV1	QC		2		6F29035	6F22057	
BF62904-BLK1	QC		3			6F22057	
BF62904-BS1	QC		4			6F22057	
BF62904-BSD1	QC		5			6F22057	
BF62904-MS1	QC		6			6F22057	
BF62904-MSD1	QC		7			6F22057	
0606394-15	XMA MCP 5035/8260 ppm	B	8			6F22057	Green Environmental
0606405-01	VOC: x5035/8260 ppb VOA	D	9			6F22057	Vanasse Hangen Brustlin, Inc.
0606405-02	VOC: x5035/8260 ppb VOA	D	10			6F22057	Vanasse Hangen Brustlin, Inc.
0606405-03	VOC: x5035/8260 ppb VOA	D	11			6F22057	Vanasse Hangen Brustlin, Inc.
0606405-04	VOC: x5035/8260 ppb VOA	D	12			6F22057	Vanasse Hangen Brustlin, Inc.
0606437-01	VOC: X5035/8260 ppm VOA	B	13			6F22057	Analytical Balance
0606457-01	XMA MCP 5035/8260 ppm	B	14			6F22057	Clean Harbors
0606457-01	VOC: X5035/8260 ppm VOA	B	15			6F22057	Clean Harbors
0606457-01	VOC: x5035/8260 ppb VOA	B	16			6F22057	Clean Harbors
0606478-01	VOC: x5035/8260 ppb VOA	B	17			6F22057	Northeast Engineers & Consultants
0606374-11RE1	VOC: x5035/8260 ppb VOA	D	18			6F22057	MACTEC Engineering & Consulting, In
0606374-12	VOC: x5035/8260 ppb VOA	E	19			6F22057	MACTEC Engineering & Consulting, In

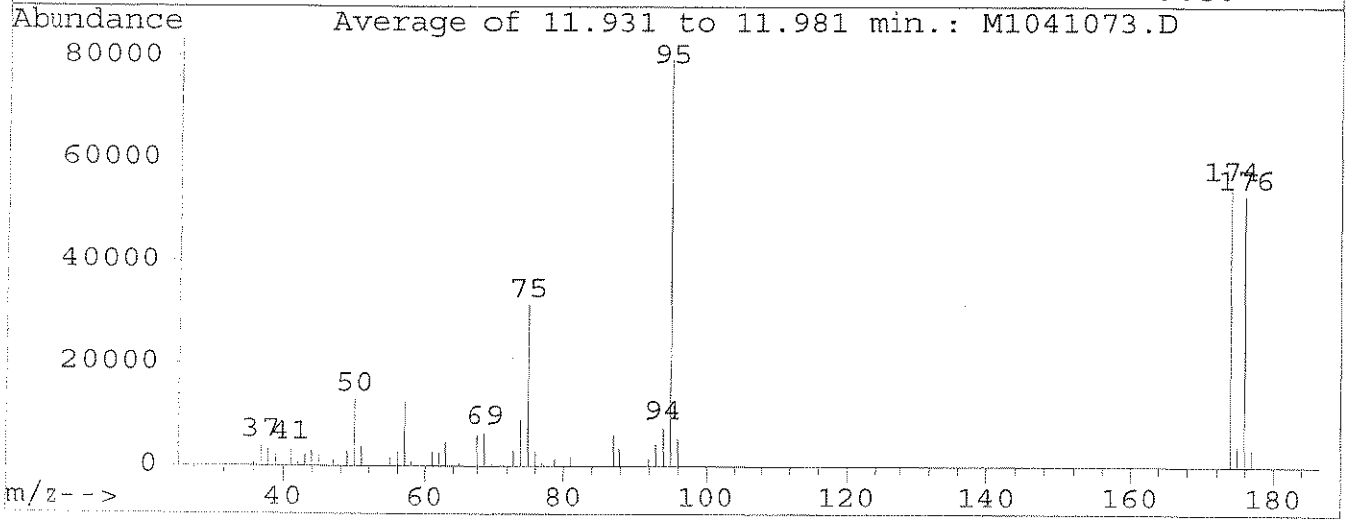
Samples Loaded By Date Data Processed By Date

BFB

Data File : Q:\VOA\MS1_MA\MA0606\MA062906\M1041073.D Vial: 1
Acq On : 29 Jun 106 6:57 am Operator: RES
Sample : BPF0238-TUN1 Inst : VOA MASS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001





Peak Apex is scan: 1319

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.3	12940	PASS
75	95	30	60	39.5	31390	PASS
95	95	100	100	100.0	79395	PASS
96	95	5	9	6.8	5371	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	68.7	54567	PASS
175	174	5	9	7.5	4118	PASS
176	174	95	101	96.8	52848	PASS
177	176	5	9	6.6	3468	PASS

M1041073.D HI062706.M Thu Jun 29 09:03:32 2006

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062906\M1041074.D Vial: 2
Acq On : 29 Jun 106 7:24 am Operator: RES
Sample : BPF0238-CCV1 Inst : VOA MASS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	118	0.00
2		Dichlorodifluoromethane	0.432	0.401	7.1	99	0.00
3		Chloromethane	0.277	0.252	8.8	105	0.00
4		Vinyl Chloride	0.238	0.236	0.8	106	0.00
5		Bromomethane	0.228	0.198	13.2	106	-0.01
6		Chloroethane	0.087	0.086	1.2	103	0.00
7		Trichlorofluoromethane	0.478	0.433	9.3	101	0.00
8		Diethyl ether	0.140	0.139	0.3	111	0.00
9		Acrolein	0.022	0.020	9.0	130	0.00
10		1,1,2-Trichloro-1,2,2-trifl	0.444	0.435	2.0	105	0.00
11		Acetone	0.011	0.008	22.2	119	0.00
12		Iodomethane	0.642	0.587	8.5	108	0.00
13		Carbon Disulfide	0.626	0.612	2.1	105	0.00
14	M	1,1-Dichloroethene	0.220	0.221	-0.6	106	0.00
15		Allyl Chloride	0.369	0.375	-1.8	111	0.00
16		Methyl Acetate	0.104	0.096	6.9	117	0.00
17		Methylene Chloride	0.252	0.239	5.0	104	-0.01
18		Methyl tert-Butyl Ether	0.444	0.442	0.4	111	0.00
19		Acrylonitrile	0.035	0.034	1.1	109	0.00
20		trans-1,2-Dichloroethene	0.254	0.254	0.3	108	0.00
21		1,1-Dichloroethane	0.407	0.411	-1.0	110	0.00
22		Vinyl Acetate	0.761	0.763	-0.2	111	0.00
23		Chloroprene	0.287	0.288	-0.3	107	0.00
24		Di-isopropyl ether	0.919	0.898	2.3	110	0.00
25		Ethyl tertiary-butyl ether	0.685	0.680	0.6	111	0.00
26		2-Butanone	0.011	0.010	3.7	105	0.00
27		cis-1,2 Dichloroethene	0.247	0.244	1.2	108	0.00
28		2,2-Dichloropropane	0.362	0.348	3.8	108	0.00
29		Methyl Acrylate	0.122	0.115	5.7	107	0.00
30		Bromochloromethane	0.149	0.145	3.0	103	0.00
31		Methacrylonitrile	0.077	0.076	2.0	116	0.00
32		Tetrahydrofuran	0.031	0.030	4.7	117	0.00
33		Chloroform	0.446	0.427	4.2	108	0.00
34	S	Dibromofluoromethane(SURR)	0.437	0.428	2.1	107	0.00
35		1,1,1-Trichloroethane	0.393	0.379	3.6	103	0.00
36		Cyclohexane	0.228	0.196	14.0	92	0.00
37		1-Chlorobutane	0.487	0.472	3.0	112	0.00
38		1,1-Dichloropropene	0.301	0.295	2.2	102	0.00
39		Carbon Tetrachloride	0.332	0.333	-0.4	103	0.00
40	M	Benzene	0.659	0.627	4.8	99	0.00
41	S	1,2-Dichloroethane-d4(SURR)	0.191	0.163	14.6	91	0.00
42		1,2-Dichloroethane	0.232	0.207	10.8	104	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062906\M1041074.D Vial: 2
Acq On : 29 Jun 106 7:24 am Operator: RES
Sample : BPF0238-CCV1 Inst : VOA MASS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43		Tertiary-amyl methyl ether	0.593	0.604	-1.8	115	0.00
44	M	Trichloroethene	0.329	0.317	3.4	108	0.00
45		Methyl Cyclohexane	0.274	0.267	2.8	106	0.00
46		1,2-Dichloropropane	0.265	0.273	-3.0	111	0.00
47		Dibromomethane	0.187	0.194	-3.8	109	0.00
48		Methyl Methacrylate	0.164	0.166	-1.1	112	0.00
49		1,4-Dioxane	0.005	0.001	74.2#	116	0.02
50		Bromodichloromethane	0.436	0.435	0.1	109	0.00
51		2-Nitropropane	0.033	0.029	10.5	102	0.00
52		2-Chloroethyl vinyl ether	0.110	0.116	-5.6	113	0.00
53		4-Methyl-2-Pentanone	0.063	0.063	-0.9	111	0.00
54		cis-1,3-Dichloropropene	0.377	0.395	-4.6	111	0.00
55		Toluene	0.549	0.536	2.3	106	0.00
56		trans-1,3-Dichloropropene	0.290	0.306	-5.6	110	0.00
57		1,1,2-Trichloroethane	0.171	0.172	-0.5	108	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	110	0.00
59	S	Toluene-d8 (SURR)	1.053	1.073	-1.9	105	0.00
60		2-Hexanone	0.126	0.128	-2.2	112	0.00
61		Ethyl Methacrylate	0.345	0.354	-2.7	110	0.00
62		1,3-Dichloropropane	0.386	0.413	-7.1	109	0.00
63		Tetrachloroethene	0.340	0.344	-1.4	102	0.00
64		Dibromochloromethane	0.396	0.427	-7.7	109	0.00
65		1,2-Dibromoethane	0.349	0.369	-5.6	105	0.00
66		1-Chlorohexane	0.416	0.406	2.3	104	0.00
67	M	Chlorobenzene	0.843	0.853	-1.3	103	0.00
68		1,1,1,2-Tetrachloroethane	0.355	0.377	-6.0	106	0.00
69		Ethylbenzene	1.233	1.232	0.0	103	0.00
70		Xylene P,M	0.527	0.524	0.5	103	0.00
71		Xylene O	0.502	0.516	-2.9	104	0.00
72		Styrene	0.877	0.885	-0.9	102	0.00
73		Bromoform	0.207	0.248	-19.8	112	0.00
74		cis1,4-Dichloro-2-butene	0.046	0.052	-14.7	132	0.00
75	S	Bromofluorobenzene (SURR)	0.617	0.613	0.7	104	0.00
76	I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	109	0.00
77		Isopropylbenzene	2.684	2.738	-2.0	102	0.00
78		Trans-1,4-Dichloro-2-Butene	0.131	0.143	-9.2	124	0.00
79		1,2,3-Trichloropropane	0.552	0.605	-9.6	113	0.00
80		Bromobenzene	0.784	0.801	-2.3	104	0.00
81		1,1,2,2-Tetrachloroethane	0.667	0.701	-5.1	110	0.01
82		n-Propylbenzene	2.859	2.920	-2.1	101	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062906\M1041074.D Vial: 2
Acq On : 29 Jun 106 7:24 am Operator: RES
Sample : BPF0238-CCV1 Inst : VOA MASS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	2-Chlorotoluene	2.062	2.042	1.0	101	0.00
84	4-Chlorotoluene	2.277	2.253	1.0	103	0.00
85	1,3,5-Trimethylbenzene	2.079	2.099	-1.0	104	0.00
86	tert-Butylbenzene	2.542	2.591	-1.9	103	0.00
87	Pentachloroethane	2.542	2.591	-1.9	103	0.00
88	1,2,4-Trimethylbenzene	2.096	2.127	-1.5	102	0.00
89	sec-Butylbenzene	2.559	2.552	0.3	102	0.00
90	1,3 Dichlorobenzene	1.332	1.337	-0.4	102	0.00
91	4-Isopropyltoluene	2.066	2.063	0.2	102	0.00
92	1,4 Dichlorobenzene	1.435	1.420	1.1	101	0.00
93	n-Butylbenzene	1.669	1.593	4.5	101	0.00
94	1,2 Dichlorobenzene	1.153	1.160	-0.6	102	0.00
95	Hexachloroethane	0.454	0.485	-6.8	114	0.00
96	1,2-Dibromo-3-Chloropropane	0.092	0.090	2.3	106	0.00
97	1,2,4-Trichlorobenzene	0.586	0.556	5.1	104	0.00
98	Hexachlorobutadiene	0.290	0.272	6.1	110	0.00
99	Naphthalene	0.893	0.779	12.7	105	0.00
100	1,2,3-Trichlorobenzene	0.461	0.391	15.1	107	0.00

Quantitation Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062906\M1041074.D Vial: 2
Acq On : 29 Jun 106 7:24 am Operator: RES
Sample : BPF0238-CCV1 Inst : VOA MASS
Misc : Multiplr: 1.00
Quant Time: Jun 29 9:05 19106

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.07	96	3530047	25.00 ug/l	0.00
58) Chlorobenzene-d5	10.13	117	2790823	25.00 ug/l	0.00
76) 1,4 Dichlorobenzene-D4	13.82	152	1302513	25.00 ug/l	0.00
System Monitoring Compounds					%Recovery
34) Dibromofluoromethane(SURR)	5.31	111	1509319	24.48 ug/l	97.91%
41) 1,2-Dichloroethane-d4(SURR	5.70	65	575985	21.34 ug/l	85.36%
59) Toluene-d8 (SURR)	8.08	98	2995065	25.47 ug/l	101.88%
75) Bromofluorobenzene (SURR)	11.95	95	1709844	24.83 ug/l	99.31%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.56	85	1417276	23.23 ug/l	98
3) Chloromethane	1.75	50	889990	22.79 ug/l	97
4) Vinyl Chloride	1.84	62	831869	24.79 ug/l	100
5) Bromomethane	2.14	94	698217	21.69 ug/l	100
6) Chloroethane	2.23	64	302370	22.81 ug/l	99
7) Trichlorofluoromethane	2.46	101	1530034	22.68 ug/l	99
8) Diethyl ether	2.80	59	491266	24.93 ug/l	96
9) Acrolein	2.94	56	71582	25.40 ug/l	80
10) 1,1,2-Trichloro-1,2,2-trif	2.98	101	1536668	24.51 ug/l	96
11) Acetone	3.10	58	145808	125.33 ug/l	92
12) Iodomethane	3.13	142	2072803	22.87 ug/l	99
13) Carbon Disulfide	3.18	76	2161434	24.47 ug/l	99
14) 1,1-Dichloroethene	2.97	96	780266	23.60 ug/l	99
15) Allyl Chloride	3.34	41	1324559	25.44 ug/l	98
16) Methyl Acetate	3.41	43	340600	23.27 ug/l	99
17) Methylene Chloride	3.47	84	845154	23.76 ug/l	98
18) Methyl tert-Butyl Ether	3.77	73	1561864	24.89 ug/l	100
19) Acrylonitrile	3.76	53	121530	24.71 ug/l	99
20) trans-1,2-Dichloroethene	3.73	96	895122	24.92 ug/l	98
21) 1,1-Dichloroethane	4.17	63	1452003	25.26 ug/l	98
22) Vinyl Acetate	4.25	43	2692487	25.05 ug/l	99
23) Chloroprene	4.25	53	1015987	25.09 ug/l	99
24) Di-isopropyl ether	4.27	45	3168796	24.43 ug/l	93
25) Ethyl tertiary-butyl ether	4.64	59	2401453	24.84 ug/l	100
26) 2-Butanone	4.84	72	182057	120.36 ug/l	97
27) cis-1,2 Dichloroethene	4.77	96	860981	24.69 ug/l	97
28) 2,2-Dichloropropane	4.77	77	1229586	24.04 ug/l	98
29) Methyl Acrylate	4.93	55	406502	23.56 ug/l	99
30) Bromochloromethane	5.04	128	511459	22.26 ug/l	96
31) Methacrylonitrile	5.06	41	267763	24.49 ug/l	96
32) Tetrahydrofuran	5.11	42	104240	23.81 ug/l	90
33) Chloroform	5.13	83	1507319	23.94 ug/l	97
35) 1,1,1-Trichloroethane	5.31	97	1336413	24.10 ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062906\M1041074.D   Vial: 2
Acq On : 29 Jun 106 7:24 am   Operator: RES
Sample : BPF0238-CCV1   Inst : VOA MASS
Misc :   Multiplr: 1.00
Quant Time: Jun 29 9:05 19106

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

XYZ 6/30/06

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	Cyclohexane	5.37	56	691933	21.49	ug/l	m	50
37)	1-Chlorobutane	5.44	56	1667766	24.26	ug/l	m	98
38)	1,1-Dichloropropene	5.50	75	1039801	24.46	ug/l		97
39)	Carbon Tetrachloride	5.50	117	1177004	22.68	ug/l		100
40)	Benzene	5.74	78	2213210	22.00	ug/l		100
42)	1,2-Dichloroethane	5.78	62	730734	22.31	ug/l		97
43)	Tertiary-amyl methyl ether	5.90	73	2133362	25.46	ug/l		99
44)	Trichloroethene	6.51	95	1120694	24.14	ug/l		95
45)	Methyl Cyclohexane	6.72	83	941154	24.30	ug/l		98
46)	1,2-Dichloropropane	6.80	63	963029	25.76	ug/l		98
47)	Dibromomethane	6.95	93	685320	23.82	ug/l		96
48)	Methyl Methacrylate	6.97	41	584918	25.28	ug/l		97
49)	1,4-Dioxane	7.02	88	93022	465.09	ug/l		100
50)	Bromodichloromethane	7.15	83	1536434	24.98	ug/l		98
51)	2-Nitropropane	7.48	43	103309	22.37	ug/l	m	26
52)	2-Chloroethyl vinyl ether	7.56	63	2051081	122.06	ug/l		97
53)	4-Methyl-2-Pentanone	7.97	58	1118871	126.10	ug/l		99
54)	cis-1,3-Dichloropropene	7.73	75	1392887	24.08	ug/l		99
55)	Toluene	8.16	92	1892297	24.41	ug/l		97
56)	trans-1,3-Dichloropropene	8.50	75	1079531	23.80	ug/l		97
57)	1,1,2-Trichloroethane	8.76	83	608502	25.13	ug/l		95
60)	2-Hexanone	9.13	43	1791675	127.69	ug/l		99
61)	Ethyl Methacrylate	8.64	69	988547	25.67	ug/l		99
62)	1,3-Dichloropropane	8.98	76	1153276	26.78	ug/l		100
63)	Tetrachloroethene	8.92	164	961197	23.39	ug/l		99
64)	Dibromochloromethane	9.30	129	1191137	24.05	ug/l		98
65)	1,2-Dibromoethane	9.46	107	1028715	23.81	ug/l		98
66)	1-Chlorohexane	10.16	91	1133883	24.43	ug/l		98
67)	Chlorobenzene	10.18	112	2381485	25.32	ug/l		99
68)	1,1,1,2-Tetrachloroethane	10.31	131	1051213	23.90	ug/l		95
69)	Ethylbenzene	10.35	91	3439502	25.00	ug/l		98
70)	Xylene P,M	10.53	106	2926754	49.76	ug/l		96
71)	Xylene O	11.13	106	1440416	25.72	ug/l		98
72)	Styrene	11.17	104	2469933	25.24	ug/l		100
73)	Bromoform	11.45	173	691136	24.33	ug/l		99
74)	cis1,4-Dichloro-2-butene	11.84	75	145669	28.68	ug/l		95
77)	Isopropylbenzene	11.72	105	3565634	25.50	ug/l		100
78)	Trans-1,4-Dichloro-2-Buten	12.32	53	186471	27.31	ug/l		87
79)	1,2,3-Trichloropropane	12.29	75	788479	25.59	ug/l		98
80)	Bromobenzene	12.18	156	1043932	25.56	ug/l		99
81)	1,1,2,2-Tetrachloroethane	12.23	83	912842	26.28	ug/l		99
82)	n-Propylbenzene	12.38	91	3802837	25.53	ug/l		100
83)	2-Chlorotoluene	12.49	91	2660178	24.76	ug/l	m	99
84)	4-Chlorotoluene	12.67	91	2935061	24.74	ug/l		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062906\M1041074.D Vial: 2
Acq On : 29 Jun 106 7:24 am Operator: RES
Sample : BPF0238-CCV1 Inst : VOA MASS
Misc : Multiplr: 1.00
Quant Time: Jun 29 9:05 19106

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85)	1,3,5-Trimethylbenzene	12.67	105	2734328	25.24 ug/l	98
86)	tert-Butylbenzene	13.20	119	3374616	25.48 ug/l	99
87)	Pentachloroethane	13.20	119	3374616	25.48 ug/l	96
88)	1,2,4-Trimethylbenzene	13.27	105	2769804	25.37 ug/l	99
89)	sec-Butylbenzene	13.55	105	3323702	24.93 ug/l	98
90)	1,3 Dichlorobenzene	13.71	146	1741959	25.10 ug/l	98
91)	4-Isopropyltoluene	13.80	119	2686464	24.96 ug/l	99
92)	1,4 Dichlorobenzene	13.86	146	1849432	24.74 ug/l	96
93)	n-Butylbenzene	14.46	91	2075089	23.87 ug/l	97
94)	1,2 Dichlorobenzene	14.44	146	1511273	25.15 ug/l	99
95)	Hexachloroethane	14.77	117	631425	26.69 ug/l	96
96)	1,2-Dibromo-3-Chloropropan	15.44	75	116672	24.43 ug/l	93
97)	1,2,4-Trichlorobenzene	16.27	180	724121	23.73 ug/l	98
98)	Hexachlorobutadiene	16.45	225	354720	24.91 ug/l	97
99)	Naphthalene	16.51	128	1014570	23.39 ug/l	100
100)	1,2,3-Trichlorobenzene	16.75	180	509635	23.69 ug/l	98

(#) = qualifier out of range (m) = manual integration

Semi-Volatile Organics Data Package

Semi-Volatile Organics
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1301
Date Sampled: 06/22/06 11:30
Percent Solids: 80
Initial Volume: 19.5
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-01
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	641	1	07/02/06
2-Methylnaphthalene	ND	ug/Kg dry	641	1	07/02/06
Acenaphthene	ND	ug/Kg dry	641	1	07/02/06
Acenaphthylene	ND	ug/Kg dry	641	1	07/02/06
Anthracene	ND	ug/Kg dry	641	1	07/02/06
Benzo(a)anthracene	ND	ug/Kg dry	641	1	07/02/06
Benzo(a)pyrene	ND	ug/Kg dry	641	1	07/02/06
Benzo(b)fluoranthene	ND	ug/Kg dry	641	1	07/02/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	641	1	07/02/06
Benzo(k)fluoranthene	ND	ug/Kg dry	641	1	07/02/06
Chrysene	ND	ug/Kg dry	641	1	07/02/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	641	1	07/02/06
Fluoranthene	ND	ug/Kg dry	641	1	07/02/06
Fluorene	ND	ug/Kg dry	641	1	07/02/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	641	1	07/02/06
Naphthalene	ND	ug/Kg dry	641	1	07/02/06
Phenanthrene	ND	ug/Kg dry	641	1	07/02/06
Pyrene	ND	ug/Kg dry	641	1	07/02/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*69 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*69 %*		*30-130*
Surrogate: Nitrobenzene-d5	*74 %*		*30-130*
Surrogate: p-Terphenyl-d14	*65 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1303
Date Sampled: 06/22/06 11:50
Percent Solids: 80
Initial Volume: 20.1
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-02
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	622	1	07/02/06
2-Methylnaphthalene	ND	ug/Kg dry	622	1	07/02/06
Acenaphthene	ND	ug/Kg dry	622	1	07/02/06
Acenaphthylene	ND	ug/Kg dry	622	1	07/02/06
Anthracene	ND	ug/Kg dry	622	1	07/02/06
Benzo(a)anthracene	ND	ug/Kg dry	622	1	07/02/06
Benzo(a)pyrene	ND	ug/Kg dry	622	1	07/02/06
Benzo(b)fluoranthene	ND	ug/Kg dry	622	1	07/02/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	622	1	07/02/06
Benzo(k)fluoranthene	ND	ug/Kg dry	622	1	07/02/06
Chrysene	ND	ug/Kg dry	622	1	07/02/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	622	1	07/02/06
Fluoranthene	ND	ug/Kg dry	622	1	07/02/06
Fluorene	ND	ug/Kg dry	622	1	07/02/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	622	1	07/02/06
Naphthalene	ND	ug/Kg dry	622	1	07/02/06
Phenanthrene	ND	ug/Kg dry	622	1	07/02/06
Pyrene	ND	ug/Kg dry	622	1	07/02/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*105 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*102 %*		*30-130*
Surrogate: Nitrobenzene-d5	*117 %*		*30-130*
Surrogate: p-Terphenyl-d14	*105 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1401
Date Sampled: 06/22/06 12:10
Percent Solids: 26
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-03
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	1890	1	07/02/06
2-Methylnaphthalene	ND	ug/Kg dry	1890	1	07/02/06
Acenaphthene	ND	ug/Kg dry	1890	1	07/02/06
Acenaphthylene	ND	ug/Kg dry	1890	1	07/02/06
Anthracene	ND	ug/Kg dry	1890	1	07/02/06
Benzo(a)anthracene	ND	ug/Kg dry	1890	1	07/02/06
Benzo(a)pyrene	ND	ug/Kg dry	1890	1	07/02/06
Benzo(b)fluoranthene	ND	ug/Kg dry	1890	1	07/02/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	1890	1	07/02/06
Benzo(k)fluoranthene	ND	ug/Kg dry	1890	1	07/02/06
Chrysene	ND	ug/Kg dry	1890	1	07/02/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	1890	1	07/02/06
Fluoranthene	ND	ug/Kg dry	1890	1	07/02/06
Fluorene	ND	ug/Kg dry	1890	1	07/02/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	1890	1	07/02/06
Naphthalene	ND	ug/Kg dry	1890	1	07/02/06
Phenanthrene	ND	ug/Kg dry	1890	1	07/02/06
Pyrene	ND	ug/Kg dry	1890	1	07/02/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*70 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*68 %*		*30-130*
Surrogate: Nitrobenzene-d5	*72 %*		*30-130*
Surrogate: p-Terphenyl-d14	*65 %*		*30-130*

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1403
Date Sampled: 06/22/06 12:15
Percent Solids: 71
Initial Volume: 20.9
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-04
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	674	1	07/02/06
2-Methylnaphthalene	ND	ug/Kg dry	674	1	07/02/06
Acenaphthene	ND	ug/Kg dry	674	1	07/02/06
Acenaphthylene	ND	ug/Kg dry	674	1	07/02/06
Anthracene	ND	ug/Kg dry	674	1	07/02/06
Benzo(a)anthracene	ND	ug/Kg dry	674	1	07/02/06
Benzo(a)pyrene	ND	ug/Kg dry	674	1	07/02/06
Benzo(b)fluoranthene	ND	ug/Kg dry	674	1	07/02/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	674	1	07/02/06
Benzo(k)fluoranthene	ND	ug/Kg dry	674	1	07/02/06
Chrysene	ND	ug/Kg dry	674	1	07/02/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	674	1	07/02/06
Fluoranthene	ND	ug/Kg dry	674	1	07/02/06
Fluorene	ND	ug/Kg dry	674	1	07/02/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	674	1	07/02/06
Naphthalene	ND	ug/Kg dry	674	1	07/02/06
Phenanthrene	ND	ug/Kg dry	674	1	07/02/06
Pyrene	ND	ug/Kg dry	674	1	07/02/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*60 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*62 %*		*30-130*
Surrogate: Nitrobenzene-d5	*63 %*		*30-130*
Surrogate: p-Terphenyl-d14	*57 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1501
Date Sampled: 06/22/06 12:30
Percent Solids: 81
Initial Volume: 19.6
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-05
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	630	1	07/02/06
2-Methylnaphthalene	ND	ug/Kg dry	630	1	07/02/06
Acenaphthene	ND	ug/Kg dry	630	1	07/02/06
Acenaphthylene	ND	ug/Kg dry	630	1	07/02/06
Anthracene	ND	ug/Kg dry	630	1	07/02/06
Benzo(a)anthracene	ND	ug/Kg dry	630	1	07/02/06
Benzo(a)pyrene	ND	ug/Kg dry	630	1	07/02/06
Benzo(b)fluoranthene	ND	ug/Kg dry	630	1	07/02/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	630	1	07/02/06
Benzo(k)fluoranthene	ND	ug/Kg dry	630	1	07/02/06
Chrysene	ND	ug/Kg dry	630	1	07/02/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	630	1	07/02/06
Fluoranthene	ND	ug/Kg dry	630	1	07/02/06
Fluorene	ND	ug/Kg dry	630	1	07/02/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	630	1	07/02/06
Naphthalene	ND	ug/Kg dry	630	1	07/02/06
Phenanthrene	ND	ug/Kg dry	630	1	07/02/06
Pyrene	ND	ug/Kg dry	630	1	07/02/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*67 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*67 %*		*30-130*
Surrogate: Nitrobenzene-d5	*72 %*		*30-130*
Surrogate: p-Terphenyl-d14	*61 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1503
Date Sampled: 06/22/06 12:55
Percent Solids: 90
Initial Volume: 19.5
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-06
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	570	1	07/02/06
2-Methylnaphthalene	ND	ug/Kg dry	570	1	07/02/06
Acenaphthene	ND	ug/Kg dry	570	1	07/02/06
Acenaphthylene	ND	ug/Kg dry	570	1	07/02/06
Anthracene	ND	ug/Kg dry	570	1	07/02/06
Benzo(a)anthracene	ND	ug/Kg dry	570	1	07/02/06
Benzo(a)pyrene	ND	ug/Kg dry	570	1	07/02/06
Benzo(b)fluoranthene	ND	ug/Kg dry	570	1	07/02/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	570	1	07/02/06
Benzo(k)fluoranthene	ND	ug/Kg dry	570	1	07/02/06
Chrysene	ND	ug/Kg dry	570	1	07/02/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	570	1	07/02/06
Fluoranthene	ND	ug/Kg dry	570	1	07/02/06
Fluorene	ND	ug/Kg dry	570	1	07/02/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	570	1	07/02/06
Naphthalene	ND	ug/Kg dry	570	1	07/02/06
Phenanthrene	ND	ug/Kg dry	570	1	07/02/06
Pyrene	ND	ug/Kg dry	570	1	07/02/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*78 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*79 %*		*30-130*
Surrogate: Nitrobenzene-d5	*83 %*		*30-130*
Surrogate: p-Terphenyl-d14	*73 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1601
Date Sampled: 06/22/06 13:15
Percent Solids: 14
Initial Volume: 19.9
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-07
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	3590	1	07/02/06
2-Methylnaphthalene	ND	ug/Kg dry	3590	1	07/02/06
Acenaphthene	ND	ug/Kg dry	3590	1	07/02/06
Acenaphthylene	ND	ug/Kg dry	3590	1	07/02/06
Anthracene	ND	ug/Kg dry	3590	1	07/02/06
Benzo(a)anthracene	ND	ug/Kg dry	3590	1	07/02/06
Benzo(a)pyrene	ND	ug/Kg dry	3590	1	07/02/06
Benzo(b)fluoranthene	ND	ug/Kg dry	3590	1	07/02/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	3590	1	07/02/06
Benzo(k)fluoranthene	ND	ug/Kg dry	3590	1	07/02/06
Chrysene	ND	ug/Kg dry	3590	1	07/02/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	3590	1	07/02/06
Fluoranthene	ND	ug/Kg dry	3590	1	07/02/06
Fluorene	ND	ug/Kg dry	3590	1	07/02/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	3590	1	07/02/06
Naphthalene	ND	ug/Kg dry	3590	1	07/02/06
Phenanthrene	ND	ug/Kg dry	3590	1	07/02/06
Pyrene	ND	ug/Kg dry	3590	1	07/02/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*72 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*71 %*		*30-130*
Surrogate: Nitrobenzene-d5	*75 %*		*30-130*
Surrogate: p-Terphenyl-d14	*68 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1603
Date Sampled: 06/22/06 13:30
Percent Solids: 80
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-08
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/27/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	613	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	613	1	07/03/06
Acenaphthene	ND	ug/Kg dry	613	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	613	1	07/03/06
Anthracene	ND	ug/Kg dry	613	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	613	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	613	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	613	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	613	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	613	1	07/03/06
Chrysene	ND	ug/Kg dry	613	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	613	1	07/03/06
Fluoranthene	ND	ug/Kg dry	613	1	07/03/06
Fluorene	ND	ug/Kg dry	613	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	613	1	07/03/06
Naphthalene	ND	ug/Kg dry	613	1	07/03/06
Phenanthrene	ND	ug/Kg dry	613	1	07/03/06
Pyrene	ND	ug/Kg dry	613	1	07/03/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*69 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*66 %*		*30-130*
Surrogate: Nitrobenzene-d5	*75 %*		*30-130*
Surrogate: p-Terphenyl-d14	*58 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1801
Date Sampled: 06/22/06 14:00
Percent Solids: 13
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-09
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/27/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	3660	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	3660	1	07/03/06
Acenaphthene	ND	ug/Kg dry	3660	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	3660	1	07/03/06
Anthracene	ND	ug/Kg dry	3660	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	3660	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	3660	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	3660	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	3660	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	3660	1	07/03/06
Chrysene	ND	ug/Kg dry	3660	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	3660	1	07/03/06
Fluoranthene	ND	ug/Kg dry	3660	1	07/03/06
Fluorene	ND	ug/Kg dry	3660	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	3660	1	07/03/06
Naphthalene	ND	ug/Kg dry	3660	1	07/03/06
Phenanthrene	ND	ug/Kg dry	3660	1	07/03/06
Pyrene	ND	ug/Kg dry	3660	1	07/03/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*58 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*66 %*		*30-130*
Surrogate: Nitrobenzene-d5	*63 %*		*30-130*
Surrogate: p-Terphenyl-d14	*75 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1804
Date Sampled: 06/22/06 14:20
Percent Solids: 17
Initial Volume: 19.9
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-10
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/27/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	2960	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	2960	1	07/03/06
Acenaphthene	ND	ug/Kg dry	2960	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	2960	1	07/03/06
Anthracene	ND	ug/Kg dry	2960	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	2960	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	2960	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	2960	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	2960	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	2960	1	07/03/06
Chrysene	ND	ug/Kg dry	2960	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	2960	1	07/03/06
Fluoranthene	ND	ug/Kg dry	2960	1	07/03/06
Fluorene	ND	ug/Kg dry	2960	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	2960	1	07/03/06
Naphthalene	ND	ug/Kg dry	2960	1	07/03/06
Phenanthrene	ND	ug/Kg dry	2960	1	07/03/06
Pyrene	ND	ug/Kg dry	2960	1	07/03/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*76 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*76 %*		*30-130*
Surrogate: Nitrobenzene-d5	*79 %*		*30-130*
Surrogate: p-Terphenyl-d14	*73 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1901
Date Sampled: 06/22/06 14:35
Percent Solids: 21
Initial Volume: 19.2
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-11
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/27/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	2480	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	2480	1	07/03/06
Acenaphthene	ND	ug/Kg dry	2480	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	2480	1	07/03/06
Anthracene	ND	ug/Kg dry	2480	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	2480	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	2480	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	2480	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	2480	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	2480	1	07/03/06
Chrysene	ND	ug/Kg dry	2480	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	2480	1	07/03/06
Fluoranthene	ND	ug/Kg dry	2480	1	07/03/06
Fluorene	ND	ug/Kg dry	2480	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	2480	1	07/03/06
Naphthalene	ND	ug/Kg dry	2480	1	07/03/06
Phenanthrene	ND	ug/Kg dry	2480	1	07/03/06
Pyrene	ND	ug/Kg dry	2480	1	07/03/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*81 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*79 %*		*30-130*
Surrogate: Nitrobenzene-d5	*83 %*		*30-130*
Surrogate: p-Terphenyl-d14	*77 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1903
Date Sampled: 06/22/06 14:50
Percent Solids: 12
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-12
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/27/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	3970	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	3970	1	07/03/06
Acenaphthene	ND	ug/Kg dry	3970	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	3970	1	07/03/06
Anthracene	ND	ug/Kg dry	3970	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	3970	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	3970	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	3970	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	3970	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	3970	1	07/03/06
Chrysene	ND	ug/Kg dry	3970	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	3970	1	07/03/06
Fluoranthene	ND	ug/Kg dry	3970	1	07/03/06
Fluorene	ND	ug/Kg dry	3970	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	3970	1	07/03/06
Naphthalene	ND	ug/Kg dry	3970	1	07/03/06
Phenanthrene	ND	ug/Kg dry	3970	1	07/03/06
Pyrene	ND	ug/Kg dry	3970	1	07/03/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*82 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*81 %*		*30-130*
Surrogate: Nitrobenzene-d5	*86 %*		*30-130*
Surrogate: p-Terphenyl-d14	*73 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2301
Date Sampled: 06/22/06 15:30
Percent Solids: 76
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-13
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/27/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	645	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	645	1	07/03/06
Acenaphthene	ND	ug/Kg dry	645	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	645	1	07/03/06
Anthracene	ND	ug/Kg dry	645	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	645	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	645	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	645	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	645	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	645	1	07/03/06
Chrysene	ND	ug/Kg dry	645	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	645	1	07/03/06
Fluoranthene	ND	ug/Kg dry	645	1	07/03/06
Fluorene	ND	ug/Kg dry	645	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	645	1	07/03/06
Naphthalene	ND	ug/Kg dry	645	1	07/03/06
Phenanthrene	ND	ug/Kg dry	645	1	07/03/06
Pyrene	ND	ug/Kg dry	645	1	07/03/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*81 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*79 %*		*30-130*
Surrogate: Nitrobenzene-d5	*87 %*		*30-130*
Surrogate: p-Terphenyl-d14	*72 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2303
Date Sampled: 06/22/06 15:40
Percent Solids: 78
Initial Volume: 20.6
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-14
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/27/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	622	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	622	1	07/03/06
Acenaphthene	ND	ug/Kg dry	622	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	622	1	07/03/06
Anthracene	ND	ug/Kg dry	622	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	622	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	622	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	622	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	622	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	622	1	07/03/06
Chrysene	ND	ug/Kg dry	622	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	622	1	07/03/06
Fluoranthene	ND	ug/Kg dry	622	1	07/03/06
Fluorene	ND	ug/Kg dry	622	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	622	1	07/03/06
Naphthalene	ND	ug/Kg dry	622	1	07/03/06
Phenanthrene	ND	ug/Kg dry	622	1	07/03/06
Pyrene	ND	ug/Kg dry	622	1	07/03/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*84 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*79 %*		*30-130*
Surrogate: Nitrobenzene-d5	*85 %*		*30-130*
Surrogate: p-Terphenyl-d14	*74 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2101
Date Sampled: 06/22/06 15:00
Percent Solids: 73
Initial Volume: 20.9
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-15
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/27/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	655	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	655	1	07/03/06
Acenaphthene	ND	ug/Kg dry	655	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	655	1	07/03/06
Anthracene	ND	ug/Kg dry	655	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	655	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	655	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	655	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	655	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	655	1	07/03/06
Chrysene	ND	ug/Kg dry	655	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	655	1	07/03/06
Fluoranthene	ND	ug/Kg dry	655	1	07/03/06
Fluorene	ND	ug/Kg dry	655	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	655	1	07/03/06
Naphthalene	ND	ug/Kg dry	655	1	07/03/06
Phenanthrene	ND	ug/Kg dry	655	1	07/03/06
Pyrene	ND	ug/Kg dry	655	1	07/03/06

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*67 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*67 %*		*30-130*
Surrogate: Nitrobenzene-d5	*69 %*		*30-130*
Surrogate: p-Terphenyl-d14	*61 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2103
Date Sampled: 06/22/06 15:10
Percent Solids: 79
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-16
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/27/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	603	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	603	1	07/03/06
Acenaphthene	ND	ug/Kg dry	603	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	603	1	07/03/06
Anthracene	ND	ug/Kg dry	603	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	603	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	603	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	603	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	603	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	603	1	07/03/06
Chrysene	ND	ug/Kg dry	603	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	603	1	07/03/06
Fluoranthene	ND	ug/Kg dry	603	1	07/03/06
Fluorene	ND	ug/Kg dry	603	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	603	1	07/03/06
Naphthalene	ND	ug/Kg dry	603	1	07/03/06
Phenanthrene	ND	ug/Kg dry	603	1	07/03/06
Pyrene	ND	ug/Kg dry	603	1	07/03/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*76 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*72 %*		*30-130*
Surrogate: Nitrobenzene-d5	*78 %*		*30-130*
Surrogate: p-Terphenyl-d14	*65 %*		*30-130*

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Semi-Volatile Organics Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch BF62329 - 3541										
Aroclor 1268	ND	33.3	ug/Kg wet							
Surrogate: Decachlorobiphenyl	*17.3*		ug/Kg wet	*16.7*		*104*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*16.9*		ug/Kg wet	*16.7*		*101*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*14.6*		ug/Kg wet	*16.7*		*87*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*14.9*		ug/Kg wet	*16.7*		*89*	*30-150*			
LCS										
Aroclor 1016	328	33.3	ug/Kg wet	333		98	40-140			
Aroclor 1260	349	33.3	ug/Kg wet	333		105	40-140			
Surrogate: Decachlorobiphenyl	*17.5*		ug/Kg wet	*16.7*		*105*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*17.2*		ug/Kg wet	*16.7*		*103*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*15.5*		ug/Kg wet	*16.7*		*93*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.3*		ug/Kg wet	*16.7*		*92*	*30-150*			
LCS Dup										
Aroclor 1016	333	33.3	ug/Kg wet	333		100	40-140	2	50	
Aroclor 1260	336	33.3	ug/Kg wet	333		101	40-140	4	50	
Surrogate: Decachlorobiphenyl	*17.9*		ug/Kg wet	*16.7*		*107*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*17.8*		ug/Kg wet	*16.7*		*107*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*15.8*		ug/Kg wet	*16.7*		*95*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.6*		ug/Kg wet	*16.7*		*93*	*30-150*			
8100M Total Petroleum Hydrocarbons										
Batch BF62406 - 3541										
Blank										
Total Petroleum Hydrocarbons	ND	37.5	mg/kg wet							
Surrogate: O-Terphenyl	*4.19*		mg/kg wet	*5.00*		*84*	*40-140*			
LCS										
Total Petroleum Hydrocarbons	671	37.5	mg/kg wet	1000		67	40-140			
Surrogate: O-Terphenyl	*5.31*		mg/kg wet	*5.00*		*106*	*40-140*			
LCS Dup										
Total Petroleum Hydrocarbons	653	37.5	mg/kg wet	1000		65	40-140	3	50	
Surrogate: O-Terphenyl	*5.04*		mg/kg wet	*5.00*		*101*	*40-140*			
8270C Polynuclear Aromatic Hydrocarbons										
Batch BG60520 - 3541										
Blank										
1-Methylnaphthalene	ND	500	ug/Kg wet							
2-Methylnaphthalene	ND	500	ug/Kg wet							
Acenaphthene	ND	500	ug/Kg wet							
Acenaphthylene	ND	500	ug/Kg wet							
Anthracene	ND	500	ug/Kg wet							
Benzo(a)anthracene	ND	500	ug/Kg wet							
Benzo(a)pyrene	ND	500	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Polynuclear Aromatic Hydrocarbons										
Batch BG60520 - 3541										
Benzo(b)fluoranthene	ND	500	ug/Kg wet							
Benzo(g,h,i)perylene	ND	500	ug/Kg wet							
Benzo(k)fluoranthene	ND	500	ug/Kg wet							
Chrysene	ND	500	ug/Kg wet							
Dibenzo(a,h)Anthracene	ND	500	ug/Kg wet							
Fluoranthene	ND	500	ug/Kg wet							
Fluorene	ND	500	ug/Kg wet							
Indeno(1,2,3-cd)Pyrene	ND	500	ug/Kg wet							
Naphthalene	ND	500	ug/Kg wet							
Phenanthrene	ND	500	ug/Kg wet							
Pyrene	ND	500	ug/Kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*3860*		ug/Kg wet	*5000*		*77*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*3680*		ug/Kg wet	*5000*		*74*	*30-130*			
Surrogate: Nitrobenzene-d5	*4060*		ug/Kg wet	*5000*		*81*	*30-130*			
Surrogate: p-Terphenyl-d14	*3280*		ug/Kg wet	*5000*		*66*	*30-130*			
LCS										
2-Methylnaphthalene	4220	500	ug/Kg wet	5000		84	40-140			
Acenaphthene	4260	500	ug/Kg wet	5000		85	40-140			
Acenaphthylene	4210	500	ug/Kg wet	5000		84	40-140			
Anthracene	4350	500	ug/Kg wet	5000		87	40-140			
Benzo(a)anthracene	4150	500	ug/Kg wet	5000		83	40-140			
Benzo(a)pyrene	4380	500	ug/Kg wet	5000		88	40-140			
Benzo(b)fluoranthene	5100	500	ug/Kg wet	5000		102	40-140			
Benzo(g,h,i)perylene	4440	500	ug/Kg wet	5000		89	40-140			
Benzo(k)fluoranthene	3340	500	ug/Kg wet	5000		67	40-140			
Chrysene	4010	500	ug/Kg wet	5000		80	40-140			
Dibenzo(a,h)Anthracene	4780	500	ug/Kg wet	5000		96	40-140			
Fluoranthene	4570	500	ug/Kg wet	5000		91	40-140			
Fluorene	4200	500	ug/Kg wet	5000		84	40-140			
Indeno(1,2,3-cd)Pyrene	4860	500	ug/Kg wet	5000		97	40-140			
Naphthalene	4270	500	ug/Kg wet	5000		85	40-140			
Phenanthrene	4420	500	ug/Kg wet	5000		88	40-140			
Pyrene	4080	500	ug/Kg wet	5000		82	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*4170*		ug/Kg wet	*5000*		*83*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*4270*		ug/Kg wet	*5000*		*85*	*30-130*			
Surrogate: Nitrobenzene-d5	*4730*		ug/Kg wet	*5000*		*95*	*30-130*			
Surrogate: p-Terphenyl-d14	*4140*		ug/Kg wet	*5000*		*83*	*30-130*			
LCS Dup										
2-Methylnaphthalene	3920	500	ug/Kg wet	5000		78	40-140	7	30	
Acenaphthene	3980	500	ug/Kg wet	5000		80	40-140	6	30	
Acenaphthylene	3950	500	ug/Kg wet	5000		79	40-140	6	30	
Anthracene	4140	500	ug/Kg wet	5000		83	40-140	5	30	
Benzo(a)anthracene	4020	500	ug/Kg wet	5000		80	40-140	4	30	
Benzo(a)pyrene	4090	500	ug/Kg wet	5000		82	40-140	7	30	
Benzo(b)fluoranthene	4530	500	ug/Kg wet	5000		91	40-140	11	30	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Polynuclear Aromatic Hydrocarbons										
Batch BG60520 - 3541										
Benzo(g,h,i)perylene	4080	500	ug/Kg wet	5000		82	40-140	8	30	
Benzo(k)fluoranthene	3940	500	ug/Kg wet	5000		79	40-140	16	30	
Chrysene	3890	500	ug/Kg wet	5000		78	40-140	3	30	
Dibenzo(a,h)Anthracene	4440	500	ug/Kg wet	5000		89	40-140	8	30	
Fluoranthene	4430	500	ug/Kg wet	5000		89	40-140	2	30	
Fluorene	4010	500	ug/Kg wet	5000		80	40-140	5	30	
Indeno(1,2,3-cd)Pyrene	4410	500	ug/Kg wet	5000		88	40-140	10	30	
Naphthalene	3850	500	ug/Kg wet	5000		77	40-140	10	30	
Phenanthrene	4160	500	ug/Kg wet	5000		83	40-140	6	30	
Pyrene	3960	500	ug/Kg wet	5000		79	40-140	4	30	
Surrogate: 1,2-Dichlorobenzene-d4	*3930*		ug/Kg wet	*5000*		*79*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*3990*		ug/Kg wet	*5000*		*80*	*30-130*			
Surrogate: Nitrobenzene-d5	*4540*		ug/Kg wet	*5000*		*91*	*30-130*			
Surrogate: p-Terphenyl-d14	*4040*		ug/Kg wet	*5000*		*81*	*30-130*			
8270C(SIM) Polynuclear Aromatic Hydrocarbons										
Batch BF62717 - 3541										
Blank										
1-Methylnaphthalene	ND	25.0	ug/Kg wet							
2-Methylnaphthalene	ND	25.0	ug/Kg wet							
Acenaphthene	ND	25.0	ug/Kg wet							
Acenaphthylene	ND	25.0	ug/Kg wet							
Anthracene	ND	25.0	ug/Kg wet							
Benzo(a)anthracene	ND	25.0	ug/Kg wet							
Benzo(a)pyrene	ND	25.0	ug/Kg wet							
Benzo(b)fluoranthene	ND	25.0	ug/Kg wet							
Benzo(g,h,i)perylene	ND	25.0	ug/Kg wet							
Benzo(k)fluoranthene	ND	25.0	ug/Kg wet							
Chrysene	ND	25.0	ug/Kg wet							
Dibenzo(a,h)Anthracene	ND	25.0	ug/Kg wet							
Fluoranthene	ND	25.0	ug/Kg wet							
Fluorene	ND	25.0	ug/Kg wet							
Indeno(1,2,3-cd)Pyrene	ND	25.0	ug/Kg wet							
Naphthalene	ND	25.0	ug/Kg wet							
Phenanthrene	ND	25.0	ug/Kg wet							
Pyrene	ND	25.0	ug/Kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*4070*		ug/Kg wet	*5000*		*81*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*5290*		ug/Kg wet	*5000*		*106*	*30-130*			
Surrogate: Nitrobenzene-d5	*2630*		ug/Kg wet	*5000*		*53*	*30-130*			
Surrogate: p-Terphenyl-d14	*5390*		ug/Kg wet	*5000*		*108*	*30-130*			
LCS										
2-Methylnaphthalene	108	25.0	ug/Kg wet	125		86	40-140			
Acenaphthene	107	25.0	ug/Kg wet	125		86	40-140			
Acenaphthylene	106	25.0	ug/Kg wet	125		85	40-140			
Anthracene	111	25.0	ug/Kg wet	125		89	40-140			

Semi-Volatile Organics Calibration Data

ANALYSIS SEQUENCE

BPF0206

Instrument: SVOA-MS1

Calibnration ID: ~~UNASSIGNED~~ SVING

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0206-TUN1	QC		1		6F13071		
BPF0206-CCV1	QC		2		6F27064	6F26097	
BPF0206-CAL1	QC		3		6E31076	6E26058	
BPF0206-CAL2	QC		4		6E31077	6E26058	
BPF0206-CAL3	QC		5		6E31078	6E26058	
BPF0206-CAL4	QC		6		6E31079	6E26058	
BPF0206-CAL5	QC		7		6E31080	6E26058	
BPF0206-CAL6	QC		8		6E31081	6E26058	
BPF0206-CAL7	QC		9		6E31082	6E26058	
BPF0206-CAL8	QC		10		6E31083	6E26058	
BPF0206-SCV1	QC		11		6E31084	6E26058	

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ESS LABORATORY
GCMS1 RUN LOG

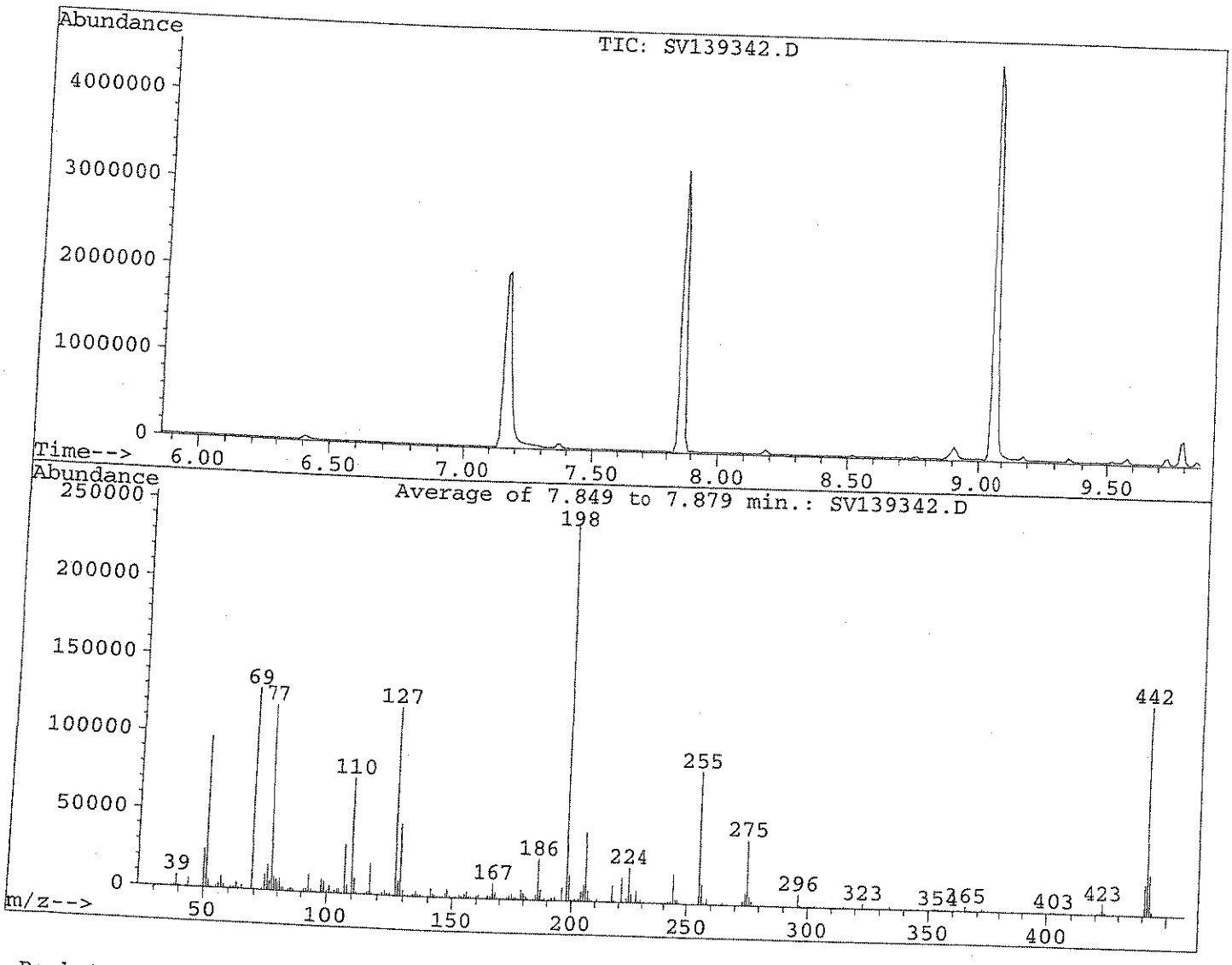
COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/27/06	18	SV1 39352	0606334-02	SVMG	RR	JL
	19	SV1 53	0606361-01			
	20	SV1 54	BF62702-BLK1			
	21	SV1 55	BF62702-BS1			
	22	SV1 56	BF62702-BSD1			
	23	SV1 57	0606375-02			
	24	SV1 58	BF62702-MS1			
	25	SV1 59	BF62702-MSD1			
	26	SV1 60	0606405-01			
	27	SV1 61	02			
	28	SV1 62	02MS			
	29	SV1 63	02MSD			
	30	SV1 64	0606405 03			
6/27/06	31	SV1 65	~~0606405 04~~ 0606405-04	SVMG		JL
6/28/06	1	SV1 39336	BPF0206-CCV1	SVMG		JL
	2	SV1 37				
	2	SV1 38				
6/28/06	2	SV1 40	BPF0206-CCV1	SVMG	6F27064	JL
6/29/06	1	SV1 42	BPF0206-TUNE01	DFTPP	6F13071 BPF0204-BS,MS,DUP	JL
	2	SV1 43	-CCV1	SVMG	6F27064	
	2	SV1 44	-cal4		6E31076	
	3	SV1 45	-cal1		77	
	4	SV1 46	-cal2		78	
	5	SV1 47	-cal3		79	
	6	SV1 48	-cal5		80	
	7	SV1 49	-cal6		81	
	8	SV1 50	-cal7		82	
	9	SV1 51	-cal8		83	
	10	SV1 52	BPF0206_SCV1		6E31084	
6/29/06	11	SV1 53	0606375-01	SVMG	Surr. Failed	JL

DFTPP CLP

Data File : Q:\SVOA\MS1_MD\MD0606\MD062906\SV139342.D Vial: 1
Acq On : 29 Jun 106 8:59 am Operator: VSC
Sample : BPF0206-TUN1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\DFTPP.M
Title : daily instrument eval mix



Peak Apex is scan: 221

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.4	97321	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	53.6	129355	PASS
70	69	0	2	0.5	676	PASS
127	198	40	60	50.2	121074	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	241112	PASS
199	198	5	9	6.7	16112	PASS
275	198	10	30	17.3	41821	PASS
365	198	1	100	1.2	2820	PASS
441	443	0	100	75.9	19756	PASS
442	198	40	110	55.9	134702	PASS
443	442	17	23	19.3	26026	PASS

SV139342.D DFTPP.M Fri Jul 21 09:52:02 2006

Response Factor Report SVOA-MS1

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jun 29 15:16:49 2006
Response via : Initial Calibration

Calibration Files
5 =SV139345.D 80 =SV139348.D 50 =SV139344.D
200 =SV139351.D 120 =SV139349.D 160 =SV139350.D

		Compound	5	80	50	200	120	160	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d								
2)		N-Nitrosodimethylam	ISTD							
3)		Pyridine	0.088	0.113	0.111	0.132	0.123	0.119	0.111	13.45
4)	S	2-Fluorophenol (SUR	0.171	0.201	0.185	0.214	0.202	0.209	0.190	10.58
5)		bis(2-Chloroethyl)e	1.447	1.514	1.488	1.523	1.527	1.532	1.483	3.58
6)	S	Phenol-d5 (SURR)	1.746	1.668	1.677	1.416	1.541	1.517	1.633	7.83
7)	M	2-Chlorophenol	1.971	1.821	1.907	1.690	1.713	1.703	1.833	6.55
8)	MC	Phenol	1.595	1.438	1.500	1.326	1.366	1.357	1.454	6.78
9)		Aniline	2.479	2.203	2.323	2.012	2.055	2.062	2.245	8.46
10)	S	2-Chlorophenol-d4(S	2.510	2.293	2.353	2.074	2.115	2.106	2.318	8.90
11)		1,3-Dichlorobenzene	1.577	1.431	1.506	1.271	1.349	1.323	1.441	8.16
12)	MC	1,4-Dichlorobenzene	1.666	1.534	1.560	1.447	1.481	1.484	1.547	4.83
13)	S	1,2 Dichlorobenzene	1.675	1.579	1.585	1.454	1.515	1.475	1.566	4.96
14)		1,2-Dichlorobenzene	0.945	0.835	0.873	0.698	0.763	0.754	0.838	10.98
15)		Benzyl Alcohol	1.569	1.391	1.433	1.174	1.306	1.264	1.394	9.89
16)		bis(2-chloroisoprop	1.303	1.181	1.214	1.007	1.106	1.081	1.171	8.39
17)		2-Methylphenol	2.254	2.042	2.101	1.829	1.953	1.950	2.050	6.59
18)		Acetophenone	1.427	1.305	1.328	1.243	1.279	1.263	1.319	4.59
19)	MP	N-Nitroso-Di-n-Prop	1.970	1.775	1.801	1.684	1.675	1.709	1.796	6.00
20)		Hexachloroethane	1.129	1.022	1.053	0.878	0.961	0.928	1.016	8.60#
21)		3+4-Methylphenol	0.663	0.613	0.626	0.515	0.569	0.547	0.601	8.56
22)	I	Naphthalene-d8	1.474	1.341	1.393	1.268	1.291	1.306	1.369	5.85
23)	S	Nitrobenzene-d5 (SU	ISTD							
24)		Nitrobenzene	0.371	0.363	0.369	0.371	0.363	0.363	0.364	1.81
25)		Isophorone	0.385	0.357	0.361	0.360	0.354	0.353	0.364	2.92
26)	C	2-Nitrophenol	0.803	0.743	0.743	0.777	0.748	0.749	0.764	2.98
27)		Benzoic Acid	0.169	0.211	0.204	0.226	0.219	0.220	0.203	9.95
28)		2,4-Dimethylphenol	0.142	0.280	0.231	0.314	0.327	0.310	0.244	30.59 L
29)		bis(2-Chloroethoxy)	0.356	0.336	0.327	0.341	0.330	0.331	0.340	3.28
30)	C	2,4-Dichlorophenol	0.523	0.495	0.495	0.506	0.489	0.493	0.505	2.77
31)	M	1,2,4-Trichlorobenz	0.276	0.269	0.273	0.275	0.266	0.265	0.273	2.31
32)		Naphthalene	0.284	0.270	0.271	0.261	0.265	0.263	0.273	3.63
33)		4-Chloroaniline	1.096	0.949	0.977	0.871	0.884	0.880	0.968	9.01
34)	C	Hexachlorobutadiene	0.477	0.429	0.454	0.369	0.399	0.390	0.434	10.04
35)	MC	4-Chloro-3-Methylph	0.134	0.118	0.122	0.110	0.113	0.111	0.121	7.97
36)		2-Methylnaphthalene	0.314	0.313	0.300	0.296	0.302	0.291	0.304	2.74
37)		1-Methylnaphthalene	0.700	0.626	0.646	0.586	0.604	0.586	0.640	7.41
38)	I	Acenaphthene-d10	0.697	0.622	0.638	0.591	0.588	0.581	0.635	7.37
39)	P	Hexachlorocyclopent	ISTD							
40)	C	2,4,6-Trichlorophen	0.273	0.275	0.228	0.251	0.258	0.259	0.262	6.47#
41)		2,4,5-Trichlorophen	0.377	0.373	0.377	0.384	0.367	0.383	0.377	1.52
42)	S	2-Fluorobiphenyl (S	0.400	0.397	0.406	0.373	0.393	0.394	0.397	3.02
43)		Biphenyl	1.398	1.201	1.287	1.113	1.167	1.159	1.245	8.03
44)		2-Chloronaphthalene	1.692	1.368	1.532	1.256	1.206	1.576	1.471	13.26 - 200
45)		Dimethylphthalate	1.472	1.206	1.318	1.126	1.174	1.175	1.289	10.65
46)		Acenaphthylene	1.454	1.305	1.349	1.266	1.294	1.310	1.349	4.96
47)		2,6-Dinitrotoluene	2.251	1.897	1.993	1.775	1.826	1.830	1.979	8.88
48)		2-Nitroaniline	0.271	0.310	0.317	0.303	0.303	0.304	0.304	5.03
49)	MC	Acenaphthene	0.391	0.380	0.376	0.391	0.390	0.398	0.386	3.31
50)	P	2,4-Dinitrophenol	1.344	1.160	1.220	1.073	1.111	1.123	1.195	7.89
51)		Dibenzofuran	0.159	0.107	0.210	0.188	0.204	0.085	0.159	32.92# L - 10,5
52)	MP	4-Nitrophenol	1.775	1.586	1.640	1.502	1.539	1.544	1.628	6.24
53)		3-Nitroaniline	0.205	0.264	0.253	0.274	0.285	0.292	0.254	12.34#
54)	M	2,4-Dinitrotoluene	0.433	0.465	0.471	0.453	0.461	0.451	0.457	3.18
			0.278	0.422	0.390	0.435	0.428	0.440	0.388	14.99 L

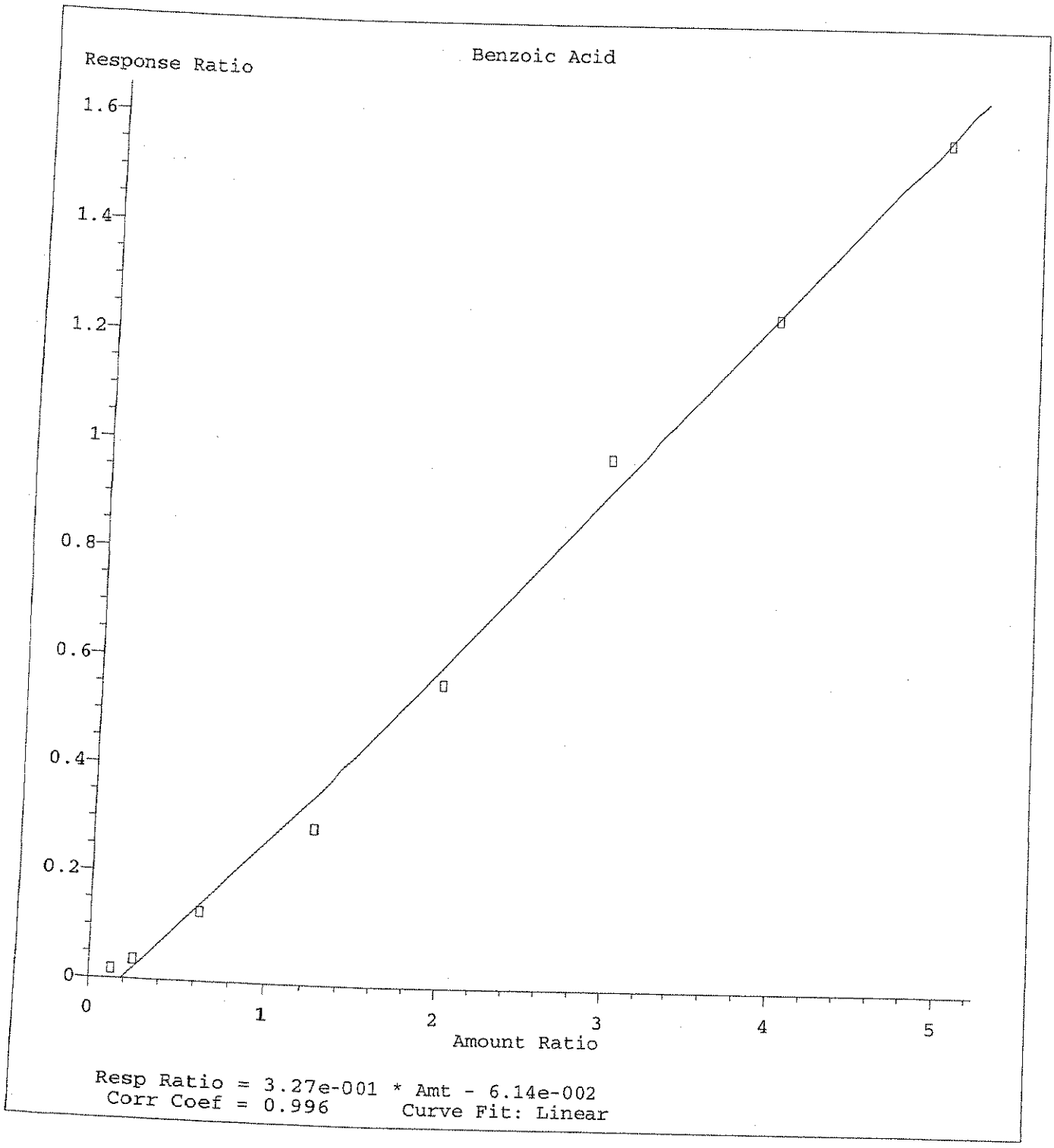
= Out of Range ### Number of calibration levels exceeded format ###

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jun 29 15:16:49 2006
Response via : Initial Calibration

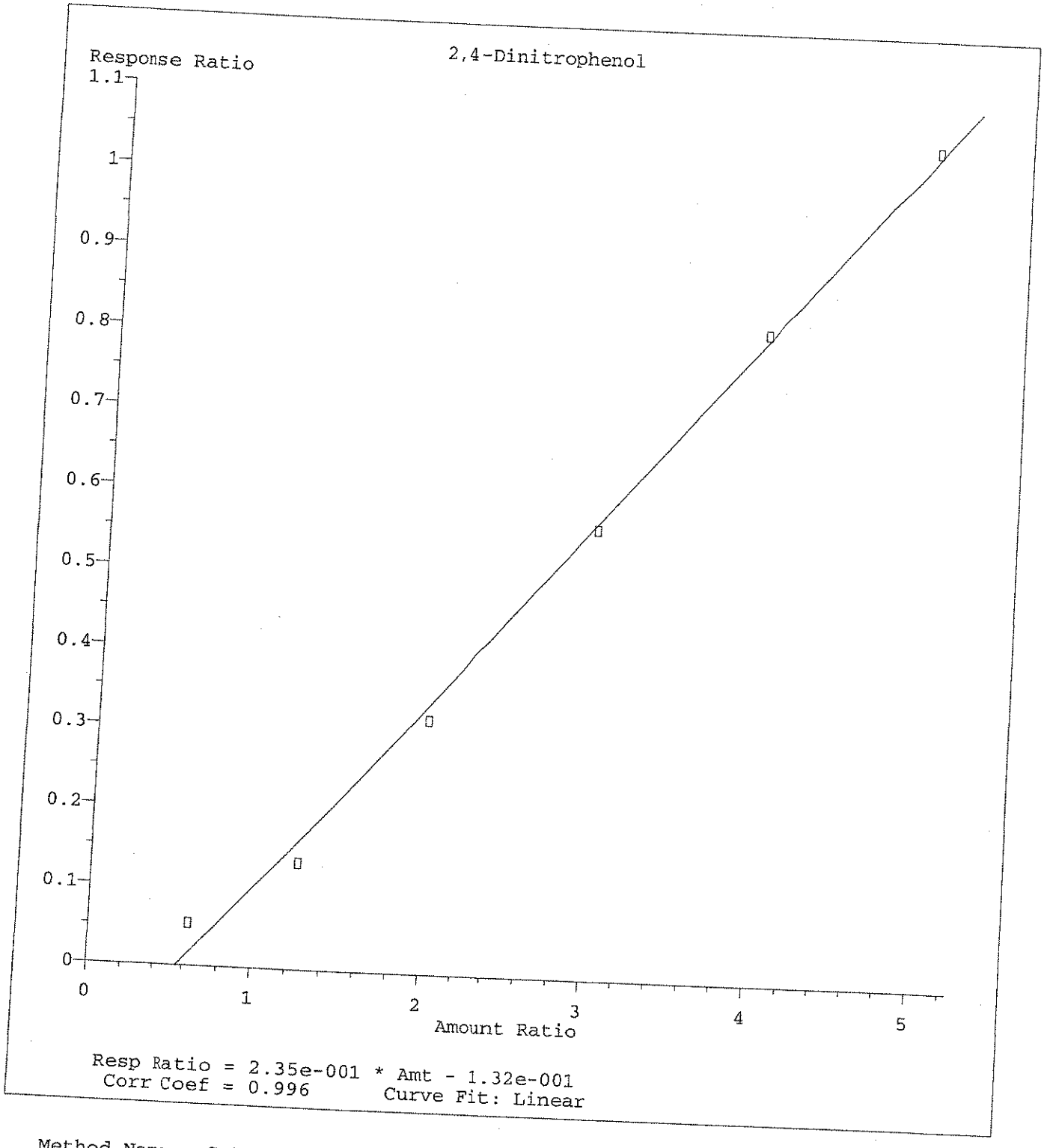
Calibration Files
5 =SV139345.D 80 =SV139348.D 50 =SV139344.D
200 =SV139351.D 120 =SV139349.D 160 =SV139350.D

		Compound	5	80	50	200	120	160	Avg	%RSD	
55)		Fluorene	1.435	1.202	1.301	1.016	1.118	1.101	1.237	12.14	
56)		2,3,4,6-Tetrachloro	0.277	0.280	0.281	0.275	0.270	0.277	0.280	2.96	
57)		Diethylphthalate	1.577	1.377	1.442	1.314	1.338	1.333	1.418	6.62	
58)		4-Chloro-phenyl-phe	0.614	0.518	0.567	0.474	0.466	0.583	0.546	11.03	— 200
59)	I	Phenanthrene-d10				ISTD					
60)		4-Nitroaniline	0.262	0.319	0.311	0.318	0.320	0.308	0.302	7.27	
61)		4,6-Dinitro-2-Methy	0.041	0.163	0.128	0.178	0.176	0.177	0.131	40.35	L
62)	C	N-nitrosodiphenylam	0.869	0.723	0.770	0.656	0.679	0.649	0.742	10.61	
63)		Azobenzene	1.269	1.142	1.105	1.085	1.122	1.096	1.141	5.09	
64)	S	2,4,6-Tribromopheno	0.088	0.106	0.104	0.108	0.106	0.105	0.103	6.40	
65)		4-Bromophenyl-pheny	0.215	0.197	0.199	0.186	0.187	0.183	0.198	5.83	
66)		Hexachlorobenzene	0.240	0.223	0.220	0.217	0.214	0.213	0.224	4.51	
67)	MC	Pentachlorophenol	0.096	0.136	0.126	0.146	0.135	0.139	0.128	12.33	
68)		Phenanthrene	1.328	1.120	1.191	1.065	1.062	1.055	1.165	9.00	
69)		Anthracene	1.362	1.146	1.211	1.024	1.085	1.038	1.179	10.70	
70)		Carbazole	1.363	1.197	1.229	1.147	1.134	1.119	1.220	7.15	
71)		Di-n-butylphthalate	1.946	1.720	1.760	1.650	1.691	1.637	1.762	6.28	
72)	C	Fluoranthene	1.250	1.149	1.154	1.094	1.124	1.076	1.160	5.38	
73)		Benzidine	0.558	0.616	0.554	0.551	0.494	0.526	0.582	13.64	
74)	I	Chrysene-d12				ISTD					
75)	M	Pyrene	1.776	1.698	1.704	1.701	1.711	1.684	1.718	1.99	
76)	S	Terphenyl-d14 (SURR	1.066	1.005	1.024	1.008	0.996	1.004	1.023	2.48	
77)		Butylbenzylphthalat	1.137	1.097	1.114	1.080	1.087	1.086	1.103	2.35	
78)		3,3'-Dichlorobenzid	0.536	0.522	0.536	0.504	0.520	0.496	0.520	2.77	
79)		Benzo(a)anthracene	1.540	1.487	1.481	1.583	1.522	1.514	1.514	2.30	
80)		Chrysene	1.401	1.347	1.344	1.310	1.316	1.333	1.351	2.50	
81)		bis(2-Ethylhexyl)ph	1.524	1.455	1.493	1.442	1.454	1.437	1.480	2.84	
82)	I	Perylene-d12				ISTD					
83)	C	Di-n-octylphthalate	2.585	2.267	2.439	2.217	2.114	2.109	2.352	8.47	
84)		Benzo(b)fluoranthen	1.500	1.588	1.315	1.587	1.553	1.504	1.491	6.15	
85)		Benzo(k)fluoranthen	1.281	0.755	0.972	0.582	1.160	1.209	0.993	27.88	Q — 200, 160
86)	C	Benzo(a)pyrene	1.281	1.159	1.203	1.085	1.116	1.090	1.179	6.61	
87)		Indeno(1,2,3-Cd)Pyr	1.290	1.293	1.300	1.043	0.936	1.324	1.213	12.88	— 200
88)		Dibenzo(a,h)Anthrac	1.098	1.056	1.109	0.851	0.782	1.133	1.021	13.99	— 200
89)		Benzo(g,h,i)perylen	1.119	1.125	1.125	0.816	1.131	1.143	1.076	11.89	— 200, 160

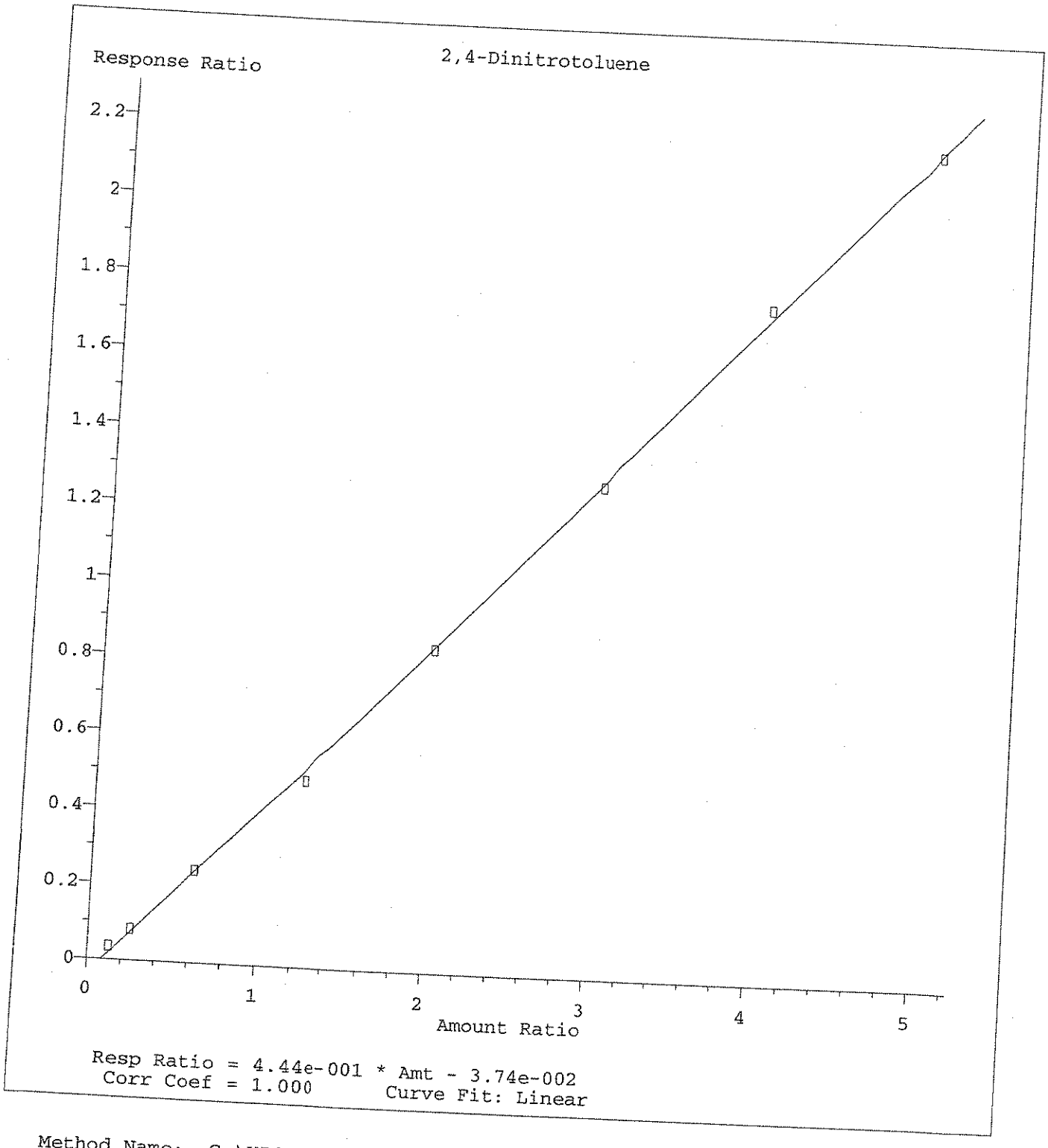
= Out of Range ### Number of calibration levels exceeded format ###
SV1NG.M Thu Jun 29 15:19:20 2006



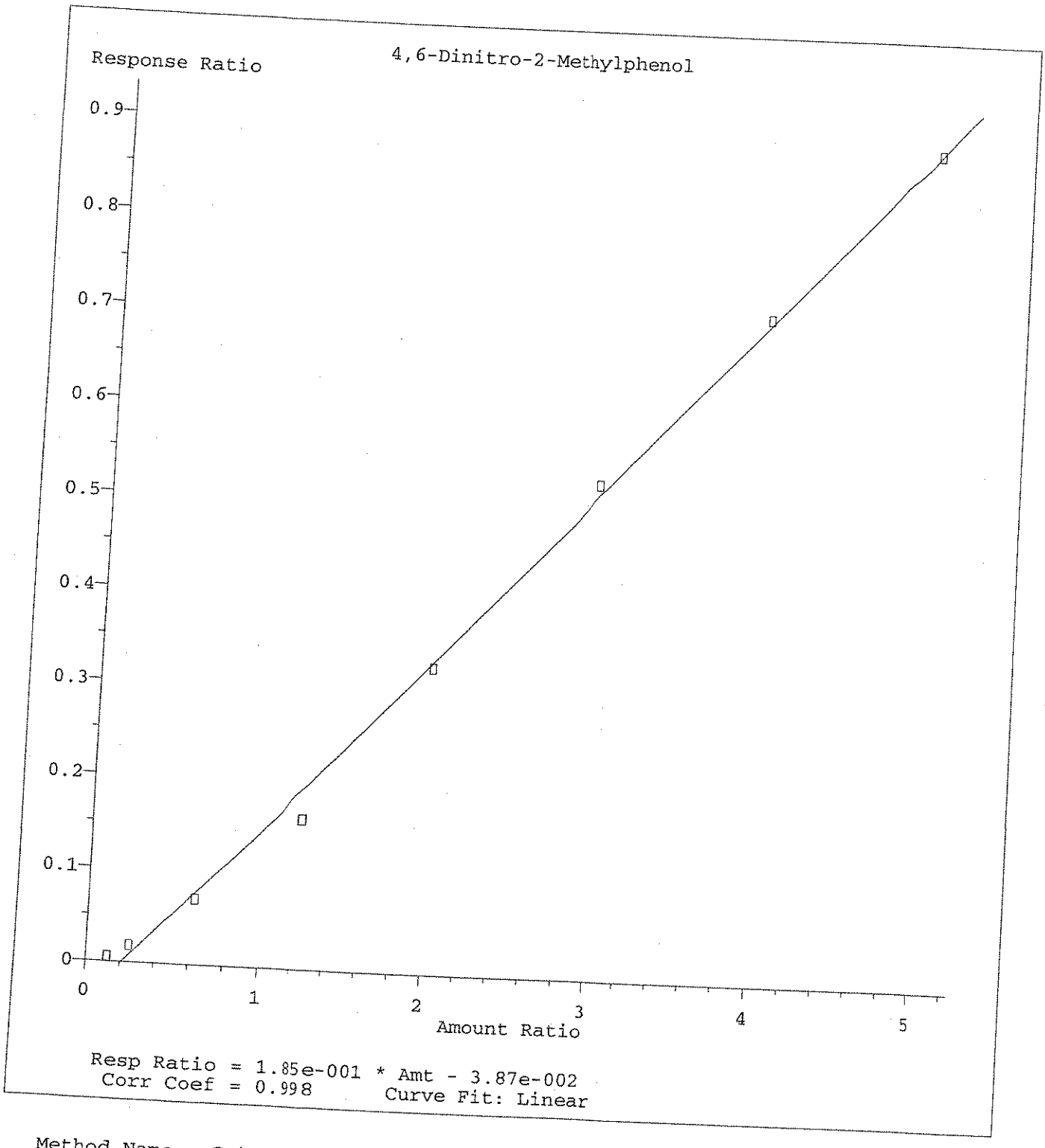
Method Name: C:\HPCHEM\1\METHODS\SV1NG.M
Calibration Table Last Updated: Thu Jun 29 15:16:49 2006



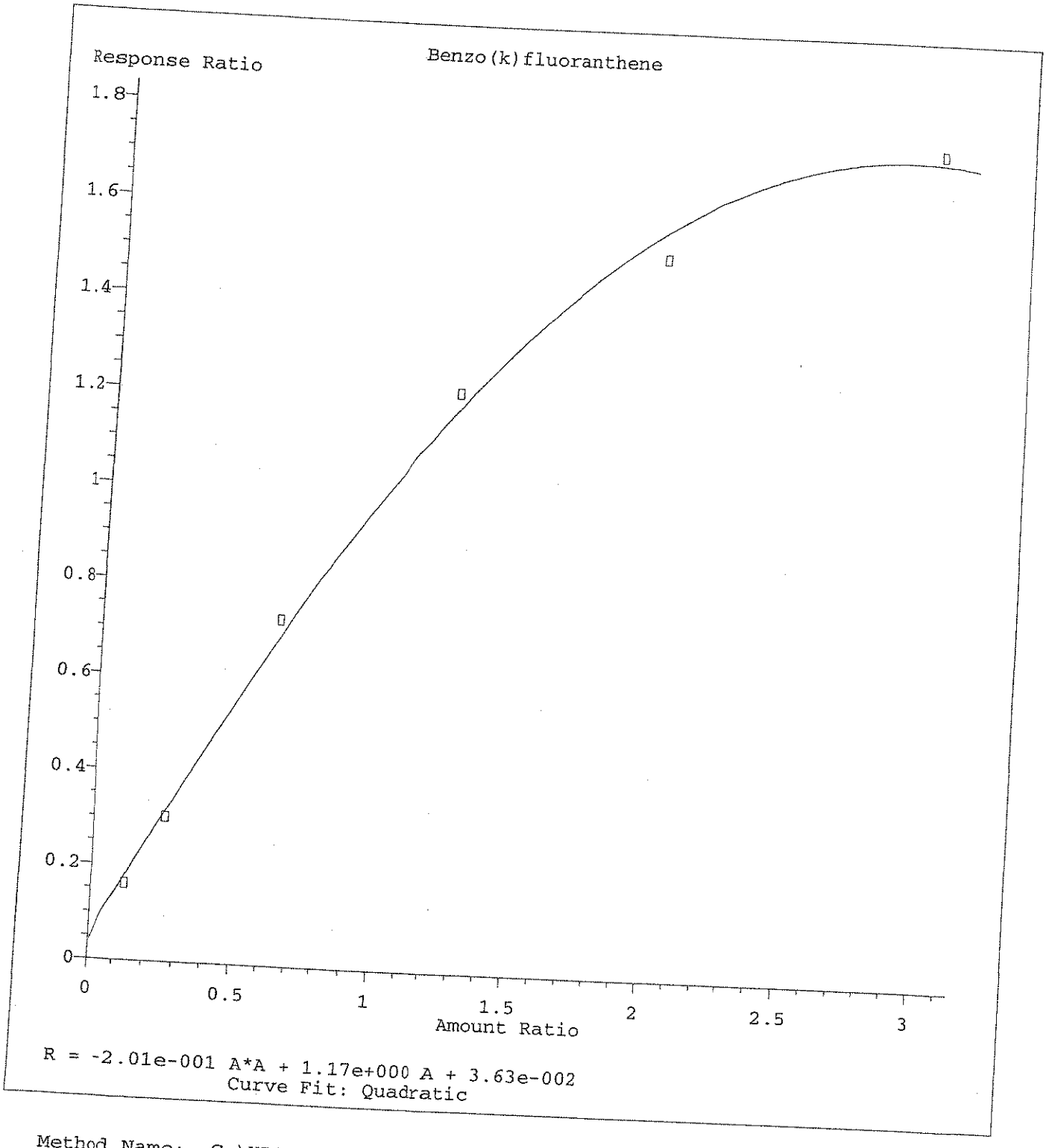
Method Name: C:\HPCHEM\1\METHODS\SV1NG.M
Calibration Table Last Updated: Thu Jun 29 15:16:49 2006



Method Name: C:\HPCHEM\1\METHODS\SV1NG.M
Calibration Table Last Updated: Thu Jun 29 15:16:49 2006



Method Name: C:\HPCHEM\1\METHODS\SV1NG.M
Calibration Table Last Updated: Thu Jun 29 15:16:49 2006



Method Name: C:\HPCHEM\1\METHODS\SV1NG.M
Calibration Table Last Updated: Thu Jun 29 15:16:49 2006

Quantitation Report

Data File : Q:\SVOA\MS1_MD\MD0606\MD062906\SV139352.D Vial: 10
Acq On : 29 Jun 106 3:15 pm Operator: VSC
Sample : BPF0206-SCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00
Quant Time: Jun 29 15:44 19106

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jun 29 15:16:49 2006
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.40	152	570445	40.00	ng/uL	0.00
22) Naphthalene-d8	5.87	136	2067643	40.00	ng/uL	0.00
38) Acenaphthene-d10	8.45	164	963348	40.00	ng/uL	0.00
59) Phenanthrene-d10	11.12	188	1393617	40.00	ng/uL	0.00
74) Chrysene-d12	16.34	240	1033595	40.00	ng/uL	0.00
82) Perylene-d12	18.99	264	1140746	40.00	ng/uL	0.01
System Monitoring Compounds						%Recovery
4) 2-Fluorophenol (SURR)	2.88	112	1069209	50.54	ng/uL	33.70%
6) Phenol-d5 (SURR)	4.08	99	1353046	51.76	ng/uL	34.50%
10) 2-Chlorophenol-d4(SURR)	4.21	132	1041920	50.70	ng/uL	33.80%
13) 1,2 Dichlorobenzene-d4(SUR	4.61	152	616008	51.57	ng/uL	51.57%
23) Nitrobenzene-d5 (SURR)	5.06	82	972311	51.61	ng/uL	51.61%
42) 2-Fluorobiphenyl (SURR)	7.38	172	1502513	50.10	ng/uL	50.10%
64) 2,4,6-Tribromophenol (SURR	9.86	330	183436	51.35	ng/uL	34.23%
76) Terphenyl-d14 (SURR)	14.31	244	1290185	48.83	ng/uL	48.83%
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	1.08	74	75102	47.63	ng/uL	98
3) Pyridine	1.08	79	124052	45.85	ng/ul	98
5) bis(2-Chloroethyl)ether	4.18	93	1203157	51.66	ng/uL	95
7) 2-Chlorophenol	4.22	128	1014892	48.94	ng/uL	93
8) Phenol	4.10	94	1545385	48.28	ng/uL	97
9) Aniline	4.11	93	1298096	39.26	ng/ul	99
11) 1,3-Dichlorobenzene	4.36	146	1068923	48.46	ng/uL	100
12) 1,4-Dichlorobenzene	4.42	146	1103333	49.41	ng/uL	99
14) 1,2-Dichlorobenzene	4.63	146	999095	50.24	ng/uL	99
15) Benzyl Alcohol	4.59	79	820061	49.12	ng/ul	96
16) bis(2-chloroisopropyl)Ethe	4.76	45	1461287	49.98	ng/uL	94
17) 2-Methylphenol	4.73	108	902460	47.98	ng/uL	98
18) Acetophenone	4.89	105	1306840	51.03	ng/ul	98
19) N-Nitroso-Di-n-Propylamine	4.93	70	681000	46.99	ng/uL	96
20) Hexachloroethane	4.97	117	417940	48.78	ng/uL	91
21) 3+4-Methylphenol	4.91	108	1859268	95.26	ng/uL	99
24) Nitrobenzene	5.08	77	923967	49.17	ng/uL	97
25) Isophorone	5.33	82	1782919	45.13	ng/uL	98
26) 2-Nitrophenol	5.43	139	561133	53.53	ng/uL	98
27) Benzoic Acid	5.67	105	705731	49.27	ng/uL	97
28) 2,4-Dimethylphenol	5.48	107	916770	52.19	ng/uL	98
29) bis(2-Chloroethoxy)methane	5.60	93	1316980	50.48	ng/uL	96
30) 2,4-Dichlorophenol	5.71	162	723353	51.24	ng/uL	100
31) 1,2,4-Trichlorobenzene	5.82	180	710870	50.43	ng/uL	99
32) Naphthalene	5.89	128	2505203	50.05	ng/uL	99
33) 4-Chloroaniline	5.98	127	940446	41.93	ng/uL	100
34) Hexachlorobutadiene	6.13	225	317688	50.78	ng/uL	99
35) 4-Chloro-3-Methylphenol	6.62	107	771291	49.06	ng/uL	99
36) 2-Methylnaphthalene	6.81	142	1646483	49.79	ng/uL	99
37) 1-Methylnaphthalene	6.96	142	47909	1.46	ng/ul	96
39) Hexachlorocyclopentadiene	7.14	237	251780	39.89	ng/uL	97
40) 2,4,6-Trichlorophenol	7.26	196	431292	47.45	ng/uL	99
41) 2,4,5-Trichlorophenol	7.32	196	469613	49.13	ng/uL	99
43) Biphenyl	7.51	154	1788075	50.48	ng/ul	98
44) 2-Chloronaphthalene	7.53	162	1343083	43.26	ng/uL	97
45) Dimethylphthalate	8.10	163	1567595	48.25	ng/uL	99
46) Acenaphthylene	8.20	152	2147496	45.06	ng/uL	99
47) 2,6-Dinitrotoluene	8.20	165	382776	52.29	ng/uL	96
48) 2-Nitroaniline	7.73	65	470952	50.64	ng/uL	96

(#) = qualifier out of range (m) = manual integration
SV139352.D SV1NG.M Thu Jun 29 15:44:43 2006

Quantitation Report

Data File : Q:\SVOA\MS1_MD\MD0606\MD062906\SV139352.D Vial: 10
Acq On : 29 Jun 106 3:15 pm Operator: VSC
Sample : BPF0206-SCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00
Quant Time: Jun 29 15:44 19106

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jun 29 15:16:49 2006
Response via : Multiple Level Calibration

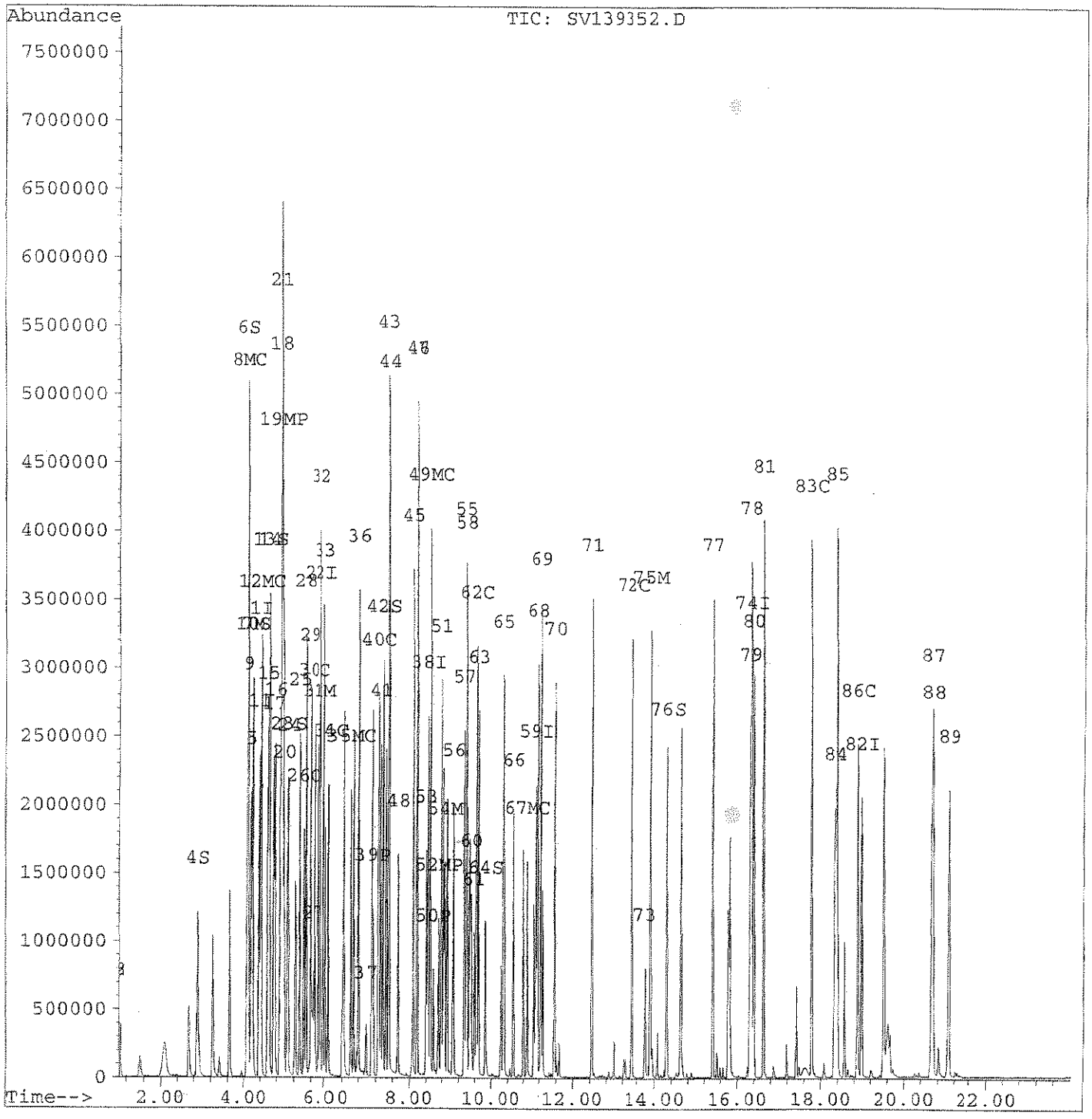
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) Acenaphthene	8.51	153	1409816	48.99	ng/uL	100
50) 2,4-Dinitrophenol	8.58	184	171711	52.91	ng/uL	92
51) Dibenzofuran	8.78	168	1868678	47.66	ng/uL	98
52) 4-Nitrophenol	8.72	65	321852	52.51	ng/uL	99
53) 3-Nitroaniline	8.42	65	546856	49.71	ng/uL	92
54) 2,4-Dinitrotoluene	8.86	165	488419	49.08	ng/uL	98
55) Fluorene	9.39	166	1475432	49.52	ng/uL	100
56) 2,3,4,6-Tetrachlorophenol	9.08	232	331803	49.15	ng/ul	99
57) Diethylphthalate	9.34	149	1657565	48.53	ng/uL	100
58) 4-Chloro-phenyl-phenyl eth	9.41	204	653928	49.74	ng/uL	96
60) 4-Nitroaniline	9.52	138	530177	50.34	ng/uL	97
61) 4,6-Dinitro-2-Methylphenol	9.60	198	272221	50.49	ng/uL	97
62) N-nitrosodiphenylamine	9.64	169	1245393	48.15	ng/uL	99
63) Azobenzene	9.69	77	1925803	48.44	ng/ul	95
65) 4-Bromophenyl-phenylether	10.29	248	346470	50.31	ng/uL	98
66) Hexachlorobenzene	10.55	284	376063	48.12	ng/uL	91
67) Pentachlorophenol	10.89	266	257726	57.88	ng/uLm	98
68) Phenanthrene	11.16	178	1952239	48.12	ng/uL	99
69) Anthracene	11.25	178	2047596	49.85	ng/uL	99
70) Carbazole	11.58	167	2073179	48.76	ng/uL	100
71) Di-n-butylphthalate	12.45	149	2913916	47.46	ng/uL	100
72) Fluoranthene	13.47	202	2085692	51.61	ng/uL	93
73) Benzidine	13.78	184	518806	25.60	ng/ul	97
75) Pyrene	13.91	202	2126853	47.91	ng/uL	98
77) Butylbenzylphthalate	15.40	149	1342868	47.13	ng/uL	97
78) 3,3'-Dichlorobenzidine	16.33	252	615052	45.75	ng/uL	97
79) Benzo(a)anthracene	16.30	228	1825156	46.64	ng/uL	99
80) Chrysene	16.39	228	1646550	47.16	ng/uL	99
81) bis(2-Ethylhexyl)phthalate	16.63	149	1836102	48.02	ng/uL	100
83) Di-n-octylphthalate	17.78	149	3360797	50.11	ng/uL	100
84) Benzo(b)fluoranthene	18.35	252	2006083	47.18	ng/uL	97
85) Benzo(k)fluoranthene	18.40	252	1361961	50.76	ng/uL	96
86) Benzo(a)pyrene	18.89	252	1551211	46.14	ng/uL	98
87) Indeno(1,2,3-Cd)Pyrene	20.66	276	1790859	51.77	ng/uL	99
88) Dibenzo(a,h)Anthracene	20.69	278	1523218	52.33	ng/uL	89
89) Benzo(g,h,i)perylene	21.06	276	1520385	49.52	ng/uL	96

(#) = qualifier out of range (m) = manual integration
SV139352.D SV1NG.M Thu Jun 29 15:44:45 2006

Quantitation Report

Data File : Q:\SVOA\MS1_MD\MD0606\MD062906\SV139352.D Vial: 10
Acq On : 29 Jun 106 3:15 pm Operator: VSC
Sample : BPF0206-SCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00
Quant Time: Jun 29 15:44 19106

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jun 29 15:16:49 2006
Response via : Multiple Level Calibration



Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS1_MD\MD0606\MD062906\SV139352.D Vial: 10
Acq On : 29 Jun 106 3:15 pm Operator: VSC
Sample : BPF0206-SCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jun 29 15:45:09 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	119	0.00
2		N-Nitrosodimethylamine	0.111	0.105	4.7	113	0.00
3		Pyridine	0.190	0.174	8.3	112	0.00
4	S	2-Fluorophenol (SURR)	1.483	1.499	-1.1	119	0.00
5		bis(2-Chloroethyl)ether	1.633	1.687	-3.3	119	0.00
6	S	Phenol-d5 (SURR)	1.833	1.898	-3.5	118	0.00
7	M	2-Chlorophenol	1.454	1.423	2.1	112	0.00
8	MC	Phenol	2.245	2.167	3.4	111	0.00
9		Aniline	2.318	1.820	21.5	92	0.00
10	S	2-Chlorophenol-d4(SURR)	1.441	1.461	-1.4	115	0.00
11		1,3-Dichlorobenzene	1.547	1.499	3.1	114	0.00
12	MC	1,4-Dichlorobenzene	1.566	1.547	1.2	116	0.00
13	S	1,2 Dichlorobenzene-d4(SURR	0.838	0.864	-3.1	117	0.00
14		1,2-Dichlorobenzene	1.394	1.401	-0.5	116	0.00
15		Benzyl Alcohol	1.171	1.150	1.8	112	0.00
16		bis(2-chloroisopropyl)Ether	2.050	2.049	0.0	116	0.00
17		2-Methylphenol	1.319	1.266	4.0	113	0.00
18		Acetophenone	1.796	1.833	-2.1	121	0.00
19	MP	N-Nitroso-Di-n-Propylamine	1.016	0.955	6.0	107	0.00
20		Hexachloroethane	0.601	0.586	2.4	111	0.00
21		3+4-Methylphenol	1.369	2.607	-90.5#	222#	0.02
22	I	Naphthalene-d8	1.000	1.000	0.0	115	0.00
23	S	Nitrobenzene-d5 (SURR)	0.364	0.376	-3.2	117	0.00
24		Nitrobenzene	0.364	0.357	1.7	114	0.00
25		Isophorone	0.764	0.690	9.7	107	0.00
26	C	2-Nitrophenol	0.203	0.217	-7.1	122	0.00
27		Benzoic Acid	0.244	0.273	-11.7	136	0.00
28		2,4-Dimethylphenol	0.340	0.355	-4.4	125	0.00
29		bis(2-Chloroethoxy)methane	0.505	0.510	-1.0	118	0.00
30	C	2,4-Dichlorophenol	0.273	0.280	-2.5	118	0.00
31	M	1,2,4-Trichlorobenzene	0.273	0.275	-0.9	117	0.00
32		Naphthalene	0.968	0.969	-0.1	114	0.00
33		4-Chloroaniline	0.434	0.364	16.1	92	0.00
34	C	Hexachlorobutadiene	0.121	0.123	-1.6	116	0.00
35	MC	4-Chloro-3-Methylphenol	0.304	0.298	1.9	114	0.00
36		2-Methylnaphthalene	0.640	0.637	0.4	113	0.00
37		1-Methylnaphthalene	0.635	0.019	97.1#	3#	0.00
38	I	Acenaphthene-d10	1.000	1.000	0.0	121	0.00
39	P	Hexachlorocyclopentadiene	0.262	0.209	20.2	111	0.00
40	C	2,4,6-Trichlorophenol	0.377	0.358	5.1	115	0.00
41		2,4,5-Trichlorophenol	0.397	0.390	1.7	116	0.00
42	S	2-Fluorobiphenyl (SURR)	1.245	1.248	-0.2	117	0.00
43		Biphenyl	1.471	1.485	-1.0	117	0.00
44		2-Chloronaphthalene	1.289	1.115	13.5	102	0.00
45		Dimethylphthalate	1.349	1.302	3.5	117	0.00
46		Acenaphthylene	1.979	1.783	9.9	108	0.00
47		2,6-Dinitrotoluene	0.304	0.318	-4.6	121	0.00
48		2-Nitroaniline	0.386	0.391	-1.3	126	0.00
49	MC	Acenaphthene	1.195	1.171	2.0	116	0.00
50	P	2,4-Dinitrophenol	0.159	0.143	10.1	161	0.00
51		Dibenzofuran	1.628	1.552	4.7	114	0.00
52	MP	4-Nitrophenol	0.254	0.267	-5.0	128	0.00
53		3-Nitroaniline	0.457	0.454	0.6	116	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS1_MD\MD0606\MD062906\SV139352.D Vial: 10
Acq On : 29 Jun 106 3:15 pm Operator: VSC
Sample : BPF0206-SCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jun 29 15:45:09 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	M	2,4-Dinitrotoluene	0.388	0.406	-4.5	126	0.00
55		Fluorene	1.237	1.225	1.0	114	0.00
56		2,3,4,6-Tetrachlorophenol	0.280	0.276	1.7	118	0.00
57		Diethylphthalate	1.418	1.377	2.9	115	0.00
58		4-Chloro-phenyl-phenyl ethe	0.546	0.543	0.5	116	0.00
59	I	Phenanthrene-d10	1.000	1.000	0.0	121	0.00
60		4-Nitroaniline	0.302	0.304	-0.7	118	0.01
61		4,6-Dinitro-2-Methylphenol	0.131	0.156	-19.6	148	0.01
62	C	N-nitrosodiphenylamine	0.742	0.715	3.7	112	0.01
63		Azobenzene	1.141	1.105	3.1	121	0.01
64	S	2,4,6-Tribromophenol (SURR)	0.103	0.105	-2.7	122	0.01
65		4-Bromophenyl-phenylether	0.198	0.199	-0.6	121	0.00
66		Hexachlorobenzene	0.224	0.216	3.8	118	0.00
67	MC	Pentachlorophenol	0.128	0.148	-15.8	142	0.00
68		Phenanthrene	1.165	1.121	3.8	114	0.00
69		Anthracene	1.179	1.175	0.3	117	0.00
70		Carbazole	1.220	1.190	2.5	117	0.00
71		Di-n-butylphthalate	1.762	1.673	5.1	115	0.00
72	C	Fluoranthene	1.160	1.197	-3.2	125	0.00
73		Benzidine	0.582	0.298	48.8#	65	0.00
74	I	Chrysene-d12	1.000	1.000	0.0	124	0.00
75	M	Pyrene	1.718	1.646	4.2	120	0.00
76	S	Terphenyl-d14 (SURR)	1.023	0.999	2.3	121	0.01
77		Butylbenzylphthalate	1.103	1.039	5.7	115	0.00
78		3,3'-Dichlorobenzidine	0.520	0.476	8.5	110	0.00
79		Benzo(a)anthracene	1.514	1.413	6.7	118	0.00
80		Chrysene	1.351	1.274	5.7	117	0.00
81		bis(2-Ethylhexyl)phthalate	1.480	1.421	4.0	118	0.00
82	I	Perylene-d12	1.000	1.000	0.0	124	0.01
83	C	Di-n-octylphthalate	2.352	2.357	-0.2	119	0.00
84		Benzo(b)fluoranthene	1.491	1.407	5.6	132	0.02
85		Benzo(k)fluoranthene	0.993	0.955	3.8	121	0.02
86	C	Benzo(a)pyrene	1.179	1.088	7.7	112	0.01
87		Indeno(1,2,3-Cd)Pyrene	1.213	1.256	-3.5	119	0.00
88		Dibenzo(a,h)Anthracene	1.021	1.068	-4.7	119	0.02
89		Benzo(g,h,i)perylene	1.076	1.066	1.0	117	0.00

ANALYSIS SEQUENCE

BPG0003

Instrument: SVOA-MS1

Calibnration ID: ~~UNASSIGNED~~ SVING

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0003-TUN1	QC		1		6F13071		
BPG0003-CCV1	QC		2		6F16053	6F16045	
BG60520-BLK1	QC		3			6F16045	
BG60520-BS1	QC		4			6F16045	
0606374-01	SVOC: 8270/3541 ppb PAH	B	5			6F16045	MACTEC Engineering & Consulting, In
0606374-02	SVOC: 8270/3541 ppb PAH	B	6			6F16045	MACTEC Engineering & Consulting, In
0606374-03	SVOC: 8270/3541 ppb PAH	B	7			6F16045	MACTEC Engineering & Consulting, In
0606374-04	SVOC: 8270/3541 ppb PAH	B	8			6F16045	MACTEC Engineering & Consulting, In
0606374-05	SVOC: 8270/3541 ppb PAH	B	9			6F16045	MACTEC Engineering & Consulting, In
0606374-07	SVOC: 8270/3541 ppb PAH	B	10			6F16045	MACTEC Engineering & Consulting, In
0606374-06	SVOC: 8270/3541 ppb PAH	B	11			6F16045	MACTEC Engineering & Consulting, In
0606373-17	SVOC: 8270/3541 ppb PAH	B	12			6F16045	MACTEC Engineering & Consulting, In
0606373-18	SVOC: 8270/3541 ppb PAH	B	13			6F16045	MACTEC Engineering & Consulting, In
0606373-19	SVOC: 8270/3541 ppb PAH	B	14			6F16045	MACTEC Engineering & Consulting, In
0606373-20	SVOC: 8270/3541 ppb PAH	B	15			6F16045	MACTEC Engineering & Consulting, In
0606373-21	SVOC: 8270/3541 ppb PAH	A	16			6F16045	MACTEC Engineering & Consulting, In
0606503-05	SVOC: 8270 ppb PAH	A	17			6F16045	Vanasse Hangen Brustlin, Inc.
0606503-07	SVOC: 8270 ppb PAH	A	18			6F16045	Vanasse Hangen Brustlin, Inc.

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GCMS1 RUN LOG

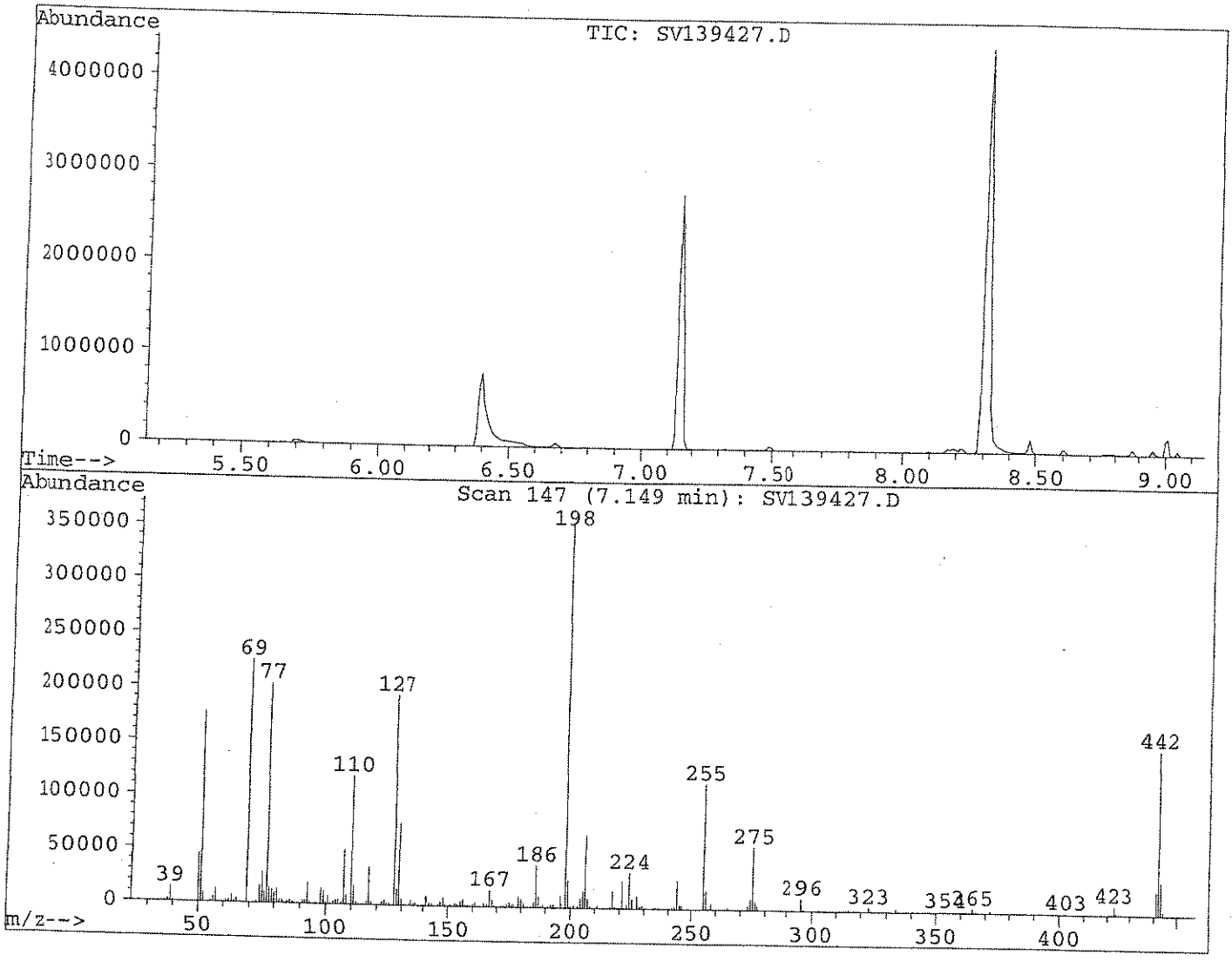
COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
7/1/06		SV1 44	060650302		6F16045	
		SV1 45	060637604		Lot	
		SV1 46	060650307		✓	
7/1/06		SV1 47	-05			
7/2/06	1	SV1 26 48	BPG0003-TUNI	DFTPP	✓	JLS
	1	SV1 27	BPG0003-TUNI	DFTPP	BPG0006-TUNI (Ok) 6F26111	
	2	SV1 28	BPG0003-CCV1	SVING7	✓ ccv1 ↓ 6F27064	
	3	SV1 29	BF6717-BLK1		✓ 6F26697	
	4	SV1 30	-BS1		✓	
	5	SV1 31	-BSD1		RR BAD INJECTION	
	6	SV1 32	060637401		~~RR 5X~~ ✓	
	7	SV1 33	-02		✓	
	8	SV1 34	-03		~~RR 5X~~ ✓	
	9	SV1 35	-04		✓	
	10	SV1 36	-05		✓	
	11	SV1 37	-06		✓	
	12	SV1 38	060637407		~~RR5X~~ ✓	
	13	SV1 39	060637317 JLS 7/2/06		✓	
	14	SV1 40	-18		✓ ~~RR5X~~ ✓	
	15	SV1 41	-19		✓ JLS 7/3/06	
	16	SV1 42	-20		✓	
	17	SV1 43	060637321		✓	
	18	SV1 44	060650302		✓ X10 RR 20X	
	19	SV1 45	-02		✓ X20	
	20	SV1 46	060637604		10X	
	21	SV1 47	060650307		✓ RR10X	
7/2/06	22	SV1 48	-05	SVING7	✓	JLS
7/3/06	1	SV1 49	BPG0030 (SOIL) - TUNI	DFTPP	6F26111 BPG0031 (Ok)	JLS
7/3/06	5 2.5ml	SV1 50	BPG0030 - Cal4	EPHRIAK	✓ 6F30015	JLS
7/3/06	32	SV1 51	BPG0030 - Cal1	EPHRIAK	✓ 6F30002	JLS

DFTPP

Data File : Q:\SVOA\MS1_MD\MD0706\MD070206\SV139427.D Vial: 1
Acq On : 2 Jul 106 2:41 pm Operator: VSC
Sample : BPG0003-TUN1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)



Peak Apex is scan: 147

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.7	176192	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	63.4	224896	PASS
70	69	0	2	0.0	0	PASS
127	198	40	60	54.8	194304	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	354624	PASS
199	198	5	9	7.0	24904	PASS
275	198	10	30	16.3	57928	PASS
365	198	1	100	1.1	3959	PASS
441	443	0	100	71.7	21664	PASS
442	198	40	100	43.0	152640	PASS
443	442	17	23	19.8	30224	PASS

Data File : Q:\SVOA\MS1_MD\MD0706\MD070206\SV139428.D Vial: 2
Acq On : 2 Jul 106 3:31 pm Operator: VSC
Sample : BPG0003-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Sun Jul 02 16:00:24 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00
2		N-Nitrosodimethylamine	0.111	0.075	31.8#	75	0.00
3		Pyridine	0.190	0.142	25.3	85	0.00
4	S	2-Fluorophenol (SURR)	1.483	1.556	-4.9	116	0.00
5		bis(2-Chloroethyl)ether	1.633	1.755	-7.5	116	0.00
6	S	Phenol-d5 (SURR)	1.833	1.970	-7.5	114	0.00
7	M	2-Chlorophenol	1.454	1.568	-7.8	116	0.00
8	MC	Phenol	2.245	2.448	-9.1	116	0.00
9		Aniline	2.318	2.543	-9.7	119	0.00
10	S	2-Chlorophenol-d4(SURR)	1.441	1.549	-7.5	114	0.00
11		1,3-Dichlorobenzene	1.547	1.618	-4.6	115	0.00
12	MC	1,4-Dichlorobenzene	1.566	1.645	-5.0	115	0.00
13	S	1,2 Dichlorobenzene-d4(SURR	0.838	0.866	-3.4	110	0.00
14		1,2-Dichlorobenzene	1.394	1.442	-3.4	111	0.00
15		Benzyl Alcohol	1.171	1.174	-0.3	107	0.00
16		bis(2-chloroisopropyl)Ether	2.050	2.159	-5.3	114	0.00
17		2-Methylphenol	1.319	1.376	-4.3	114	0.00
18		Acetophenone	1.796	1.885	-5.0	116	0.00
19	MP	N-Nitroso-Di-n-Propylamine	1.016	1.021	-0.5	107	0.00
20		Hexachloroethane	0.601	0.631	-5.1	111	0.00
21		3+4-Methylphenol	1.369	1.352	1.2	107	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	110	0.00
23	S	Nitrobenzene-d5 (SURR)	0.364	0.417	-14.4	125	0.00
24		Nitrobenzene	0.364	0.396	-9.0	121	0.00
25		Isophorone	0.764	0.789	-3.3	117	0.00
26	C	2-Nitrophenol	0.203	0.239	-17.9	130	0.00
27		Benzoic Acid	0.244	0.260	-6.4	124	0.00
28		2,4-Dimethylphenol	0.340	0.371	-9.2	126	0.00
29		bis(2-Chloroethoxy)methane	0.505	0.521	-3.3	116	0.00
30	C	2,4-Dichlorophenol	0.273	0.289	-5.8	117	0.00
31	M	1,2,4-Trichlorobenzene	0.273	0.278	-2.1	113	0.00
32		Naphthalene	0.968	0.991	-2.4	112	0.00
33		4-Chloroaniline	0.434	0.459	-5.9	112	0.00
34	C	Hexachlorobutadiene	0.121	0.125	-3.3	113	0.00
35	MC	4-Chloro-3-Methylphenol	0.304	0.327	-7.6	120	0.00
36		2-Methylnaphthalene	0.640	0.669	-4.6	114	0.00
37		1-Methylnaphthalene	0.635	0.660	-3.9	114	0.00
38	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00
39	P	Hexachlorocyclopentadiene	0.262	0.279	-6.3	138	0.00
40	C	2,4,6-Trichlorophenol	0.377	0.398	-5.5	120	0.00
41		2,4,5-Trichlorophenol	0.397	0.426	-7.3	119	0.00
42	S	2-Fluorobiphenyl (SURR)	1.245	1.280	-2.8	113	0.00
43		Biphenyl	1.471	1.422	3.3	105	0.00
44		2-Chloronaphthalene	1.289	1.230	4.6	106	0.00
45		Dimethylphthalate	1.349	1.391	-3.1	117	0.00
46		Acenaphthylene	1.979	2.084	-5.3	119	0.00
47		2,6-Dinitrotoluene	0.304	0.360	-18.4	129	0.00
48		2-Nitroaniline	0.386	0.434	-12.5	131	0.00
49	MC	Acenaphthene	1.195	1.216	-1.8	113	0.00
50	P	2,4-Dinitrophenol	0.159	0.136	14.4	144	0.00
51		Dibenzofuran	1.628	1.665	-2.2	115	0.00
52	MP	4-Nitrophenol	0.254	0.283	-11.2	127	0.00
53		3-Nitroaniline	0.457	0.483	-5.8	116	0.00

) = Out of Range

Data File : Q:\SVOA\MS1_MD\MD0706\MD070206\SV139428.D Vial: 2
Acq On : 2 Jul 106 3:31 pm Operator: VSC
Sample : BPG0003-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Sun Jul 02 16:00:24 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	M	2,4-Dinitrotoluene	0.388	0.471	-21.4	137	0.00
55		Fluorene	1.237	1.278	-3.3	111	0.00
56		2,3,4,6-Tetrachlorophenol	0.280	0.294	-4.9	119	0.00
57		Diethylphthalate	1.418	1.420	-0.1	112	0.00
58		4-Chloro-phenyl-phenyl ethe	0.546	0.600	-9.9	120	0.00
59	I	Phenanthrene-d10	1.000	1.000	0.0	114	0.00
60		4-Nitroaniline	0.302	0.348	-15.1	127	0.00
61		4,6-Dinitro-2-Methylphenol	0.131	0.170	-30.3#	151	0.00
62	C	N-nitrosodiphenylamine	0.742	0.780	-5.0	115	0.00
63		Azobenzene	1.141	1.260	-10.4	129	0.00
64	S	2,4,6-Tribromophenol (SURR)	0.103	0.114	-11.1	124	0.00
65		4-Bromophenyl-phenylether	0.198	0.204	-3.4	116	0.00
66		Hexachlorobenzene	0.224	0.231	-3.1	119	0.00
67	MC	Pentachlorophenol	0.128	0.104	18.5	94	0.00
68		Phenanthrene	1.165	1.206	-3.5	115	0.00
69		Anthracene	1.179	1.229	-4.2	115	0.00
70		Carbazole	1.220	1.252	-2.6	116	0.00
71		Di-n-butylphthalate	1.762	1.784	-1.2	115	0.00
72	C	Fluoranthene	1.160	1.201	-3.5	118	0.00
73		Benzidine	0.582	0.686	-18.0	140	0.00
74	I	Chrysene-d12	1.000	1.000	0.0	128	0.00
75	M	Pyrene	1.718	1.562	9.1	118	0.00
76	S	Terphenyl-d14 (SURR)	1.023	0.938	8.2	118	0.00
77		Butylbenzylphthalate	1.103	1.002	9.2	115	0.00
78		3,3'-Dichlorobenzidine	0.520	0.487	6.4	117	0.00
79		Benzo(a)anthracene	1.514	1.380	8.9	120	0.00
80		Chrysene	1.351	1.217	9.9	116	0.00
81		bis(2-Ethylhexyl)phthalate	1.480	1.369	7.5	118	0.00
82	I	Perylene-d12	1.000	1.000	0.0	122	0.00
83	C	Di-n-octylphthalate	2.352	2.297	2.3	115	0.00
84		Benzo(b)fluoranthene	1.491	1.548	-3.8	143	0.00
85		Benzo(k)fluoranthene	0.993	0.909	8.5	114	0.00
86	C	Benzo(a)pyrene	1.179	1.174	0.4	119	0.00
87		Indeno(1,2,3-Cd)Pyrene	1.213	1.281	-5.6	120	0.00
88		Dibenzo(a,h)Anthracene	1.021	1.065	-4.4	117	0.00
89		Benzo(g,h,i)perylene	1.076	1.068	0.8	116	0.00

) = Out of Range SPCC's out = 0 CCC's out = 0
L39428.D SV1NG.M Sun Jul 02 16:00:52 2006

Data File : Q:\SVOA\MS1_MD\MD0706\MD070206\SV139428.D Vial: 2
Acq On : 2 Jul 106 3:31 pm Operator: VSC
Sample : BPG0003-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00
Quant Time: Jul 2 15:57 19106

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Sun Jul 02 15:56:01 2006
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.79	152	531670	40.00	ng/uL	0.00
22) Naphthalene-d8	5.14	136	1987137	40.00	ng/uL	0.00
38) Acenaphthene-d10	7.54	164	904471	40.00	ng/uL	0.00
59) Phenanthrene-d10	10.10	188	1308121	40.00	ng/uL	0.00
74) Chrysene-d12	15.24	240	1072660	40.00	ng/uL	0.00
82) Perylene-d12	17.86	264	1124961	40.00	ng/uL	-1.12
System Monitoring Compounds						%Recovery
4) 2-Fluorophenol (SURR)	1.91	112	1034161	52.45	ng/uL	34.97%
6) Phenol-d5 (SURR)	3.49	99	1309553	53.74	ng/uL	35.83%
10) 2-Chlorophenol-d4(SURR)	3.58	132	1029121	53.73	ng/uL	35.82%
13) 1,2 Dichlorobenzene-d4(SUR	3.99	152	575781	51.71	ng/uL	51.71%
23) Nitrobenzene-d5 (SURR)	4.40	82	1036081	57.22	ng/uL	57.22%
42) 2-Fluorobiphenyl (SURR)	6.54	172	1446709	51.38	ng/uL	51.38%
64) 2,4,6-Tribromophenol (SURR	8.89	330	186294	55.56	ng/uL	37.04%
76) Terphenyl-d14 (SURR)	13.26	244	1258009	45.88	ng/uL	45.88%
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.80	74	50089	34.08	ng/uLm	0
3) Pyridine	0.80	79	94125	37.33	ng/ulm	0
5) bis(2-Chloroethyl)ether	3.57	93	1166436	53.73	ng/uL	98
7) 2-Chlorophenol	3.60	128	1042167	53.92	ng/uL	93
8) Phenol	3.51	94	1627183	54.54	ng/uL	82
9) Aniline	3.48	93	1689933	54.84	ng/ul	99
11) 1,3-Dichlorobenzene	3.75	146	1075099	52.29	ng/uL	99
12) 1,4-Dichlorobenzene	3.81	146	1093187	52.52	ng/uL	100
14) 1,2-Dichlorobenzene	4.00	146	958563	51.72	ng/uL	99
15) Benzyl Alcohol	3.99	79	780497	50.16	ng/ul	93
16) bis(2-chloroisopropyl)Ethe	4.15	45	1434956	52.66	ng/uL	96
17) 2-Methylphenol	4.14	108	914546	52.17	ng/uL	99
18) Acetophenone	4.25	105	1252647	52.48	ng/ul	98
19) N-Nitroso-Di-n-Propylamine	4.30	70	678848	50.26	ng/uL	98
20) Hexachloroethane	4.31	117	419567	52.54	ng/uL	100
21) 3+4-Methylphenol	4.30	108	898492	49.39	ng/uL	98
24) Nitrobenzene	4.42	77	984436	54.51	ng/uL	93
25) Isophorone	4.67	82	1960880	51.65	ng/uL	98
26) 2-Nitrophenol	4.75	139	593939	58.95	ng/uL	98
27) Benzoic Acid	5.02	105	645797	47.27	ng/uL	99
28) 2,4-Dimethylphenol	4.83	107	921539	54.58	ng/uL	98
29) bis(2-Chloroethoxy)methane	4.92	93	1295225	51.66	ng/uL	98
30) 2,4-Dichlorophenol	5.01	162	717540	52.88	ng/uL	97
31) 1,2,4-Trichlorobenzene	5.10	180	691494	51.05	ng/uL	100
32) Naphthalene	5.16	128	2462744	51.19	ng/uL	99
33) 4-Chloroaniline	5.25	127	1141077	52.93	ng/uL	99
34) Hexachlorobutadiene	5.37	225	310651	51.67	ng/uL	99
35) 4-Chloro-3-Methylphenol	5.87	107	812746	53.79	ng/uL	98
36) 2-Methylnaphthalene	5.99	142	1662218	52.30	ng/uL	100
37) 1-Methylnaphthalene	6.14	142	1638657	51.97	ng/ul	100
39) Hexachlorocyclopentadiene	6.31	237	315068	53.16	ng/uL	97
40) 2,4,6-Trichlorophenol	6.43	196	450355	52.77	ng/uL	99
41) 2,4,5-Trichlorophenol	6.50	196	481343	53.64	ng/uL	99
43) Biphenyl	6.67	154	1607596	48.34	ng/ul	99
44) 2-Chloronaphthalene	6.67	162	1390285	47.70	ng/uL	97
45) Dimethylphthalate	7.23	163	1572390	51.55	ng/uL	99
46) Acenaphthylene	7.29	152	2356218	52.65	ng/uL	99
47) 2,6-Dinitrotoluene	7.32	165	406936	59.21	ng/uL	92
48) 2-Nitroaniline	6.87	65	491154	56.25	ng/uL	99

(#) = qualifier out of range (m) = manual integration

Data File : Q:\SVOA\MS1_MD\MD0706\MD070206\SV139428.D Vial: 2
Acq On : 2 Jul 106 3:31 pm Operator: VSC
Sample : BPG0003-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00
Quant Time: Jul 2 15:57 19106

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Sun Jul 02 15:56:01 2006
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) Acenaphthene	7.59	153	1374878	50.88	ng/uL	100
50) 2,4-Dinitrophenol	7.69	184	153478	51.45	ng/uL	98
51) Dibenzofuran	7.85	168	1881903	51.12	ng/uL	77
52) 4-Nitrophenol	7.86	65	320039	55.62	ng/uL	91
53) 3-Nitroaniline	7.53	65	546188	52.88	ng/uL	96
54) 2,4-Dinitrotoluene	7.95	165	532789	56.48	ng/uL	99
55) Fluorene	8.43	166	1444851	51.65	ng/uL	100
56) 2,3,4,6-Tetrachlorophenol	8.15	232	332383	52.44	ng/ul	97
57) Diethylphthalate	8.42	149	1605239	50.06	ng/uL	99
58) 4-Chloro-phenyl-phenyl eth	8.47	204	678272	54.95	ng/uL	99
60) 4-Nitroaniline	8.58	138	569196	57.57	ng/uL	92
61) 4,6-Dinitro-2-Methylphenol	8.65	198	278359	54.26	ng/uL	82
62) N-nitrosodiphenylamine	8.70	169	1275105	52.52	ng/uL	99
63) Azobenzene	8.74	77	2060835	55.22	ng/ul	100
65) 4-Bromophenyl-phenylether	9.32	248	334188	51.70	ng/uL	96
66) Hexachlorobenzene	9.56	284	378052	51.54	ng/uL	97
67) Pentachlorophenol	9.91	266	170346	40.75	ng/uL	98
68) Phenanthrene	10.15	178	1971349	51.76	ng/uL	99
69) Anthracene	10.23	178	2009505	52.12	ng/uL	100
70) Carbazole	10.57	167	2046712	51.28	ng/uL	100
71) Di-n-butylphthalate	11.48	149	2917430	50.62	ng/uL	100
72) Fluoranthene	12.41	202	1963601	51.77	ng/uL	91
73) Benzidine	12.76	184	1122007	58.98	ng/ul	96
75) Pyrene	12.83	202	2094362	45.46	ng/uL	97
77) Butylbenzylphthalate	14.38	149	1343271	45.42	ng/uLm	48
78) 3,3'-Dichlorobenzidine	15.27	252	652926	46.80	ng/uLm	0
79) Benzo(a)anthracene	15.20	228	1849826	45.55	ng/uLm	53
80) Chrysene	15.29	228	1631802	45.03	ng/uLm	51
81) bis(2-Ethylhexyl)phthalate	15.62	149	1835586	46.26	ng/uLm	49
83) Di-n-octylphthalate	16.78	149	3230317	48.84	ng/uLm	73
84) Benzo(b)fluoranthene	17.23	252	2176775	51.91	ng/uLm	53
85) Benzo(k)fluoranthene	17.27	252	1278104	47.33	ng/uLm	48
86) Benzo(a)pyrene	17.76	252	1650586	49.79	ng/uLm	1
87) Indeno(1,2,3-Cd)Pyrene	19.51	276	1801620	52.81	ng/uLm	0
88) Dibenzo(a,h)Anthracene	19.55	278	1497789	52.18	ng/uLm	0
89) Benzo(g,h,i)perylene	19.87	276	1502209	49.62	ng/uLm	0

(#) = qualifier out of range (m) = manual integration
SV139428.D SV1NG.M Sun Jul 02 15:58:11 2006

ANALYSIS SEQUENCE

BPG0020

Instrument: SV0AMS1

Calibnration ID: ~~UNASSIGNED~~ SVING

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0020-TUN1	QC		1		6F26111		
BPG0020-CCV1	QC		2		6F27064	6F16045	
0606374-08	SVOC: 8270/3541 ppb PAH	B	3			6F16045	MACTEC Engineering & Consulting, In
0606374-09	SVOC: 8270/3541 ppb PAH	B	4			6F16045	MACTEC Engineering & Consulting, In
0606374-10	SVOC: 8270/3541 ppb PAH	B	5			6F16045	MACTEC Engineering & Consulting, In
0606374-11	SVOC: 8270/3541 ppb PAH	B	6			6F16045	MACTEC Engineering & Consulting, In
0606374-12	SVOC: 8270/3541 ppb PAH	B	7			6F16045	MACTEC Engineering & Consulting, In
0606374-13	SVOC: 8270/3541 ppb PAH	B	8			6F16045	MACTEC Engineering & Consulting, In
0606374-14	SVOC: 8270/3541 ppb PAH	B	9			6F16045	MACTEC Engineering & Consulting, In
0606374-16	SVOC: 8270/3541 ppb PAH	B	10			6F16045	MACTEC Engineering & Consulting, In
0606374-15	SVOC: 8270/3541 ppb PAH	B	11			6F16045	MACTEC Engineering & Consulting, In
0606383-01	SVOC: 8270/3541 ppb PAH	A	12			6F16045	MACTEC Engineering & Consulting, In
0606383-02	SVOC: 8270/3541 ppb PAH	A	13			6F16045	MACTEC Engineering & Consulting, In
BG60520-MS1	QC		14			6F16045	
BG60520-MSD1	QC		15			6F16045	
BF62824-BLK1	QC		16			6F16045	
BF62824-BS1	QC		17			6F16045	
BF62824-BSD1	QC		18			6F16045	
0606383-09	SVOC: 8270/3541 ppb PAH	A	19			6F16045	MACTEC Engineering & Consulting, In
0606383-10	SVOC: 8270/3541 ppb PAH	A	20			6F16045	MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GCMS1 RUN LOG

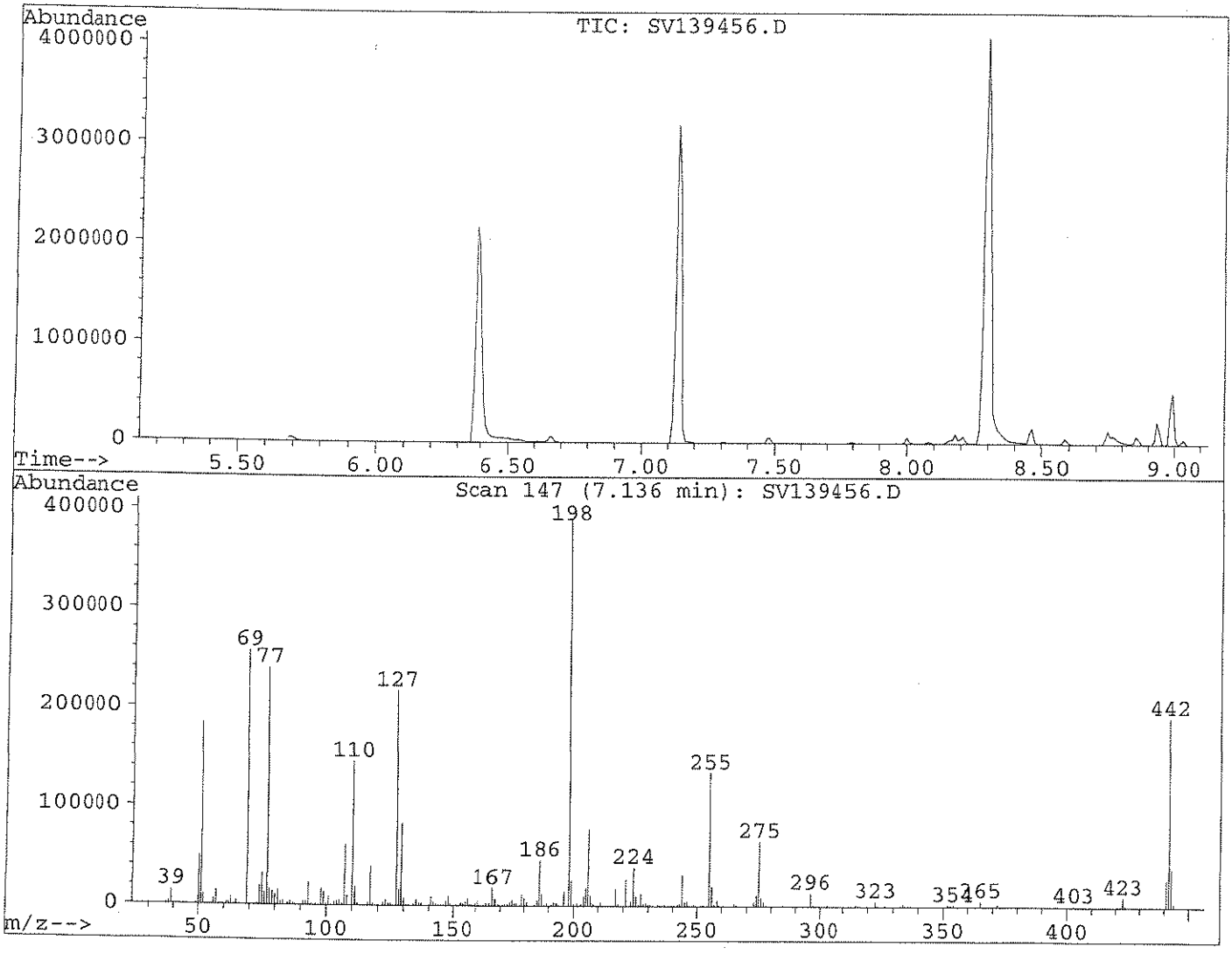
COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
7/3/06	3 4a	SV1 52	BPG0030 -Cal2	EPH R1AK	✓6F30003 JCS 7/5/06	JCS
	4 lon	SV1 53	-Cal3		✓ 4	
	6 7	SV1 54	-Cal5		✓ 6	
7/3/06	7	SV1 55	BPG0030 -SCV1	EPHR1AK	✓6F30007 JCS 7/5/06	JCS
	1	SV1 56	BPG0020 - TUN1		✓ 6F13 6F26111	JCS
	2	SV1 57	BPG0020 CCV1	SVING	✓ 6F27064	
	3	SV1 58	0606374-08		✓ 6F26097	
	4	SV1 59	0606383-11MSD1 ✓			
	5	SV1 60	-11MS1 ✓			
	6	SV1 61	BF62824-BS1			
	7	SV1 62	-BSD1			
	8	SV1 63	-BLK1			
	9	SV1 64	0606374-16		✓	
	10	SV1 65	-14		✓	
	11	SV1 66	-13		✓	
	12	SV1 67	-12		✓	
	13	SV1 68	-09		✓	
	14	SV1 69	-15		✓	
	15	SV1 70	-11		✓	
	16	SV1 71	0606374 -10		✓	
	17	SV1 72	0606383 -02 ✓			
	18	SV1 73	-01 ✓			
	19	SV1 74	-09 ✓			
7/3/06	20	SV1 75	0606383 -10 ✓	SVING	✓	JCS
7/4/06	100	SV1 76	Solvent	SVING		JCS
	1	SV1 77	BPG0021-TUN1	DFTPP	✓ 6F26111 2:14pm	
	2	SV1 78	BPG0021-CCV1	SVING	✓ 6F27064	
	3	SV1 79	BG60107-BLK1		✓ 6F26097	
	4	SV1 80	-BS1		✓	
7/4/06	5	SV1 81	-BSD1	SVING	✓ 6F26097	JCS

DFTPP CLP

Data File : Q:\SVOA\MS1_MD\MD0706\MD070306\SV139456.D Vial: 1
Acq On : 3 Jul 106 12:40 pm Operator: JLS
Sample : BPG0020-TUN1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\DFTPP.M
Title : daily instrument eval mix



Peak Apex is scan: 147

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.2	184064	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	65.9	256832	PASS
70	69	0	2	0.0	0	PASS
127	198	40	60	55.7	217152	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	389888	PASS
199	198	5	9	6.6	25736	PASS
275	198	10	30	16.7	65288	PASS
365	198	1	100	1.4	5626	PASS
441	443	0	100	71.3	27480	PASS
442	198	40	110	49.0	191168	PASS
443	442	17	23	20.2	38528	PASS

Evaluate Continuing Calibration Report

Data File : Q:\SV0A\MS1_MD\MD0706\MD070306\SV139457.D Vial: 2
Acq On : 3 Jul 106 1:00 pm Operator: JLS
Sample : BPG0020-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jul 06 10:24:31 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	0.05
2		N-Nitrosodimethylamine	0.111	0.083	24.9	85	0.02
3		Pyridine	0.190	0.146	23.1	90	0.02
4	S	2-Fluorophenol (SURR)	1.483	1.571	-5.9	120	0.09
5		bis(2-Chloroethyl)ether	1.633	1.788	-9.5	121	0.05
6	S	Phenol-d5 (SURR)	1.833	1.927	-5.1	114	0.05
7	M	2-Chlorophenol	1.454	1.541	-5.9	116	0.05
8	MC	Phenol	2.245	2.463	-9.7	120	0.04
9		Aniline	2.318	2.469	-6.5	119	0.05
10	S	2-Chlorophenol-d4(SURR)	1.441	1.517	-5.2	114	0.05
11		1,3-Dichlorobenzene	1.547	1.658	-7.2	120	0.05
12	MC	1,4-Dichlorobenzene	1.566	1.651	-5.5	118	0.05
13	S	1,2 Dichlorobenzene-d4(SURR	0.838	0.870	-3.9	113	0.05
14		1,2-Dichlorobenzene	1.394	1.460	-4.7	115	0.04
15		Benzyl Alcohol	1.171	1.171	-0.0	109	0.05
16		bis(2-chloroisopropyl)Ether	2.050	2.171	-5.9	117	0.04
17		2-Methylphenol	1.319	1.367	-3.6	117	0.05
18		Acetophenone	1.796	1.895	-5.5	119	0.04
19	MP	N-Nitroso-Di-n-Propylamine	1.016	1.009	0.7	108	0.05
20		Hexachloroethane	0.601	0.609	-1.4	110	0.04
21		3+4-Methylphenol	1.369	1.365	0.2	111	0.04
22	I	Naphthalene-d8	1.000	1.000	0.0	110	0.05
23	S	Nitrobenzene-d5 (SURR)	0.364	0.417	-14.3	124	0.04
24		Nitrobenzene	0.364	0.400	-10.0	122	0.05
25		Isophorone	0.764	0.810	-5.9	120	0.05
26	C	2-Nitrophenol	0.203	0.240	-18.1	129	0.05
27		Benzoic Acid	0.244	0.348	-42.5#	166	0.05
28		2,4-Dimethylphenol	0.340	0.369	-8.7	124	0.05
29		bis(2-Chloroethoxy)methane	0.505	0.554	-9.7	123	0.05
30	C	2,4-Dichlorophenol	0.273	0.295	-8.1	119	0.05
31	M	1,2,4-Trichlorobenzene	0.273	0.293	-7.5	119	0.05
32		Naphthalene	0.968	1.034	-6.8	116	0.06
33		4-Chloroaniline	0.434	0.470	-8.2	114	0.06
34	C	Hexachlorobutadiene	0.121	0.128	-5.4	115	0.06
35	MC	4-Chloro-3-Methylphenol	0.304	0.341	-12.1	125	0.06
36		2-Methylnaphthalene	0.640	0.679	-6.1	116	0.06
37		1-Methylnaphthalene	0.635	0.672	-5.9	116	0.06
38	I	Acenaphthene-d10	1.000	1.000	0.0	114	0.07
39	P	Hexachlorocyclopentadiene	0.262	0.286	-9.3	143	0.06
40	C	2,4,6-Trichlorophenol	0.377	0.401	-6.3	121	0.06
41		2,4,5-Trichlorophenol	0.397	0.442	-11.4	124	0.06
42	S	2-Fluorobiphenyl (SURR)	1.245	1.297	-4.2	115	0.06
43		Biphenyl	1.471	1.428	2.9	106	0.06
44		2-Chloronaphthalene	1.289	1.287	0.2	111	0.06
45		Dimethylphthalate	1.349	1.408	-4.4	119	0.06
46		Acenaphthylene	1.979	2.177	-10.0	124	0.06
47		2,6-Dinitrotoluene	0.304	0.376	-23.9	135	0.07
48		2-Nitroaniline	0.386	0.438	-13.4	133	0.07
49	MC	Acenaphthene	1.195	1.249	-4.5	117	0.07
50	P	2,4-Dinitrophenol	0.159	0.184	-16.0	196	0.07
51		Dibenzofuran	1.628	1.685	-3.5	117	0.07
52	MP	4-Nitrophenol	0.254	0.291	-14.2	131	0.06
53		3-Nitroaniline	0.457	0.495	-8.4	120	0.07

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS1_MD\MD0706\MD070306\SV139457.D Vial: 2
Acq On : 3 Jul 106 1:00 pm Operator: JLS
Sample : BPG0020-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jul 06 10:24:31 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	M	2,4-Dinitrotoluene	0.388	0.485	-25.0	142	0.06
55		Fluorene	1.237	1.296	-4.7	113	0.06
56		2,3,4,6-Tetrachlorophenol	0.280	0.307	-9.6	125	0.07
57		Diethylphthalate	1.418	1.442	-1.7	114	0.06
58		4-Chloro-phenyl-phenyl ethe	0.546	0.588	-7.8	118	0.07
59	I	Phenanthrene-d10	1.000	1.000	0.0	114	0.07
60		4-Nitroaniline	0.302	0.356	-17.7	130	0.07
61		4,6-Dinitro-2-Methylphenol	0.131	0.195	-48.9#	173	0.07
62	C	N-nitrosodiphenylamine	0.742	0.777	-4.7	115	0.07
63		Azobenzene	1.141	1.278	-12.0	131	0.06
64	S	2,4,6-Tribromophenol (SURR)	0.103	0.119	-16.1	130	0.06
65		4-Bromophenyl-phenylether	0.198	0.210	-6.3	120	0.07
66		Hexachlorobenzene	0.224	0.242	-8.1	125	0.07
67	MC	Pentachlorophenol	0.128	0.128	-0.1	115	0.07
68		Phenanthrene	1.165	1.220	-4.7	116	0.07
69		Anthracene	1.179	1.265	-7.3	119	0.07
70		Carbazole	1.220	1.278	-4.7	118	0.07
71		Di-n-butylphthalate	1.762	1.895	-7.5	122	0.07
72	C	Fluoranthene	1.160	1.258	-8.4	124	0.07
73		Benzidine	0.582	0.614	-5.5	126	0.07
74	I	Chrysene-d12	1.000	1.000	0.0	129	0.09
75	M	Pyrene	1.718	1.608	6.4	122	0.08
76	S	Terphenyl-d14 (SURR)	1.023	0.929	9.1	117	0.07
77		Butylbenzylphthalate	1.103	1.038	5.9	121	0.08
78		3,3'-Dichlorobenzidine	0.520	0.483	7.1	117	0.08
79		Benzo(a)anthracene	1.514	1.406	7.2	123	0.08
80		Chrysene	1.351	1.240	8.2	119	0.08
81		bis(2-Ethylhexyl)phthalate	1.480	1.396	5.7	121	0.07
82	I	Perylene-d12	1.000	1.000	0.0	123	0.09
83	C	Di-n-octylphthalate	2.352	2.405	-2.3	121	0.07
84		Benzo(b)fluoranthene	1.491	1.586	-6.4	148	0.09
85		Benzo(k)fluoranthene	0.993	0.886	10.8	112	0.09
86	C	Benzo(a)pyrene	1.179	1.201	-1.9	123	0.09
87		Indeno(1,2,3-Cd)Pyrene	1.213	1.301	-7.3	123	0.09
88		Dibenzo(a,h)Anthracene	1.021	1.084	-6.2	120	0.09
89		Benzo(g,h,i)perylene	1.076	1.088	-1.0	119	0.09

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report

Data File : Q:\SVOA\MS1_MD\MD0706\MD070306\SV139457.D Vial: 2
Acq On : 3 Jul 106 1:00 pm Operator: JLS
Sample : BPG0020-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00
Quant Time: Jul 3 13:21 19106

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jul 06 10:24:31 2006
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.78	152	544874	40.00	ng/uL	0.00
22) Naphthalene-d8	5.12	136	1979570	40.00	ng/uL	-0.01
38) Acenaphthene-d10	7.52	164	908390	40.00	ng/uL	-0.02
59) Phenanthrene-d10	10.08	188	1308278	40.00	ng/uL	-0.02
74) Chrysene-d12	15.22	240	1080958	40.00	ng/uL	-0.02
82) Perylene-d12	17.84	264	1134377	40.00	ng/uL	-0.02
System Monitoring Compounds						%Recovery
4) 2-Fluorophenol (SURR)	1.92	112	1069978	52.95	ng/uL	35.30%
6) Phenol-d5 (SURR)	3.49	99	1312198	52.55	ng/uL	35.03%
10) 2-Chlorophenol-d4(SURR)	3.58	132	1032914	52.62	ng/uL	35.08%
13) 1,2 Dichlorobenzene-d4(SUR	3.98	152	592834	51.95	ng/uL	51.95%
23) Nitrobenzene-d5 (SURR)	4.39	82	1030615	57.14	ng/uL	57.14%
42) 2-Fluorobiphenyl (SURR)	6.53	172	1473106	52.09	ng/uL	52.09%
64) 2,4,6-Tribromophenol (SURR	8.86	330	194673	58.05	ng/uL	38.70%
76) Terphenyl-d14 (SURR)	13.24	244	1255882	45.45	ng/uL	45.45%
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.81	74	56530	37.54	ng/uL	100
3) Pyridine	0.81	79	99383	38.46	ng/ul	97
5) bis(2-Chloroethyl)ether	3.57	93	1217836	54.74	ng/uL	97
7) 2-Chlorophenol	3.60	128	1049257	52.97	ng/uL	94
8) Phenol	3.50	94	1677407	54.86	ng/uL	90
9) Aniline	3.48	93	1681446	53.24	ng/ul	94
11) 1,3-Dichlorobenzene	3.74	146	1129051	53.59	ng/uL	99
12) 1,4-Dichlorobenzene	3.80	146	1124821	52.73	ng/uL	100
14) 1,2-Dichlorobenzene	3.99	146	994114	52.34	ng/uL	99
15) Benzyl Alcohol	3.98	79	797411	50.00	ng/ul	93
16) bis(2-chloroisopropyl)Ethe	4.14	45	1478445	52.94	ng/uL	95
17) 2-Methylphenol	4.13	108	930849	51.81	ng/uL	98
18) Acetophenone	4.24	105	1290516	52.76	ng/ul	97
19) N-Nitroso-Di-n-Propylamine	4.29	70	687153	49.64	ng/uL	97
20) Hexachloroethane	4.30	117	415036	50.71	ng/uL	99
21) 3+4-Methylphenol	4.29	108	929966	49.89	ng/uL	99
24) Nitrobenzene	4.41	77	989657	55.00	ng/uL	93
25) Isophorone	4.66	82	2003124	52.96	ng/uL	99
26) 2-Nitrophenol	4.74	139	592774	59.06	ng/uL	99
27) Benzoic Acid	5.04	105	861534	60.75	ng/uL	98
28) 2,4-Dimethylphenol	4.81	107	913679	54.33	ng/uL	96
29) bis(2-Chloroethoxy)methane	4.91	93	1370040	54.85	ng/uL	95
30) 2,4-Dichlorophenol	4.99	162	730635	54.05	ng/uL	97
31) 1,2,4-Trichlorobenzene	5.08	180	725238	53.74	ng/uL	98
32) Naphthalene	5.15	128	2558500	53.39	ng/uL	100
33) 4-Chloroaniline	5.25	127	1161883	54.10	ng/uL	100
34) Hexachlorobutadiene	5.37	225	315783	52.72	ng/uL	99
35) 4-Chloro-3-Methylphenol	5.86	107	843860	56.06	ng/uL	93
36) 2-Methylnaphthalene	5.98	142	1679227	53.04	ng/uL	99
37) 1-Methylnaphthalene	6.12	142	1663218	52.95	ng/ul	100
39) Hexachlorocyclopentadiene	6.29	237	325307	54.66	ng/uL	100
40) 2,4,6-Trichlorophenol	6.42	196	455706	53.17	ng/uL	99
41) 2,4,5-Trichlorophenol	6.48	196	502223	55.72	ng/uL	100
43) Biphenyl	6.65	154	1621362	48.54	ng/ul	98
44) 2-Chloronaphthalene	6.65	162	1461056	49.91	ng/uL	97
45) Dimethylphthalate	7.22	163	1599307	52.20	ng/uL	99
46) Acenaphthylene	7.27	152	2472511	55.01	ng/uL	99
47) 2,6-Dinitrotoluene	7.31	165	427413	61.93	ng/uL	98
48) 2-Nitroaniline	6.87	65	497405	56.72	ng/uL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\SVOA\MS1_MD\MD0706\MD070306\SV139457.D Vial: 2
Acq On : 3 Jul 106 1:00 pm Operator: JLS
Sample : BPG0020-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00
Quant Time: Jul 3 13:21 19106

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jul 06 10:24:31 2006
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49)	Acenaphthene	7.58	153	1417788	52.24	ng/uL	99
50)	2,4-Dinitrophenol	7.68	184	208950	61.74	ng/uL	97
51)	Dibenzofuran	7.83	168	1912731	51.74	ng/uL	75
52)	4-Nitrophenol	7.84	65	329985	57.10	ng/uL	94
53)	3-Nitroaniline	7.52	65	561947	54.18	ng/uL	96
54)	2,4-Dinitrotoluene	7.93	165	550655	58.02	ng/uL	97
55)	Fluorene	8.41	166	1471241	52.36	ng/uL	100
56)	2,3,4,6-Tetrachlorophenol	8.13	232	348911	54.81	ng/ul	98
57)	Diethylphthalate	8.40	149	1637434	50.84	ng/uL	98
58)	4-Chloro-phenyl-phenyl eth	8.45	204	668059	53.89	ng/uL	99
60)	4-Nitroaniline	8.57	138	581990	58.86	ng/uL	98
61)	4,6-Dinitro-2-Methylphenol	8.64	198	318137	60.81	ng/uL	89
62)	N-nitrosodiphenylamine	8.69	169	1270719	52.33	ng/uL	99
63)	Azobenzene	8.72	77	2089560	55.99	ng/ul	98
65)	4-Bromophenyl-phenylether	9.30	248	343691	53.16	ng/uL	95
66)	Hexachlorobenzene	9.54	284	396477	54.05	ng/uL	99
67)	Pentachlorophenol	9.89	266	209246	50.05	ng/uL	99
68)	Phenanthrene	10.13	178	1994862	52.37	ng/uL	99
69)	Anthracene	10.20	178	2068244	53.63	ng/uL	99
70)	Carbazole	10.55	167	2090279	52.37	ng/uL	99
71)	Di-n-butylphthalate	11.46	149	3098546	53.76	ng/uL	100
72)	Fluoranthene	12.39	202	2056969	54.22	ng/uL	95
73)	Benzidine	12.73	184	1003465	52.74	ng/ul	95
75)	Pyrene	12.81	202	2172133	46.78	ng/uL	96
77)	Butylbenzylphthalate	14.36	149	1402346	47.06	ng/uL	98
78)	3,3'-Dichlorobenzidine	15.25	252	653095	46.45	ng/uL	96
79)	Benzo(a)anthracene	15.18	228	1899773	46.42	ng/uL	100
80)	Chrysene	15.27	228	1676018	45.90	ng/uL	99
81)	bis(2-Ethylhexyl)phthalate	15.60	149	1886150	47.17	ng/uL	98
83)	Di-n-octylphthalate	16.76	149	3410312	51.13	ng/uL	99
84)	Benzo(b)fluoranthene	17.21	252	2249259	53.20	ng/uL	99
85)	Benzo(k)fluoranthene	17.25	252	1256257	45.69	ng/uL	98
86)	Benzo(a)pyrene	17.74	252	1702700	50.93	ng/uL	98
87)	Indeno(1,2,3-Cd)Pyrene	19.49	276	1844964	53.63	ng/uL	98
88)	Dibenzo(a,h)Anthracene	19.53	278	1537121	53.10	ng/uL	100
89)	Benzo(g,h,i)perylene	19.84	276	1542411	50.52	ng/uL	92

(#) = qualifier out of range (m) = manual integration

ANALYSIS SEQUENCE

BPG0022

Instrument: SVOA-MS1

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0022-TUN1	QC		1		6F26111		
BPG0022-CCV1	QC		2		6F27064	6F16045	
BG60520-BSD1	QC		3			6F16045	
BF63026-BLK1	QC		4			6F16045	
BF63026-BS1	QC		5			6F16045	
BF63026-BSD1	QC		6			6F16045	
BF63026-MS1	QC		7			6F16045	
0606488-06	C: TCLP Semi-Volatiles 1311	D	8			6F16045	RC & D
0606488-05	C: TCLP Semi-Volatiles 1311	D	9			6F16045	RC & D
0606488-04	C: TCLP Semi-Volatiles 1311	D	10			6F16045	RC & D
0606488-03	C: TCLP Semi-Volatiles 1311	D	11			6F16045	RC & D
0606488-02	C: TCLP Semi-Volatiles 1311	D	12			6F16045	RC & D
0606488-01	C: TCLP Semi-Volatiles 1311	D	13			6F16045	RC & D
BF62824-MS1	QC		14			6F16045	
BF62824-MSD1	QC		15			6F16045	

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GCMS1 RUN LOG

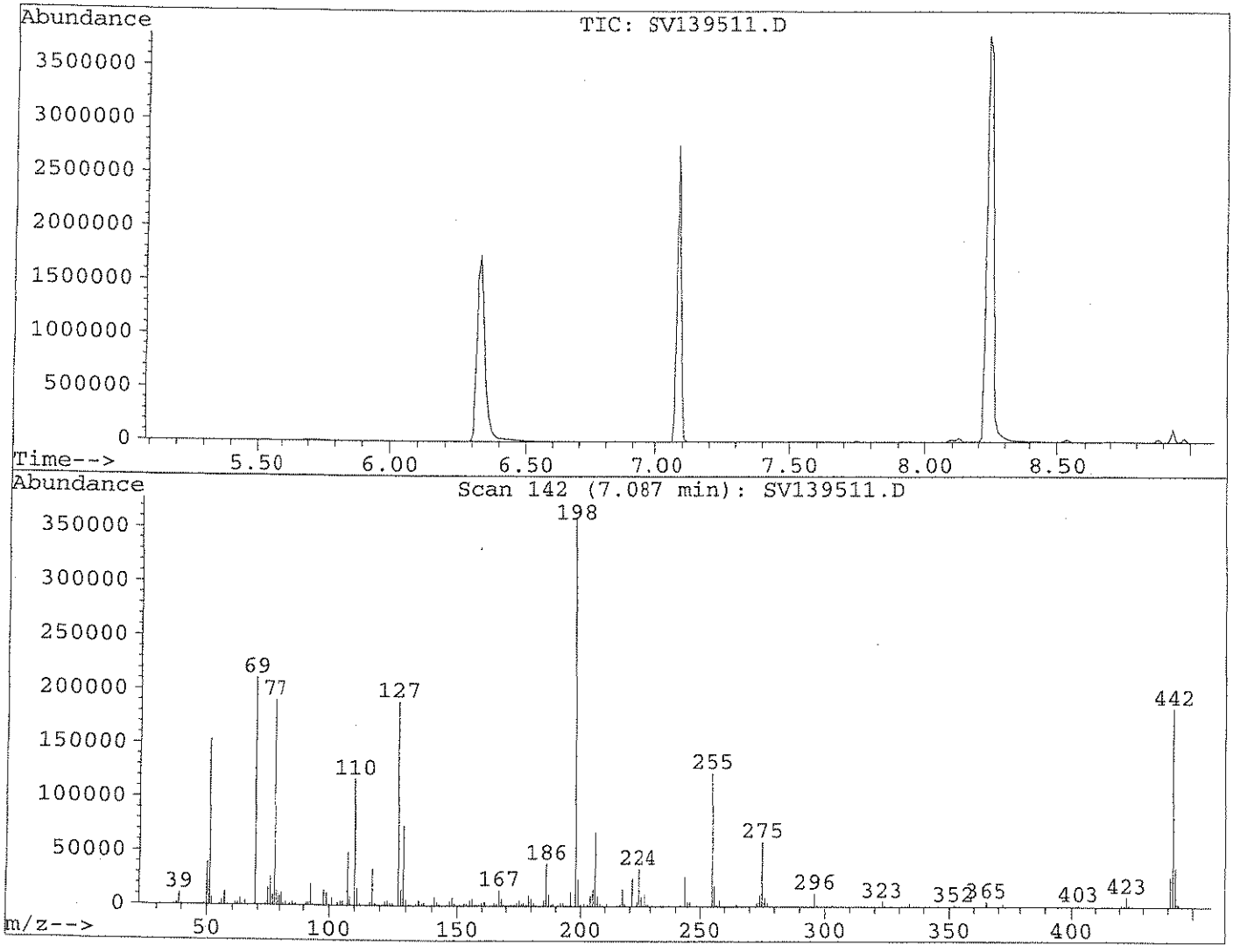
COLUMN DB5MS @ 13 errors VSL 7/5/06

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
7/5/6	1	SV1 39511	BPB0022 -TUN	DFTPP	6F26111	LDD
	2	SV1 12	BPB0022 -CCV1	SVING	N.C.	
	3	SV1 13	BF62717-BS01			
	2 ~~3~~	SV1 14	BPB0022 CCV1		6F27064	EEB
	3 ~~X~~	SV1 15	BF62717-BS01 ~~0606376-04~~		6F26097	VSL
	4 ~~X~~	SV1 16	0606376-04 ~~BF62717-BS01~~		500X	
	5 ~~X~~	SV1 17	0606383 ~~-BMS~~			
	6 ~~X~~	SV1 18	0606383-13MSD			
	7 ~~X~~	SV1 19	BF63026-BMS1			
	8 ~~X~~	SV1 20	~~BF63026-BS1~~			
	9 ~~X~~	SV1 21	BF63026-BS01			
	10 ~~X~~	SV1 22	0606488-01			
	11 ~~X~~	SV1 23	-02			
	12 ~~X~~	SV1 24	-03			
	13 ~~X~~	SV1 25	-04			
	14 ~~X~~	SV1 26	-05			
	15 ~~X~~	SV1 27	0606488-06			
7/5/06	16	SV1 28	BF63026-MS1	SVING	6F26097	VSL
7/6/06	1	SV1 29	BPB0037-TUN1	DFTPP		
	2	SV1 30	BPB-0037-CCV1	BPHRIAK		
	3	SV1 31	0606390-01DUP			
	4	SV1 32	0606390-01MS1			
	5	SV1 33	0606481-02		20X	
	6	SV1 34	Solvent			
	2	SV1 35	BPB-0037-CCV2	BPHRIAK		
	1 ~~2~~	SV1 36	BPB-0036-TUN1	DFTPP	6F26111	VSL
	2	SV1 37	BPB0036-CCV1	SVING	6F27064	
	3	SV1 38	BB60201-BMS1			
	4	SV1 39	BB60309-BS1			
7/6/06	5	SV1 40	BB60309 BSD1	SVING		VSL

DFTPP CLP

Data File : Q:\SVOA\MS1_MD\MD0706\MD070506\SV139511.D Vial: 1
Acq On : 5 Jul 106 1:10 pm Operator: JLS
Sample : BPG0022-TUN1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\DFTPP.M
Title : daily instrument eval mix



Peak Apex is scan: 142

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.9	153856	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	58.8	210752	PASS
70	69	0	2	0.0	0	PASS
127	198	40	60	52.8	189120	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	358464	PASS
199	198	5	9	6.8	24368	PASS
275	198	10	30	16.7	59856	PASS
365	198	1	100	1.3	4709	PASS
441	443	0	100	75.7	27032	PASS
442	198	40	110	51.2	183552	PASS
443	442	17	23	19.4	35696	PASS

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS1_MD\MD0706\MD070506\SV139514.D Vial: 2
Acq On : 5 Jul 106 4:00 pm Operator: VSC
Sample : BPG0022-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Sun Jul 02 16:00:24 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	-0.05
2		N-Nitrosodimethylamine	0.111	0.086	22.1	81	0.00
3		Pyridine	0.190	0.138	27.5	78	0.00
4	S	2-Fluorophenol (SURR)	1.483	1.551	-4.5	109	-0.08
5		bis(2-Chloroethyl)ether	1.633	1.770	-8.4	111	-0.05
6	S	Phenol-d5 (SURR)	1.833	1.979	-7.9	109	-0.05
7	M	2-Chlorophenol	1.454	1.586	-9.1	111	-0.05
8	MC	Phenol	2.245	2.482	-10.6	112	-0.05
9		Aniline	2.318	2.520	-8.7	112	-0.05
10	S	2-Chlorophenol-d4(SURR)	1.441	1.554	-7.8	108	-0.05
11		1,3-Dichlorobenzene	1.547	1.642	-6.2	110	-0.05
12	MC	1,4-Dichlorobenzene	1.566	1.661	-6.1	110	-0.05
13	S	1,2 Dichlorobenzene-d4(SURR	0.838	0.882	-5.2	106	-0.05
14		1,2-Dichlorobenzene	1.394	1.461	-4.7	107	-0.04
15		Benzyl Alcohol	1.171	1.177	-0.6	102	-0.05
16		bis(2-chloroisopropyl)Ether	2.050	2.206	-7.6	110	-0.05
17		2-Methylphenol	1.319	1.370	-3.9	108	-0.06
18		Acetophenone	1.796	1.920	-7.0	112	-0.05
19	MP	N-Nitroso-Di-n-Propylamine	1.016	1.026	-1.0	102	-0.06
20		Hexachloroethane	0.601	0.618	-2.8	103	-0.05
21		3+4-Methylphenol	1.369	1.434	-4.8	108	-0.05
22	I	Naphthalene-d8	1.000	1.000	0.0	103	-0.06
23	S	Nitrobenzene-d5 (SURR)	0.364	0.426	-16.9	119	-0.05
24		Nitrobenzene	0.364	0.413	-13.7	118	-0.06
25		Isophorone	0.764	0.807	-5.5	112	-0.06
26	C	2-Nitrophenol	0.203	0.243	-19.8	123	-0.06
27		Benzoic Acid	0.244	0.354	-44.8#	158	-0.03
28		2,4-Dimethylphenol	0.340	0.363	-7.0	115	-0.06
29		bis(2-Chloroethoxy)methane	0.505	0.549	-8.7	115	-0.05
30	C	2,4-Dichlorophenol	0.273	0.292	-6.8	110	-0.06
31	M	1,2,4-Trichlorobenzene	0.273	0.287	-5.3	109	-0.06
32		Naphthalene	0.968	1.015	-4.8	107	-0.06
33		4-Chloroaniline	0.434	0.466	-7.4	106	-0.06
34	C	Hexachlorobutadiene	0.121	0.126	-3.9	106	-0.06
35	MC	4-Chloro-3-Methylphenol	0.304	0.335	-10.0	115	-0.07
36		2-Methylnaphthalene	0.640	0.678	-6.0	108	-0.07
37		1-Methylnaphthalene	0.635	0.668	-5.2	108	-0.08
38	I	Acenaphthene-d10	1.000	1.000	0.0	104	-0.09
39	P	Hexachlorocyclopentadiene	0.262	0.284	-8.4	130	-0.08
40	C	2,4,6-Trichlorophenol	0.377	0.402	-6.6	111	-0.07
41		2,4,5-Trichlorophenol	0.397	0.445	-12.0	114	-0.08
42	S	2-Fluorobiphenyl (SURR)	1.245	1.318	-5.8	107	-0.07
43		Biphenyl	1.471	1.480	-0.6	101	-0.08
44		2-Chloronaphthalene	1.289	1.287	0.1	102	-0.08
45		Dimethylphthalate	1.349	1.413	-4.8	109	-0.07
46		Acenaphthylene	1.979	2.166	-9.5	113	-0.08
47		2,6-Dinitrotoluene	0.304	0.380	-25.1	125	-0.08
48		2-Nitroaniline	0.386	0.466	-20.7	129	-0.08
49	MC	Acenaphthene	1.195	1.259	-5.3	108	-0.08
50	P	2,4-Dinitrophenol	0.159	0.227	-42.8#	221#	-0.08
51		Dibenzofuran	1.628	1.726	-6.0	110	-0.08
52	MP	4-Nitrophenol	0.254	0.307	-20.8	127	-0.08
53		3-Nitroaniline	0.457	0.519	-13.7	115	-0.08

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS1_MD\MD0706\MD070506\SV139514.D Vial: 2
Acq On : 5 Jul 106 4:00 pm Operator: VSC
Sample : BPG0022-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Sun Jul 02 16:00:24 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	M	2,4-Dinitrotoluene	0.388	0.485	-24.9	130	-0.08
55		Fluorene	1.237	1.320	-6.7	106	-0.08
56		2,3,4,6-Tetrachlorophenol	0.280	0.302	-7.8	112	-0.09
57		Diethylphthalate	1.418	1.420	-0.2	103	-0.08
58		4-Chloro-phenyl-phenyl ethe	0.546	0.606	-10.9	111	-0.09
59	I	Phenanthrene-d10	1.000	1.000	0.0	105	-0.09
60		4-Nitroaniline	0.302	0.347	-14.9	117	-0.08
61		4,6-Dinitro-2-Methylphenol	0.131	0.207	-58.1#	169	-0.08
62	C	N-nitrosodiphenylamine	0.742	0.796	-7.2	108	-0.08
63		Azobenzene	1.141	1.312	-15.0	124	-0.08
64	S	2,4,6-Tribromophenol (SURR)	0.103	0.116	-13.2	116	-0.08
65		4-Bromophenyl-phenylether	0.198	0.210	-6.4	110	-0.09
66		Hexachlorobenzene	0.224	0.241	-7.6	115	-0.09
67	MC	Pentachlorophenol	0.128	0.142	-11.4	118	-0.09
68		Phenanthrene	1.165	1.235	-6.0	108	-0.09
69		Anthracene	1.179	1.272	-7.9	110	-0.09
70		Carbazole	1.220	1.280	-4.9	109	-0.09
71		Di-n-butylphthalate	1.762	1.851	-5.0	110	-0.09
72	C	Fluoranthene	1.160	1.235	-6.5	112	-0.09
73		Benzidine	0.582	0.694	-19.3	131	-0.10
74	I	Chrysene-d12	1.000	1.000	0.0	120	-0.11
75	M	Pyrene	1.718	1.584	7.8	112	-0.10
76	S	Terphenyl-d14 (SURR)	1.023	0.921	9.9	108	-0.09
77		Butylbenzylphthalate	1.103	1.014	8.1	110	-0.09
78		3,3'-Dichlorobenzidine	0.520	0.494	5.1	111	-0.10
79		Benzo(a)anthracene	1.514	1.377	9.1	112	-0.10
80		Chrysene	1.351	1.210	10.4	108	-0.10
81		bis(2-Ethylhexyl)phthalate	1.480	1.367	7.6	110	-0.09
82	I	Perylene-d12	1.000	1.000	0.0	112	-0.11
83	C	Di-n-octylphthalate	2.352	2.416	-2.7	111	-0.10
84		Benzo(b)fluoranthene	1.491	1.567	-5.1	134	-0.11
85		Benzo(k)fluoranthene	0.993	0.931	6.3	108	-0.11
86	C	Benzo(a)pyrene	1.179	1.215	-3.1	114	-0.11
87		Indeno(1,2,3-Cd)Pyrene	1.213	1.333	-9.9	115	-0.11
88		Dibenzo(a,h)Anthracene	1.021	1.119	-9.6	113	-0.11
89		Benzo(g,h,i)perylene	1.076	1.130	-4.9	113	-0.11

Quantitation Report

Data File : Q:\SVOA\MS1_MD\MD0706\MD070506\SV139514.D Vial: 2
Acq On : 5 Jul 106 4:00 pm Operator: VSC
Sample : BPG0022-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00
Quant Time: Jul 5 16:36 19106

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Sun Jul 02 16:00:24 2006
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.74	152	504224	40.00	ng/uL	-0.05
22) Naphthalene-d8	5.07	136	1857798	40.00	ng/uL	-0.06
38) Acenaphthene-d10	7.45	164	832060	40.00	ng/uL	-0.09
59) Phenanthrene-d10	10.00	188	1205406	40.00	ng/uL	-0.09
74) Chrysene-d12	15.13	240	1005564	40.00	ng/uL	-0.11
82) Perylene-d12	17.75	264	1037535	40.00	ng/uL	-0.11
System Monitoring Compounds						%Recovery
4) 2-Fluorophenol (SURR)	1.83	112	977391	52.27	ng/uL	34.85%
6) Phenol-d5 (SURR)	3.44	99	1247135	53.97	ng/uL	35.98%
10) 2-Chlorophenol-d4(SURR)	3.53	132	979173	53.90	ng/uL	35.94%
13) 1,2 Dichlorobenzene-d4(SUR	3.93	152	555657	52.62	ng/uL	52.62%
23) Nitrobenzene-d5 (SURR)	4.35	82	989696	58.47	ng/uL	58.47%
42) 2-Fluorobiphenyl (SURR)	6.47	172	1370776	52.92	ng/uL	52.92%
64) 2,4,6-Tribromophenol (SURR	8.80	330	174919	56.61	ng/uL	37.74%
76) Terphenyl-d14 (SURR)	13.17	244	1157695	45.04	ng/uL	45.04%
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.79	74	54250	38.93	ng/uL	95
3) Pyridine	0.79	79	86704	36.26	ng/ul	97
5) bis(2-Chloroethyl)ether	3.52	93	1115409	54.18	ng/uL	99
7) 2-Chlorophenol	3.55	128	999600	54.53	ng/uL	94
8) Phenol	3.46	94	1564453	55.29	ng/uL	80
9) Aniline	3.43	93	1588418	54.35	ng/ul	99
11) 1,3-Dichlorobenzene	3.70	146	1035111	53.09	ng/uLm	100
12) 1,4-Dichlorobenzene	3.76	146	1046934	53.04	ng/uL	99
14) 1,2-Dichlorobenzene	3.95	146	920589	52.37	ng/uL	99
15) Benzyl Alcohol	3.93	79	741992	50.28	ng/ul	100
16) bis(2-chloroisopropyl)Ethe	4.10	45	1390165	53.79	ng/uL	96
17) 2-Methylphenol	4.08	108	863373	51.93	ng/uL	97
18) Acetophenone	4.20	105	1210407	53.48	ng/ul	94
19) N-Nitroso-Di-n-Propylamine	4.24	70	646869	50.50	ng/uLm	71
20) Hexachloroethane	4.26	117	389372	51.41	ng/uL	87
21) 3+4-Methylphenol	4.25	108	903656	52.38	ng/uL	93
24) Nitrobenzene	4.36	77	959759	56.84	ng/uL	91
25) Isophorone	4.61	82	1873142	52.77	ng/uLm	61
26) 2-Nitrophenol	4.69	139	564153	59.89	ng/uLm	97
27) Benzoic Acid	4.99	105	821628	61.62	ng/uL	98
28) 2,4-Dimethylphenol	4.76	107	844068	53.48	ng/uL	100
29) bis(2-Chloroethoxy)methane	4.86	93	1274525	54.37	ng/uL	97
30) 2,4-Dichlorophenol	4.94	162	677479	53.41	ng/uL	98
31) 1,2,4-Trichlorobenzene	5.03	180	666918	52.66	ng/uL	99
32) Naphthalene	5.09	128	2356507	52.39	ng/uL	99
33) 4-Chloroaniline	5.19	127	1082273	53.70	ng/uL	99
34) Hexachlorobutadiene	5.31	225	292141	51.97	ng/uL	99
35) 4-Chloro-3-Methylphenol	5.80	107	776792	54.99	ng/uL	99
36) 2-Methylnaphthalene	5.92	142	1574419	52.99	ng/uL	99
37) 1-Methylnaphthalene	6.06	142	1550602	52.60	ng/ulm	67
39) Hexachlorocyclopentadiene	6.23	237	295555	54.21	ng/uL	98
40) 2,4,6-Trichlorophenol	6.36	196	418582	53.32	ng/uLm	98
41) 2,4,5-Trichlorophenol	6.42	196	462443	56.02	ng/uL	99
43) Biphenyl	6.59	154	1538793	50.30	ng/ul	98
44) 2-Chloronaphthalene	6.59	162	1338780	49.93	ng/uLm	97
45) Dimethylphthalate	7.16	163	1470080	52.39	ng/uL	99
46) Acenaphthylene	7.21	152	2253255	54.73	ng/uLm	89
47) 2,6-Dinitrotoluene	7.24	165	395536	62.56	ng/uL	88
48) 2-Nitroaniline	6.80	65	484679	60.34	ng/uL	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\SVOA\MS1_MD\MD0706\MD070506\SV139514.D Vial: 2
Acq On : 5 Jul 106 4:00 pm Operator: VSC
Sample : BPG0022-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00
Quant Time: Jul 5 16:36 19106

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Sun Jul 02 16:00:24 2006
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) Acenaphthene	7.51	153	1309296	52.67	ng/uL	99
50) 2,4-Dinitrophenol	7.61	184	235604	70.80	ng/uL	92
51) Dibenzofuran	7.76	168	1795167	53.01	ng/uL	83
52) 4-Nitrophenol	7.78	65	319700	60.39	ng/uL	97
53) 3-Nitroaniline	7.45	65	539955	56.83	ng/uL	98
54) 2,4-Dinitrotoluene	7.87	165	504095	57.99	ng/uL	89
55) Fluorene	8.35	166	1372807	53.34	ng/uL	99
56) 2,3,4,6-Tetrachlorophenol	8.06	232	314287	53.90	ng/ul	98
57) Diethylphthalate	8.34	149	1477351	50.08	ng/uL	99
58) 4-Chloro-phenyl-phenyl eth	8.38	204	629800	55.46	ng/uL	93
60) 4-Nitroaniline	8.50	138	523590	57.47	ng/uLm	1
61) 4,6-Dinitro-2-Methylphenol	8.57	198	311350	64.07	ng/uLm	82
62) N-nitrosodiphenylamine	8.62	169	1198920	53.59	ng/uLm	100
63) Azobenzene	8.66	77	1976608	57.48	ng/ulm	57
65) 4-Bromophenyl-phenylether	9.23	248	316916	53.20	ng/uLm	98
66) Hexachlorobenzene	9.47	284	363560	53.79	ng/uLm	98
67) Pentachlorophenol	9.82	266	214585	55.71	ng/uLm	89
68) Phenanthrene	10.05	178	1860414	53.01	ng/uLm	100
69) Anthracene	10.13	178	1916906	53.95	ng/uLm	99
70) Carbazole	10.48	167	1928761	52.44	ng/uLm	99
71) Di-n-butylphthalate	11.39	149	2788344	52.50	ng/uLm	58
72) Fluoranthene	12.32	202	1861008	53.25	ng/uLm	56
73) Benzidine	12.66	184	1046009	59.67	ng/ulm	99
75) Pyrene	12.73	202	1991437	46.11	ng/uL	93
77) Butylbenzylphthalate	14.28	149	1274525	45.97	ng/uL	94
78) 3,3'-Dichlorobenzidine	15.17	252	620680	47.46	ng/uL	96
79) Benzo(a)anthracene	15.10	228	1730828	45.47	ng/uLm	96
80) Chrysene	15.19	228	1521526	44.79	ng/uL	99
81) bis(2-Ethylhexyl)phthalate	15.53	149	1717832	46.18	ng/uL	99
83) Di-n-octylphthalate	16.68	149	3132982	51.36	ng/uL	100
84) Benzo(b)fluoranthene	17.12	252	2032208	52.55	ng/uLm	93
85) Benzo(k)fluoranthene	17.16	252	1207446	48.95	ng/uL	98
86) Benzo(a)pyrene	17.65	252	1576330	51.55	ng/uL	100
87) Indeno(1,2,3-Cd)Pyrene	19.40	276	1728147	54.93	ng/uL	100
88) Dibenzo(a,h)Anthracene	19.44	278	1450819	54.80	ng/uLm	96
89) Benzo(g,h,i)perylene	19.76	276	1465177	52.47	ng/uL	91

(#) = qualifier out of range (m) = manual integration

Semi-Volatile Organics Logbooks

Fall Crt SVOA Ökli
BF60520

ESS Organic Preparation Logbook

Project #: 0606374, 0606389
Prep Date: 6/27/06
Batch ID: SXBF62717
Extraction Method: 3541

Surrogate ID#
A 6F26064
B 6F20042
C NA

Matrix Spike ID#
D 6F21077
E NA
F

Analytical Matrix: soil
Extraction Time:
Start: 11:00
Finish: —

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml
5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
SXBF62717-B	20.0	1	NA	1	1	NA	6/27/06	40	NA	NA		EM	NM	JS
-BS	20.0	1	1	1	1									
-BSD	20.0	1	1	1	1									
-LLBS	20.0	1B	0.025	1	1									
-LLBSD	20.0	1B	0.025	1	1									
0606374-01	19.5	1	NA	1	1									
-02	20.1	1		1	1									
-03	20.4	1		1	1									
-04	20.9	1		1	1									
-05	19.6	1		1	1									
-06	19.5	1		1	1									
-07	19.9	1		1	1									
-08	20.4	1		1	1									
-09	21.0	1		1	1									
-10	19.9	1		1	1									
-11	19.2	1		1	1									
-12	21.0	1		1	1									
-13	20.4	1		1	1									
-14	20.6	1		1	1									
-15	20.9	1		1	1									
-16	21.0	1		1	1									
0606383-01	19.8	1		1	1									
-02	19.0	1		1	1									
-03	21.0	1		1	1									
-11	19.4	1	NA	1	1	NA	6/27/06	40	NA	NA		EM	NM	JS

534

Analysis Performed
- PCB ☐
- B/N SVOA ☐
- SVOA ☒
- LL PAH ☐
- PEST ☐
- TPH/GC ☐
- BIS-2 ☐
- PAH ☐

Acid Washed: Y / (N)
H2SO4 ID# NA

Cu Cleaned: Y / (N)
Cu ID# NA

Florisiled: Y / (N)
Lot# NA

Silica Column/Carbon prep: Y / (N)
Lot # NA

CH_2Cl_2 lot # CQ689
Hexane lot# NA
Acetone lot# NA

NaOH ID# NA
Na_2SO_4 ID# RLI6G26008

Prepared By: EM
Glasswool: RD060606
Method #(s): 0270

**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A

BATCH ID/Test: BF62717

BATCH ID/Test: ____

Page ____

ESS Organic Preparation Logbook

Project #: 0606374, 0606383
Prep Date: 6/27/06
Batch ID: SXBF62717
Extraction Method: 3541

Surrogate ID#
A 6F26064
B 6F20042
C NA

Matrix Spike ID#
D 6F21077
E NA
F

Analytical Matrix: soil
Extraction Time:
Start: 11:00
Finish: —

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
0606383-11M	21.0	1	1	1	1	NA	6/27/06	40	NA	NA		EM	NMT	JLS
-11MD	20.2	1	1	1	1	NA	6/27/06	40	NA	NA		EM	NMT	JLS

Analysis Performed
PCB ☐
B/N SVOA ☐
SVOA ☒
LL PAH ☐
PEST ☐
TPH/GC ☐
BIS-2 ☐
PAH ☐

535

Acid Washed: Y/(N) H2SO4 ID# NA
Cu Cleaned: Y/(N) Cu ID# NA
Florisiled: Y (N) Lot# NA
Silica Column/Carbon prep: Y/(N) Lot #

CH_2Cl_2 lot # C2L089
Hexane lot# NA
Acetone lot# NA
NaOH ID# NA
Na_2SO_4 ID# [illegible]

Prepared By: [illegible]
Glasswool: [illegible]
Method #(s): 8270

**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A
BATCH ID/Test: BF62717
BATCH ID/Test: ____
Page ____

14

Semi-Volatile Organics Data Package

LL PAH

Semi-Volatile Organics
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1301
Date Sampled: 06/22/06 11:30
Percent Solids: 80
Initial Volume: 19.5
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-01
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	32.1	1	07/04/06
2-Methylnaphthalene	ND	ug/Kg dry	32.1	1	07/04/06
Acenaphthene	ND	ug/Kg dry	32.1	1	07/04/06
Acenaphthylene	ND	ug/Kg dry	32.1	1	07/04/06
Anthracene	ND	ug/Kg dry	32.1	1	07/04/06
Benzo(a)anthracene	ND	ug/Kg dry	32.1	1	07/04/06
Benzo(a)pyrene	ND	ug/Kg dry	32.1	1	07/04/06
Benzo(b)fluoranthene	**37.8**	ug/Kg dry	32.1	1	07/04/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	32.1	1	07/04/06
Benzo(k)fluoranthene	ND	ug/Kg dry	32.1	1	07/04/06
Chrysene	ND	ug/Kg dry	32.1	1	07/04/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	32.1	1	07/04/06
Fluoranthene	**83.3**	ug/Kg dry	32.1	1	07/04/06
Fluorene	ND	ug/Kg dry	32.1	1	07/04/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	32.1	1	07/04/06
Naphthalene	ND	ug/Kg dry	32.1	1	07/04/06
Phenanthrene	**33.3**	ug/Kg dry	32.1	1	07/04/06
Pyrene	**51.3**	ug/Kg dry	32.1	1	07/04/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*57 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*68 %*		*30-130*
Surrogate: Nitrobenzene-d5	*38 %*		*30-130*
Surrogate: p-Terphenyl-d14	*62 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1303
Date Sampled: 06/22/06 11:50
Percent Solids: 80
Initial Volume: 20.1
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-02
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	31.1	1	07/04/06
2-Methylnaphthalene	ND	ug/Kg dry	31.1	1	07/04/06
Acenaphthene	ND	ug/Kg dry	31.1	1	07/04/06
Acenaphthylene	ND	ug/Kg dry	31.1	1	07/04/06
Anthracene	ND	ug/Kg dry	31.1	1	07/04/06
Benzo(a)anthracene	ND	ug/Kg dry	31.1	1	07/04/06
Benzo(a)pyrene	ND	ug/Kg dry	31.1	1	07/04/06
Benzo(b)fluoranthene	ND	ug/Kg dry	31.1	1	07/04/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	31.1	1	07/04/06
Benzo(k)fluoranthene	ND	ug/Kg dry	31.1	1	07/04/06
Chrysene	ND	ug/Kg dry	31.1	1	07/04/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	31.1	1	07/04/06
Fluoranthene	ND	ug/Kg dry	31.1	1	07/04/06
Fluorene	ND	ug/Kg dry	31.1	1	07/04/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	31.1	1	07/04/06
Naphthalene	ND	ug/Kg dry	31.1	1	07/04/06
Phenanthrene	ND	ug/Kg dry	31.1	1	07/04/06
Pyrene	ND	ug/Kg dry	31.1	1	07/04/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*90 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*124 %*		*30-130*
Surrogate: Nitrobenzene-d5	*83 %*		*30-130*
Surrogate: p-Terphenyl-d14	*132 %*	+	*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1401
Date Sampled: 06/22/06 12:10
Percent Solids: 26
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-03
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	94.3	1	07/04/06
2-Methylnaphthalene	ND	ug/Kg dry	94.3	1	07/04/06
Acenaphthene	ND	ug/Kg dry	94.3	1	07/04/06
Acenaphthylene	ND	ug/Kg dry	94.3	1	07/04/06
Anthracene	ND	ug/Kg dry	94.3	1	07/04/06
Benzo(a)anthracene	ND	ug/Kg dry	94.3	1	07/04/06
Benzo(a)pyrene	ND	ug/Kg dry	94.3	1	07/04/06
Benzo(b)fluoranthene	ND	ug/Kg dry	94.3	1	07/04/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	94.3	1	07/04/06
Benzo(k)fluoranthene	ND	ug/Kg dry	94.3	1	07/04/06
Chrysene	ND	ug/Kg dry	94.3	1	07/04/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	94.3	1	07/04/06
Fluoranthene	**204**	ug/Kg dry	94.3	1	07/04/06
Fluorene	ND	ug/Kg dry	94.3	1	07/04/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	94.3	1	07/04/06
Naphthalene	ND	ug/Kg dry	94.3	1	07/04/06
Phenanthrene	**99.9**	ug/Kg dry	94.3	1	07/04/06
Pyrene	**153**	ug/Kg dry	94.3	1	07/04/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*65 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*80 %*		*30-130*
Surrogate: Nitrobenzene-d5	*56 %*		*30-130*
Surrogate: p-Terphenyl-d14	*79 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1403
Date Sampled: 06/22/06 12:15
Percent Solids: 71
Initial Volume: 20.9
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-04
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	33.7	1	07/04/06
2-Methylnaphthalene	ND	ug/Kg dry	33.7	1	07/04/06
Acenaphthene	ND	ug/Kg dry	33.7	1	07/04/06
Acenaphthylene	ND	ug/Kg dry	33.7	1	07/04/06
Anthracene	ND	ug/Kg dry	33.7	1	07/04/06
Benzo(a)anthracene	ND	ug/Kg dry	33.7	1	07/04/06
Benzo(a)pyrene	ND	ug/Kg dry	33.7	1	07/04/06
Benzo(b)fluoranthene	ND	ug/Kg dry	33.7	1	07/04/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	33.7	1	07/04/06
Benzo(k)fluoranthene	ND	ug/Kg dry	33.7	1	07/04/06
Chrysene	ND	ug/Kg dry	33.7	1	07/04/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	33.7	1	07/04/06
Fluoranthene	ND	ug/Kg dry	33.7	1	07/04/06
Fluorene	ND	ug/Kg dry	33.7	1	07/04/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	33.7	1	07/04/06
Naphthalene	ND	ug/Kg dry	33.7	1	07/04/06
Phenanthrene	ND	ug/Kg dry	33.7	1	07/04/06
Pyrene	ND	ug/Kg dry	33.7	1	07/04/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*55 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*73 %*		*30-130*
Surrogate: Nitrobenzene-d5	*47 %*		*30-130*
Surrogate: p-Terphenyl-d14	*67 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1501
Date Sampled: 06/22/06 12:30
Percent Solids: 81
Initial Volume: 19.6
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-05
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	31.5	1	07/04/06
2-Methylnaphthalene	ND	ug/Kg dry	31.5	1	07/04/06
Acenaphthene	ND	ug/Kg dry	31.5	1	07/04/06
Acenaphthylene	ND	ug/Kg dry	31.5	1	07/04/06
Anthracene	ND	ug/Kg dry	31.5	1	07/04/06
Benzo(a)anthracene	ND	ug/Kg dry	31.5	1	07/04/06
Benzo(a)pyrene	ND	ug/Kg dry	31.5	1	07/04/06
Benzo(b)fluoranthene	ND	ug/Kg dry	31.5	1	07/04/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	31.5	1	07/04/06
Benzo(k)fluoranthene	ND	ug/Kg dry	31.5	1	07/04/06
Chrysene	ND	ug/Kg dry	31.5	1	07/04/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	31.5	1	07/04/06
Fluoranthene	ND	ug/Kg dry	31.5	1	07/04/06
Fluorene	ND	ug/Kg dry	31.5	1	07/04/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	31.5	1	07/04/06
Naphthalene	ND	ug/Kg dry	31.5	1	07/04/06
Phenanthrene	ND	ug/Kg dry	31.5	1	07/04/06
Pyrene	ND	ug/Kg dry	31.5	1	07/04/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*58 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*71 %*		*30-130*
Surrogate: Nitrobenzene-d5	*47 %*		*30-130*
Surrogate: p-Terphenyl-d14	*69 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1503
Date Sampled: 06/22/06 12:55
Percent Solids: 90
Initial Volume: 19.5
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-06
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	28.5	1	07/04/06
2-Methylnaphthalene	ND	ug/Kg dry	28.5	1	07/04/06
Acenaphthene	ND	ug/Kg dry	28.5	1	07/04/06
Acenaphthylene	ND	ug/Kg dry	28.5	1	07/04/06
Anthracene	ND	ug/Kg dry	28.5	1	07/04/06
Benzo(a)anthracene	ND	ug/Kg dry	28.5	1	07/04/06
Benzo(a)pyrene	ND	ug/Kg dry	28.5	1	07/04/06
Benzo(b)fluoranthene	ND	ug/Kg dry	28.5	1	07/04/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	28.5	1	07/04/06
Benzo(k)fluoranthene	ND	ug/Kg dry	28.5	1	07/04/06
Chrysene	ND	ug/Kg dry	28.5	1	07/04/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	28.5	1	07/04/06
Fluoranthene	ND	ug/Kg dry	28.5	1	07/04/06
Fluorene	ND	ug/Kg dry	28.5	1	07/04/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	28.5	1	07/04/06
Naphthalene	ND	ug/Kg dry	28.5	1	07/04/06
Phenanthrene	ND	ug/Kg dry	28.5	1	07/04/06
Pyrene	ND	ug/Kg dry	28.5	1	07/04/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*64 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*81 %*		*30-130*
Surrogate: Nitrobenzene-d5	*48 %*		*30-130*
Surrogate: p-Terphenyl-d14	*81 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1601
Date Sampled: 06/22/06 13:15
Percent Solids: 14
Initial Volume: 19.9
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-07
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-MethylNaphthalene	ND	ug/Kg dry	179	1	07/04/06
2-MethylNaphthalene	ND	ug/Kg dry	179	1	07/04/06
Acenaphthene	ND	ug/Kg dry	179	1	07/04/06
Acenaphthylene	ND	ug/Kg dry	179	1	07/04/06
Anthracene	ND	ug/Kg dry	179	1	07/04/06
Benzo(a)anthracene	ND	ug/Kg dry	179	1	07/04/06
Benzo(a)pyrene	ND	ug/Kg dry	179	1	07/04/06
Benzo(b)fluoranthene	**201**	ug/Kg dry	179	1	07/04/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	179	1	07/04/06
Benzo(k)fluoranthene	ND	ug/Kg dry	179	1	07/04/06
Chrysene	ND	ug/Kg dry	179	1	07/04/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	179	1	07/04/06
Fluoranthene	**330**	ug/Kg dry	179	1	07/04/06
Fluorene	ND	ug/Kg dry	179	1	07/04/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	179	1	07/04/06
Naphthalene	ND	ug/Kg dry	179	1	07/04/06
Phenanthrene	ND	ug/Kg dry	179	1	07/04/06
Pyrene	**244**	ug/Kg dry	179	1	07/04/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*55 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*70 %*		*30-130*
Surrogate: Nitrobenzene-d5	*38 %*		*30-130*
Surrogate: p-Terphenyl-d14	*64 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1603
Date Sampled: 06/22/06 13:30
Percent Solids: 80
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-08
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	30.6	1	07/04/06
2-Methylnaphthalene	ND	ug/Kg dry	30.6	1	07/04/06
Acenaphthene	ND	ug/Kg dry	30.6	1	07/04/06
Acenaphthylene	ND	ug/Kg dry	30.6	1	07/04/06
Anthracene	ND	ug/Kg dry	30.6	1	07/04/06
Benzo(a)anthracene	ND	ug/Kg dry	30.6	1	07/04/06
Benzo(a)pyrene	ND	ug/Kg dry	30.6	1	07/04/06
Benzo(b)fluoranthene	ND	ug/Kg dry	30.6	1	07/04/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	30.6	1	07/04/06
Benzo(k)fluoranthene	ND	ug/Kg dry	30.6	1	07/04/06
Chrysene	ND	ug/Kg dry	30.6	1	07/04/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	30.6	1	07/04/06
Fluoranthene	ND	ug/Kg dry	30.6	1	07/04/06
Fluorene	ND	ug/Kg dry	30.6	1	07/04/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	30.6	1	07/04/06
Naphthalene	ND	ug/Kg dry	30.6	1	07/04/06
Phenanthrene	ND	ug/Kg dry	30.6	1	07/04/06
Pyrene	ND	ug/Kg dry	30.6	1	07/04/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*64 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*84 %*		*30-130*
Surrogate: Nitrobenzene-d5	*52 %*		*30-130*
Surrogate: p-Terphenyl-d14	*74 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1801
Date Sampled: 06/22/06 14:00
Percent Solids: 13
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-09
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	183	1	07/04/06
2-Methylnaphthalene	ND	ug/Kg dry	183	1	07/04/06
Acenaphthene	ND	ug/Kg dry	183	1	07/04/06
Acenaphthylene	ND	ug/Kg dry	183	1	07/04/06
Anthracene	ND	ug/Kg dry	183	1	07/04/06
Benzo(a)anthracene	ND	ug/Kg dry	183	1	07/04/06
Benzo(a)pyrene	ND	ug/Kg dry	183	1	07/04/06
Benzo(b)fluoranthene	ND	ug/Kg dry	183	1	07/04/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	183	1	07/04/06
Benzo(k)fluoranthene	ND	ug/Kg dry	183	1	07/04/06
Chrysene	ND	ug/Kg dry	183	1	07/04/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	183	1	07/04/06
Fluoranthene	**267**	ug/Kg dry	183	1	07/04/06
Fluorene	ND	ug/Kg dry	183	1	07/04/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	183	1	07/04/06
Naphthalene	ND	ug/Kg dry	183	1	07/04/06
Phenanthrene	ND	ug/Kg dry	183	1	07/04/06
Pyrene	**187**	ug/Kg dry	183	1	07/04/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*45 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*63 %*		*30-130*
Surrogate: Nitrobenzene-d5	*34 %*		*30-130*
Surrogate: p-Terphenyl-d14	*68 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1804
Date Sampled: 06/22/06 14:20
Percent Solids: 17
Initial Volume: 19.9
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-10
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	148	1	07/04/06
2-Methylnaphthalene	ND	ug/Kg dry	148	1	07/04/06
Acenaphthene	ND	ug/Kg dry	148	1	07/04/06
Acenaphthylene	ND	ug/Kg dry	148	1	07/04/06
Anthracene	ND	ug/Kg dry	148	1	07/04/06
Benzo(a)anthracene	ND	ug/Kg dry	148	1	07/04/06
Benzo(a)pyrene	ND	ug/Kg dry	148	1	07/04/06
Benzo(b)fluoranthene	ND	ug/Kg dry	148	1	07/04/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	148	1	07/04/06
Benzo(k)fluoranthene	ND	ug/Kg dry	148	1	07/04/06
Chrysene	ND	ug/Kg dry	148	1	07/04/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	148	1	07/04/06
Fluoranthene	ND	ug/Kg dry	148	1	07/04/06
Fluorene	ND	ug/Kg dry	148	1	07/04/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	148	1	07/04/06
Naphthalene	ND	ug/Kg dry	148	1	07/04/06
Phenanthrene	ND	ug/Kg dry	148	1	07/04/06
Pyrene	ND	ug/Kg dry	148	1	07/04/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*60 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*74 %*		*30-130*
Surrogate: Nitrobenzene-d5	*43 %*		*30-130*
Surrogate: p-Terphenyl-d14	*73 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1901
Date Sampled: 06/22/06 14:35
Percent Solids: 21
Initial Volume: 19.2
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-11
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	124	1	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	124	1	07/05/06
Acenaphthene	ND	ug/Kg dry	124	1	07/05/06
Acenaphthylene	ND	ug/Kg dry	124	1	07/05/06
Anthracene	ND	ug/Kg dry	124	1	07/05/06
Benzo(a)anthracene	**218**	ug/Kg dry	124	1	07/05/06
Benzo(a)pyrene	**151**	ug/Kg dry	124	1	07/05/06
Benzo(b)fluoranthene	**320**	ug/Kg dry	124	1	07/05/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	124	1	07/05/06
Benzo(k)fluoranthene	ND	ug/Kg dry	124	1	07/05/06
Chrysene	**201**	ug/Kg dry	124	1	07/05/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	124	1	07/05/06
Fluoranthene	**533**	ug/Kg dry	124	1	07/05/06
Fluorene	ND	ug/Kg dry	124	1	07/05/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	124	1	07/05/06
Naphthalene	ND	ug/Kg dry	124	1	07/05/06
Phenanthrene	**218**	ug/Kg dry	124	1	07/05/06
Pyrene	**350**	ug/Kg dry	124	1	07/05/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*56 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*71 %*		*30-130*
Surrogate: Nitrobenzene-d5	*39 %*		*30-130*
Surrogate: p-Terphenyl-d14	*63 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1903
Date Sampled: 06/22/06 14:50
Percent Solids: 12
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-12
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	**266**	ug/Kg dry	198	1	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	198	1	07/05/06
Acenaphthene	ND	ug/Kg dry	198	1	07/05/06
Acenaphthylene	ND	ug/Kg dry	198	1	07/05/06
Anthracene	ND	ug/Kg dry	198	1	07/05/06
Benzo(a)anthracene	ND	ug/Kg dry	198	1	07/05/06
Benzo(a)pyrene	ND	ug/Kg dry	198	1	07/05/06
Benzo(b)fluoranthene	ND	ug/Kg dry	198	1	07/05/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	198	1	07/05/06
Benzo(k)fluoranthene	ND	ug/Kg dry	198	1	07/05/06
Chrysene	ND	ug/Kg dry	198	1	07/05/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	198	1	07/05/06
Fluoranthene	ND	ug/Kg dry	198	1	07/05/06
Fluorene	ND	ug/Kg dry	198	1	07/05/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	198	1	07/05/06
Naphthalene	ND	ug/Kg dry	198	1	07/05/06
Phenanthrene	ND	ug/Kg dry	198	1	07/05/06
Pyrene	ND	ug/Kg dry	198	1	07/05/06

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*56 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*68 %*		*30-130*
Surrogate: Nitrobenzene-d5	*42 %*		*30-130*
Surrogate: p-Terphenyl-d14	*60 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2301
Date Sampled: 06/22/06 15:30
Percent Solids: 76
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-13
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	32.2	1	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	32.2	1	07/05/06
Acenaphthene	ND	ug/Kg dry	32.2	1	07/05/06
Acenaphthylene	ND	ug/Kg dry	32.2	1	07/05/06
Anthracene	ND	ug/Kg dry	32.2	1	07/05/06
Benzo(a)anthracene	ND	ug/Kg dry	32.2	1	07/05/06
Benzo(a)pyrene	ND	ug/Kg dry	32.2	1	07/05/06
Benzo(b)fluoranthene	ND	ug/Kg dry	32.2	1	07/05/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	32.2	1	07/05/06
Benzo(k)fluoranthene	ND	ug/Kg dry	32.2	1	07/05/06
Chrysene	ND	ug/Kg dry	32.2	1	07/05/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	32.2	1	07/05/06
Fluoranthene	ND	ug/Kg dry	32.2	1	07/05/06
Fluorene	ND	ug/Kg dry	32.2	1	07/05/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	32.2	1	07/05/06
Naphthalene	ND	ug/Kg dry	32.2	1	07/05/06
Phenanthrene	ND	ug/Kg dry	32.2	1	07/05/06
Pyrene	ND	ug/Kg dry	32.2	1	07/05/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*39 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*47 %*		*30-130*
Surrogate: Nitrobenzene-d5	*48 %*		*30-130*
Surrogate: p-Terphenyl-d14	*45 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2303
Date Sampled: 06/22/06 15:40
Percent Solids: 78
Initial Volume: 20.6
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-14
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	31.1	1	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	31.1	1	07/05/06
Acenaphthene	ND	ug/Kg dry	31.1	1	07/05/06
Acenaphthylene	ND	ug/Kg dry	31.1	1	07/05/06
Anthracene	ND	ug/Kg dry	31.1	1	07/05/06
Benzo(a)anthracene	ND	ug/Kg dry	31.1	1	07/05/06
Benzo(a)pyrene	ND	ug/Kg dry	31.1	1	07/05/06
Benzo(b)fluoranthene	ND	ug/Kg dry	31.1	1	07/05/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	31.1	1	07/05/06
Benzo(k)fluoranthene	ND	ug/Kg dry	31.1	1	07/05/06
Chrysene	ND	ug/Kg dry	31.1	1	07/05/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	31.1	1	07/05/06
Fluoranthene	ND	ug/Kg dry	31.1	1	07/05/06
Fluorene	ND	ug/Kg dry	31.1	1	07/05/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	31.1	1	07/05/06
Naphthalene	ND	ug/Kg dry	31.1	1	07/05/06
Phenanthrene	ND	ug/Kg dry	31.1	1	07/05/06
Pyrene	ND	ug/Kg dry	31.1	1	07/05/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*37 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*42 %*		*30-130*
Surrogate: Nitrobenzene-d5	*46 %*		*30-130*
Surrogate: p-Terphenyl-d14	*41 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2101
Date Sampled: 06/22/06 15:00
Percent Solids: 73
Initial Volume: 20.9
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-15
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	32.8	1	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	32.8	1	07/05/06
Acenaphthene	ND	ug/Kg dry	32.8	1	07/05/06
Acenaphthylene	ND	ug/Kg dry	32.8	1	07/05/06
Anthracene	ND	ug/Kg dry	32.8	1	07/05/06
Benzo(a)anthracene	ND	ug/Kg dry	32.8	1	07/05/06
Benzo(a)pyrene	ND	ug/Kg dry	32.8	1	07/05/06
Benzo(b)fluoranthene	ND	ug/Kg dry	32.8	1	07/05/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	32.8	1	07/05/06
Benzo(k)fluoranthene	ND	ug/Kg dry	32.8	1	07/05/06
Chrysene	ND	ug/Kg dry	32.8	1	07/05/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	32.8	1	07/05/06
Fluoranthene	ND	ug/Kg dry	32.8	1	07/05/06
Fluorene	ND	ug/Kg dry	32.8	1	07/05/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	32.8	1	07/05/06
Naphthalene	ND	ug/Kg dry	32.8	1	07/05/06
Phenanthrene	ND	ug/Kg dry	32.8	1	07/05/06
Pyrene	ND	ug/Kg dry	32.8	1	07/05/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*38 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*42 %*		*30-130*
Surrogate: Nitrobenzene-d5	*45 %*		*30-130*
Surrogate: p-Terphenyl-d14	*42 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2103
Date Sampled: 06/22/06 15:10
Percent Solids: 79
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-16
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	30.1	1	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	30.1	1	07/05/06
Acenaphthene	ND	ug/Kg dry	30.1	1	07/05/06
Acenaphthylene	ND	ug/Kg dry	30.1	1	07/05/06
Anthracene	ND	ug/Kg dry	30.1	1	07/05/06
Benzo(a)anthracene	ND	ug/Kg dry	30.1	1	07/05/06
Benzo(a)pyrene	ND	ug/Kg dry	30.1	1	07/05/06
Benzo(b)fluoranthene	ND	ug/Kg dry	30.1	1	07/05/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	30.1	1	07/05/06
Benzo(k)fluoranthene	ND	ug/Kg dry	30.1	1	07/05/06
Chrysene	ND	ug/Kg dry	30.1	1	07/05/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	30.1	1	07/05/06
Fluoranthene	ND	ug/Kg dry	30.1	1	07/05/06
Fluorene	ND	ug/Kg dry	30.1	1	07/05/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	30.1	1	07/05/06
Naphthalene	ND	ug/Kg dry	30.1	1	07/05/06
Phenanthrene	ND	ug/Kg dry	30.1	1	07/05/06
Pyrene	ND	ug/Kg dry	30.1	1	07/05/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*39 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*45 %*		*30-130*
Surrogate: Nitrobenzene-d5	*48 %*		*30-130*
Surrogate: p-Terphenyl-d14	*42 %*		*30-130*

Semi-Volatile Organics Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C(SIM) Polynuclear Aromatic Hydrocarbons										
Batch BF62717 -3541										
Benzo(a)anthracene	108	25.0	ug/Kg wet	125		86	40-140			
Benzo(a)pyrene	107	25.0	ug/Kg wet	125		86	40-140			
Benzo(b)fluoranthene	123	25.0	ug/Kg wet	125		98	40-140			
Benzo(g,h,i)perylene	124	25.0	ug/Kg wet	125		99	40-140			
Benzo(k)fluoranthene	102	25.0	ug/Kg wet	125		82	40-140			
Chrysene	124	25.0	ug/Kg wet	125		99	40-140			
Dibenzo(a,h)Anthracene	128	25.0	ug/Kg wet	125		102	40-140			
Fluoranthene	112	25.0	ug/Kg wet	125		90	40-140			
Fluorene	116	25.0	ug/Kg wet	125		93	40-140			
Indeno(1,2,3-cd)Pyrene	124	25.0	ug/Kg wet	125		99	40-140			
Naphthalene	102	25.0	ug/Kg wet	125		82	40-140			
Phenanthrene	108	25.0	ug/Kg wet	125		86	40-140			
Pyrene	99.0	25.0	ug/Kg wet	125		79	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*111*		ug/Kg wet	*125*		*89*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*124*		ug/Kg wet	*125*		*99*	*30-130*			
Surrogate: Nitrobenzene-d5	*67.0*		ug/Kg wet	*125*		*54*	*30-130*			
Surrogate: p-Terphenyl-d14	*110*		ug/Kg wet	*125*		*88*	*30-130*			
LCS Dup										
2-Methylnaphthalene	105	25.0	ug/Kg wet	125		84	40-140	2	30	
Acenaphthene	102	25.0	ug/Kg wet	125		82	40-140	5	30	
Acenaphthylene	104	25.0	ug/Kg wet	125		83	40-140	2	30	
Anthracene	108	25.0	ug/Kg wet	125		86	40-140	3	30	
Benzo(a)anthracene	101	25.0	ug/Kg wet	125		81	40-140	6	30	
Benzo(a)pyrene	105	25.0	ug/Kg wet	125		84	40-140	2	30	
Benzo(b)fluoranthene	97.0	25.0	ug/Kg wet	125		78	40-140	23	30	
Benzo(g,h,i)perylene	118	25.0	ug/Kg wet	125		94	40-140	5	30	
Benzo(k)fluoranthene	105	25.0	ug/Kg wet	125		84	40-140	2	30	
Chrysene	122	25.0	ug/Kg wet	125		98	40-140	1	30	
Dibenzo(a,h)Anthracene	122	25.0	ug/Kg wet	125		98	40-140	4	30	
Fluoranthene	111	25.0	ug/Kg wet	125		89	40-140	1	30	
Fluorene	116	25.0	ug/Kg wet	125		93	40-140	0	30	
Indeno(1,2,3-cd)Pyrene	120	25.0	ug/Kg wet	125		96	40-140	3	30	
Naphthalene	98.0	25.0	ug/Kg wet	125		78	40-140	5	30	
Phenanthrene	106	25.0	ug/Kg wet	125		85	40-140	1	30	
Pyrene	95.0	25.0	ug/Kg wet	125		76	40-140	4	30	
Surrogate: 1,2-Dichlorobenzene-d4	*106*		ug/Kg wet	*125*		*85*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*117*		ug/Kg wet	*125*		*94*	*30-130*			
Surrogate: Nitrobenzene-d5	*72.0*		ug/Kg wet	*125*		*58*	*30-130*			
Surrogate: p-Terphenyl-d14	*102*		ug/Kg wet	*125*		*82*	*30-130*			

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C(SIM) Polynuclear Aromatic Hydrocarbons										
Batch BF62717 - 3541										
Benzo(a)anthracene	108	25.0	ug/Kg wet	125		86	40-140			
Benzo(a)pyrene	107	25.0	ug/Kg wet	125		86	40-140			
Benzo(b)fluoranthene	123	25.0	ug/Kg wet	125		98	40-140			
Benzo(g,h,i)perylene	124	25.0	ug/Kg wet	125		99	40-140			
Benzo(k)fluoranthene	102	25.0	ug/Kg wet	125		82	40-140			
Chrysene	124	25.0	ug/Kg wet	125		99	40-140			
Dibenzo(a,h)Anthracene	128	25.0	ug/Kg wet	125		102	40-140			
Fluoranthene	112	25.0	ug/Kg wet	125		90	40-140			
Fluorene	116	25.0	ug/Kg wet	125		93	40-140			
Indeno(1,2,3-cd)Pyrene	124	25.0	ug/Kg wet	125		99	40-140			
Naphthalene	102	25.0	ug/Kg wet	125		82	40-140			
Phenanthrene	108	25.0	ug/Kg wet	125		86	40-140			
Pyrene	99.0	25.0	ug/Kg wet	125		79	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*111*		ug/Kg wet	*125*		*89*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*124*		ug/Kg wet	*125*		*99*	*30-130*			
Surrogate: Nitrobenzene-d5	*67.0*		ug/Kg wet	*125*		*54*	*30-130*			
Surrogate: p-Terphenyl-d14	*110*		ug/Kg wet	*125*		*88*	*30-130*			
LCS Dup										
2-Methylnaphthalene	105	25.0	ug/Kg wet	125		84	40-140	2	30	
Acenaphthene	102	25.0	ug/Kg wet	125		82	40-140	5	30	
Acenaphthylene	104	25.0	ug/Kg wet	125		83	40-140	2	30	
Anthracene	108	25.0	ug/Kg wet	125		86	40-140	3	30	
Benzo(a)anthracene	101	25.0	ug/Kg wet	125		81	40-140	6	30	
Benzo(a)pyrene	105	25.0	ug/Kg wet	125		84	40-140	2	30	
Benzo(b)fluoranthene	97.0	25.0	ug/Kg wet	125		78	40-140	23	30	
Benzo(g,h,i)perylene	118	25.0	ug/Kg wet	125		94	40-140	5	30	
Benzo(k)fluoranthene	105	25.0	ug/Kg wet	125		84	40-140	2	30	
Chrysene	122	25.0	ug/Kg wet	125		98	40-140	1	30	
Dibenzo(a,h)Anthracene	122	25.0	ug/Kg wet	125		98	40-140	4	30	
Fluoranthene	111	25.0	ug/Kg wet	125		89	40-140	1	30	
Fluorene	116	25.0	ug/Kg wet	125		93	40-140	0	30	
Indeno(1,2,3-cd)Pyrene	120	25.0	ug/Kg wet	125		96	40-140	3	30	
Naphthalene	98.0	25.0	ug/Kg wet	125		78	40-140	5	30	
Phenanthrene	106	25.0	ug/Kg wet	125		85	40-140	1	30	
Pyrene	95.0	25.0	ug/Kg wet	125		76	40-140	4	30	
Surrogate: 1,2-Dichlorobenzene-d4	*106*		ug/Kg wet	*125*		*85*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*117*		ug/Kg wet	*125*		*94*	*30-130*			
Surrogate: Nitrobenzene-d5	*72.0*		ug/Kg wet	*125*		*58*	*30-130*			
Surrogate: p-Terphenyl-d14	*102*		ug/Kg wet	*125*		*82*	*30-130*			

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

Semi-Volatile Organics Calibration Data

ANALYSIS SEQUENCE

BPG0004

Instrument: SVOAMS2 GLO 7/25/06

Calibration ID: ~~UNASSIGNED~~ ~~PAH2DZ~~ PAH2DZ

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPGO004-CAL1	QC		1		6E22059	6D26044	
BPGO004-CAL2	QC		2		6E22058	6D26044	
BPGO004-CAL3	QC		3		6E22057	6D26044	
BPGO004-CAL4	QC		4		6E22056	6D26044	
BPGO004-CAL5	QC		5		6E22054	6D26044	
BPGO004-CAL6	QC		6		6E22053	6D26044	
BPGO004-CAL7	QC		7		6E22052	6D26044	
BPGO004-SCV1	QC		8		6E22060	6D26044	
BPGO004-TUN1	QC		9		6F26111		

Samples Loaded By Date Data Processed By Date

ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

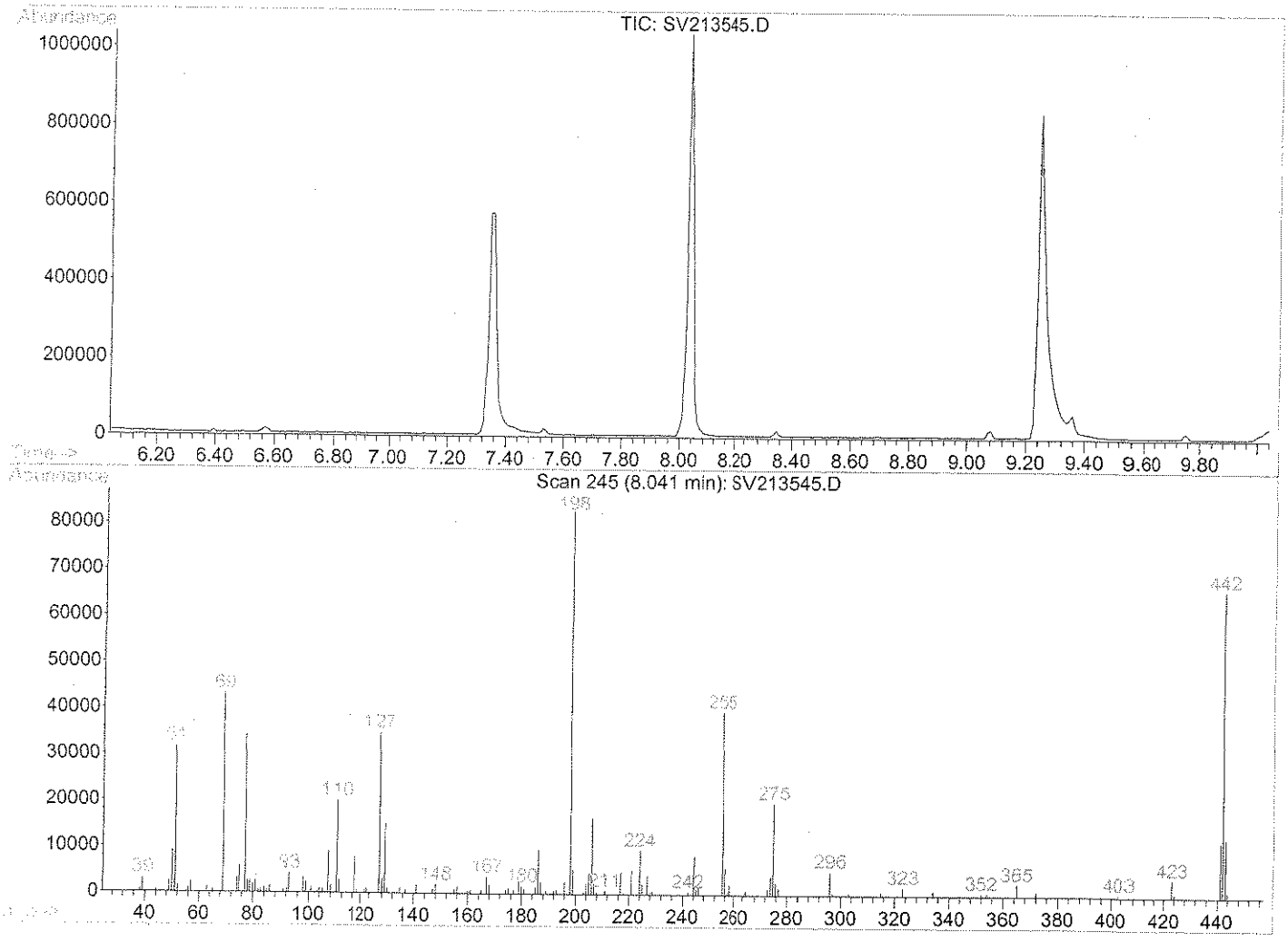
BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
7/1/06	4	SV2 25	0606221-04 ✓	PAH2DY	50X	
1	5	SV2 36	BF60269-Cal4	SVK4		
	6	SV2 37	-Cal1			
	7	SV2 38	-Cal2			
	8	SV2 39	-Cal3			
	9	SV2 40	-Cal5			
	10	SV2 41	-Cal6			
	11	SV2 42	-Cal7			
	12	SV2 43	-Cal8			
7/1/06	13	SV2 44	-SCV1	↓		
7/2/06	1	SV2 45	JCS 7/3/06 BPFG0004-TUN1	DFTPP	✓ 6F26111	JCS
	2	SV2 46	CCV1	PAH2DZY	X	
	3	SV2 47	BPG0004 Cal1	PAH2DY	✓ 6E22059	
	4	SV2 48	Cal2		✓ 58	
	5	SV2 49	Cal3		✓ 57	
	6	SV2 50	Cal4		✓ 56	
	7	SV2 51	Cal5		✓ 54	
	8	SV2 52	Cal6		✓ 53	
	9	SV2 53	Cal7		✓ 52	
7/2/06	10	SV2 54	BPG0004- SCV1	PAH2DZ	✓ 6E22060	JCS
7/3/06	1	SV2 55	BPG0005 TUN1	DFTPP	✓ 6F26111	JCS
	2	SV2 56	CCV1	PAH2DZ	6F28045	
	2	SV2 57	BPG0005 CCV1		✓ 6F28045	
	3	SV2 58	BF62605-BLK1		✓ CP13054	
	4	SV2 59	-BS1		✓	
	5	SV2 60	-BSD1		✓	
	6	SV2 61	0606373-02		✓	
	7	SV2 62	-04 ✓		✓	
7/3/06	8	SV2 63	-06 ✓	PAH2DZ		JCS

Control Number 60.0019-0601A

Page_____

035

Data File : Q:\SVOA\MS2_ME\ME0706\ME070206\SV213545.D Vial: 1
Acq On : 2 Jul 2006 10:49 am Operator: JLS
Sample : BPG0004-TUN1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\PAH2EC.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0607033



Spectrum Information: Scan 245

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.2	31712	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.0	43144	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	41.9	34784	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	82936	PASS
199	198	5	9	6.4	5303	PASS
275	198	10	30	24.0	19920	PASS
365	198	1	100	3.1	2558	PASS
441	443	0.01	100	94.2	11872	PASS
442	198	40	100	79.9	66248	PASS
443	442	17	23	19.0	12609	PASS

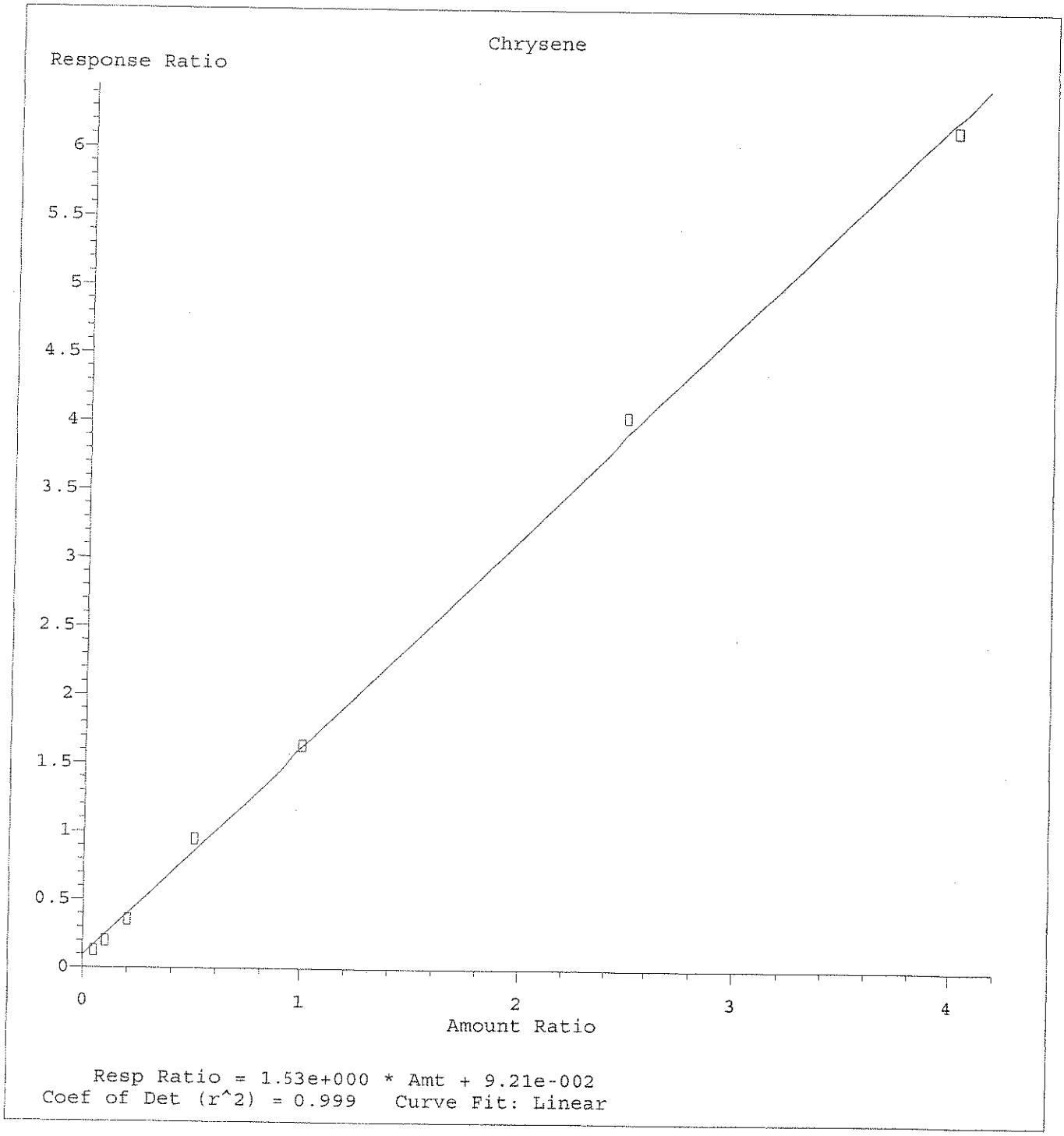
Response Factor Report GC/MS 2

Method : C:\HPCHEM\1\METHODS\PAH2DZ.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606036
Last Update : Mon Jul 03 06:13:54 2006
Response via : Initial Calibration

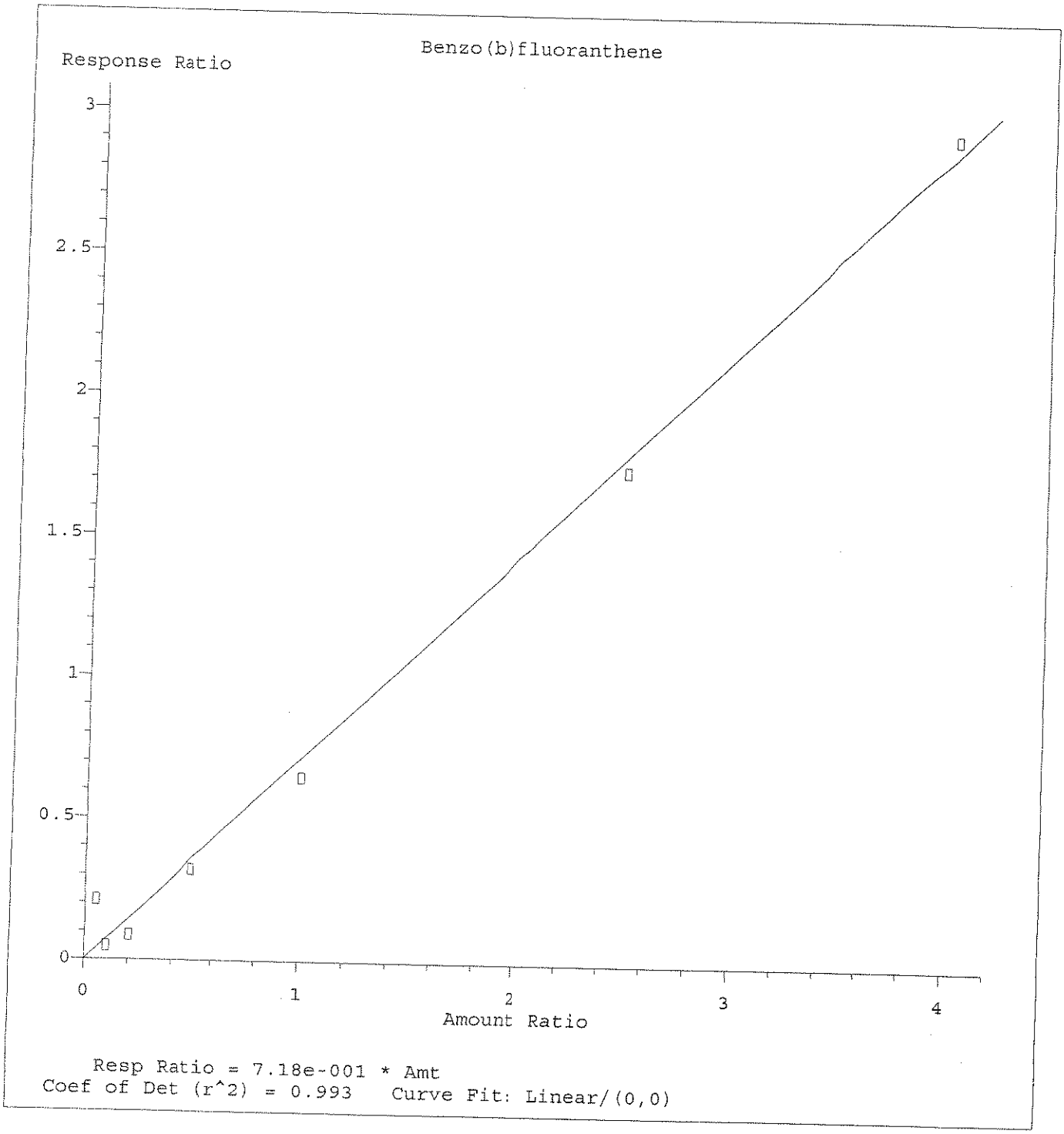
Calibration Files
0.2 =SV213547.D 0.4 =SV213548.D 1.0 =SV213550.D
2.0 =SV213551.D 5.0 =SV213552.D 8.0 =SV213553.D

		Compound	0.2	0.4	1.0	2.0	5.0	8.0	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)	S	1,2 Dichlorobenzene	0.865	0.807	1.007	0.849	0.832	0.792	0.883	10.80
3)		Naphthalene-d8	----------ISTD----------							
4)	S	Nitrobenzene-d5 (SU	0.395	0.363	0.383	0.355	0.370	0.368	0.381	7.19
5)		Naphthalene	1.122	1.011	1.042	0.980	0.993	0.951	1.065	13.05
6)		2-Methylnaphthalene	0.618	0.567	0.634	0.586	0.607	0.581	0.616	8.27
7)		1-Methylnaphthalene	0.645	0.604	0.648	0.586	0.599	0.571	0.631	10.25
8)		Acenaphthene-d10	----------ISTD----------							
9)	S	2-Fluorobiphenyl (S	1.177	1.252	1.346	1.208	1.225	1.188	1.244	5.13
10)		Acenaphthylene	1.765	1.766	1.904	1.772	1.864	1.802	1.863	7.75
11)	C	Acenaphthene	1.213	1.126	1.219	1.111	1.146	1.112	1.191	8.85#
12)		Fluorene	1.157	1.113	1.184	1.119	1.191	1.134	1.182	7.73
13)		Phenanthrene-d10	----------ISTD----------							
14)	S	2,4,6-Tribromopheno	0.162	0.078	0.121	0.071	0.068	0.084	0.117	53.04
15)	C	Pentachlorophenol	0.025	0.019	0.053	0.036	0.046	0.064	0.043#	39.62#
16)		Phenanthrene	0.932	0.892	0.927	0.887	0.955	0.926	0.942	6.67
17)		Anthracene	1.330	1.219	1.298	1.181	1.198	1.149	1.264	8.98
18)	C	Fluoranthene	0.956	0.921	0.911	0.851	0.880	0.858	0.933	11.20#
19)		Chrysene-d12	----------ISTD----------							
20)		Pyrene	1.768	1.514	1.805	1.670	1.632	1.614	1.735	11.83
21)	S	Terphenyl-d14 (SURR	0.900	0.790	0.899	0.828	0.804	0.764	0.865	12.16
22)		Benzo(a)anthracene	0.837	0.816	0.858	0.888	1.033	0.997	0.908	9.03
23)		Chrysene	1.998	1.768	1.897	1.635	1.618	1.536	1.854	18.23
24)		Perylene-d12	----------ISTD----------							
25)		Benzo(b)fluoranthen	0.483	0.436	0.640	0.647	0.697	0.732	1.121	121.96
26)		Benzo(k)fluoranthen	3.072	2.527	2.950	2.360	2.295	2.180	2.799	25.23
27)	C	Benzo(a)pyrene	1.641	1.296	1.373	1.264	1.327	1.305	1.467	19.80#
28)		Indeno(1,2,3-cd)pyr	1.754	1.205	1.001	0.849	0.940	0.932	1.347	51.28
29)		Dibenzo(a,h)anthrac	1.331	0.974	0.760	0.660	0.737	0.735	1.069	54.52
30)		Benzo(g,h,i)perylen	1.405	0.995	0.815	0.714	0.757	0.737	1.144	59.39

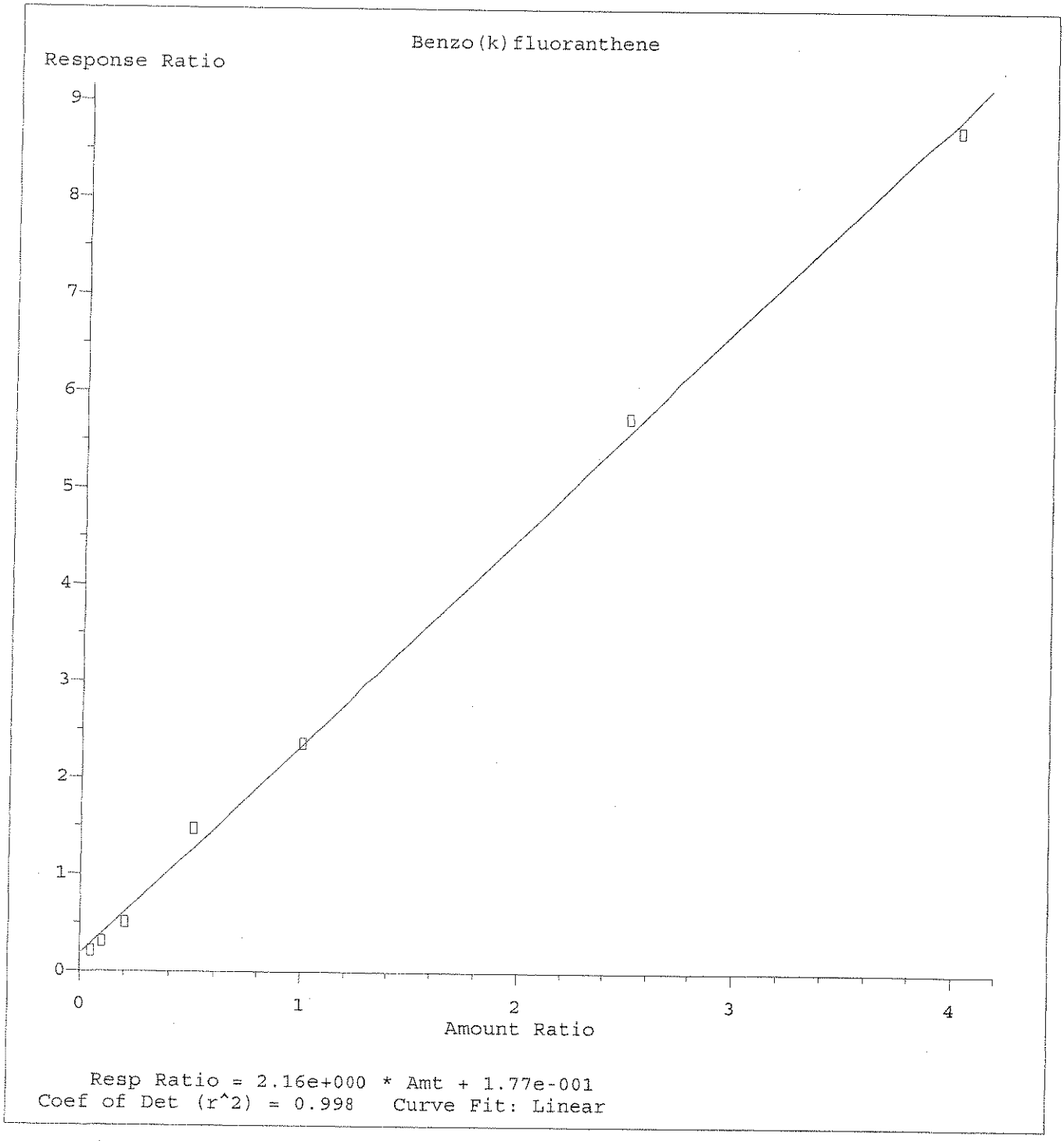
#) = Out of Range ### Number of calibration levels exceeded format ###



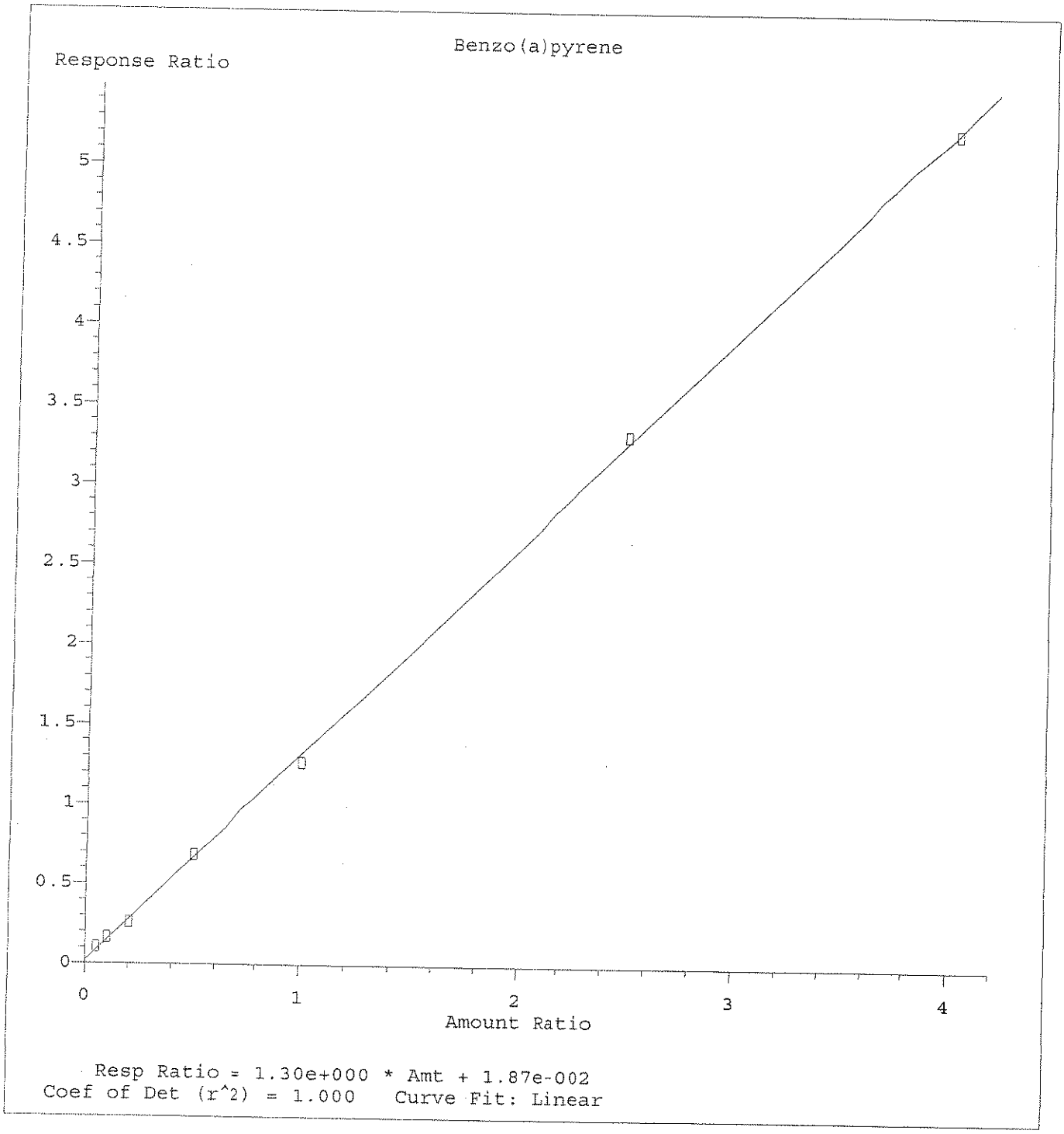
Method Name: C:\HPCHEM\1\METHODS\PAH2DZ.M
Calibration Table Last Updated: Mon Jul 03 06:13:54 2006



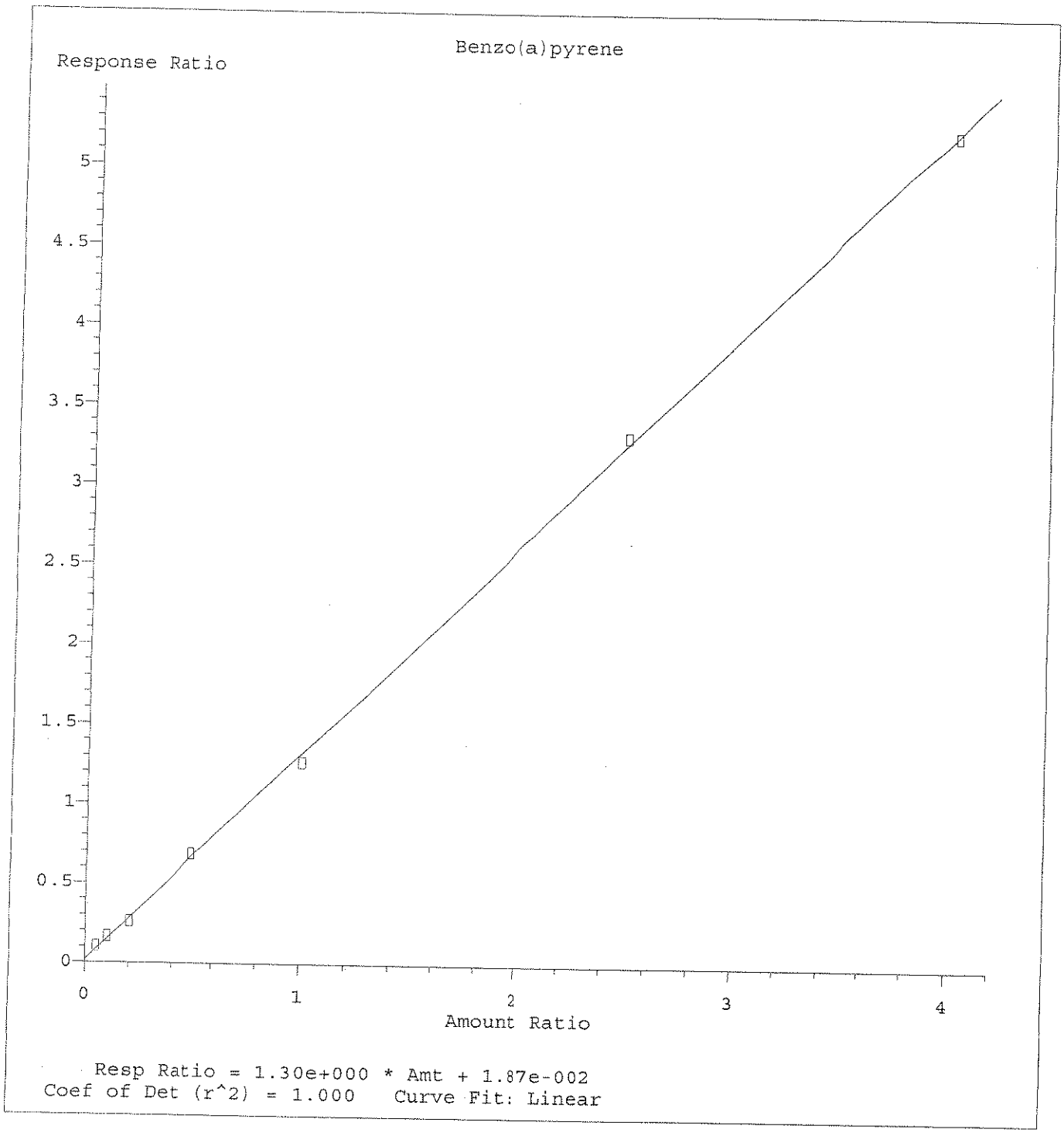
Method Name: C:\HPCHEM\1\METHODS\PAH2DZ.M
Calibration Table Last Updated: Mon Jul 03 06:13:54 2006



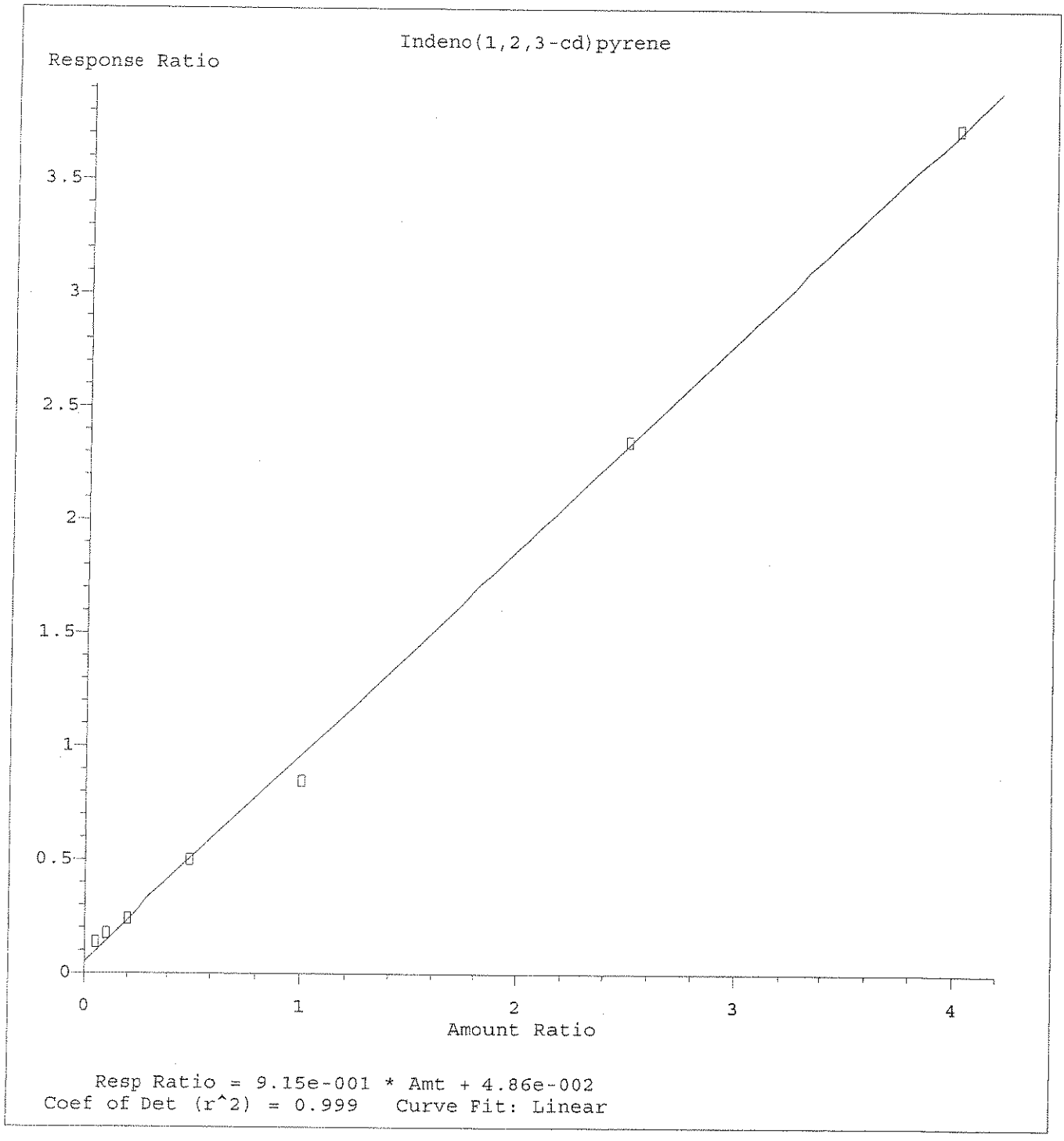
Method Name: C:\HPCHEM\1\METHODS\PAH2DZ.M
Calibration Table Last Updated: Mon Jul 03 06:13:54 2006



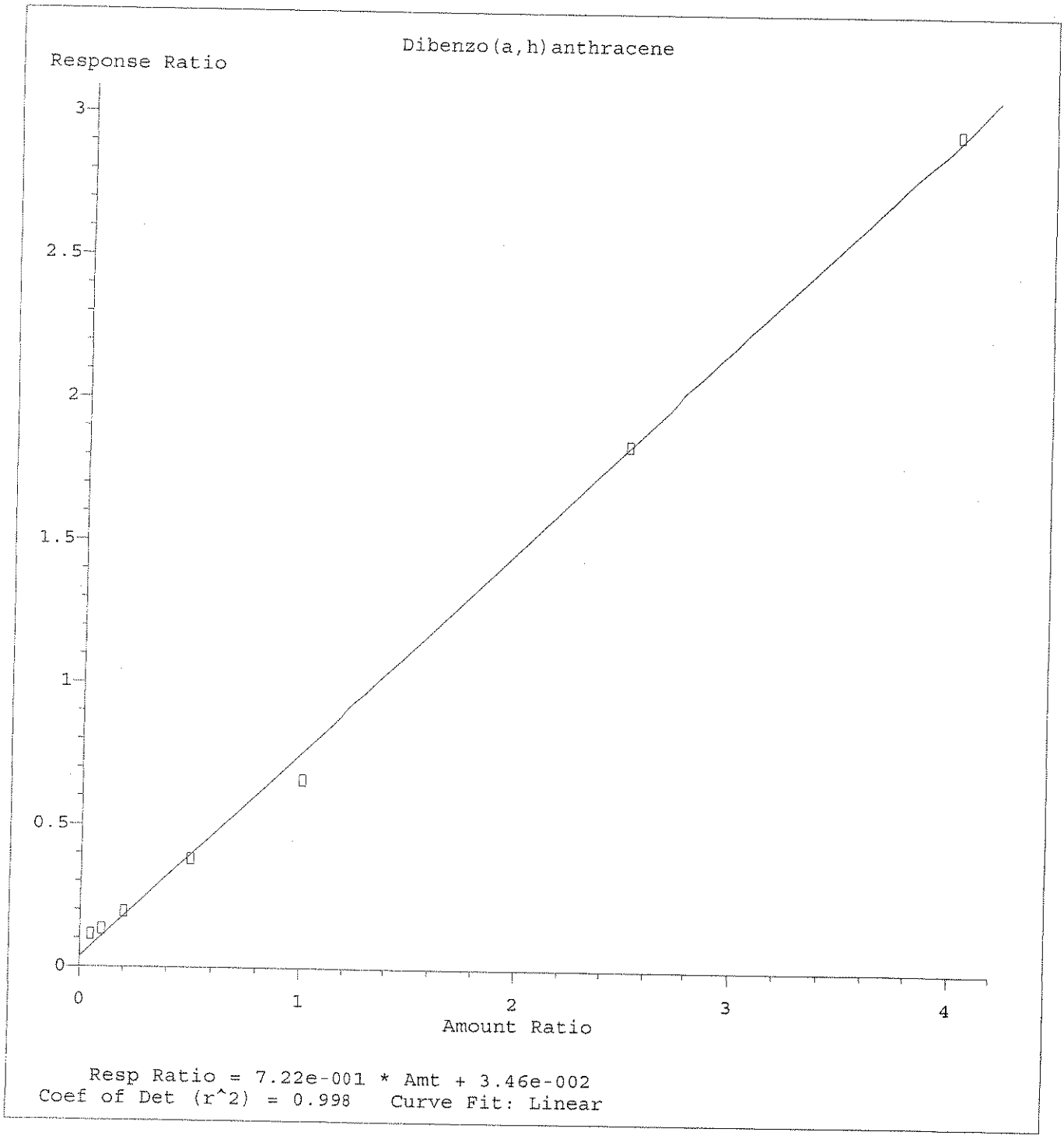
Method Name: C:\HPCHEM\1\METHODS\PAH2DZ.M
Calibration Table Last Updated: Mon Jul 03 06:13:54 2006



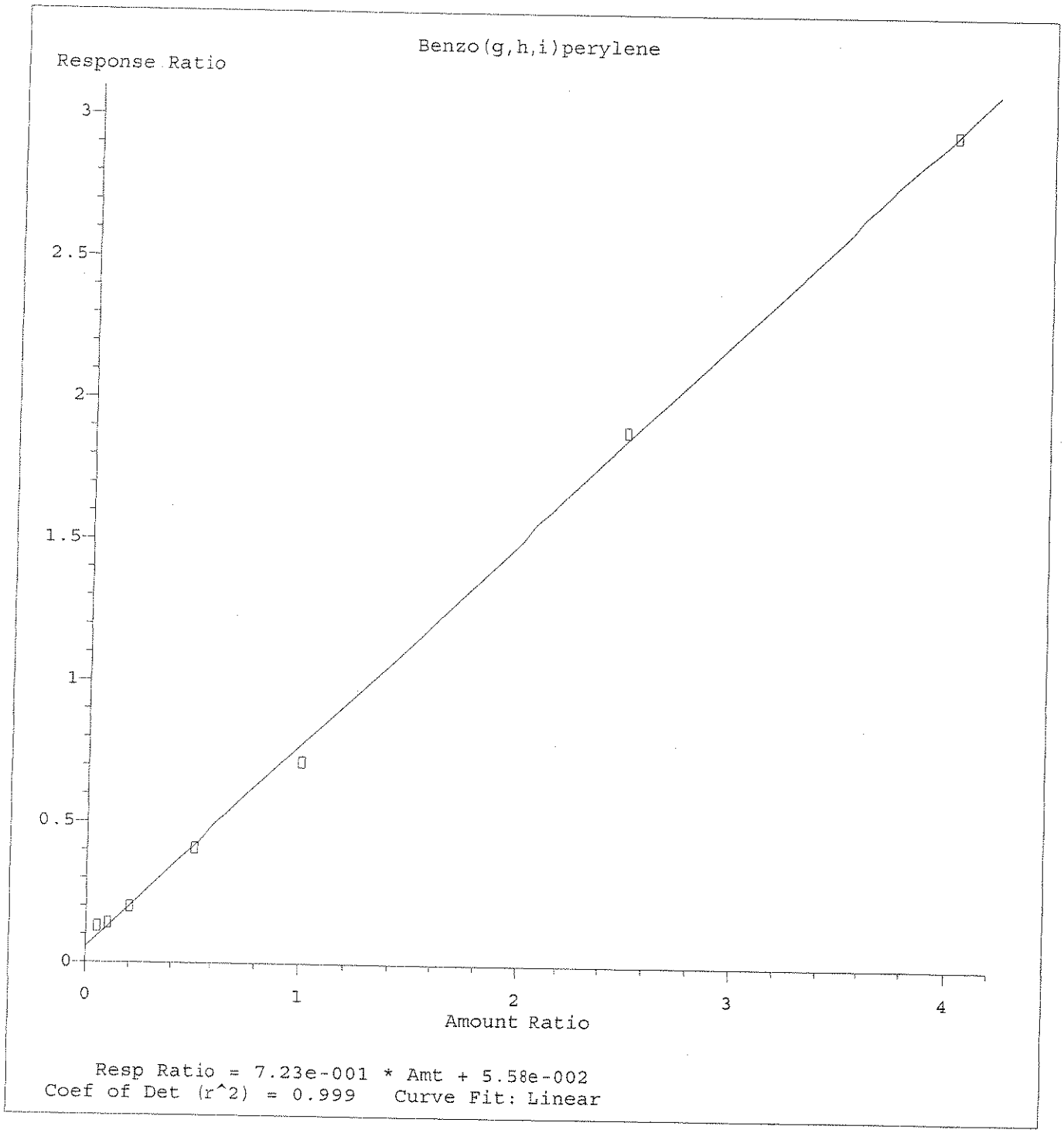
Method Name: C:\HPCHEM\1\METHODS\PAH2DZ.M
Calibration Table Last Updated: Mon Jul 03 06:13:54 2006



Method Name: C:\HPCHEM\1\METHODS\PAH2DZ.M
Calibration Table Last Updated: Mon Jul 03 06:13:54 2006



Method Name: C:\HPCHEM\1\METHODS\PAH2DZ.M
Calibration Table Last Updated: Mon Jul 03 06:13:54 2006



Method Name: C:\HPCHEM\1\METHODS\PAH2DZ.M
Calibration Table Last Updated: Mon Jul 03 06:13:54 2006

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\MS2_ME\ME0706\ME070206\SV213554.D Vial: 10
Acq On : 2 Jul 2006 3:13 pm Operator: JLS
Sample : BPG0004-SCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 3 6:15 2006 Quant Results File: PAH2DZ.RES

Quant Method : C:\HPCHEM\1\METHODS\PAH2DZ.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606036
Last Update : Mon Jul 03 06:13:54 2006
Response via : Initial Calibration
DataAcq Meth : PAH2DY

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.58	152	32848	2.00	ng/uL	0.00
3) Naphthalene-d8	4.94	136	106624	2.00	ng/uL	0.00
8) Acenaphthene-d10	7.58	164	53971	2.00	ng/uL	0.00
13) Phenanthrene-d10	10.39	188	63173	2.00	ng/uL	0.00
19) Chrysene-d12	15.98	240	33592	2.00	ng/uL	0.00
24) Perylene-d12	18.81	264	28788	2.00	ng/uL	0.00
System Monitoring Compounds						
2) 1,2 Dichlorobenzene-d4(SUR	3.77	152	13204m	0.91	ng/uL	0.00
Spiked Amount 2.500			Recovery	=	36.40%	
4) Nitrobenzene-d5 (SURR)	4.15	82	19186m	0.94	ng/uL	0.00
Spiked Amount 2.500			Recovery	=	37.60%	
9) 2-Fluorobiphenyl (SURR)	6.46	172	33989	1.01	ng/uL	0.00
Spiked Amount 2.500			Recovery	=	40.40%	
14) 2,4,6-Tribromophenol (SURR	0.00	330	0d	0.00	ng/uL	
Spiked Amount 3.750			Recovery	=	0.00%	
21) Terphenyl-d14 (SURR)	13.79	244	13241	0.91	ng/uL	0.00
Spiked Amount 2.500			Recovery	=	36.40%	
Target Compounds						Qvalue
5) Naphthalene	4.96	128	51379	0.91	ng/uL#	96
6) 2-Methylnaphthalene	5.87	142	29356m	0.89	ng/uL	
10) Acenaphthylene	7.31	152	40782	0.81	ng/uL#	99
11) Acenaphthene	7.64	153	29341	0.91	ng/uL	98
12) Fluorene	8.56	166	28841	0.90	ng/uL	98
16) Phenanthrene	10.43	178	27284	0.92	ng/uL#	99
17) Anthracene	10.53	178	36541	0.91	ng/uL#	96
18) Fluoranthene	12.92	202	26086	0.89	ng/uL	96
20) Pyrene	13.38	202	26035	0.89	ng/uL	98
22) Benzo(a)anthracene	15.95	228	14305	0.94	ng/uL	98
23) Chrysene	16.03	228	28925	1.00	ng/uL	95
25) Benzo(b)fluoranthene	18.13	252	8445m	0.82	ng/uL	
26) Benzo(k)fluoranthene	18.16	252	36112m	1.00	ng/uL	
27) Benzo(a)pyrene	18.72	252	17409	0.90	ng/uL	93
28) Indeno(1,2,3-cd)pyrene	20.77	276	12108	0.81	ng/uL#	96
29) Dibenzo(a,h)anthracene	20.79	278	9142	0.78	ng/uL#	93
30) Benzo(g,h,i)perylene	21.25	276	9743	0.78	ng/uL#	99

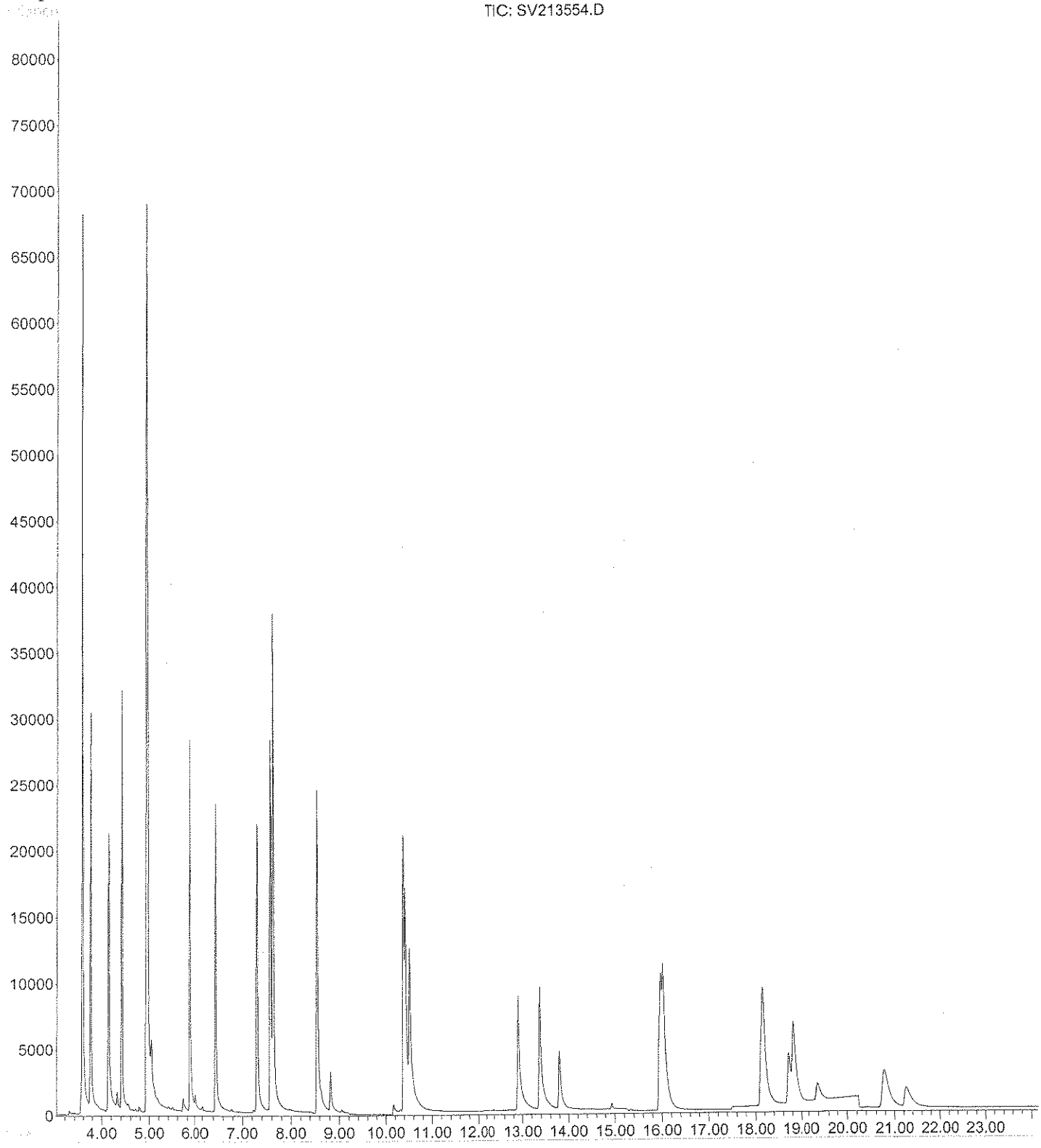
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\SVOA\MS2_ME\ME0706\ME070206\SV213554.D Vial: 10
Acq On : 2 Jul 2006 3:13 pm Operator: JLS
Sample : BPG0004-SCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 3 6:15 2006 Quant Results File: PAH2DZ.RES

Method : C:\HPCHEM\1\METHODS\PAH2DZ.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606036
Last Update : Mon Jul 03 06:13:54 2006
Response via : Initial Calibration

TIC: SV213554.D



ANALYSIS SEQUENCE

BPG0019

Instrument: SVOAMS2

Calibnration ID: ~~UNASSIGNED~~ PAH202

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0019-TUN1	QC		1		6F26111		
BPG0019-CCV1	QC		2		6F28045	6F13054	
0606374-01	VOC: 8270/3541 ppb PAH SI	A	3			6F13054	MACTEC Engineering & Consult
0606374-02	VOC: 8270/3541 ppb PAH SI	A	4			6F13054	MACTEC Engineering & Consult
0606374-03	VOC: 8270/3541 ppb PAH SI	A	5			6F13054	MACTEC Engineering & Consult
0606374-04	VOC: 8270/3541 ppb PAH SI	A	6			6F13054	MACTEC Engineering & Consult
0606374-05	VOC: 8270/3541 ppb PAH SI	A	7			6F13054	MACTEC Engineering & Consult
0606374-06	VOC: 8270/3541 ppb PAH SI	A	8			6F13054	MACTEC Engineering & Consult
0606374-07	VOC: 8270/3541 ppb PAH SI	A	9			6F13054	MACTEC Engineering & Consult
0606374-08	VOC: 8270/3541 ppb PAH SI	A	10			6F13054	MACTEC Engineering & Consult
0606374-09	VOC: 8270/3541 ppb PAH SI	A	11			6F13054	MACTEC Engineering & Consult
0606374-10	VOC: 8270/3541 ppb PAH SI	A	12			6F13054	MACTEC Engineering & Consult
0606374-11	VOC: 8270/3541 ppb PAH SI	A	13			6F13054	MACTEC Engineering & Consulti
0606374-12	VOC: 8270/3541 ppb PAH SI	A	14			6F13054	MACTEC Engineering & Consulti
BF62717-BLK1	QC		15			6F13054	
BF62717-BS1	QC		16			6F13054	
BF62717-BSD1	QC		17			6F13054	
0606373-12	VOC: 8270/3541 ppb PAH SI	B	18			6F13054	MACTEC Engineering & Consulti
0606373-09	VOC: 8270/3541 ppb PAH SI	B	19			6F13054	MACTEC Engineering & Consulti
0606373-05	VOC: 8270/3541 ppb PAH SI	B	20			6F13054	MACTEC Engineering & Consulti
BG60702-BLK1	QC		21			6F13054	
BG60702-BS1	QC		22			6F13054	
BG60702-BSD1	QC		23			6F13054	

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
7/3/06	9	SV2	0606373-21	PAH2DZ	6F13054	JCS
	10	SV2	-10			
	11	SV2	-15			
	12	SV2	-17			
	13	SV2	-14			
	14	SV2	-16			
	15	SV2	-18			
	16	SV2	-19			
	17	SV2	-08			
	18	SV2	-13			
	19	SV2	-20			
7/3/06	20	SV2	0606373-07	PAH2DZ		JCS
7/4/06	100	SV2	Solvent	PAH2DZ		CEB
	1	SV2	BF60019-THM1	PFTBP	6F26111	EEB
	2	SV2	BF60019-CCV1	PAH2DZ	6F28041	
	3	SV2	BF62717-BLK1		6F13054	
	4	SV2	BF62717-BS1			
	5	SV2	BF62717-BSD1			
	6	SV2	BF62824-BLK1			
	7	SV2	BF62824-BS1			
	8	SV2	BF62824-BSD1			
	9	SV2	0606274-01			
	10	SV2	-02			
	11	SV2	-03			
	12	SV2	-04			
	13	SV2	-05			
	14	SV2	-06			
	15	SV2	-07			
7/4/06	16	SV2	0606274-08	PAH2DZ	6F13054	EEB

Control Number 60.0019-0601A Page_____

ESS LABORATORY
GCMS2 RUN LOG

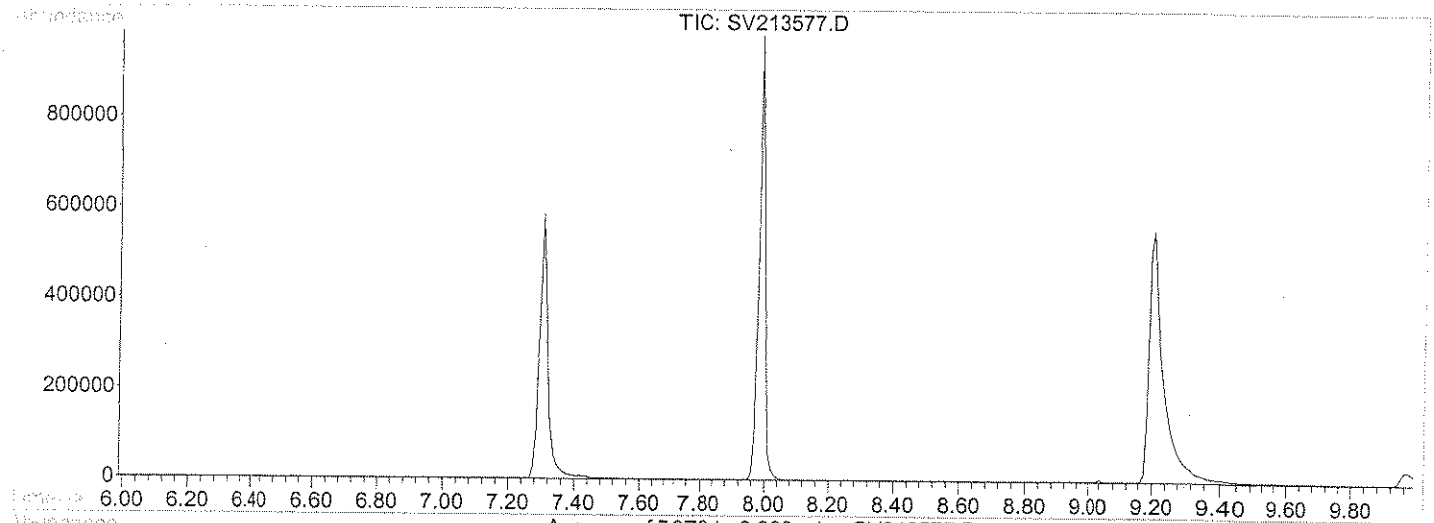
COLUMN DB5MS

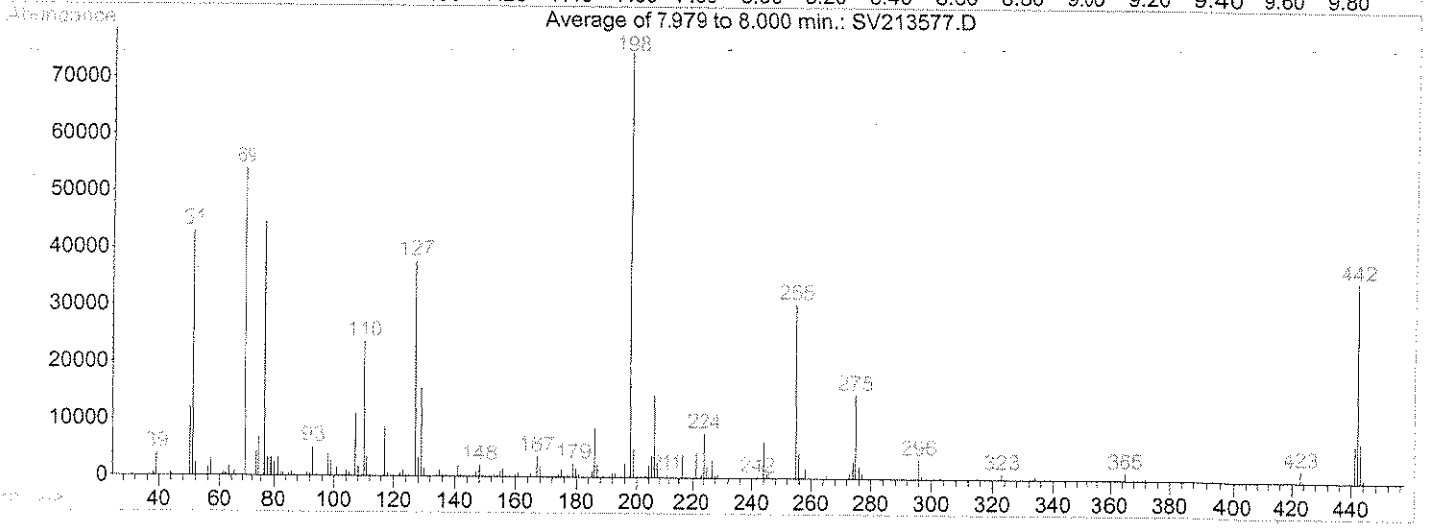
BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
7/4/06	17	SV2 13593	0606274-09	PAH2D2	CF13054	EEB
	18	SV2 94	-10			
	19	SV2 95	-11			
	20	SV2 96	-12			
	21	SV2 97	0606273-12			
	22	SV2 98	0606273-09			
	23	SV2 13599	0606273-05			
	24	SV2 13600	0606273-03		BR	
7/4/06	25	SV2 01	0606373-01	PAH2D2	BR	EEB
7/5/06	1	SV2 02	TRM1 MB	DFTPP		VSC
	2	SV2 03	CLV1	PAH2D2		VSL
	1	SV2 04	BP6012-TRM1	DFTPP	6F26111	VSL
	2	SV2 05	BP6012-CLV1	PAH2D2	6F28045	
	3	SV2 06	0606374-13		6F13054	
	4	SV2 07	0606374-14			
	5	SV2 08	0606374-16			
	6	SV2 09	0606374-15			
	7	SV2 10	0606373-03			
	8	SV2 11	0606373-01			
	9	SV2 12	0606383-02			
	10	SV2 13	0606373-20		5X	
	11	SV2 14	-04		5X	
	12	SV2 15	-05		5X	
	13	SV2 16	0606373-03		5X	
	14	SV2 17	0606383-12			
	15	SV2 18	-13		2x ES added	
	16	SV2 19	-14			
	17	SV2 20	-03			
7/5/06	18	SV2 21	0606383-04	PAH2D2		

Control Number 60.0019-0601A

Page_____

Data File : Q:\SVOA\MS2_ME\ME0706\ME070406\SV213577.D Vial: 1
Acq On : 4 Jul 2006 3:06 pm Operator: JLS
Sample : BPG0019-TUN1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\PAH2DZ.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606036





Spectrum Information: Average of 7.979 to 8.000 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	57.6	42899	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	72.3	53928	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	50.6	37741	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	74541	PASS
199	198	5	9	6.7	4984	PASS
275	198	10	30	19.7	14696	PASS
365	198	1	100	1.8	1308	PASS
441	443	0.01	100	94.5	6514	PASS
442	198	40	100	46.9	34961	PASS
443	442	17	23	19.7	6894	PASS

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\MS2_ME\ME0706\ME070406\SV213578.D Vial: 2
Acq On : 4 Jul 2006 3:26 pm Operator: JLS
Sample : BPG0019-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 16:41 2006 Quant Results File: PAH2DZ.RES

Quant Method : C:\HPCHEM\1\METHODS\PAH2DZ.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606036
Last Update : Mon Jul 03 06:13:54 2006
Response via : Initial Calibration
DataAcq Meth : PAH2DY

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.55	152	18608	2.00	ng/uL	-0.04
3) Naphthalene-d8	4.89	136	73621	2.00	ng/uL	-0.05
8) Acenaphthene-d10	7.52	164	33177	2.00	ng/uL	-0.06
13) Phenanthrene-d10	10.32	188	39020	2.00	ng/uL	-0.07
19) Chrysene-d12	15.91	240	22888	2.00	ng/uL	-0.07
24) Perylene-d12	18.74	264	28535	2.00	ng/uL	-0.08
System Monitoring Compounds						
2) 1,2 Dichlorobenzene-d4(SUR	3.73	152	8518	1.04	ng/uL	-0.04
Spiked Amount 2.500			Recovery = 41.60%			
4) Nitrobenzene-d5 (SURR)	4.12	82	9117	0.65	ng/uL	-0.03
Spiked Amount 2.500			Recovery = 26.00%			
9) 2-Fluorobiphenyl (SURR)	6.40	172	21660	1.05	ng/uL	-0.05
Spiked Amount 2.500			Recovery = 42.00%			
14) 2,4,6-Tribromophenol (SURR	9.22	330	175	0.01	ng/uL	0.00
Spiked Amount 3.750			Recovery = 0.27%			
21) Terphenyl-d14 (SURR)	13.73	244	9502	0.96	ng/uL	-0.07
Spiked Amount 2.500			Recovery = 38.40%			
Target Compounds						Qvalue
5) Naphthalene	4.91	128	32968	0.84	ng/uL#	96
6) 2-Methylnaphthalene	5.82	142	20003	0.88	ng/uL	99
7) 1-Methylnaphthalene	5.98	142	20317	0.88	ng/uL	94
10) Acenaphthylene	7.25	152	33193	1.07	ng/uL#	94
11) Acenaphthene	7.57	153	19790	1.00	ng/uL	99
12) Fluorene	8.50	166	21172	1.08	ng/uL	99
15) Pentachlorophenol	10.26	266	144	0.44	ng/uL#	100
16) Phenanthrene	10.37	178	17931	0.98	ng/uL#	99
17) Anthracene	10.46	178	26031	1.06	ng/uL#	94
18) Fluoranthene	12.85	202	17697	0.97	ng/uL	97
20) Pyrene	13.31	202	18480	0.93	ng/uL	97
22) Benzo(a)anthracene	15.87	228	9240	0.89	ng/uL	98
23) Chrysene	15.96	228	21853	1.12	ng/uL	93
25) Benzo(b)fluoranthene	18.06	252	8606m	0.84	ng/uL	
26) Benzo(k)fluoranthene	18.08	252	32462m	0.89	ng/uL	
27) Benzo(a)pyrene	18.64	252	18964	0.99	ng/uL	96
28) Indeno(1,2,3-cd)pyrene	20.66	276	15343	1.07	ng/uL#	97
29) Dibenzo(a,h)anthracene	20.68	278	11896	1.06	ng/uL#	95
30) Benzo(g,h,i)perylene	21.14	276	12849	1.09	ng/uL#	100

(#) = qualifier out of range (m) = manual integration

ANALYSIS SEQUENCE

BPG0012

Instrument: SVOAMS2

Calibnration ID: ~~UNASSIGNED~~ PAH2D2

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0012-TUN1	QC		1		6F26111		
BPG0012-CCV1	QC		2		6F28045	6F13054	
0606374-13	VOC: 8270/3541 ppb PAH SI	A	3			6F13054	MACTEC Engineering & Consulting, In
0606374-14	VOC: 8270/3541 ppb PAH SI	A	4			6F13054	MACTEC Engineering & Consulting, In
0606374-15	VOC: 8270/3541 ppb PAH SI	A	5			6F13054	MACTEC Engineering & Consulting, In
0606374-16	VOC: 8270/3541 ppb PAH SI	A	6			6F13054	MACTEC Engineering & Consulting, In
0606373-03	VOC: 8270/3541 ppb PAH SI	B	7			6F13054	MACTEC Engineering & Consulting, In
0606373-01	VOC: 8270/3541 ppb PAH SI	B	8			6F13054	MACTEC Engineering & Consulting, In
0606383-02	VOC: 8270/3541 ppb PAH SI	A	9			6F13054	MACTEC Engineering & Consulting, In
0606383-05	VOC: 8270/3541 ppb PAH SI	A	10			6F13054	MACTEC Engineering & Consulting, In
0606383-12	VOC: 8270/3541 ppb PAH SI	A	11			6F13054	MACTEC Engineering & Consulting, In
0606383-13	VOC: 8270/3541 ppb PAH SI	A	12			6F13054	MACTEC Engineering & Consulting, In
0606373-20RE1	VOC: 8270/3541 ppb PAH SI	B	13			6F13054	MACTEC Engineering & Consulting, In
0606373-09RE1	VOC: 8270/3541 ppb PAH SI	B	14			6F13054	MACTEC Engineering & Consulting, In
0606373-05RE1	VOC: 8270/3541 ppb PAH SI	B	15			6F13054	MACTEC Engineering & Consulting, In
0606373-03RE1	VOC: 8270/3541 ppb PAH SI	B	16			6F13054	MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
7/4/06	17	SV2 135 93	0606274-09	PAH2D2	CF13054	EEB
	18	SV2 94	-10			
	19	SV2 95	-11			
	20	SV2 96	-12			
	21	SV2 97	0606273-12			
	22	SV2 98	0606273-09			
	23	SV2 135 99	0606273-05			
	24	SV2 136 00	0606273-03		BR	
7/4/06	25	SV2 01	0606273-01	PAH2D2	BR	EEB
7/5/06	1	SV2 02	Tun1 MB	DFTPP		VSC
	2	SV2 03	CLV1	PAH2D2		VSC
	1	SV2 04	BP600/2-Tun1	DFTPP	6F26111	VSC
	2	SV2 05	BP600/2-CLV1	PAH2D2	6F28045	
	3	SV2 06	0606374-13		6F13054	
	4	SV2 07	0606374-14			
	5	SV2 08	0606374-16			
	6	SV2 09	0606374-15			
	7	SV2 10	0606373-03			
	8	SV2 11	0606373-01			
	9	SV2 12	0606383-02			
	10	SV2 13	0606373-20		5X	
	11	SV2 14	-04		5X	
	12	SV2 15	-05		5X	
	13	SV2 16	0606373-03		5X	
	14	SV2 17	0606383-12			
	15	SV2 18	-13		2x IS added	
	16	SV2 19	-14			
	17	SV2 20	-03			
7/5/06	18	SV2 21	0606383-04	PAH2D2		

Control Number 60.0019-0601A Page_____

037

ESS LABORATORY
GCMS2 RUN LOG

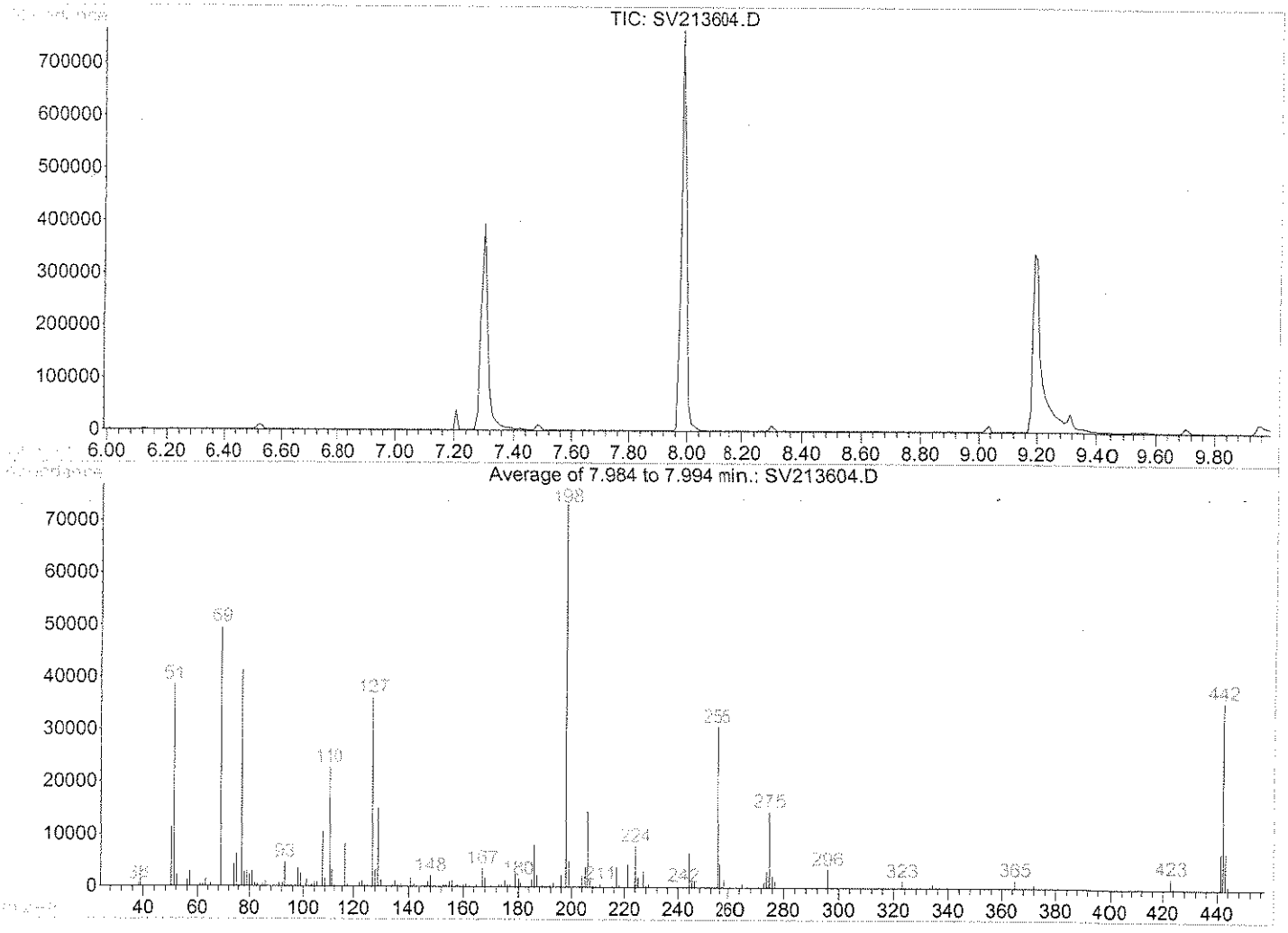
COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
7/5/06	19	SV2 13622	0606383-05	PAH2DZ	2x IS added	JSC
	20	SV2 23	-06			
	21	SV2 24	-07			
7/5/06	22	SV2 25	0606383-08	PAH2DZ	2x IS added	JSC
7/6/06	1	SV2 26	BPG0029-Tun1	DFTPP		JSC
	2	SV2 27	BPG0029-CCV1	PAH2DZ	NG Tool needed	
	2	SV2 28	BPG0029-CCV1		NG	
	3	SV2 29	BPG0029-Cal1	~~PAH2D~~ PAH2EA		
	4	SV2 30	-Cal2	PAH2EA		
	5	SV2 31	-Cal3			
	6	SV2 32	-Cal4			
	7	SV2 33	-Cal5			
	8	SV2 34	-Cal6			
	9	SV2 35	-Cal7			
7/6/06	10	SV2 36	-SCV1	PAH2EA		JSC
7/6/06	1	SV2 37	BPG0044-Tun1	DFTPP	6F26111	JSC
	10 ~~18~~	SV2 38	BPG0044-CCV1	PAH2EA	6F28045	
	11	SV2 39	0606383-09		RR IS Failed 6F3094	
	12	SV2 40	-11		RR	
	13	SV2 41	-01		RR	
	14	SV2 42	-10		RR	
	15	SV2 43	03		2xIS ✓ PAH2EA2	
	16	SV2 44	04		2xIS ✓	
	17	SV2 45	06		2xIS ✓	
	18	SV2 46	13		2xIS ✓	
	19	SV2 47	14		2xIS ✓	
	20	SV2 48	07		2xIS ✓	
7/6/06	21	SV2 49	0606383 08	PAH2EA	2xIS ✓	JSC
		SV2 ~~X~~	~~NA~~			

Control Number 60.0019-0601A

Page____

Data File : Q:\SVOA\MS2_ME\ME0706\ME070506\SV213604.D Vial: 1
Acq On : 5 Jul 2006 8:42 am Operator: VSC
Sample : BPG0012-TUN1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\PAH2DZ.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606036



Spectrum Information: Average of 7.984 to 7.994 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	52.6	38508	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	67.6	49536	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	49.2	36028	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	73232	PASS
199	198	5	9	6.6	4860	PASS
275	198	10	30	19.8	14464	PASS
365	198	1	100	2.1	1523	PASS
441	443	0.01	100	98.1	6885	PASS
442	198	40	100	48.8	35772	PASS
443	442	17	23	19.6	7015	PASS

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\MS2_ME\ME0706\ME070506\SV213605.D Vial: 2
Acq On : 5 Jul 2006 9:04 am Operator: VSC
Sample : BPG0012-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 5 9:31 2006 Quant Results File: PAH2DZ.RES

Quant Method : C:\HPCHEM\1\METHODS\PAH2DZ.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606036
Last Update : Mon Jul 03 06:13:54 2006
Response via : Initial Calibration
DataAcq Meth : PAH2DZ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.53	152	25608	2.00	ng/uL	-0.05
3) Naphthalene-d8	4.88	136	83085	2.00	ng/uL	-0.06
8) Acenaphthene-d10	7.51	164	40211	2.00	ng/uL	-0.08
13) Phenanthrene-d10	10.31	188	51255	2.00	ng/uL	-0.08
19) Chrysene-d12	15.88	240	34858	2.00	ng/uL	-0.10
24) Perylene-d12	18.71	264	37299	2.00	ng/uL	-0.10
System Monitoring Compounds						
2) 1,2 Dichlorobenzene-d4(SUR	3.71	152	11742	1.04	ng/uL	-0.05
Spiked Amount 2.500			Recovery = 41.60%			
4) Nitrobenzene-d5 (SURR)	4.10	82	15967m	1.01	ng/uL	-0.06
Spiked Amount 2.500			Recovery = 40.40%			
9) 2-Fluorobiphenyl (SURR)	6.38	172	26375	1.05	ng/uL	-0.07
Spiked Amount 2.500			Recovery = 42.00%			
14) 2,4,6-Tribromophenol (SURR	9.22	330	132	-0.04	ng/uL	0.00
Spiked Amount 3.750			Recovery = -1.07%			
21) Terphenyl-d14 (SURR)	13.70	244	14023	0.93	ng/uL	-0.09
Spiked Amount 2.500			Recovery = 37.20%			
Target Compounds						Qvalue
5) Naphthalene	4.90	128	42341	0.96	ng/uL#	96
6) 2-Methylnaphthalene	5.81	142	24922	0.97	ng/uL	98
7) 1-Methylnaphthalene	5.96	142	25344	0.97	ng/uL	94
10) Acenaphthylene	7.23	152	38881	1.04	ng/uL#	99
11) Acenaphthene	7.56	153	24405	1.02	ng/uL	98
12) Fluorene	8.48	166	24352	1.02	ng/uL	98
15) Pentachlorophenol	10.24	266	389	0.57	ng/uL#	100
16) Phenanthrene	10.35	178	23947	0.99	ng/uL#	99
17) Anthracene	10.44	178	33434	1.03	ng/uL#	94
18) Fluoranthene	12.83	202	26718	1.12	ng/uL	95
20) Pyrene	13.29	202	28089	0.93	ng/uL	99
22) Benzo(a)anthracene	15.85	228	16227	1.03	ng/uL	98
23) Chrysene	15.93	228	34362	1.17	ng/uL	95
25) Benzo(b)fluoranthene	18.03	252	12513m	0.93	ng/uL	
26) Benzo(k)fluoranthene	18.06	252	44014m	0.93	ng/uL	
27) Benzo(a)pyrene	18.61	252	25874	1.04	ng/uL	98
28) Indeno(1,2,3-cd)pyrene	20.64	276	16950	0.89	ng/uL#	95
29) Dibenzo(a,h)anthracene	20.65	278	13615	0.92	ng/uL#	97
30) Benzo(g,h,i)perylene	21.11	276	14362	0.91	ng/uL#	99

(#) = qualifier out of range (m) = manual integration

Semi-Volatile Organics Logbooks

ESS Organic Preparation Logbook

Project #: 0606374, 0606383
Prep Date: 6/27/06
Batch ID: SXBF62717
Extraction Method: 3541

Surrogate ID#
A 6F26064
B 6F20042
C NA

Matrix Spike ID#
D 6F21077
E NA
F

Analytical Matrix: soil
Extraction Time:
Start: 11:00
Finish: —

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
SXBF62717-B	20.0	1	NA	1	1	NA	6/27/06	40	NA	NA		EM	NM	JS
-BS	20.0	1	1	1	1									
-BSD	20.0	1	1	1	1									
-LLBS	20.0	1B	0.05	1	1									
-LLBSD	20.0	1B	0.05	1	1									
0606374-01	19.5	1	NA	1	1									
-02	20.1	1		1	1									
-03	20.4	1		1	1									
-04	20.9	1		1	1									
-05	19.6	1		1	1									
-06	19.5	1		1	1									
-07	19.9	1		1	1									
-08	20.4	1		1	1									
-09	21.0	1		1	1									
-10	19.9	1		1	1									
-11	19.2	1		1	1									
-12	21.0	1		1	1									
-13	20.4	1		1	1									
-14	20.6	1		1	1									
-15	20.9	1		1	1									
-16	21.0	1		1	1									
0606383-01	19.8	1		1	1									
-02	19.0	1		1	1									
-03	21.0	1		1	1									
-11	19.4	1	NA	1	1	NA	6/27/06	40	NA	NA		EM	NM	JS

583

Analysis Performed
PCB ☐
B/N SVOA ☐
SVOA ☒
LL PAH ☐
PEST ☐
TPH/GC ☐
BIS-2 ☐
PAH ☐

Acid Washed: Y / (N) H2SO4 ID# NA
Cu Cleaned: Y / (N) Cu ID# NA
Florisiled: Y / (N) Lot# NA
Silica Column/Carbon prep: Y / (N) Lot # NA

CH_2Cl_2 lot # CQ689
Hexane lot# NA
Acetone lot# NA
NaOH ID# NA
Na_2SO_4 ID# AEII0626068

Prepared By: EM
Glasswool: AD0614064
Method #(s): 8270

**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A

BATCH ID/Test: B62717

BATCH ID/Test:

Page

147

ESS Organic Preparation Logbook

Project #: D606374, D606383
Prep Date: 6/27/06
Batch ID: SXBF62717
Extraction Method: 3541

Surrogate ID#
A 6f26064
B 6f20042
C NA

Matrix Spike ID#
D 6f21077
E NA
F NA

Analytical Matrix: soil

Extraction Time:
Start: 11:00
Finish: —

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
D606383-11MS	21.0	1	1	1	1	NA	6/27/06	40	NA	NA			NMT	JS
-11MSD	20.2	1	1	1	1	NA	6/27/06	40	NA				NMT	JS

Analysis Performed
PCB ☐
B/N SVOA ☐
SVOA ☒
LL PAH ☐
PEST ☐
TPH/GC ☐
BIS-2 ☐
PAH ☐

584

Acid Washed: Y (N) H_2SO_4 ID# NA
Cu Cleaned: Y (N) Cu ID# NA
Florisiled: Y (N) Lot# NA
Silica Column/Carbon prep: Y (N) Lot #

Prepared By: [signature] Glasswool: ATD061406 Method #(s): 8270

CH_2Cl_2 lot# C26089 NaOH ID# NA
Hexane lot# NA Na_2SO_4 ID# ATD062606
Acetone lot# NA

**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A

BATCH ID/Test: BF62717

BATCH ID/Test: _____

Page _____

Pesticides
Data Package

Pesticides
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1301
Date Sampled: 06/22/06 11:30
Percent Solids: 80
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-01
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/23/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	6.31	1	06/26/06
4,4'-DDE	ND	ug/Kg dry	6.31	1	06/26/06
4,4'-DDT	ND	ug/Kg dry	6.31	1	06/26/06
Aldrin	ND	ug/Kg dry	6.31	1	06/26/06
alpha-BHC	ND	ug/Kg dry	6.31	1	06/26/06
alpha-Chlordane	ND	ug/Kg dry	6.31	1	06/26/06
beta-BHC	ND	ug/Kg dry	6.31	1	06/26/06
Chlordane (Total)	ND	ug/Kg dry	63.1	1	06/26/06
delta-BHC	ND	ug/Kg dry	6.31	1	06/26/06
Dieldrin	ND	ug/Kg dry	6.31	1	06/26/06
Endosulfan I	ND	ug/Kg dry	6.31	1	06/26/06
Endosulfan II	ND	ug/Kg dry	6.31	1	06/26/06
Endosulfan Sulfate	ND	ug/Kg dry	6.31	1	06/26/06
Endrin	ND	ug/Kg dry	6.31	1	06/26/06
Endrin Aldehyde	ND	ug/Kg dry	6.31	1	06/26/06
Endrin Ketone	ND	ug/Kg dry	6.31	1	06/26/06
gamma-BHC (Lindane)	ND	ug/Kg dry	6.31	1	06/26/06
gamma-Chlordane	ND	ug/Kg dry	6.31	1	06/26/06
Heptachlor	ND	ug/Kg dry	6.31	1	06/26/06
Heptachlor Epoxide	ND	ug/Kg dry	6.31	1	06/26/06
Hexachlorobenzene	ND	ug/Kg dry	6.31	1	06/26/06
Methoxychlor	ND	ug/Kg dry	6.31	1	06/26/06
Toxaphene	ND	ug/Kg dry	316	1	06/26/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*103 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*65 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1401
Date Sampled: 06/22/06 12:10
Percent Solids: 26
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-03
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/23/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4´-DDD	ND	ug/Kg dry	19.2	1	06/26/06
4,4´-DDE	ND	ug/Kg dry	19.2	1	06/26/06
4,4´-DDT	ND	ug/Kg dry	19.2	1	06/26/06
Aldrin	ND	ug/Kg dry	19.2	1	06/26/06
alpha-BHC	ND	ug/Kg dry	19.2	1	06/26/06
alpha-Chlordane	ND	ug/Kg dry	19.2	1	06/26/06
beta-BHC	ND	ug/Kg dry	19.2	1	06/26/06
Chlordane (Total)	ND	ug/Kg dry	192	1	06/26/06
delta-BHC	ND	ug/Kg dry	19.2	1	06/26/06
Dieldrin	ND	ug/Kg dry	19.2	1	06/26/06
Endosulfan I	ND	ug/Kg dry	19.2	1	06/26/06
Endosulfan II	ND	ug/Kg dry	19.2	1	06/26/06
Endosulfan Sulfate	ND	ug/Kg dry	19.2	1	06/26/06
Endrin	ND	ug/Kg dry	19.2	1	06/26/06
Endrin Aldehyde	ND	ug/Kg dry	19.2	1	06/26/06
Endrin Ketone	ND	ug/Kg dry	19.2	1	06/26/06
gamma-BHC (Lindane)	ND	ug/Kg dry	19.2	1	06/26/06
gamma-Chlordane	ND	ug/Kg dry	19.2	1	06/26/06
Heptachlor	ND	ug/Kg dry	19.2	1	06/26/06
Heptachlor Epoxide	ND	ug/Kg dry	19.2	1	06/26/06
Hexachlorobenzene	ND	ug/Kg dry	19.2	1	06/26/06
Methoxychlor	ND	ug/Kg dry	19.2	1	06/26/06
Toxaphene	ND	ug/Kg dry	962	1	06/26/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*113 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*95 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*68 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1501
Date Sampled: 06/22/06 12:30
Percent Solids: 81
Initial Volume: 20.8
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-05
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/23/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	5.94	1	06/26/06
4,4'-DDE	ND	ug/Kg dry	5.94	1	06/26/06
4,4'-DDT	ND	ug/Kg dry	5.94	1	06/26/06
Aldrin	ND	ug/Kg dry	5.94	1	06/26/06
alpha-BHC	ND	ug/Kg dry	5.94	1	06/26/06
alpha-Chlordane	ND	ug/Kg dry	5.94	1	06/26/06
beta-BHC	ND	ug/Kg dry	5.94	1	06/26/06
Chlordane (Total)	ND	ug/Kg dry	59.4	1	06/26/06
delta-BHC	ND	ug/Kg dry	5.94	1	06/26/06
Dieldrin	ND	ug/Kg dry	5.94	1	06/26/06
Endosulfan I	ND	ug/Kg dry	5.94	1	06/26/06
Endosulfan II	ND	ug/Kg dry	5.94	1	06/26/06
Endosulfan Sulfate	ND	ug/Kg dry	5.94	1	06/26/06
Endrin	ND	ug/Kg dry	5.94	1	06/26/06
Endrin Aldehyde	ND	ug/Kg dry	5.94	1	06/26/06
Endrin Ketone	ND	ug/Kg dry	5.94	1	06/26/06
gamma-BHC (Lindane)	ND	ug/Kg dry	5.94	1	06/26/06
gamma-Chlordane	ND	ug/Kg dry	5.94	1	06/26/06
Heptachlor	ND	ug/Kg dry	5.94	1	06/26/06
Heptachlor Epoxide	ND	ug/Kg dry	5.94	1	06/26/06
Hexachlorobenzene	ND	ug/Kg dry	5.94	1	06/26/06
Methoxychlor	ND	ug/Kg dry	5.94	1	06/26/06
Toxaphene	ND	ug/Kg dry	297	1	06/26/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*134 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*104 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*74 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1601
Date Sampled: 06/22/06 13:15
Percent Solids: 14
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-07
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/23/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	35.7	1	06/27/06
4,4'-DDE	ND	ug/Kg dry	35.7	1	06/27/06
4,4'-DDT	ND	ug/Kg dry	35.7	1	06/27/06
Aldrin	ND	ug/Kg dry	35.7	1	06/27/06
alpha-BHC	ND	ug/Kg dry	35.7	1	06/27/06
alpha-Chlordane	ND	ug/Kg dry	35.7	1	06/27/06
beta-BHC	ND	ug/Kg dry	35.7	1	06/27/06
Chlordane (Total)	ND	ug/Kg dry	357	1	06/27/06
delta-BHC	ND	ug/Kg dry	35.7	1	06/27/06
Dieldrin	ND	ug/Kg dry	35.7	1	06/27/06
Endosulfan I	ND	ug/Kg dry	35.7	1	06/27/06
Endosulfan II	ND	ug/Kg dry	35.7	1	06/27/06
Endosulfan Sulfate	ND	ug/Kg dry	35.7	1	06/27/06
Endrin	ND	ug/Kg dry	35.7	1	06/27/06
Endrin Aldehyde	ND	ug/Kg dry	35.7	1	06/27/06
Endrin Ketone	ND	ug/Kg dry	35.7	1	06/27/06
gamma-BHC (Lindane)	ND	ug/Kg dry	35.7	1	06/27/06
gamma-Chlordane	ND	ug/Kg dry	35.7	1	06/27/06
Heptachlor	ND	ug/Kg dry	35.7	1	06/27/06
Heptachlor Epoxide	ND	ug/Kg dry	35.7	1	06/27/06
Hexachlorobenzene	ND	ug/Kg dry	35.7	1	06/27/06
Methoxychlor	ND	ug/Kg dry	35.7	1	06/27/06
Toxaphene	ND	ug/Kg dry	1790	1	06/27/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*115 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*64 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*60 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1801
Date Sampled: 06/22/06 14:00
Percent Solids: 13
Initial Volume: 19
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-09
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/23/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	40.5	1	06/27/06
4,4'-DDE	ND	ug/Kg dry	40.5	1	06/27/06
4,4'-DDT	ND	ug/Kg dry	40.5	1	06/27/06
Aldrin	ND	ug/Kg dry	40.5	1	06/27/06
alpha-BHC	ND	ug/Kg dry	40.5	1	06/27/06
alpha-Chlordane	ND	ug/Kg dry	40.5	1	06/27/06
beta-BHC	ND	ug/Kg dry	40.5	1	06/27/06
Chlordane (Total)	ND	ug/Kg dry	405	1	06/27/06
delta-BHC	ND	ug/Kg dry	40.5	1	06/27/06
Dieldrin	ND	ug/Kg dry	40.5	1	06/27/06
Endosulfan I	ND	ug/Kg dry	40.5	1	06/27/06
Endosulfan II	ND	ug/Kg dry	40.5	1	06/27/06
Endosulfan Sulfate	ND	ug/Kg dry	40.5	1	06/27/06
Endrin	ND	ug/Kg dry	40.5	1	06/27/06
Endrin Aldehyde	ND	ug/Kg dry	40.5	1	06/27/06
Endrin Ketone	ND	ug/Kg dry	40.5	1	06/27/06
gamma-BHC (Lindane)	ND	ug/Kg dry	40.5	1	06/27/06
gamma-Chlordane	ND	ug/Kg dry	40.5	1	06/27/06
Heptachlor	ND	ug/Kg dry	40.5	1	06/27/06
Heptachlor Epoxide	ND	ug/Kg dry	40.5	1	06/27/06
Hexachlorobenzene	ND	ug/Kg dry	40.5	1	06/27/06
Methoxychlor	ND	ug/Kg dry	40.5	1	06/27/06
Toxaphene	ND	ug/Kg dry	2020	1	06/27/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*136 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*114 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*94 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*84 %*		*30-150*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1901
Date Sampled: 06/22/06 14:35
Percent Solids: 21
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-11
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/23/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	24.7	1	06/27/06
4,4'-DDE	ND	ug/Kg dry	24.7	1	06/27/06
4,4'-DDT	ND	ug/Kg dry	24.7	1	06/27/06
Aldrin	ND	ug/Kg dry	24.7	1	06/27/06
alpha-BHC	ND	ug/Kg dry	24.7	1	06/27/06
alpha-Chlordane	ND	ug/Kg dry	24.7	1	06/27/06
beta-BHC	ND	ug/Kg dry	24.7	1	06/27/06
Chlordane (Total)	ND	ug/Kg dry	247	1	06/27/06
delta-BHC	ND	ug/Kg dry	24.7	1	06/27/06
Dieldrin	ND	ug/Kg dry	24.7	1	06/27/06
Endosulfan I	ND	ug/Kg dry	24.7	1	06/27/06
Endosulfan II	ND	ug/Kg dry	24.7	1	06/27/06
Endosulfan Sulfate	ND	ug/Kg dry	24.7	1	06/27/06
Endrin	ND	ug/Kg dry	24.7	1	06/27/06
Endrin Aldehyde	ND	ug/Kg dry	24.7	1	06/27/06
Endrin Ketone	**43.1**	ug/Kg dry	24.7	1	06/27/06
gamma-BHC (Lindane)	ND	ug/Kg dry	24.7	1	06/27/06
gamma-Chlordane	ND	ug/Kg dry	24.7	1	06/27/06
Heptachlor	ND	ug/Kg dry	24.7	1	06/27/06
Heptachlor Epoxide	ND	ug/Kg dry	24.7	1	06/27/06
Hexachlorobenzene	ND	ug/Kg dry	24.7	1	06/27/06
Methoxychlor	ND	ug/Kg dry	24.7	1	06/27/06
Toxaphene	ND	ug/Kg dry	1230	1	06/27/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*130 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*95 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*88 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*74 %*		*30-150*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2301
Date Sampled: 06/22/06 15:30
Percent Solids: 76
Initial Volume: 19.2
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-13
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/23/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	6.85	1	06/27/06
4,4'-DDE	ND	ug/Kg dry	6.85	1	06/27/06
4,4'-DDT	ND	ug/Kg dry	6.85	1	06/27/06
Aldrin	ND	ug/Kg dry	6.85	1	06/27/06
alpha-BHC	ND	ug/Kg dry	6.85	1	06/27/06
alpha-Chlordane	ND	ug/Kg dry	6.85	1	06/27/06
beta-BHC	ND	ug/Kg dry	6.85	1	06/27/06
Chlordane (Total)	ND	ug/Kg dry	68.5	1	06/27/06
delta-BHC	ND	ug/Kg dry	6.85	1	06/27/06
Dieldrin	ND	ug/Kg dry	6.85	1	06/27/06
Endosulfan I	ND	ug/Kg dry	6.85	1	06/27/06
Endosulfan II	ND	ug/Kg dry	6.85	1	06/27/06
Endosulfan Sulfate	ND	ug/Kg dry	6.85	1	06/27/06
Endrin	ND	ug/Kg dry	6.85	1	06/27/06
Endrin Aldehyde	ND	ug/Kg dry	6.85	1	06/27/06
Endrin Ketone	ND	ug/Kg dry	6.85	1	06/27/06
gamma-BHC (Lindane)	ND	ug/Kg dry	6.85	1	06/27/06
gamma-Chlordane	ND	ug/Kg dry	6.85	1	06/27/06
Heptachlor	ND	ug/Kg dry	6.85	1	06/27/06
Heptachlor Epoxide	ND	ug/Kg dry	6.85	1	06/27/06
Hexachlorobenzene	ND	ug/Kg dry	6.85	1	06/27/06
Methoxychlor	ND	ug/Kg dry	6.85	1	06/27/06
Toxaphene	ND	ug/Kg dry	343	1	06/27/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*127 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*70 %*		*30-150*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2101
Date Sampled: 06/22/06 15:00
Percent Solids: 73
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-15
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/23/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	6.92	1	06/27/06
4,4'-DDE	ND	ug/Kg dry	6.92	1	06/27/06
4,4'-DDT	ND	ug/Kg dry	6.92	1	06/27/06
Aldrin	ND	ug/Kg dry	6.92	1	06/27/06
alpha-BHC	ND	ug/Kg dry	6.92	1	06/27/06
alpha-Chlordane	ND	ug/Kg dry	6.92	1	06/27/06
beta-BHC	ND	ug/Kg dry	6.92	1	06/27/06
Chlordane (Total)	ND	ug/Kg dry	69.2	1	06/27/06
delta-BHC	ND	ug/Kg dry	6.92	1	06/27/06
Dieldrin	ND	ug/Kg dry	6.92	1	06/27/06
Endosulfan I	ND	ug/Kg dry	6.92	1	06/27/06
Endosulfan II	ND	ug/Kg dry	6.92	1	06/27/06
Endosulfan Sulfate	ND	ug/Kg dry	6.92	1	06/27/06
Endrin	ND	ug/Kg dry	6.92	1	06/27/06
Endrin Aldehyde	ND	ug/Kg dry	6.92	1	06/27/06
Endrin Ketone	ND	ug/Kg dry	6.92	1	06/27/06
gamma-BHC (Lindane)	ND	ug/Kg dry	6.92	1	06/27/06
gamma-Chlordane	ND	ug/Kg dry	6.92	1	06/27/06
Heptachlor	ND	ug/Kg dry	6.92	1	06/27/06
Heptachlor Epoxide	ND	ug/Kg dry	6.92	1	06/27/06
Hexachlorobenzene	ND	ug/Kg dry	6.92	1	06/27/06
Methoxychlor	ND	ug/Kg dry	6.92	1	06/27/06
Toxaphene	ND	ug/Kg dry	346	1	06/27/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*132 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*75 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*68 %*		*30-150*

Pesticides
Quality Control

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62904 - 5035										
Bromoform	24.4		ug/L	25.0		98	70-130	1	20	
Bromomethane	24.0		ug/L	25.0		96	70-130	2	20	
Carbon Disulfide	25.7		ug/L	25.0		103	70-130	2	20	
Carbon Tetrachloride	24.2		ug/L	25.0		97	70-130	4	20	
Chlorobenzene	25.6		ug/L	25.0		102	70-130	1	20	
Chloroethane	23.6		ug/L	25.0		94	70-130	0	20	
Chloroform	24.8		ug/L	25.0		99	70-130	2	20	
Chloromethane	22.1		ug/L	25.0		88	70-130	1	20	
cis-1,2-Dichloroethene	26.8		ug/L	25.0		107	70-130	0.9	20	
cis-1,3-Dichloropropene	23.9		ug/L	25.0		96	70-130	1	20	
Dibromochloromethane	24.7		ug/L	25.0		99	70-130	1	20	
Dibromomethane	24.9		ug/L	25.0		100	70-130	2	20	
Dichlorodifluoromethane	24.6		ug/L	25.0		98	70-130	3	20	
Diethyl Ether	26.0		ug/L	25.0		104	70-130	1	20	
Di-isopropyl ether	25.1		ug/L	25.0		100	70-130	0	20	
Ethyl tertiary-butyl ether	24.8		ug/L	25.0		99	70-130	1	20	
Ethylbenzene	26.0		ug/L	25.0		104	70-130	0	20	
Hexachlorobutadiene	26.9		ug/L	25.0		108	70-130	0.9	20	
Isopropylbenzene	24.0		ug/L	25.0		96	70-130	1	20	
Methyl tert-Butyl Ether	25.7		ug/L	25.0		103	70-130	3	20	
Methylene Chloride	25.2		ug/L	25.0		101	70-130	1	20	
Naphthalene	26.7		ug/L	25.0		107	70-130	6	20	
n-Butylbenzene	25.3		ug/L	25.0		101	70-130	0	20	
n-Propylbenzene	25.9		ug/L	25.0		104	70-130	1	20	
sec-Butylbenzene	25.5		ug/L	25.0		102	70-130	1	20	
Styrene	26.1		ug/L	25.0		104	70-130	1	20	
tert-Butylbenzene	25.8		ug/L	25.0		103	70-130	0	20	
Tertiary-amyl methyl ether	26.4		ug/L	25.0		106	70-130	2	20	
Tetrachloroethene	24.2		ug/L	25.0		97	70-130	1	20	
Tetrahydrofuran	23.4		ug/L	25.0		94	70-130	1	20	
Toluene	25.2		ug/L	25.0		101	70-130	1	20	
trans-1,2-Dichloroethene	26.3		ug/L	25.0		105	70-130	1	20	
trans-1,3-Dichloropropene	21.6		ug/L	25.0		86	70-130	0	20	
Trichloroethene	25.0		ug/L	25.0		100	70-130	3	20	
Trichlorofluoromethane	22.2		ug/L	25.0		89	70-130	0	20	
Vinyl Acetate	22.5		ug/L	25.0		90	70-130	1	20	
Vinyl Chloride	25.6		ug/L	25.0		102	70-130	2	20	
Xylene O	26.2		ug/L	25.0		105	70-130	2	20	
Xylene P,M	50.7		ug/L	50.0		101	70-130	0	20	
Surrogate: 1,2-Dichloroethane-d4	*2200*		ug/Kg wet	*2500*		*88*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2460*		ug/Kg wet	*2500*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*2470*		ug/Kg wet	*2500*		*99*	*70-130*			
Surrogate: Toluene-d8	*2540*		ug/Kg wet	*2500*		*102*	*70-130*			
8081A Organochlorine Pesticides										
Batch BF62723 - 3541										
Blank										

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch BF62723 - 3541										
4,4´-DDD	ND	5.00	ug/Kg wet							
4,4´-DDE	ND	5.00	ug/Kg wet							
4,4´-DDT	ND	5.00	ug/Kg wet							
Aldrin	ND	5.00	ug/Kg wet							
alpha-BHC	ND	5.00	ug/Kg wet							
alpha-Chlordane	ND	5.00	ug/Kg wet							
beta-BHC	ND	5.00	ug/Kg wet							
Chlordane (Total)	ND	50.0	ug/Kg wet							
delta-BHC	ND	5.00	ug/Kg wet							
Dieldrin	ND	5.00	ug/Kg wet							
Endosulfan I	ND	5.00	ug/Kg wet							
Endosulfan II	ND	5.00	ug/Kg wet							
Endosulfan Sulfate	ND	5.00	ug/Kg wet							
Endrin	ND	5.00	ug/Kg wet							
Endrin Aldehyde	ND	5.00	ug/Kg wet							
Endrin Ketone	ND	5.00	ug/Kg wet							
gamma-BHC (Lindane)	ND	5.00	ug/Kg wet							
gamma-Chlordane	ND	5.00	ug/Kg wet							
Heptachlor	ND	5.00	ug/Kg wet							
Heptachlor Epoxide	ND	5.00	ug/Kg wet							
Hexachlorobenzene	ND	5.00	ug/Kg wet							
Methoxychlor	ND	5.00	ug/Kg wet							
Toxaphene	ND	250	ug/Kg wet							
Surrogate: Decachlorobiphenyl	*34.7*		ug/Kg wet	*25.0*		*139*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*30.8*		ug/Kg wet	*25.0*		*123*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*23.6*		ug/Kg wet	*25.0*		*94*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*21.6*		ug/Kg wet	*25.0*		*86*	*30-150*			
LCS										
4,4´-DDD	27.8	5.00	ug/Kg wet	25.0		111	40-140			
4,4´-DDE	27.2	5.00	ug/Kg wet	25.0		109	40-140			
4,4´-DDT	34.5	5.00	ug/Kg wet	25.0		138	40-140			
Aldrin	24.3	5.00	ug/Kg wet	25.0		97	40-140			
alpha-BHC	22.7	5.00	ug/Kg wet	25.0		91	40-140			
alpha-Chlordane	27.1	5.00	ug/Kg wet	25.0		108	40-140			
beta-BHC	25.1	5.00	ug/Kg wet	25.0		100	40-140			
delta-BHC	16.6	5.00	ug/Kg wet	25.0		66	40-140			
Dieldrin	29.3	5.00	ug/Kg wet	25.0		117	40-140			
Endosulfan I	30.3	5.00	ug/Kg wet	25.0		121	40-140			
Endosulfan II	28.6	5.00	ug/Kg wet	25.0		114	40-140			
Endosulfan Sulfate	28.5	5.00	ug/Kg wet	25.0		114	40-140			
Endrin	29.3	5.00	ug/Kg wet	25.0		117	40-140			
Endrin Aldehyde	34.3	5.00	ug/Kg wet	25.0		137	40-140			
Endrin Ketone	31.5	5.00	ug/Kg wet	25.0		126	40-140			
gamma-BHC (Lindane)	24.9	5.00	ug/Kg wet	25.0		100	40-140			
gamma-Chlordane	32.9	5.00	ug/Kg wet	25.0		132	40-140			
Heptachlor	24.2	5.00	ug/Kg wet	25.0		97	40-140			

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch BF62723 - 3541										
Heptachlor Epoxide	29.1	5.00	ug/Kg wet	25.0		116	40-140			
Hexachlorobenzene	11.9	5.00	ug/Kg wet	25.0		48	40-140			
Methoxychlor	32.6	5.00	ug/Kg wet	25.0		130	40-140			
Surrogate: Decachlorobiphenyl	*35.2*		ug/Kg wet	*25.0*		*141*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*28.3*		ug/Kg wet	*25.0*		*113*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*22.3*		ug/Kg wet	*25.0*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*21.6*		ug/Kg wet	*25.0*		*86*	*30-150*			
LCS Dup										
4,4'-DDD	28.9	5.00	ug/Kg wet	25.0		116	40-140	4	30	
4,4'-DDE	27.2	5.00	ug/Kg wet	25.0		109	40-140	0	30	
4,4'-DDT	33.7	5.00	ug/Kg wet	25.0		135	40-140	2	30	
Aldrin	25.9	5.00	ug/Kg wet	25.0		104	40-140	6	30	
alpha-BHC	22.5	5.00	ug/Kg wet	25.0		90	40-140	0.9	30	
alpha-Chlordane	25.8	5.00	ug/Kg wet	25.0		103	40-140	5	30	
beta-BHC	27.3	5.00	ug/Kg wet	25.0		109	40-140	8	30	
delta-BHC	18.5	5.00	ug/Kg wet	25.0		74	40-140	11	30	
Dieldrin	25.9	5.00	ug/Kg wet	25.0		104	40-140	12	30	
Endosulfan I	29.1	5.00	ug/Kg wet	25.0		116	40-140	4	30	
Endosulfan II	31.4	5.00	ug/Kg wet	25.0		126	40-140	9	30	
Endosulfan Sulfate	25.1	5.00	ug/Kg wet	25.0		100	40-140	13	30	
Endrin	27.1	5.00	ug/Kg wet	25.0		108	40-140	8	30	
Endrin Aldehyde	30.5	5.00	ug/Kg wet	25.0		122	40-140	12	30	
Endrin Ketone	28.9	5.00	ug/Kg wet	25.0		116	40-140	9	30	
gamma-BHC (Lindane)	24.1	5.00	ug/Kg wet	25.0		96	40-140	3	30	
gamma-Chlordane	29.9	5.00	ug/Kg wet	25.0		120	40-140	10	30	
Heptachlor	24.7	5.00	ug/Kg wet	25.0		99	40-140	2	30	
Heptachlor Epoxide	27.5	5.00	ug/Kg wet	25.0		110	40-140	6	30	
Hexachlorobenzene	11.0	5.00	ug/Kg wet	25.0		44	40-140	8	30	
Methoxychlor	33.0	5.00	ug/Kg wet	25.0		132	40-140	1	30	
Surrogate: Decachlorobiphenyl	*32.8*		ug/Kg wet	*25.0*		*131*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*26.1*		ug/Kg wet	*25.0*		*104*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*22.1*		ug/Kg wet	*25.0*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*20.1*		ug/Kg wet	*25.0*		*80*	*30-150*			
8082 Polychlorinated Biphenyls (PCB)										
Batch BF62329 - 3541										
Blank										
Aroclor 1016	ND	33.3	ug/Kg wet							
Aroclor 1221	ND	33.3	ug/Kg wet							
Aroclor 1232	ND	33.3	ug/Kg wet							
Aroclor 1242	ND	33.3	ug/Kg wet							
Aroclor 1248	ND	33.3	ug/Kg wet							
Aroclor 1254	ND	33.3	ug/Kg wet							
Aroclor 1260	ND	33.3	ug/Kg wet							
Aroclor 1262	ND	33.3	ug/Kg wet							

598

Pesticides
Calibration Data

ANALYSIS SEQUENCE

BPG0249

Instrument: SVOAGC6

Calibnration ID: ~~UNASSIGNED~~ 5081EH

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0249-PEM1	QC		1		6E02036		
BPG0249-CAL1	QC		2		6E30081		
BPG0249-CAL2	QC		3		6E30082		
BPG0249-CAL3	QC		4		6E30083		
BPG0249-CAL4	QC		5		6E30084		
BPG0249-CAL5	QC		6		6E30085		
BPG0249-CAL6	QC		7		6E30086		
BPG0249-CAL7	QC		8		6E30087		
BPG0249-SCV1	QC		9		6E30089		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/21/06	6E0620 06-1	1	Prime	8081EG		SdP
	2	2	Pem		high baseline.	
	3	3	Pest 5ppb			
	6E0621GA-1	1	Prime	8081EH		
	2	2	Pem ✓		03:32 Pm	
	3	3	Pest 5ppb ✓		6F21086 CAL 1	
	4	4	10ppb ✓		087 2	
	5	5	20ppb ✓		088 3	
	6	6	50ppb ✓		089 4	
	7	7	60ppb ✓		090 5	
	8	8	80ppb		Thrown out 091 6	
	9	9	100ppb ✓		092 7	
	10	10	SS		093	
	11	11	Pest SS ✓		6F21 094 SCV1	
	12	12	BF61910-BLK1 ✓			
	13	13	BS1 ✓			
	14	14	BSD1 ✓			
	15	15	0606253-01 ✓			
	16	16	01MS ✓			
	17	17	02 ~~01MSD~~ SdP ✓			
	18	18	03 ✓			
	19	19	04 ✓			
	20	20	05 ✓			
	21	21	06 ✓			
	22	22	Hexane			
6/21/06	6E0621GA 23	23	Pest 20 ppb ✓	8081EH	6F21085 01:21 Am	SdP

CONTROL NUMBER 60.0012-0602A

PAGE________

015

ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/21/06	23	GE062216A-23	Pest 20 ppb	8081 EH	6F21085	SB
↓	24	↓ 24	Chlor 250 ppb ✓	↓	6F21095	↓
6/21/06	25	↓ 25	Tox 2500 ppb ✓	8081 EH	6F21096	SB
6/21/06	26	GE062216A-26	Pest ms 6F21078 ✓	8081 EH		SB
6/22/06	1	GE062206-1	Prime	8081 EH		SB
↓	2	↓ 2	Perm ✓	↓		↓
	3	3	Pest 50 cc ✓			
	3	3	Pest 50 cc			
	4	4	BFG 1422 - BLK1			
	5	5	BS1			
	6	6	BSD1			
	7	7	0606200 - 01			
	8	8	02			
	9	9	02ms			
	10	10	02msd			
	11	11	03			
	12	12	03ms			
	13	13	03msd			
	14	14	04			
	15	15	05			
	16	16	06			
	17	17	07			
	18	18	07ms			
	19	19	07 msd			
	20	↓ 20	08			
6/22/06	21	GE062206-22	0606200 - 09	8081 EH		SB

CONTROL NUMBER 60.0012-0602A

PAGE_____

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06216A\002F0101.D Vial: 2
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06216A\002F0101.D\002R0101.D
Acq On : 21 Jun 06 03:32 PM Operator: [GC]2R0 1 01.D\DATA.MS
Sample : PEM Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 22 7:28 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.65	8.77	2882628	1075954	47.270	49.039
					Recovery	=	94.54%	98.08%
23)	S	Decachlorobiphenyl	18.14	20.79	1742144	864520	38.565m	36.560
					Recovery	=	77.13%	73.12%
		Target Compounds						
2)	M	Hexachlorobenzene	0.00	0.00	0	0	N.D.d	N.D.d
3)	M	alpha-BHC	0.00	0.00	0	0	N.D.d	N.D.d
4)	M	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.d	N.D.d
5)	M	beta-BHC	0.00	0.00	0	0	N.D.d	N.D.d
6)	M	delta-BHC	0.00	0.00	0	0	N.D.d	N.D.d
7)	M	Heptachlor	0.00	0.00	0	0	N.D.d	N.D.d
8)	M	Aldrin	0.00	0.00	0	0	N.D.d	N.D.d
9)	M	Heptachlor Epoxide	0.00	0.00	0	0	N.D.d	N.D.d
10)	M	gamma-Chlordane	0.00	0.00	0	0	N.D.d	N.D.d
11)	M	alpha-Chlordane	0.00	0.00	0	0	N.D.d	N.D.d
12)	M	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	M	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
14)	M	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15)	M	Endrin	14.06	15.37	4811339	1683303	117.714m	108.165m
16)	M	4,4'-DDD	14.17	15.49	114493	46650	3.305m	5.002m#
17)	M	Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18)	M	4,4'-DDT	14.61	16.00	4127673	1612906	106.239	113.549
19)	M	Endrin Aldehyde	15.16	0.00	10512	0	1.231m	N.D.d#
20)	M	Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
21)	M	Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22)	M	Endrin Ketone	16.36	17.85	15292	7242	1.562m	2.756m#

$\Sigma \frac{25804}{4837.173} = 0.533\%$ DDT $\frac{114493}{424216} = 2.69\%$

$\Sigma \frac{7242}{169545} = 0.43\%$ DDT $\frac{46650}{165956} = 2.80\%$

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
002F0101.D 8081EH.M Thu Jun 22 07:28:22 2006

Response Factor Report GC3

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Initial Calibration

Calibration Files
10 =004F0101.D 20 =005F0101.D 5 =003F0101.D
60 =007F0101.D = 100 =009F0101.D

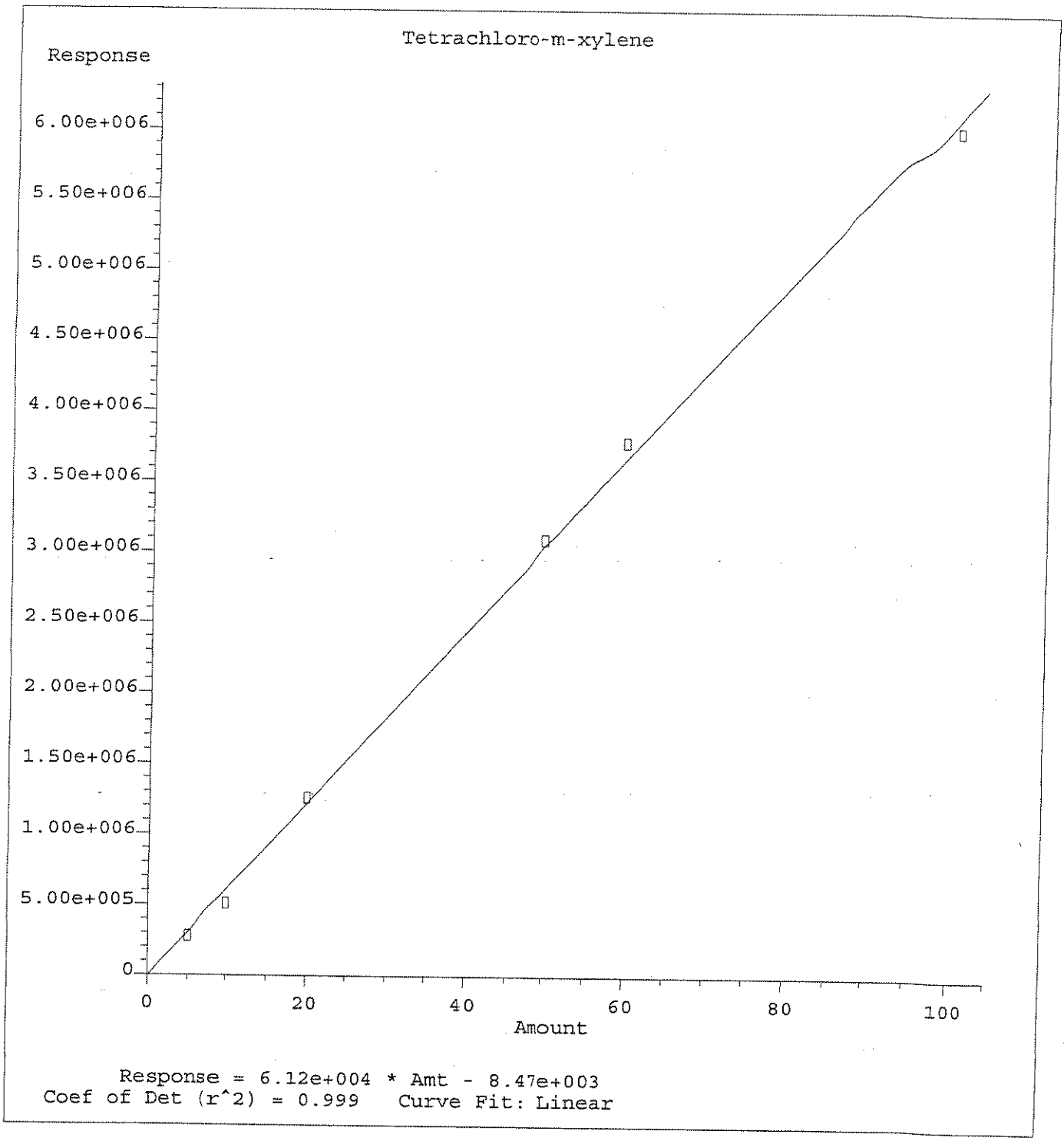
		Compound	10	20	5	60		100	Avg	%RSD
1)	S	Tetrachloro-m-xylen	51.0	62.9	55.4	63.0	60.2	61.8	59.0 E3	8.21
2)	M	Hexachlorobenzene	93.2	105.8	95.6	102.3	91.7	99.0	97.9 E3	5.58
3)	M	alpha-BHC	57.2	68.9	58.7	77.2	73.4	74.2	68.3 E3	12.36
4)	M	gamma-BHC (Lindane)	54.7	64.8	60.0	72.5	67.8	68.5	64.7 E3	9.96
5)	M	beta-BHC	28.9	35.3	31.1	36.9	34.4	36.0	33.8 E3	9.14
6)	M	delta-BHC	49.9	61.8	53.4	71.6	67.4	68.4	62.1 E3	14.11
7)	M	Heptachlor	50.1	59.9	52.1	65.8	61.5	62.6	58.7 E3	10.59
8)	M	Aldrin	53.1	60.6	53.4	63.7	59.6	61.9	58.7 E3	7.61
9)	M	Heptachlor Epoxide	49.6	56.1	51.8	59.0	55.1	59.2	55.1 E3	7.02
10)	M	gamma-Chlordane	46.3	59.8	50.0	59.9	56.4	59.5	55.3 E3	10.50
11)	M	alpha-Chlordane	49.3	57.8	52.1	56.5	53.1	55.7	54.1 E3	5.88
12)	M	4,4'-DDE	46.9	55.0	56.5	56.5	53.3	55.0	53.9 E3	6.74
13)	M	Endosulfan I	46.9	55.2	54.6	57.6	56.4	55.8	54.4 E3	7.03
14)	M	Dieldrin	45.5	51.9	48.0	54.9	52.0	53.3	50.9 E3	6.88
15)	M	Endrin	34.6	39.6	36.1	42.8	40.0	41.3	39.1 E3	8.04
16)	M	4,4'-DDD	38.0	44.3	34.8	47.8	45.1	45.8	42.6 E3	11.86
17)	M	Endosulfan II	36.2	43.2	41.9	47.7	44.6	45.7	43.2 E3	9.20
18)	M	4,4'-DDT	27.7	34.4	31.1	40.4	38.0	39.2	35.1 E3	14.16
19)	M	Endrin Aldehyde	30.1	34.6	30.9	37.5	36.0	36.2	34.2 E3	8.93
20)	M	Methoxychlor	14.3	17.2	18.1	22.0	20.6	20.5	18.8 E3	15.03
21)	M	Endosulfan Sulfate	41.2	39.9	30.7	43.7	41.4	42.3	39.8 E3	11.72
22)	M	Endrin Ketone	38.1	47.1	34.8	51.5	48.7	49.3	44.9 E3	15.13
23)	S	Decachlorobiphenyl	37.2	47.5	39.9	47.4	43.5	46.8	43.7 E3	9.95

Signal #2 Calibration Files
10 =004R0101.D 20 =005R0101.D 5 =003R0101.D
60 =007R0101.D = 100 =009R0101.D

		Compound	10	20	5	60		100	Avg	%RSD
1)	S	Tetrachloro-m-xylen	17.8	21.1	19.3	23.1	21.6	22.3	20.9 E3	9.56
2)	M	Hexachlorobenzene	34.9	38.5	35.4	39.7	35.9	38.8	37.2 E3	5.42
3)	M	alpha-BHC	15.6	20.8	15.7	28.3	28.2	26.3	22.5 E3	26.50
4)	M	gamma-BHC (Lindane)	16.2	20.9	16.8	26.9	26.3	25.2	22.1 E3	21.61
5)	M	beta-BHC	11.6	12.6	11.5	14.3	13.5	13.6	12.9 E3	8.86
6)	M	delta-BHC	15.0	19.6	15.9	26.3	25.8	24.4	21.2 E3	23.75
7)	M	Heptachlor	16.0	19.9	17.8	24.4	23.7	22.8	20.8 E3	16.45
8)	M	Aldrin	16.6	20.0	17.7	24.0	23.3	22.8	20.8 E3	14.94
9)	M	Heptachlor Epoxide	17.7	20.4	21.6	23.2	22.1	22.2	21.2 E3	9.24
10)	M	gamma-Chlordane	18.0	21.0	18.9	23.5	22.3	22.6	21.1 E3	10.34
11)	M	alpha-Chlordane	18.4	21.6	19.7	23.8	22.4	22.9	21.5 E3	9.52
12)	M	4,4'-DDE	16.5	19.8	17.5	23.0	21.9	21.8	20.1 E3	13.04
13)	M	Endosulfan I	15.7	18.7	15.7	21.7	20.7	20.6	18.9 E3	13.86
14)	M	Dieldrin	15.0	18.0	15.4	21.6	21.0	20.4	18.6 E3	15.40
15)	M	Endrin	10.6	12.7	12.5	15.7	15.5	14.7	13.6 E3	14.66
16)	M	4,4'-DDD	12.4	15.0	13.2	18.0	17.6	16.9	15.5 E3	15.15
17)	M	Endosulfan II	16.2	19.1	19.8	20.8	19.5	20.5	19.3 E3	8.61
18)	M	4,4'-DDT	6.8	9.5	6.6	14.0	14.2	12.6	10.6 E3	32.81
19)	M	Endrin Aldehyde	13.9	16.1	14.7	17.7	16.4	16.9	15.9 E3	8.82
20)	M	Methoxychlor	5.5	6.9	5.1	9.6	9.2	8.8	7.5 E3	25.85
21)	M	Endosulfan Sulfate	14.1	16.6	14.8	18.7	17.9	17.8	16.7 E3	10.99
22)	M	Endrin Ketone	15.1	20.0	16.7	23.5	23.3	23.5	20.3 E3	18.31
23)	S	Decachlorobiphenyl	21.7	24.7	24.2	24.7	22.7	23.9	23.6 E3	5.09

Used Linear Curve

(#) = Out of Range ### Number of calibration levels exceeded format ###



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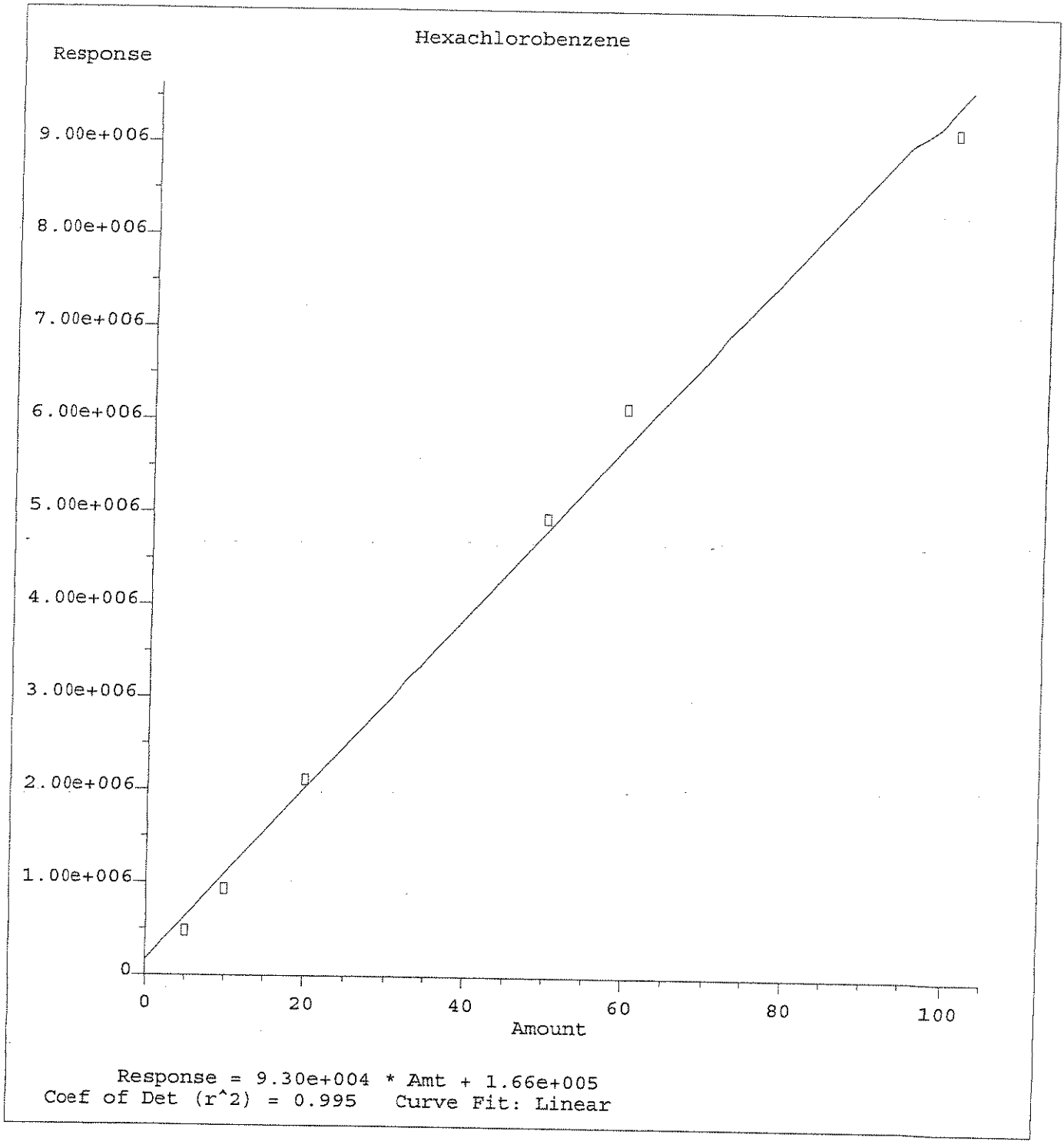
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



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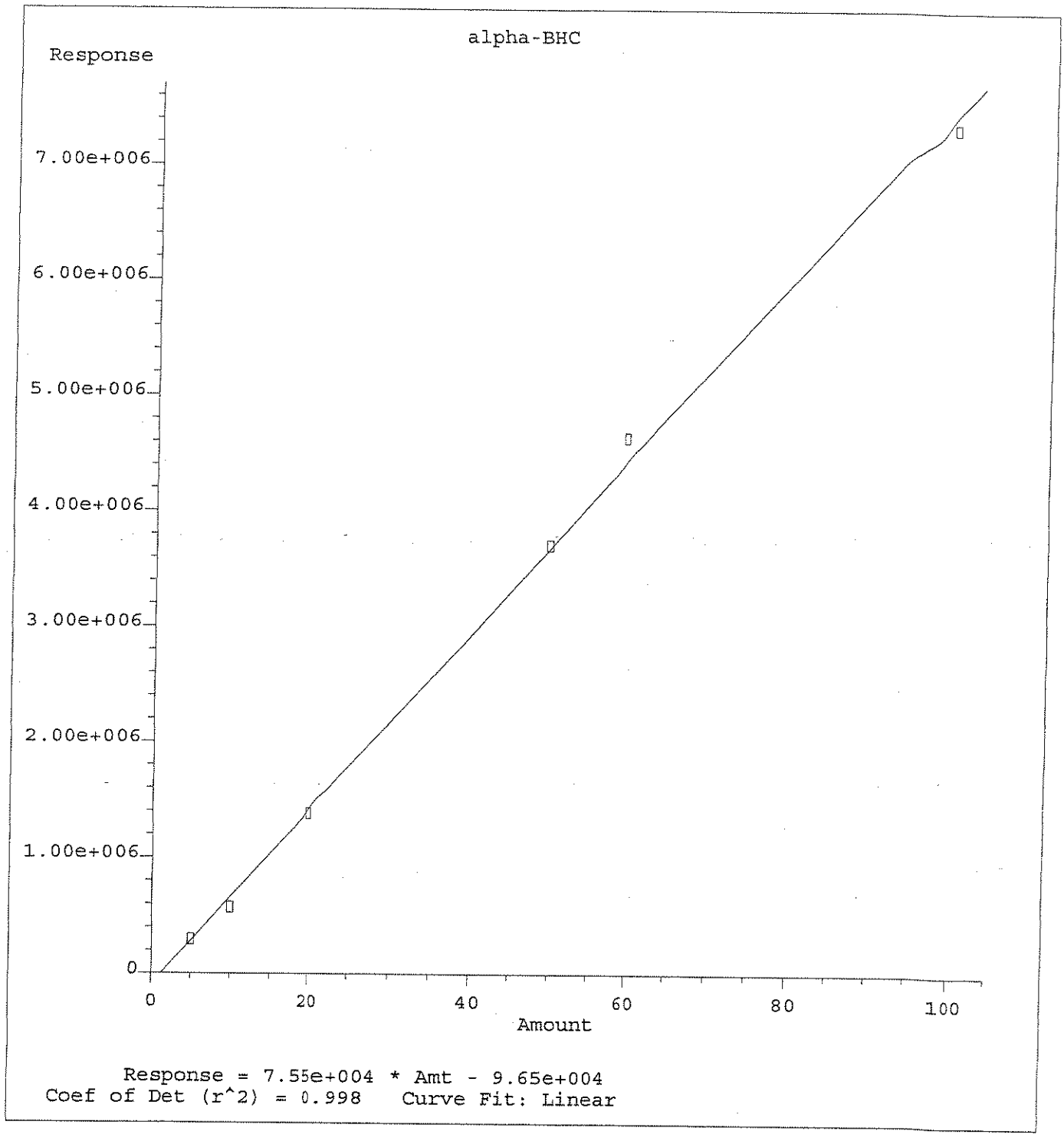

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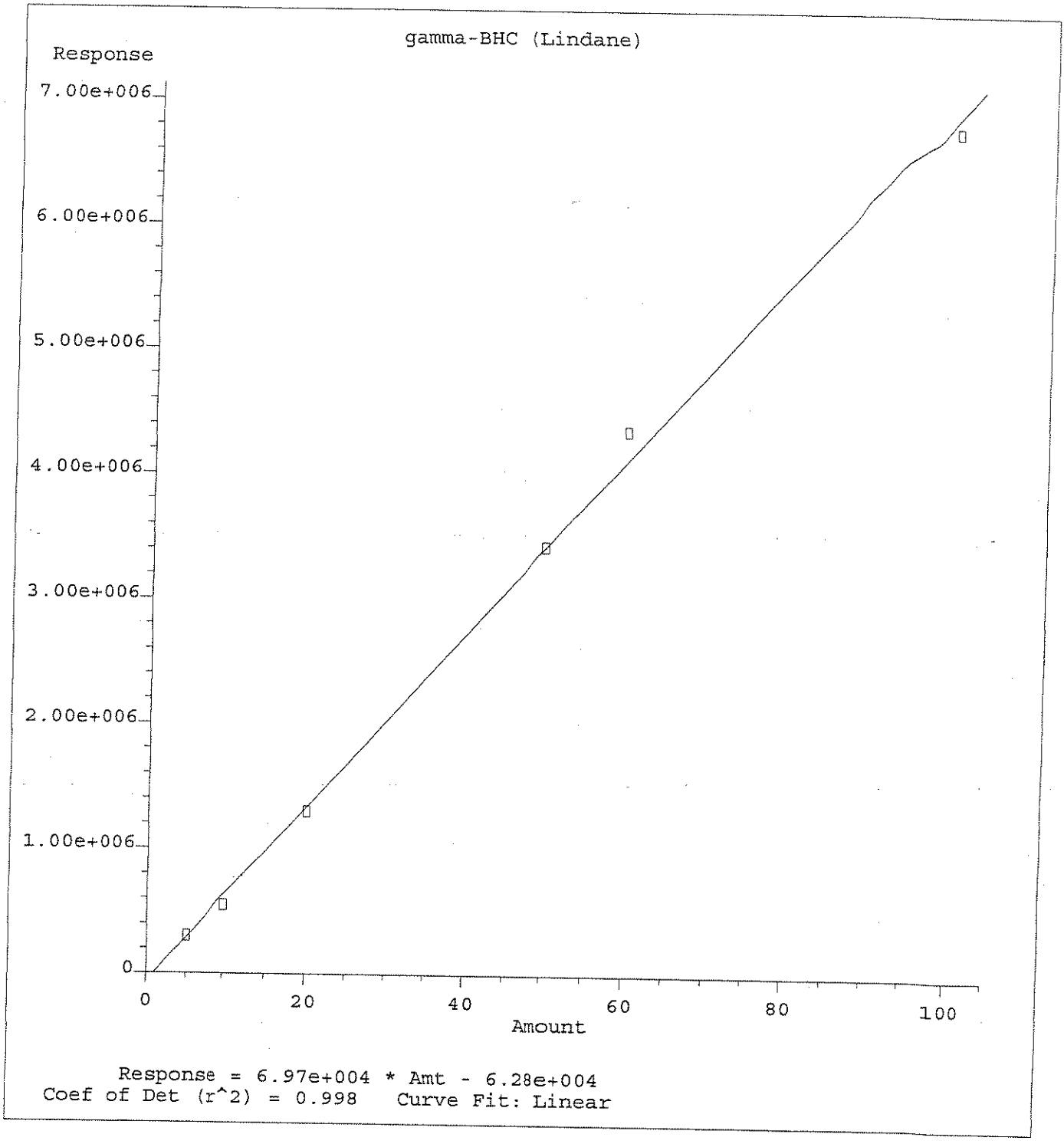

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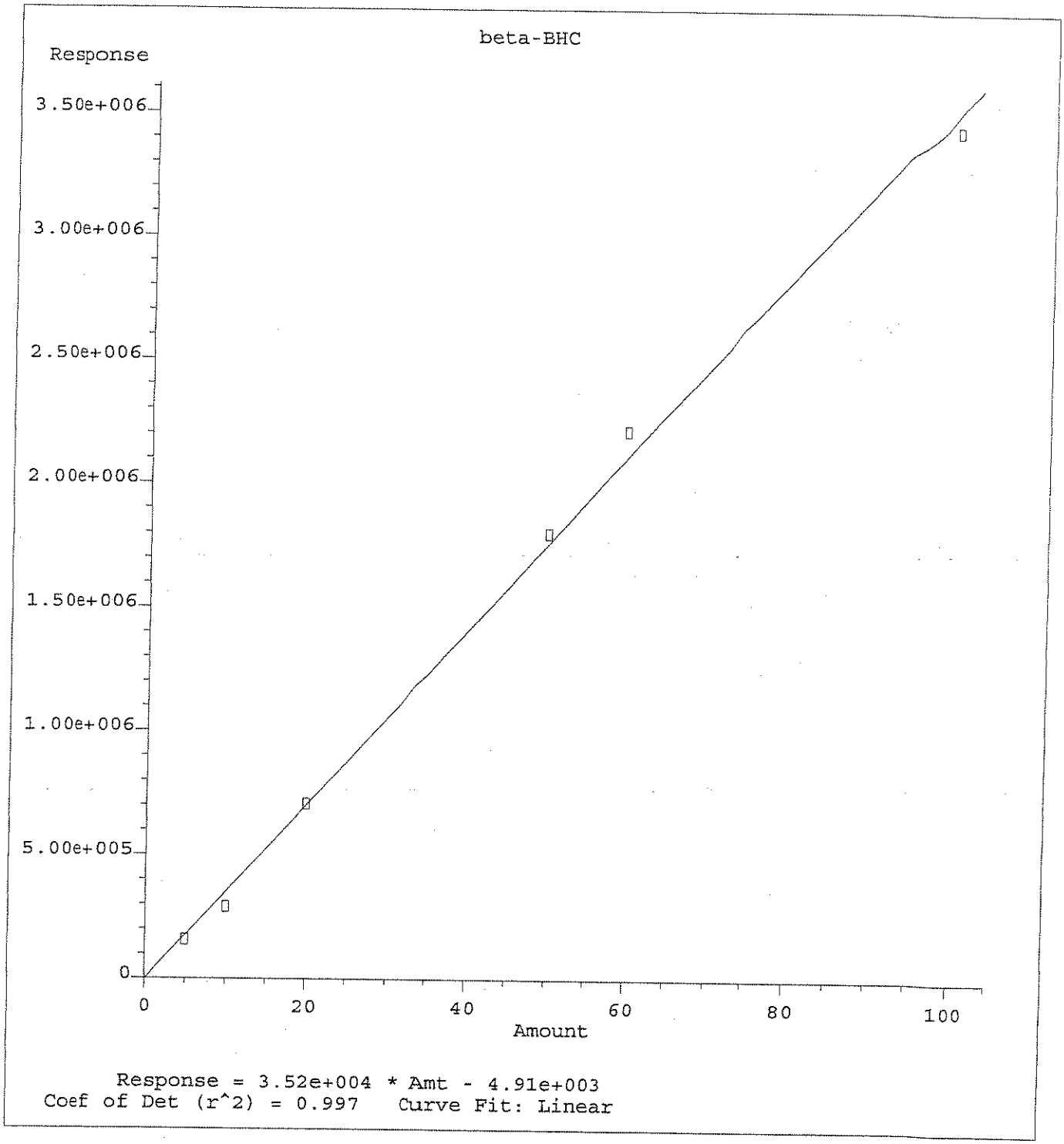

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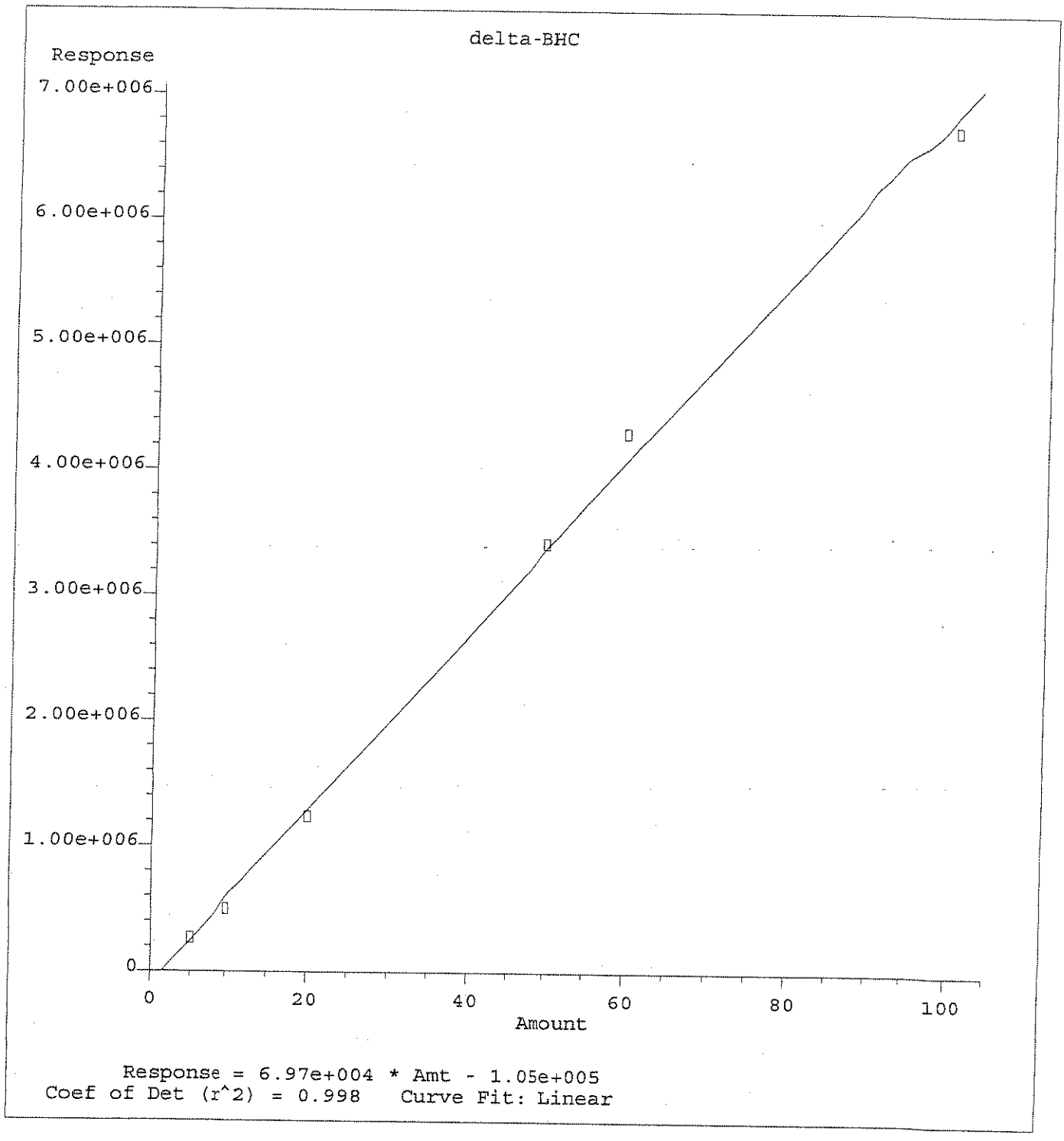

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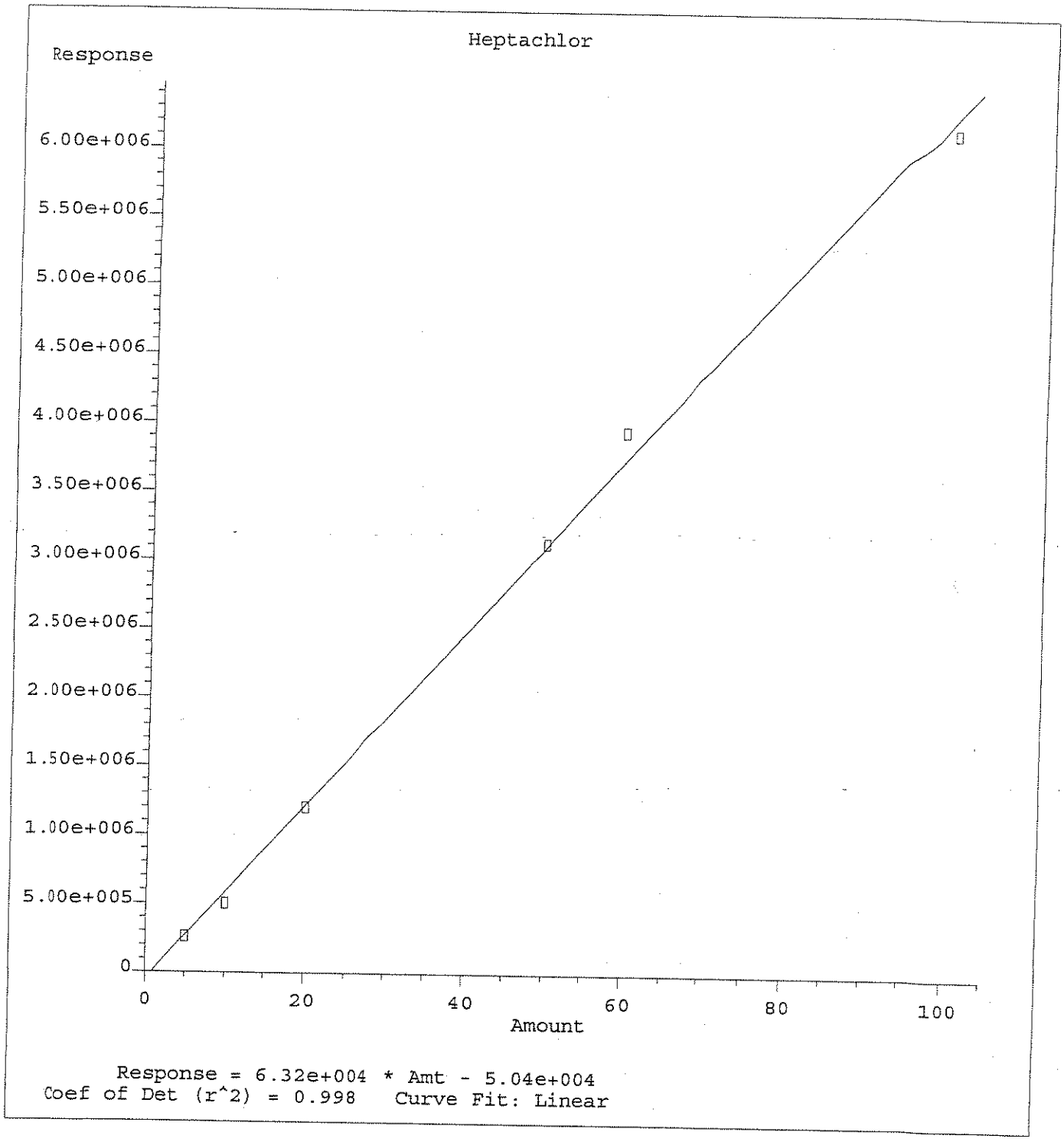

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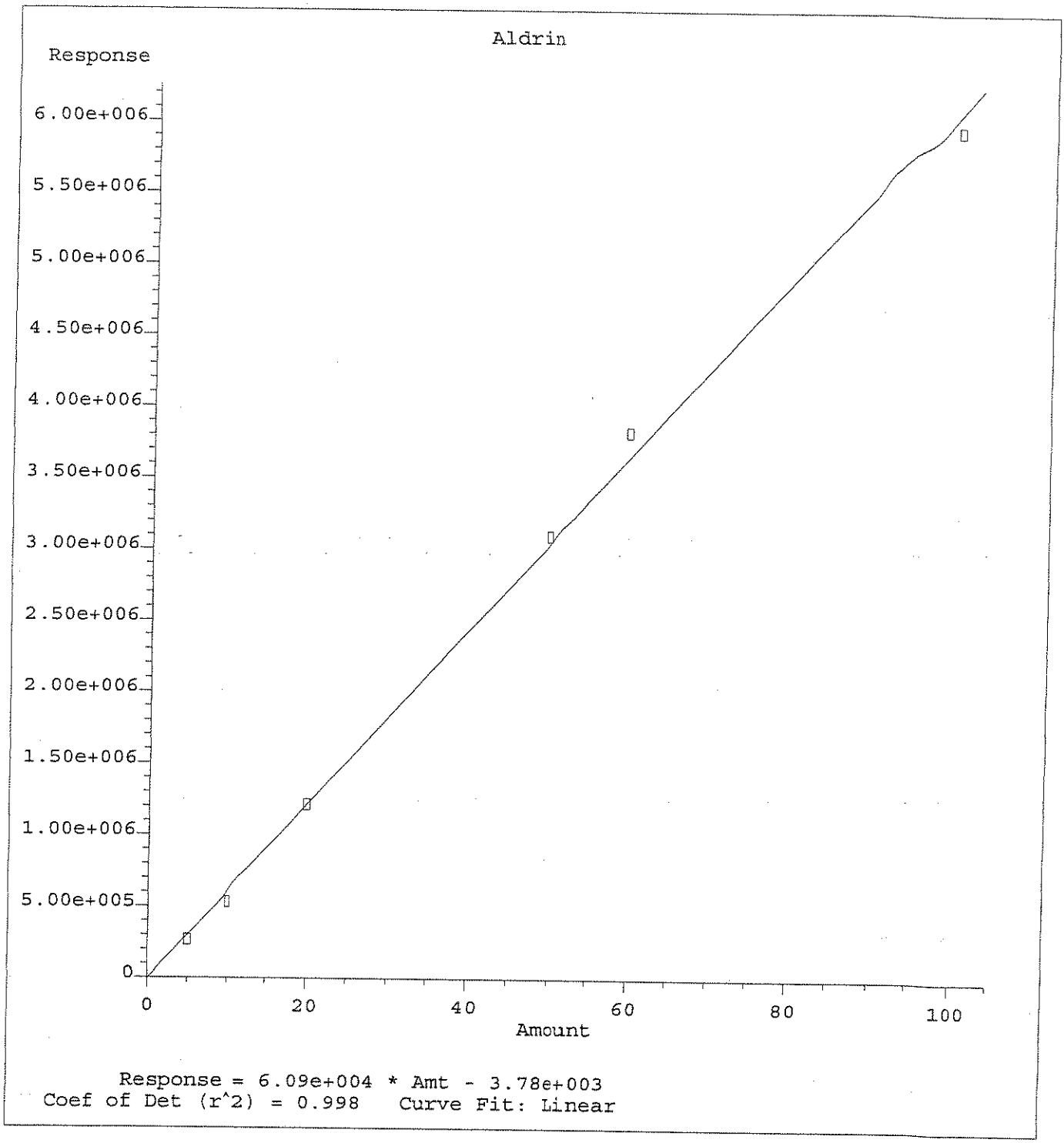

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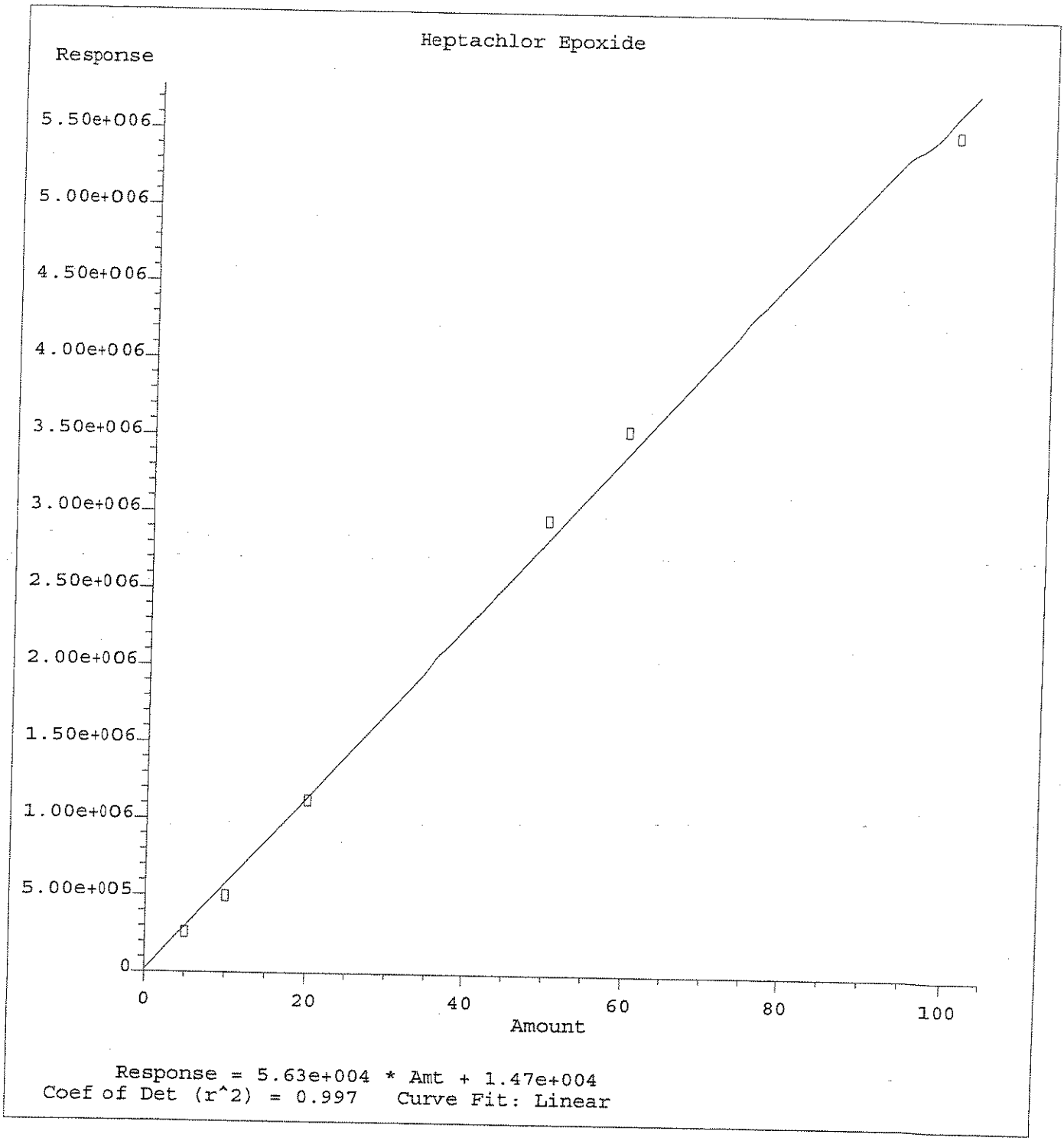

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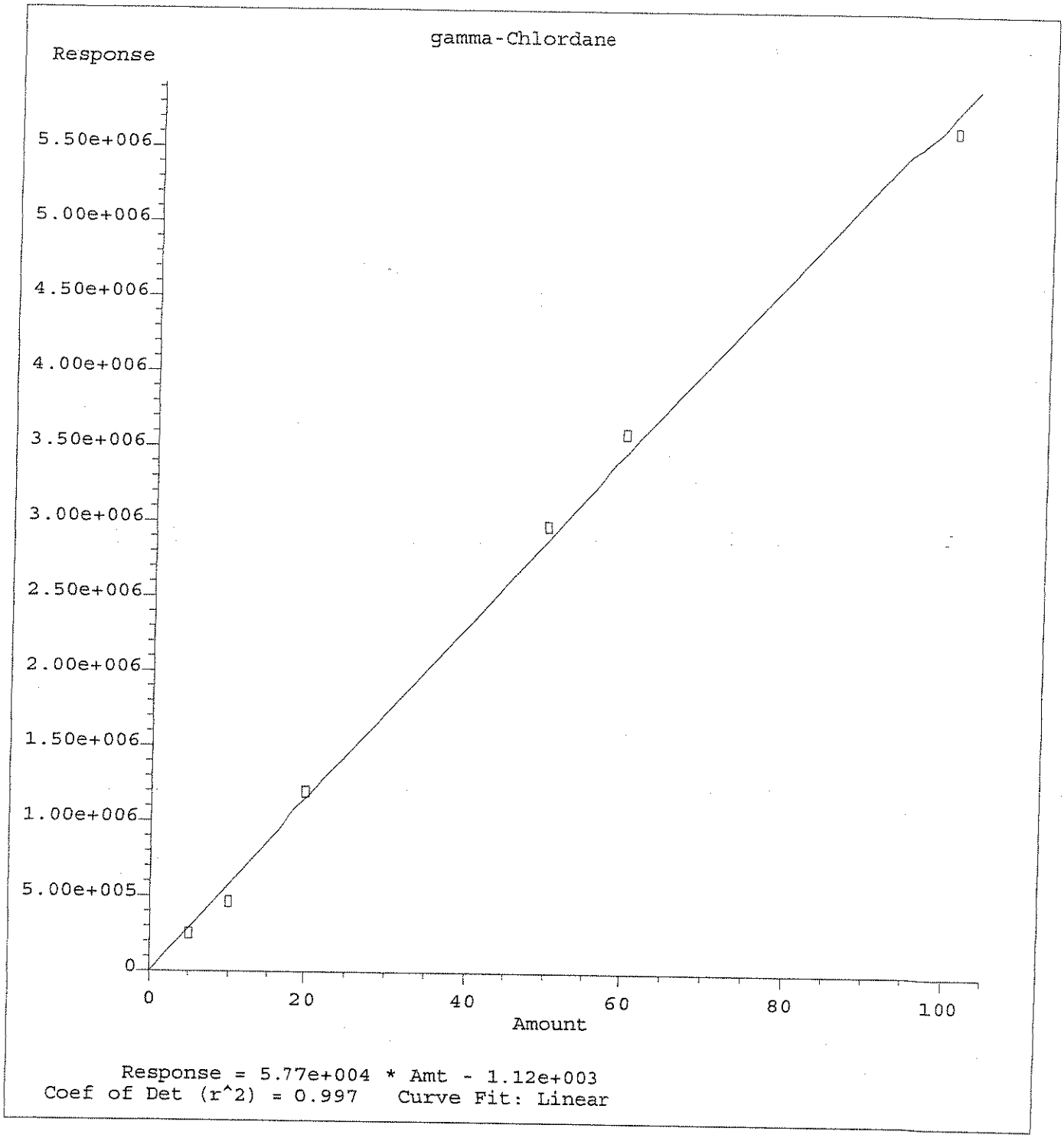

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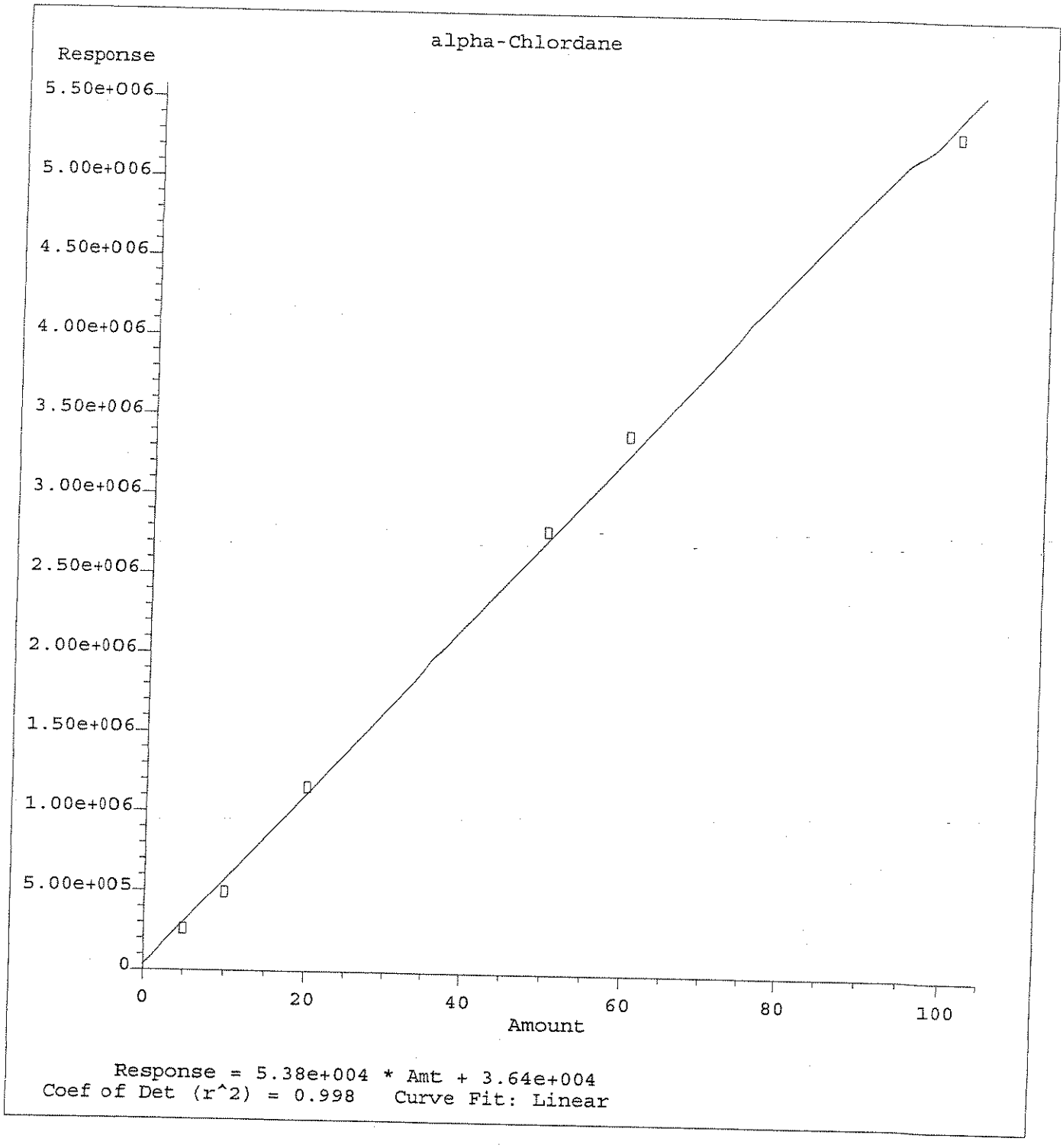

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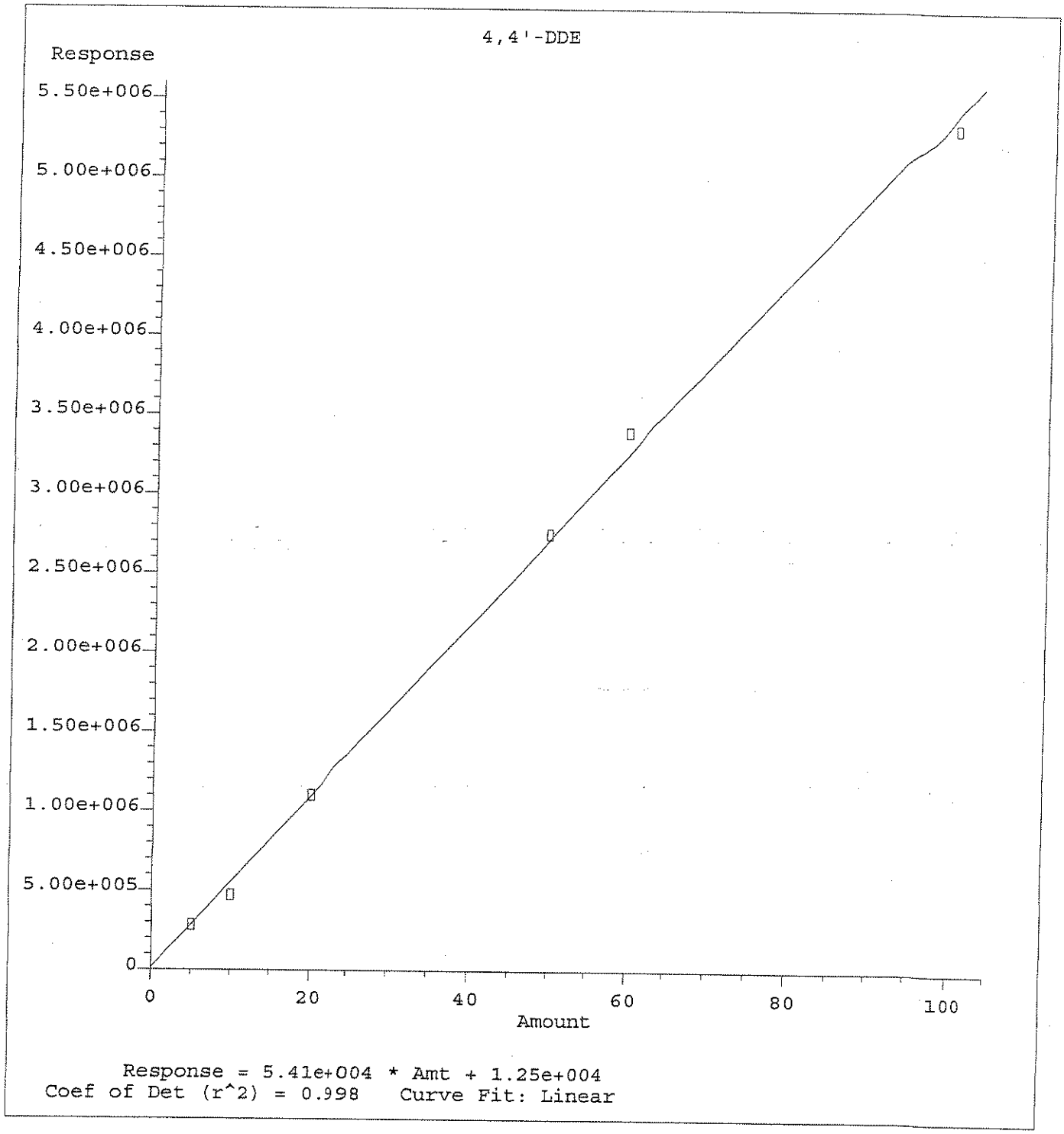

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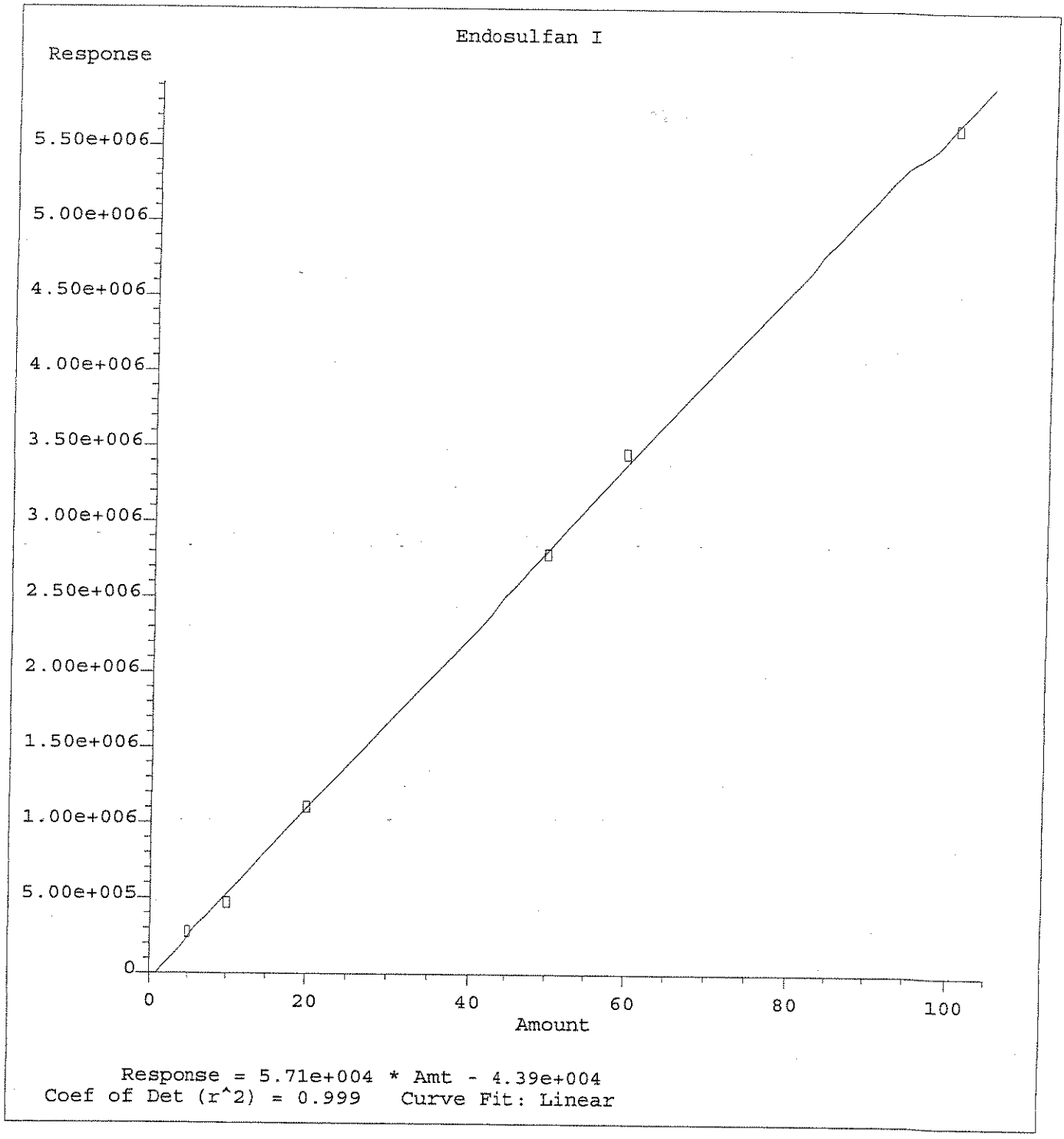

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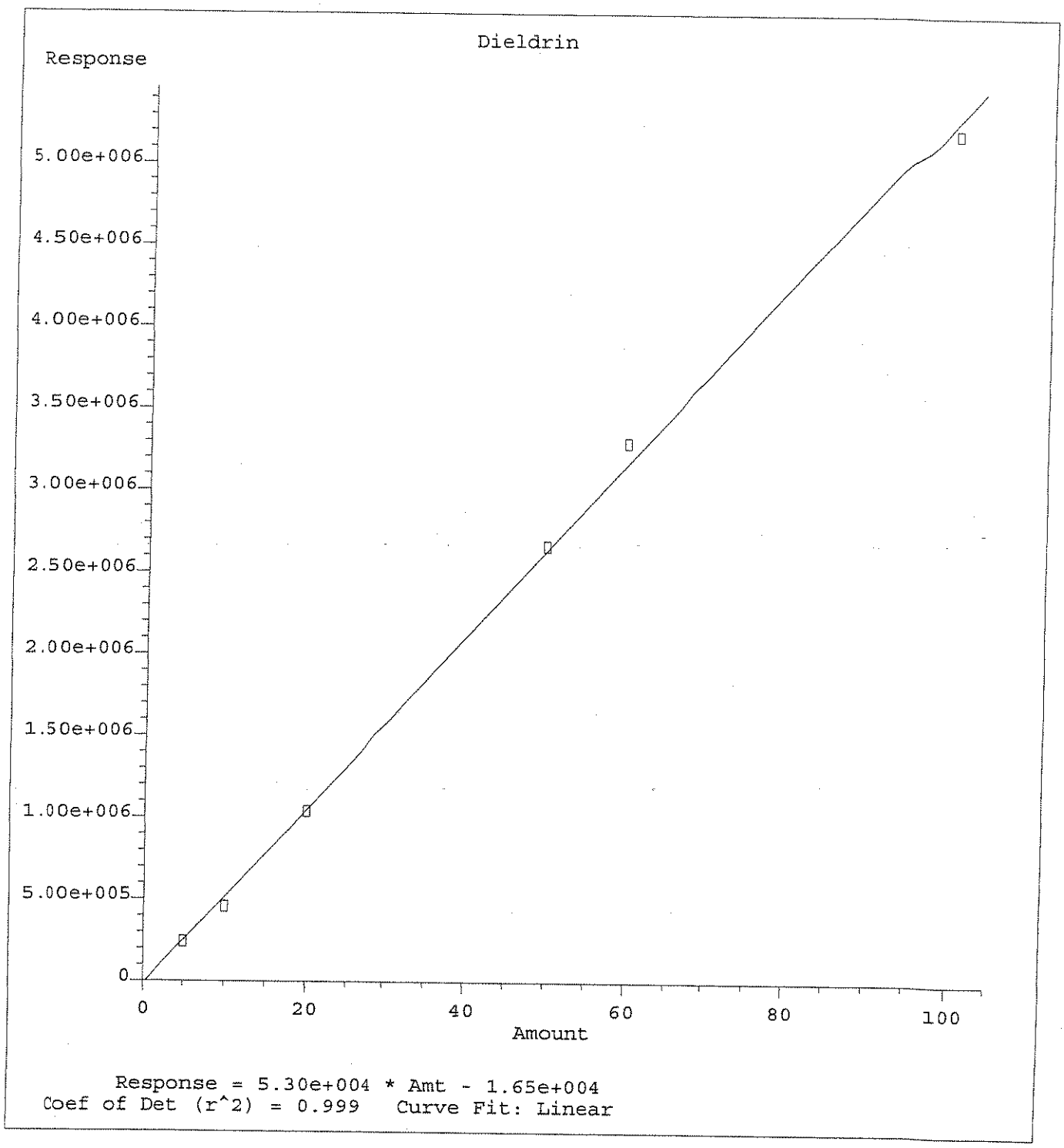

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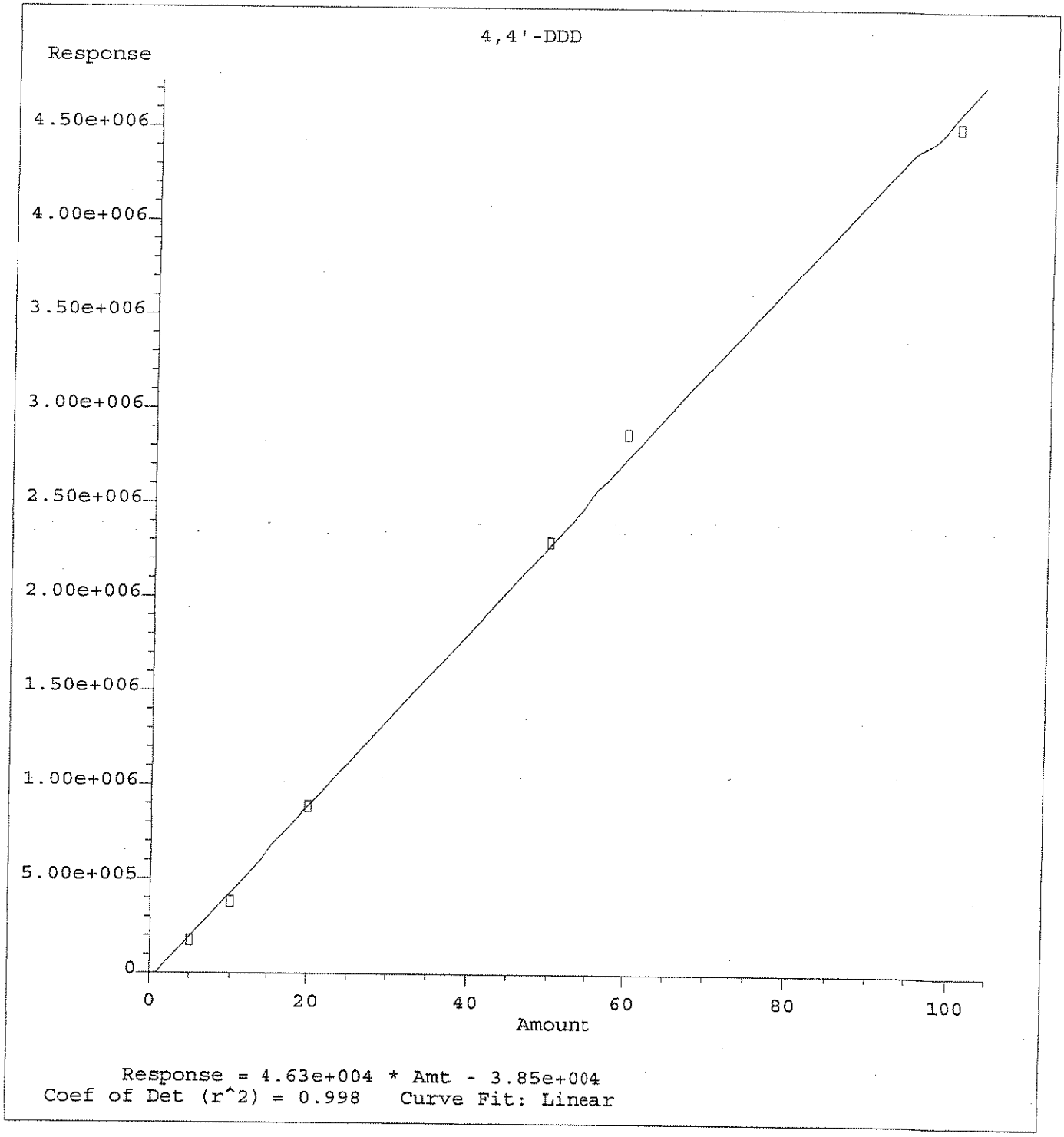

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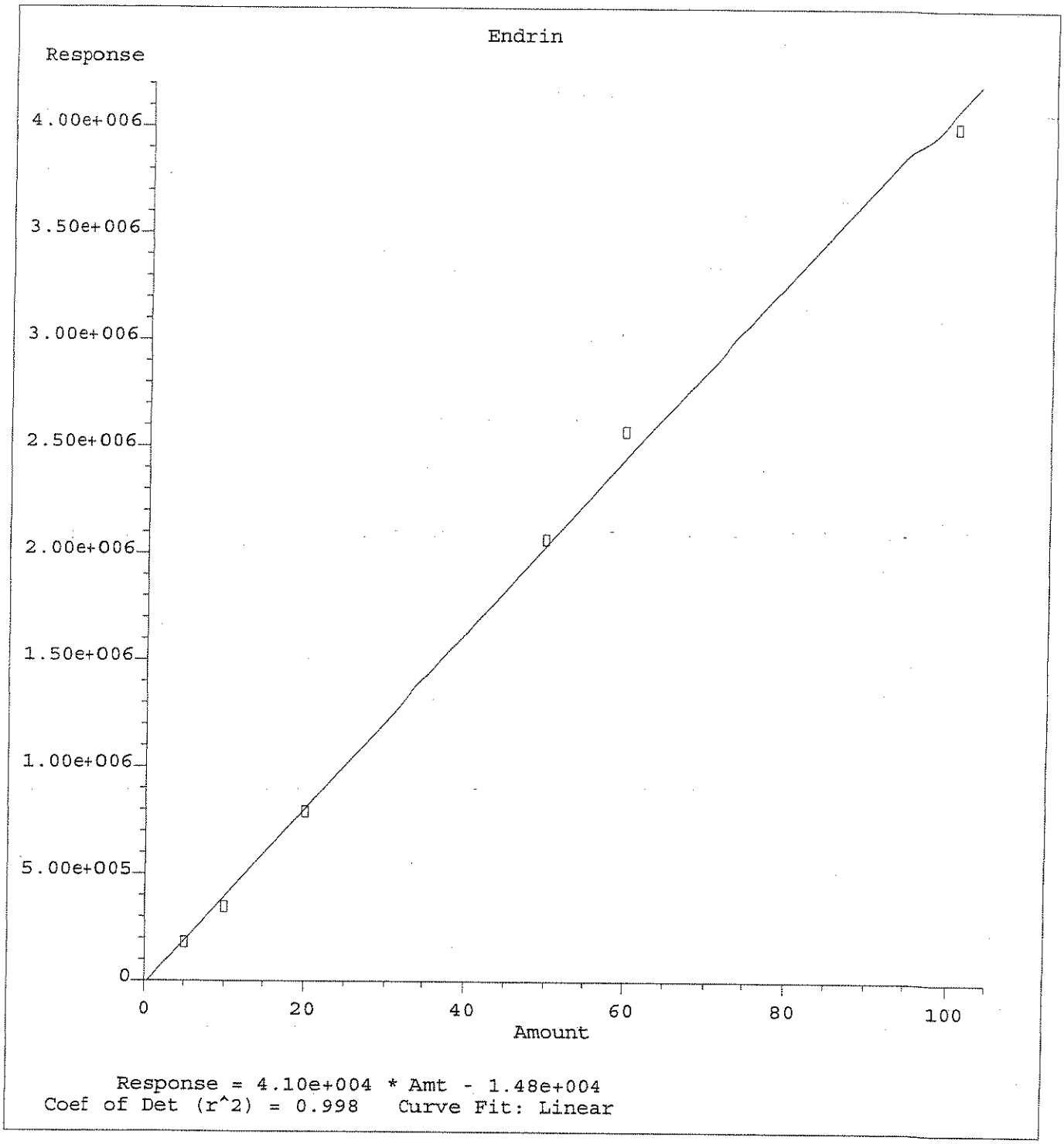

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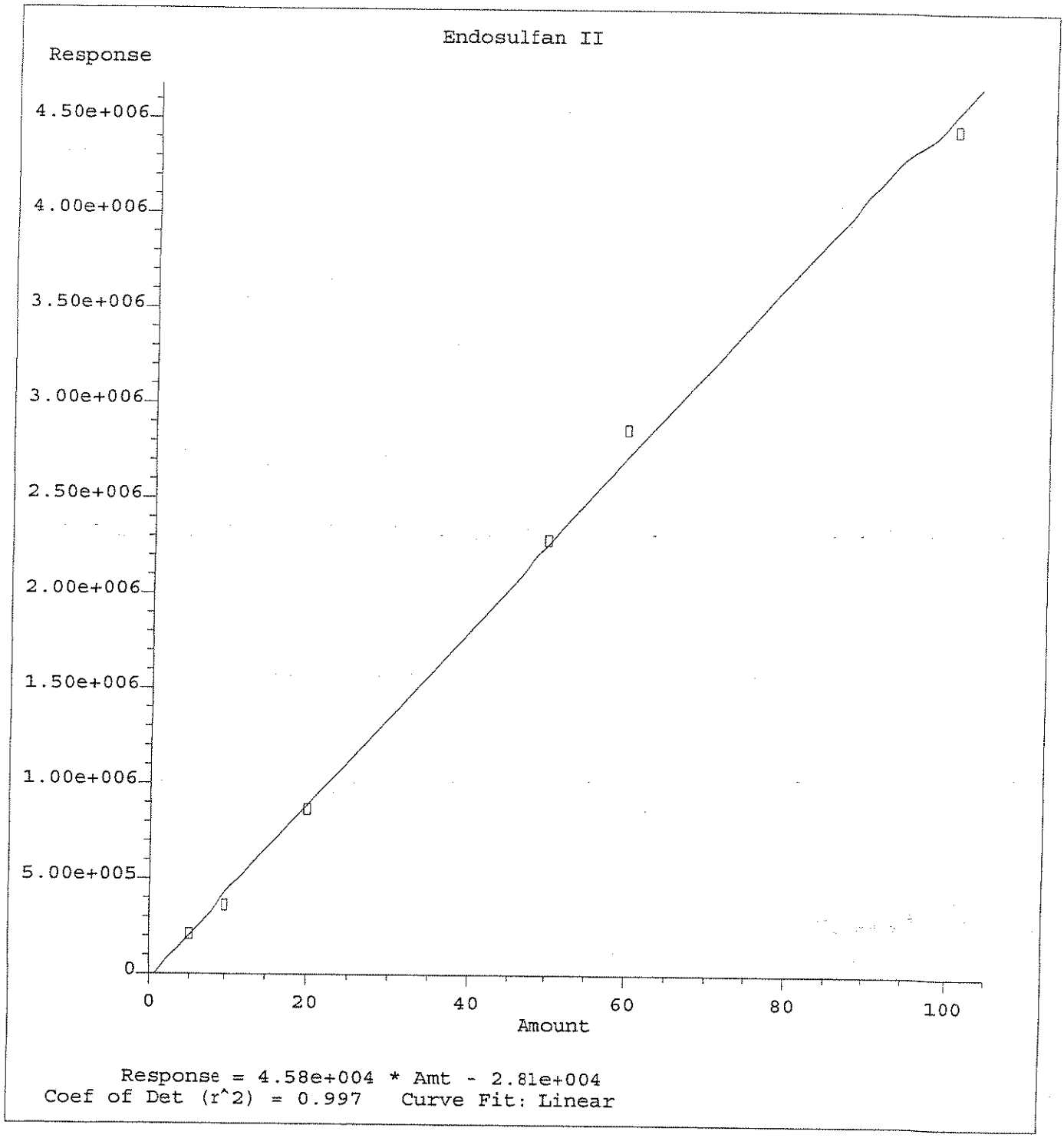

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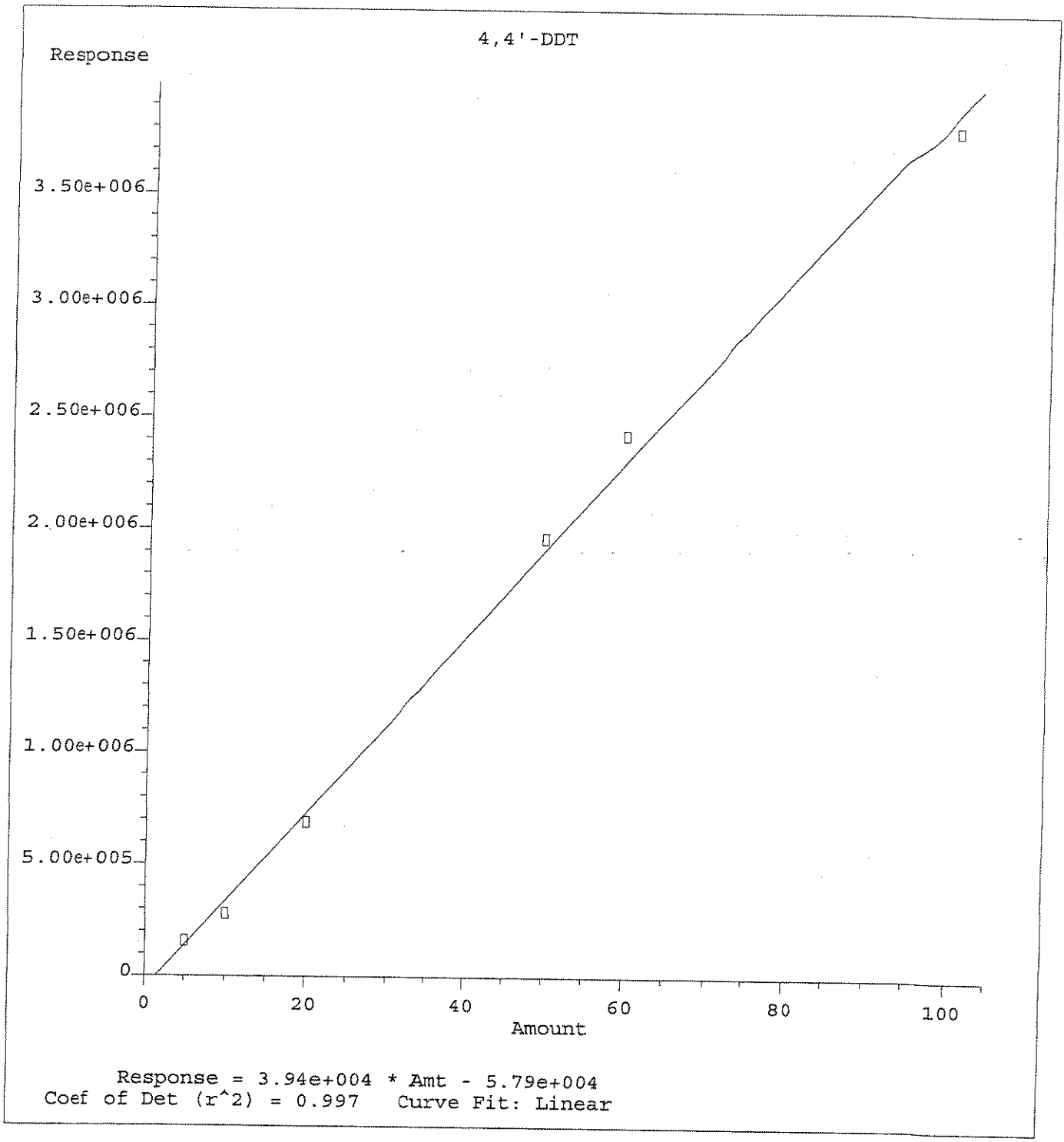

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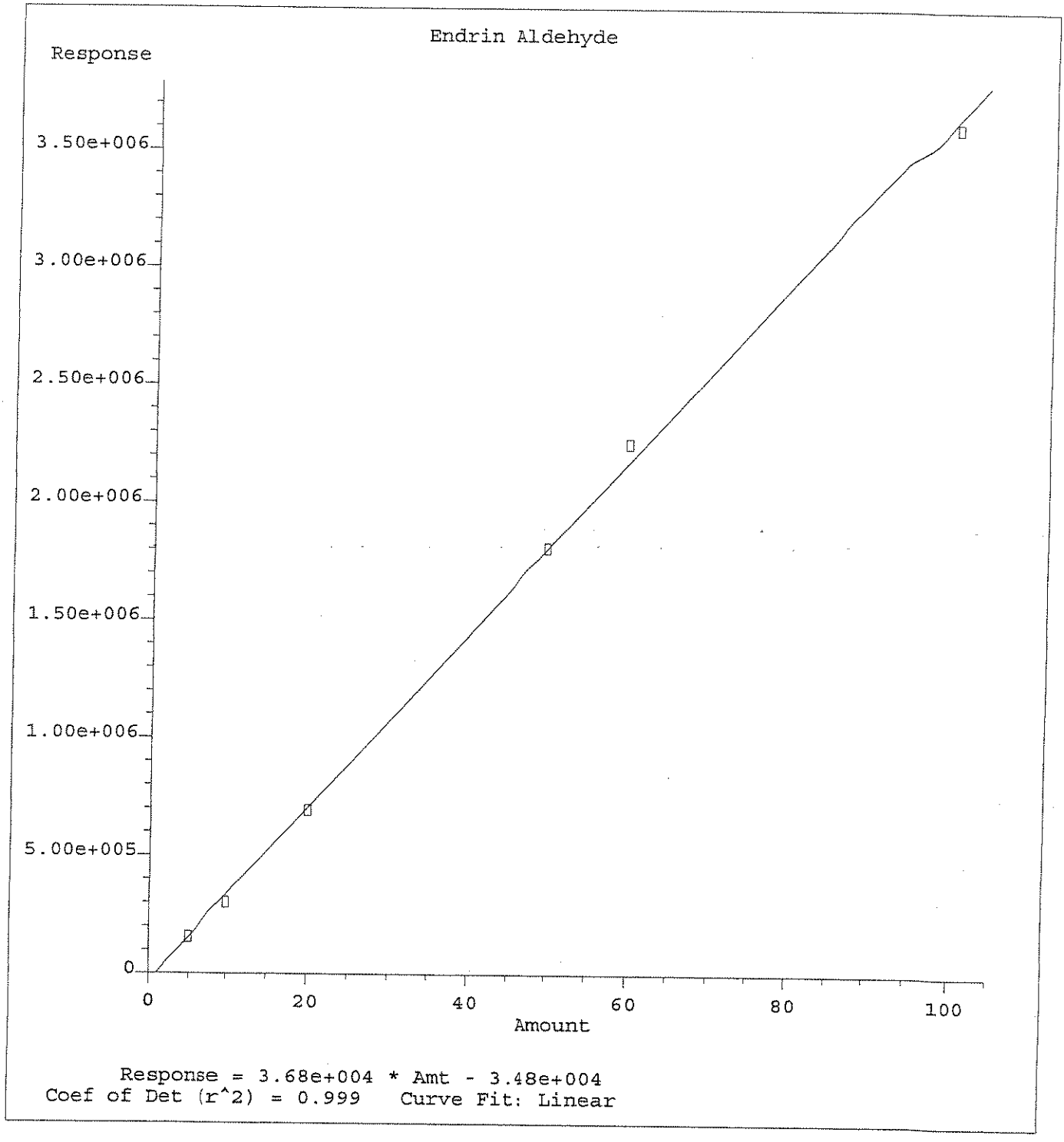

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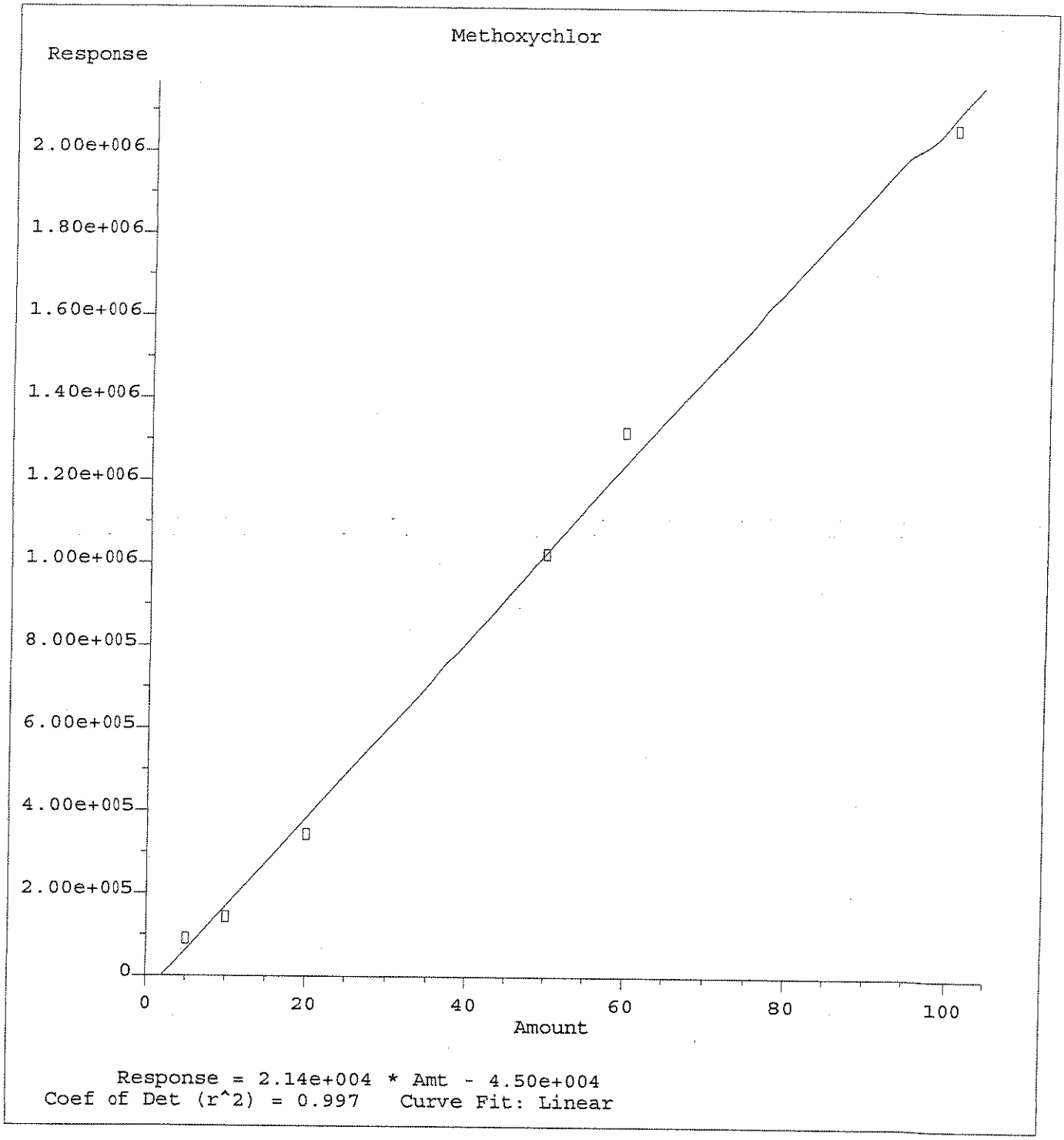

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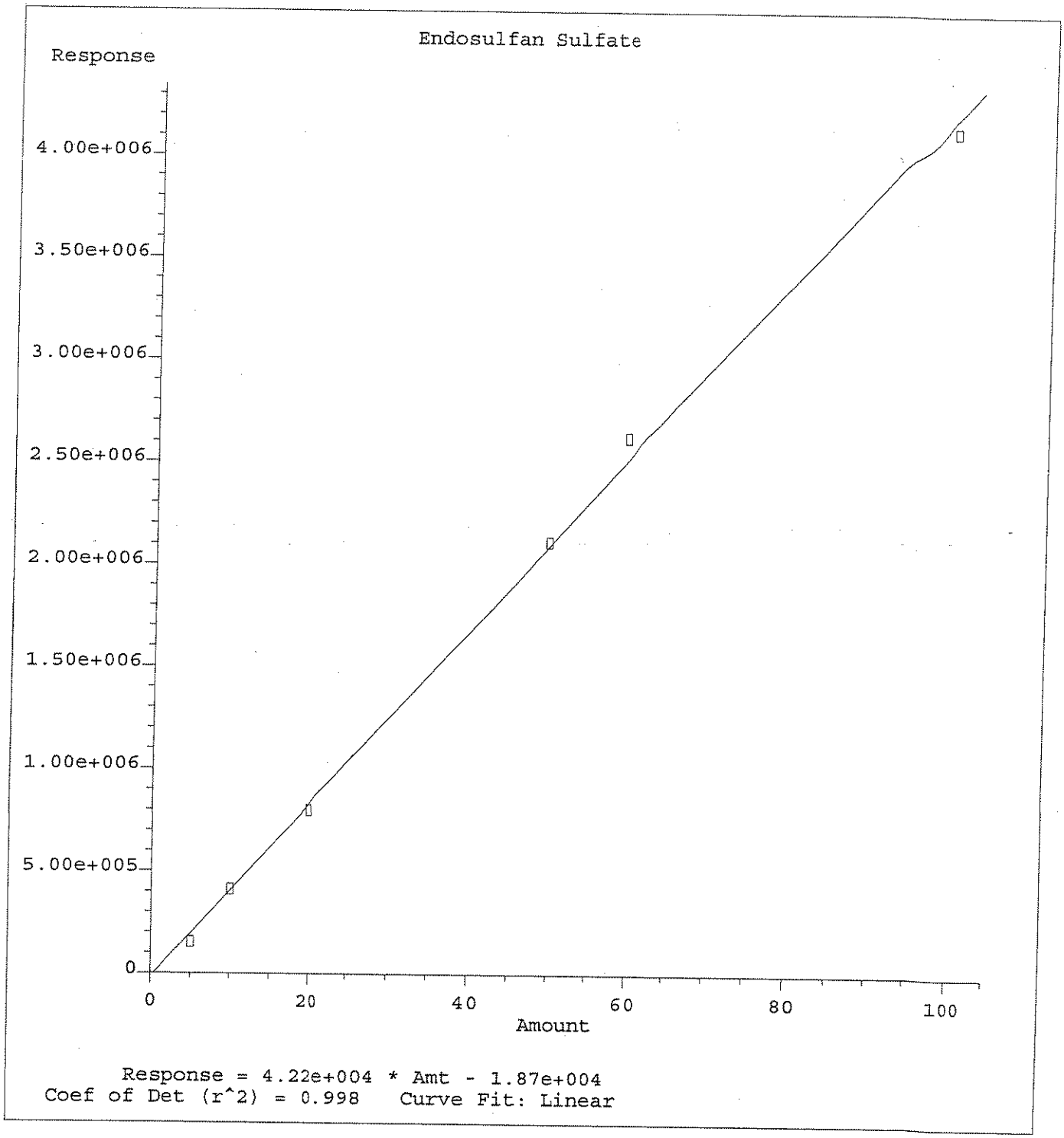

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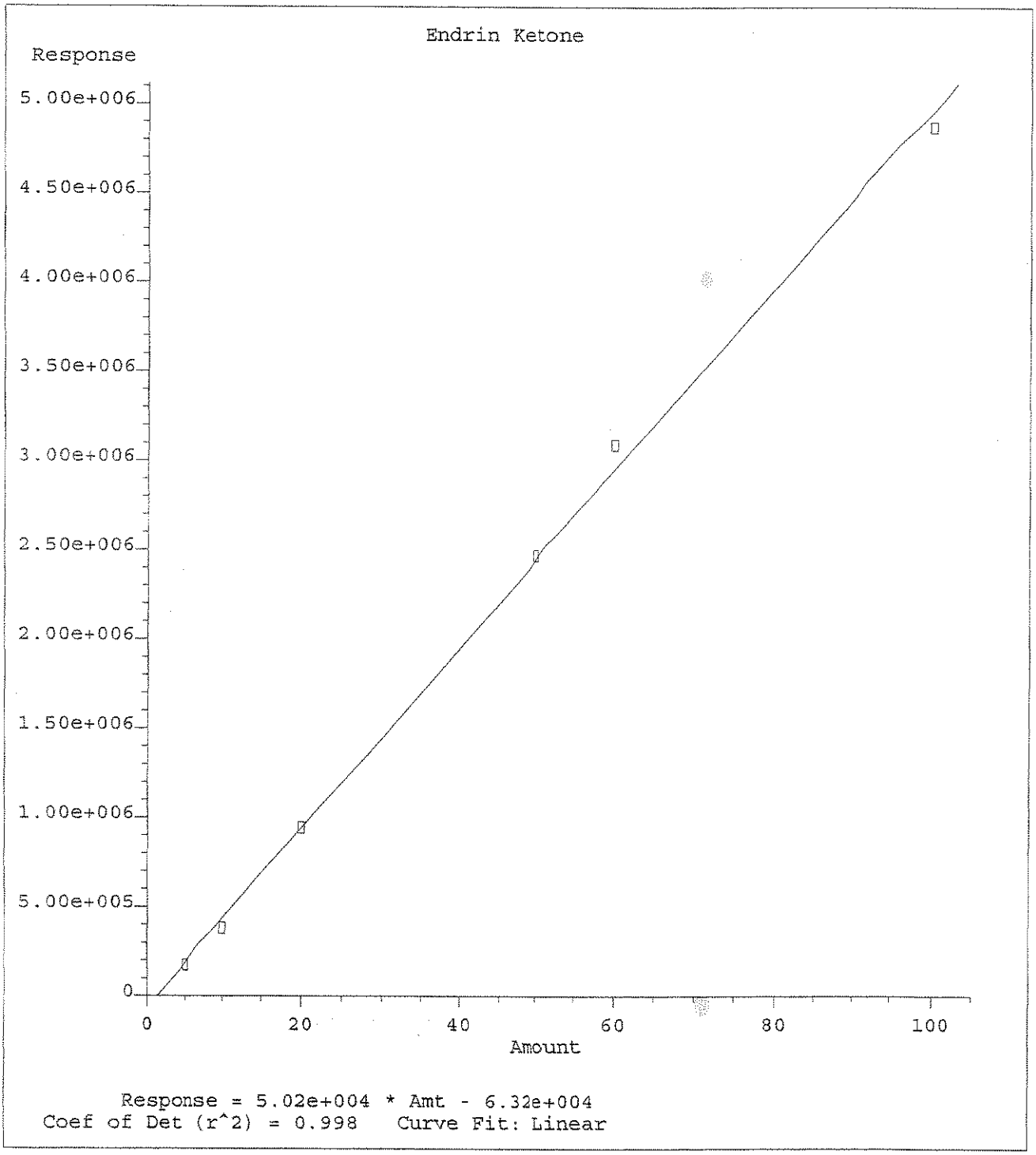

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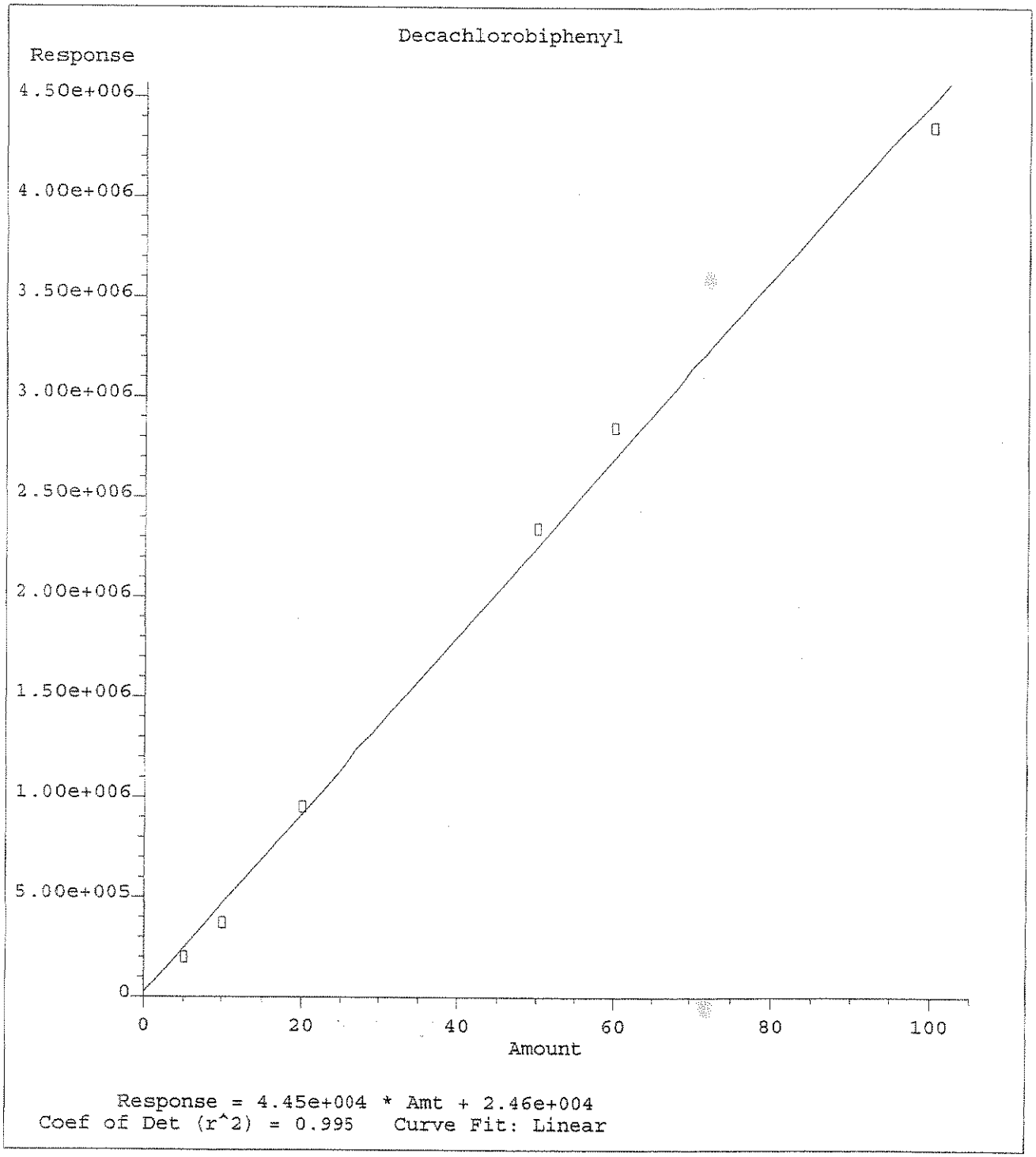

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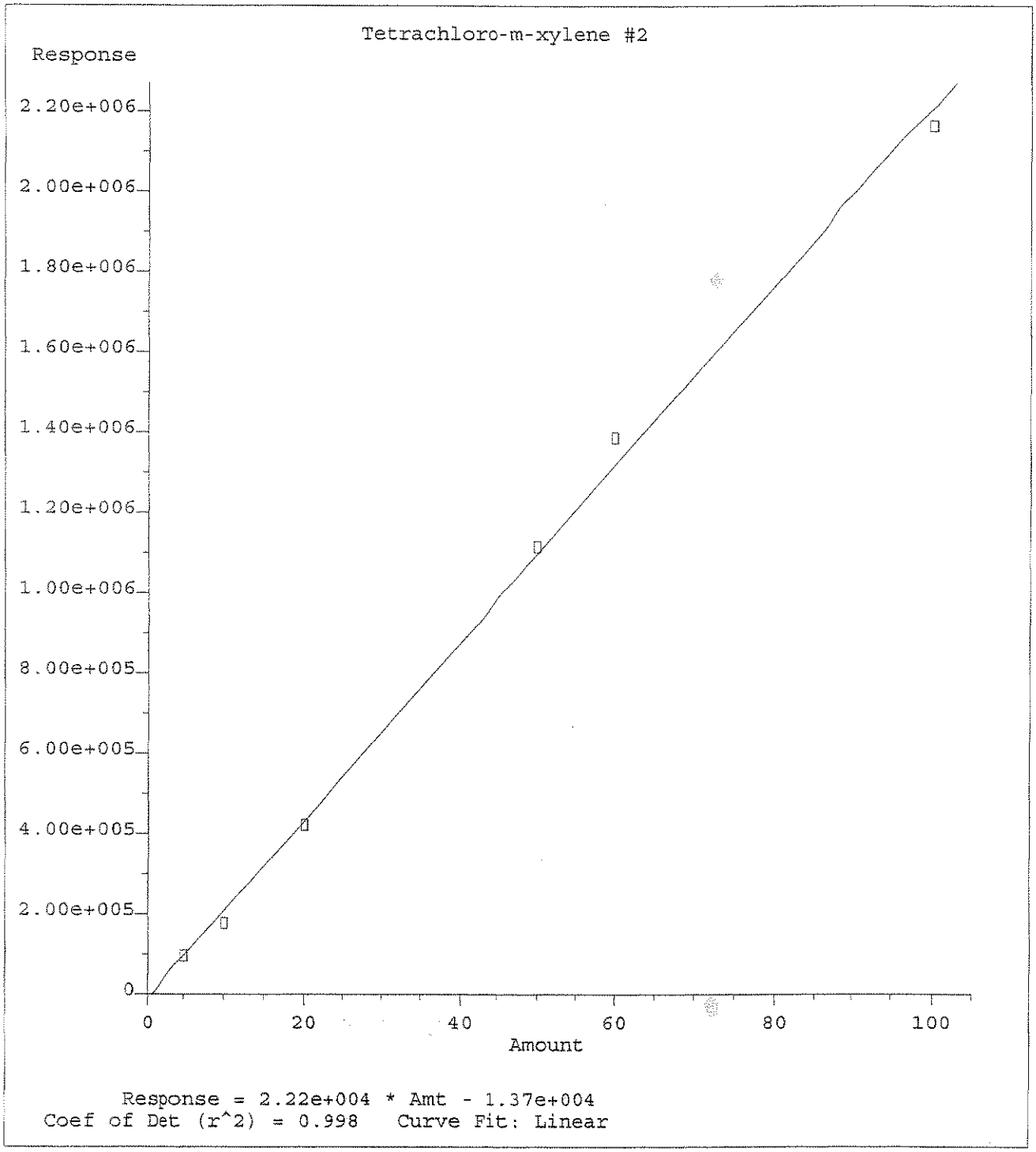

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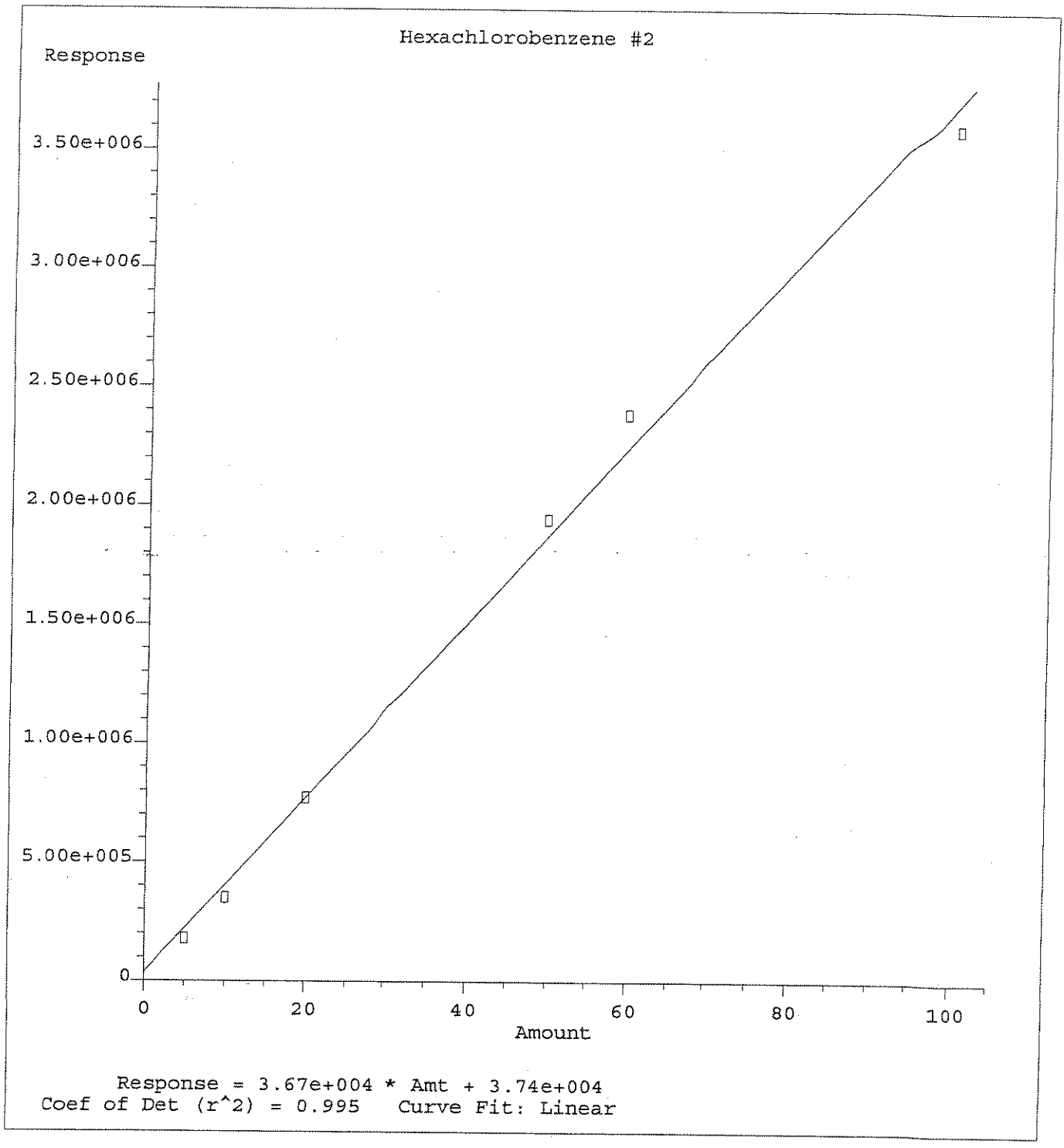

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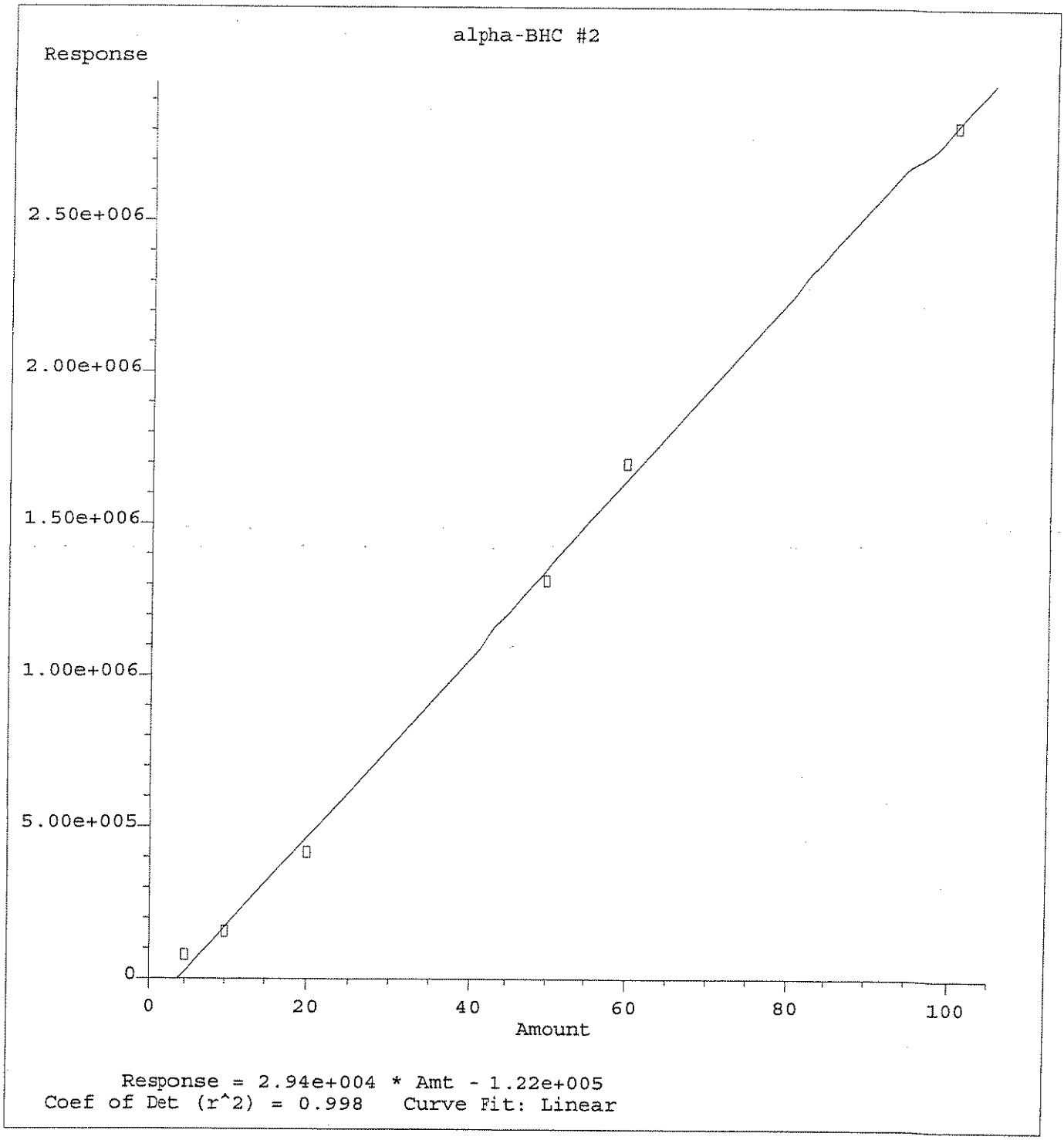

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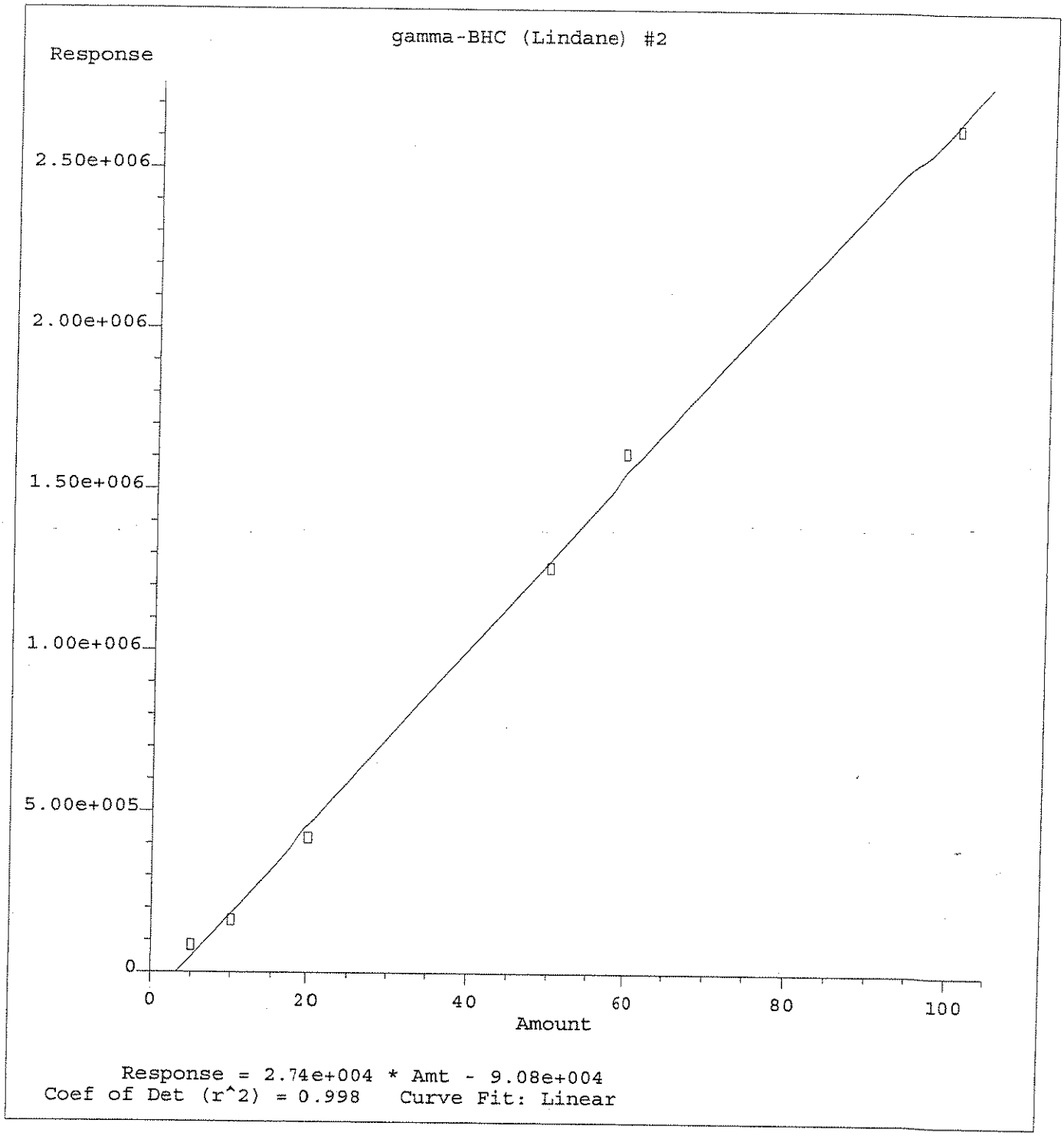

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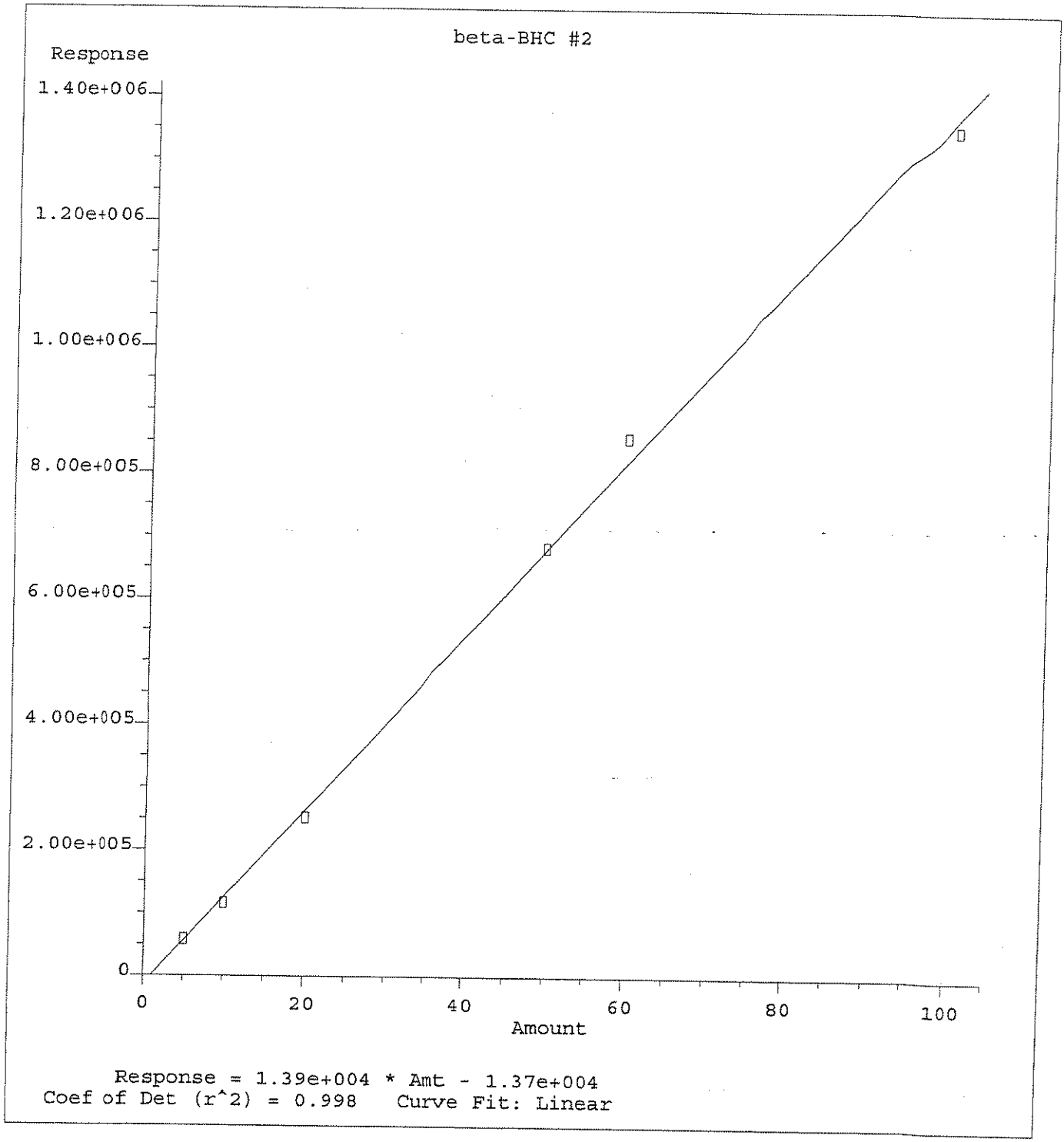

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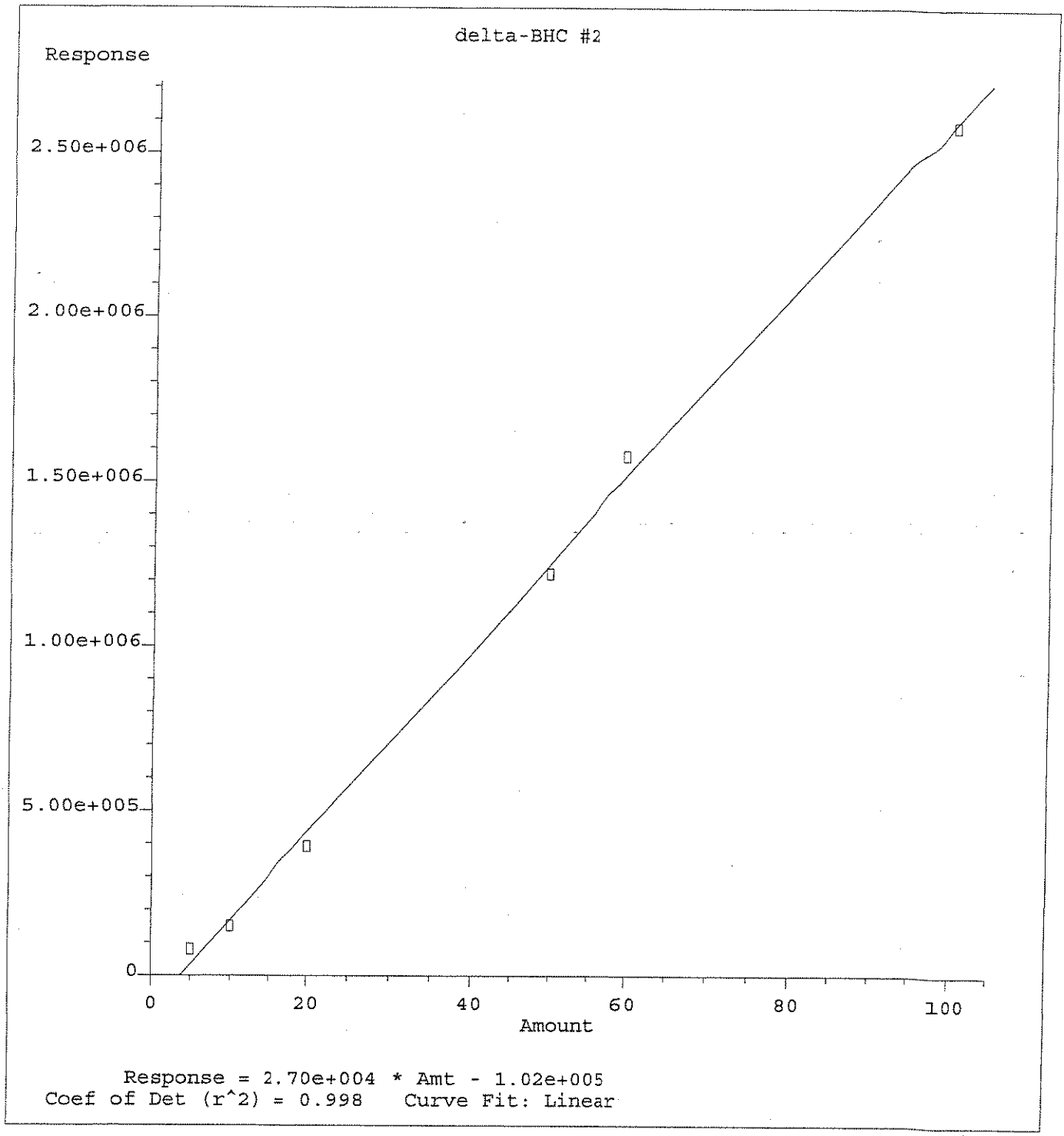

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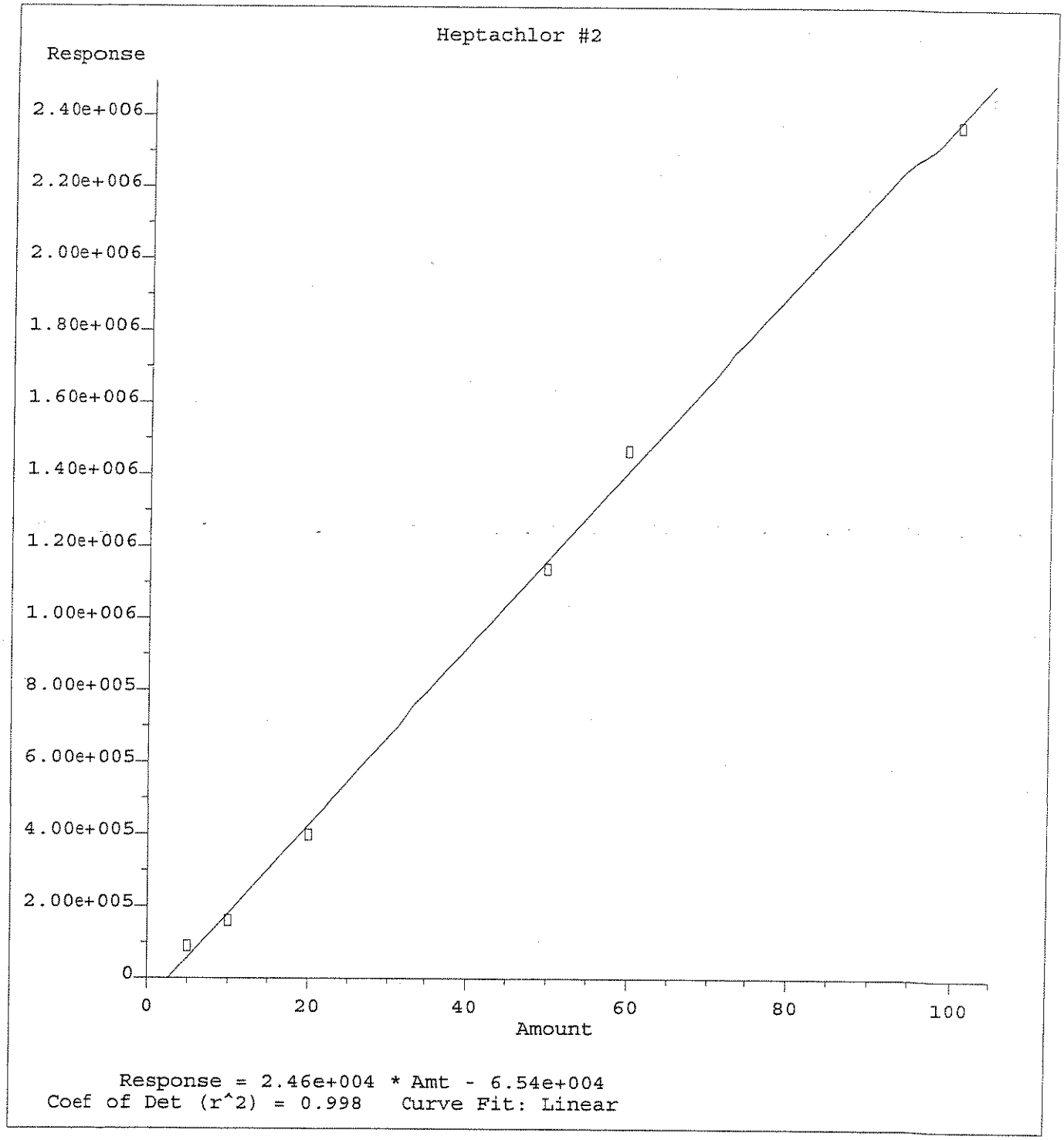

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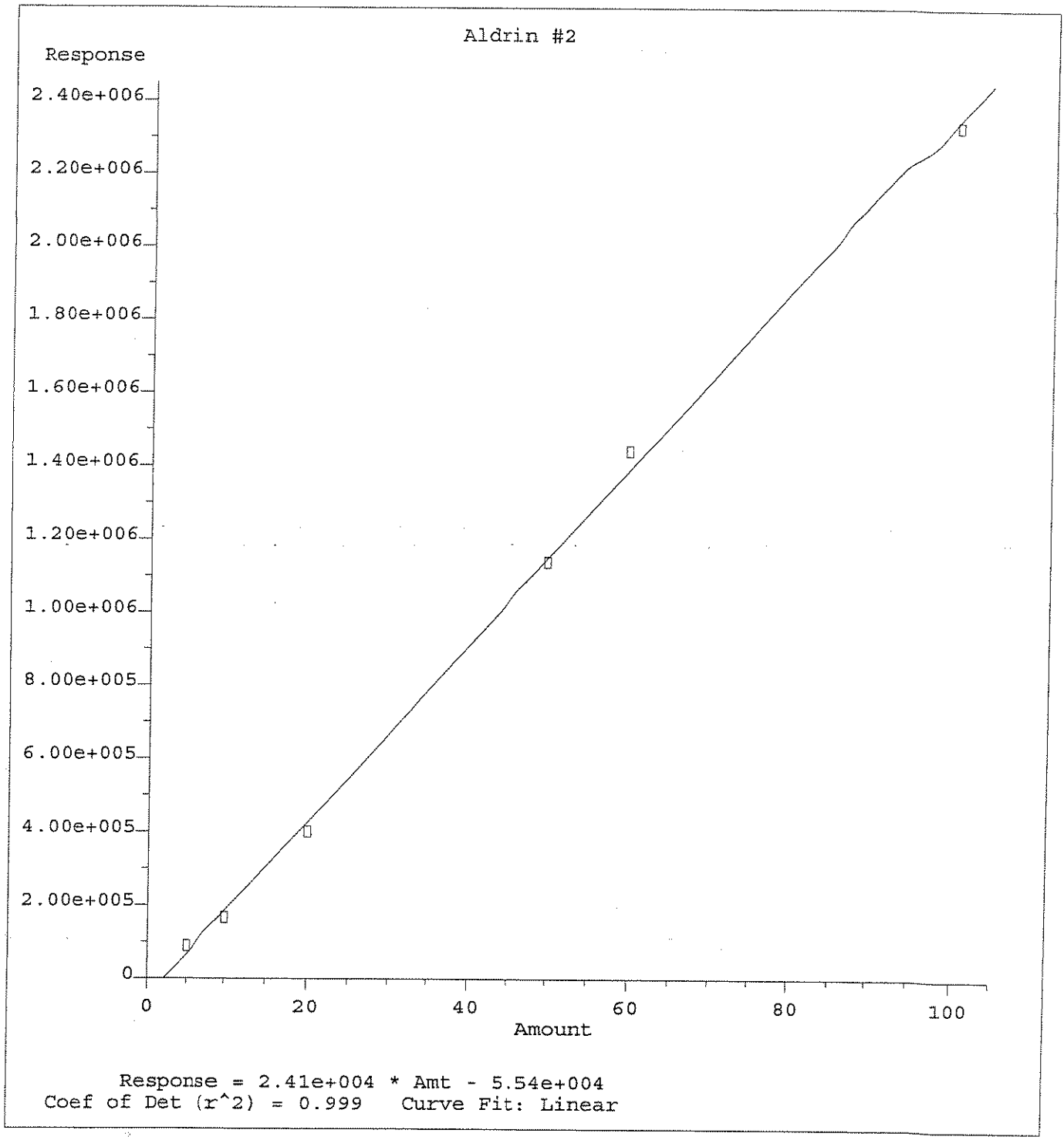

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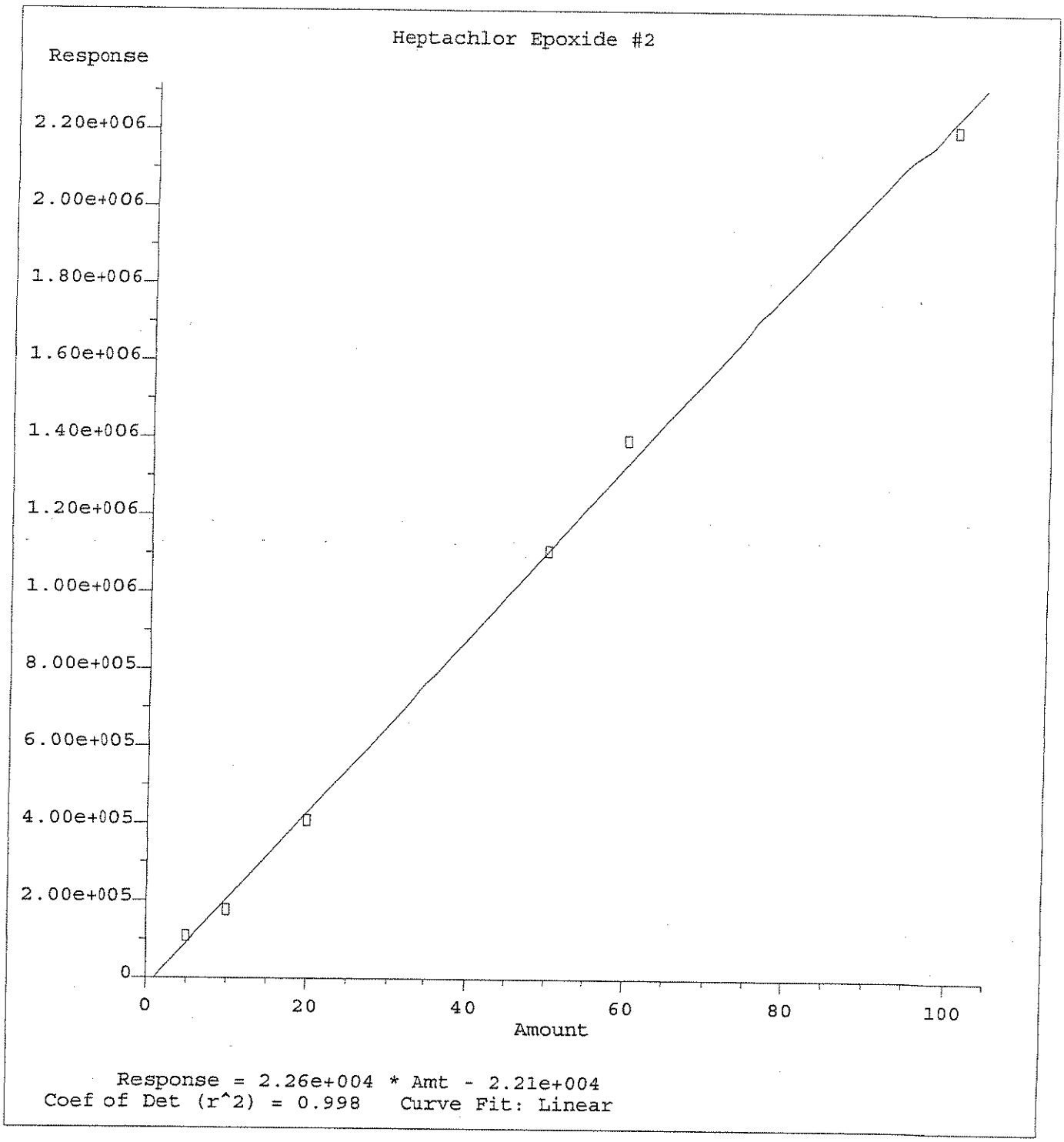

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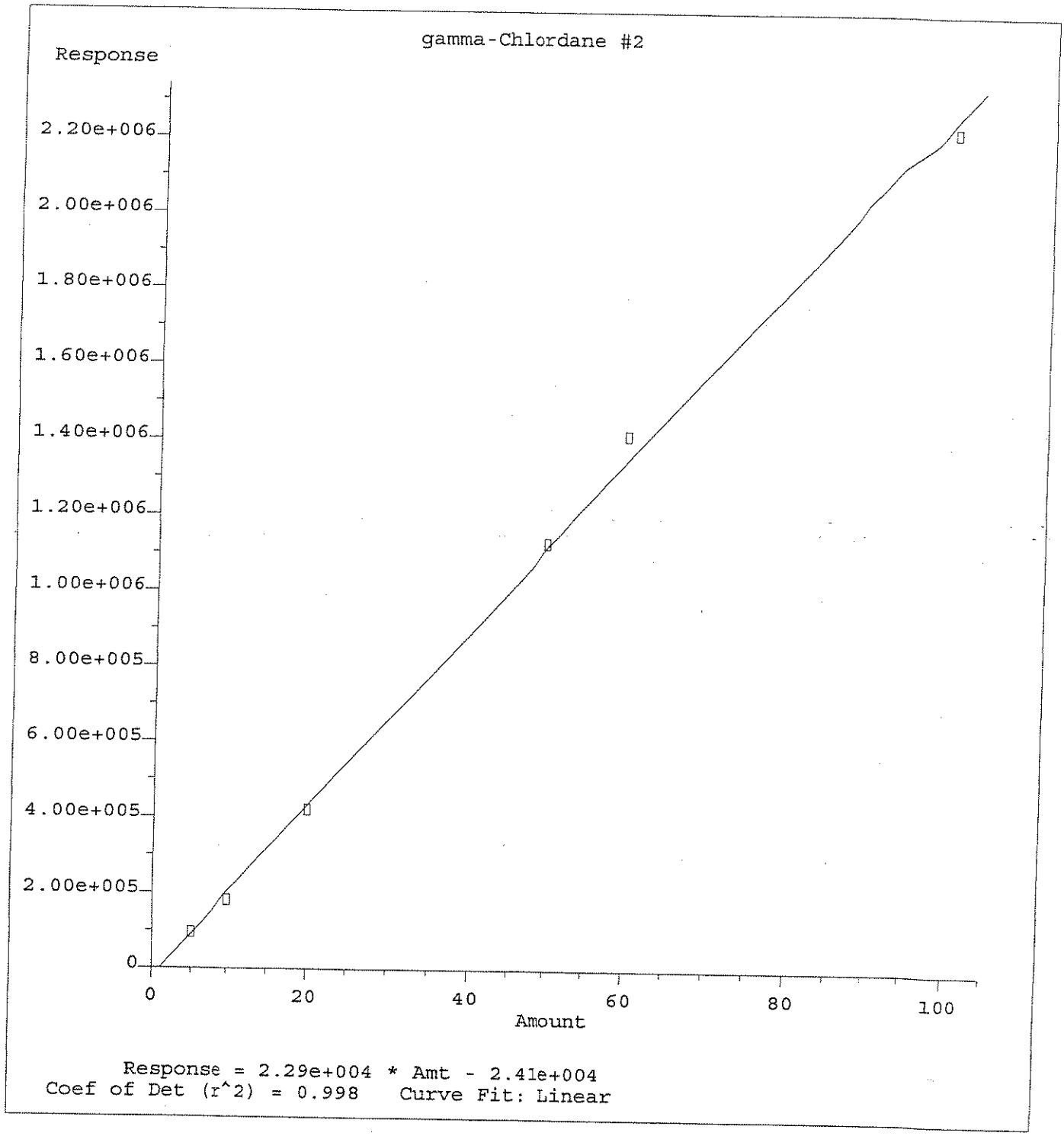

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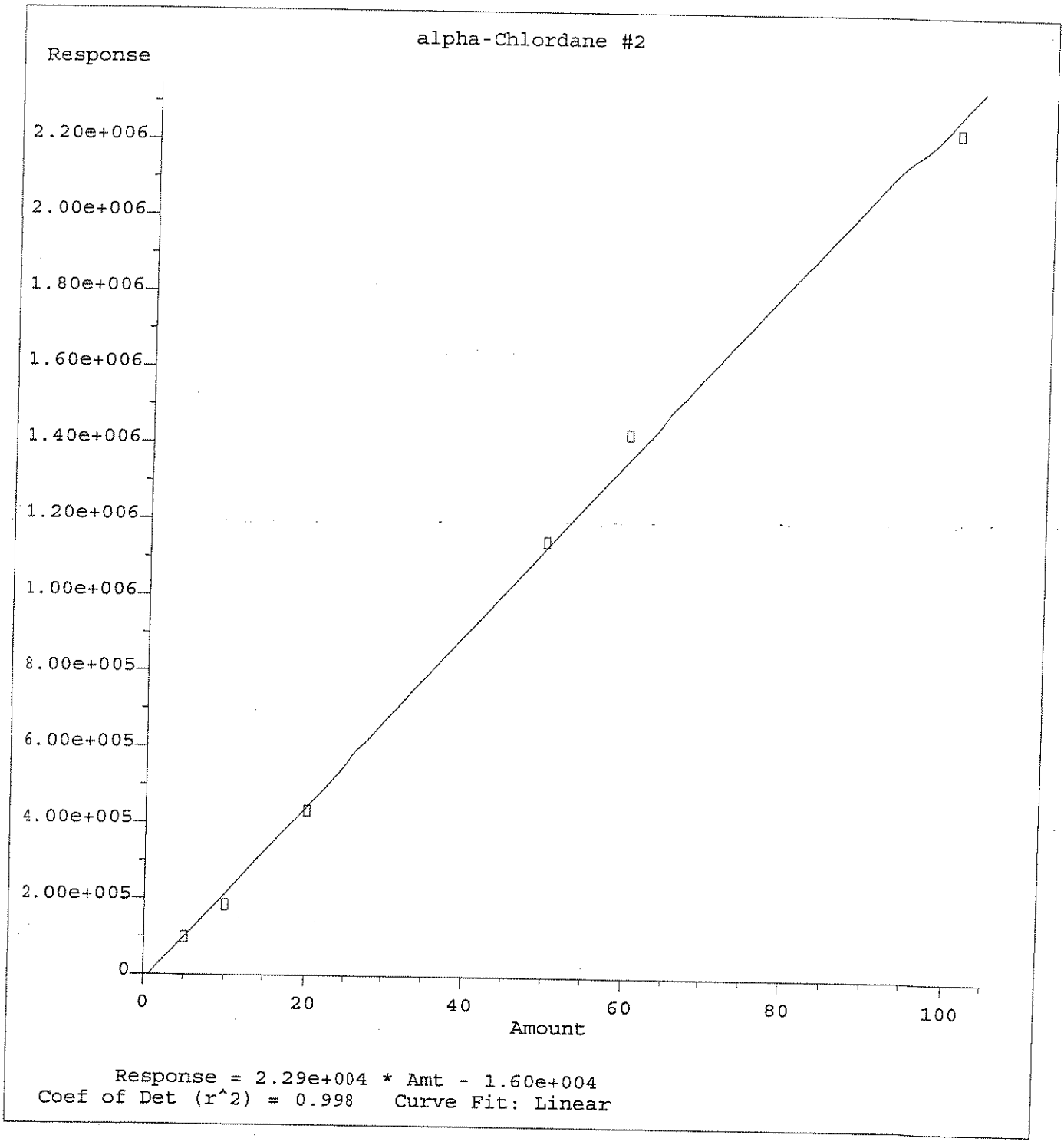

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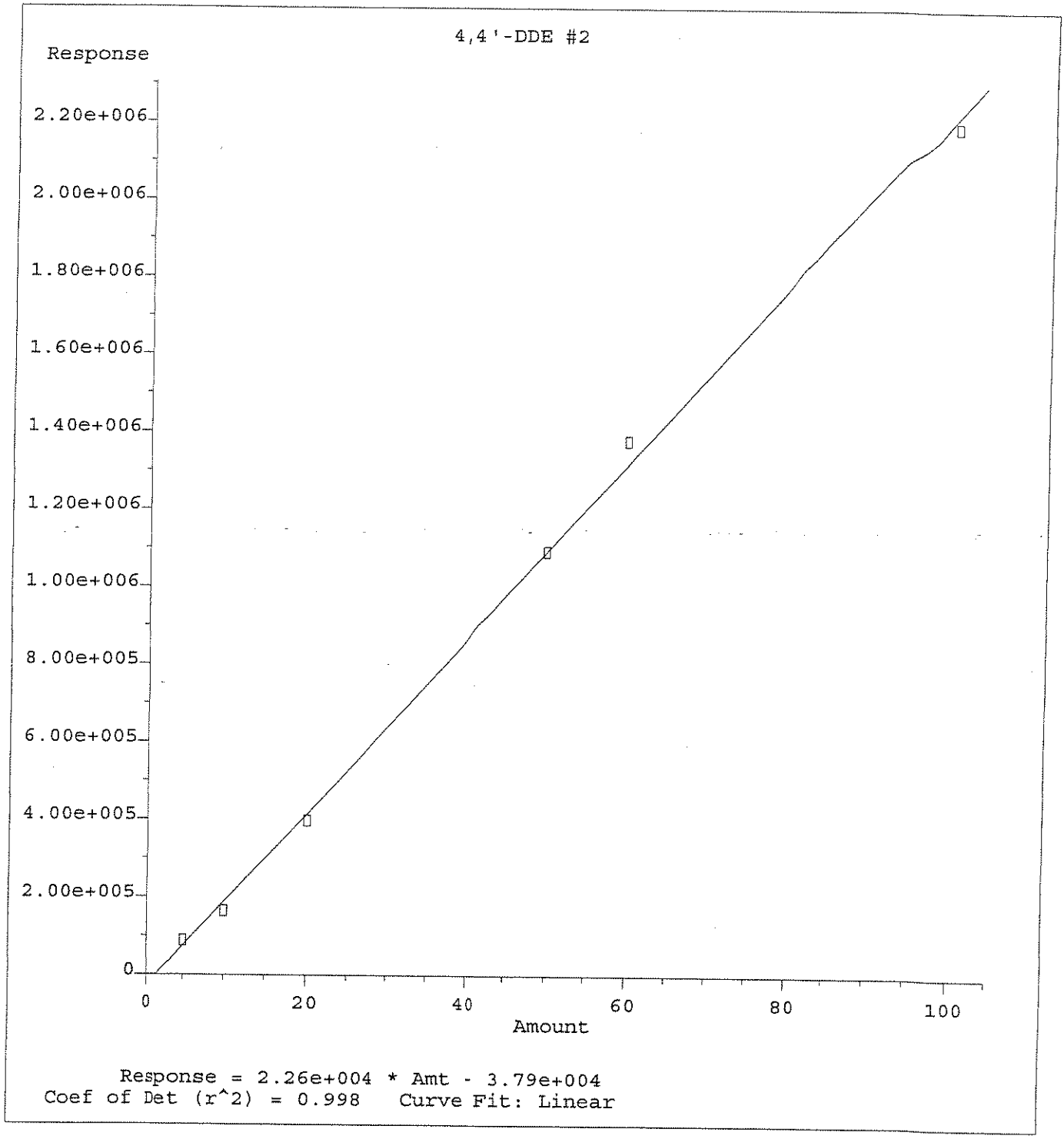

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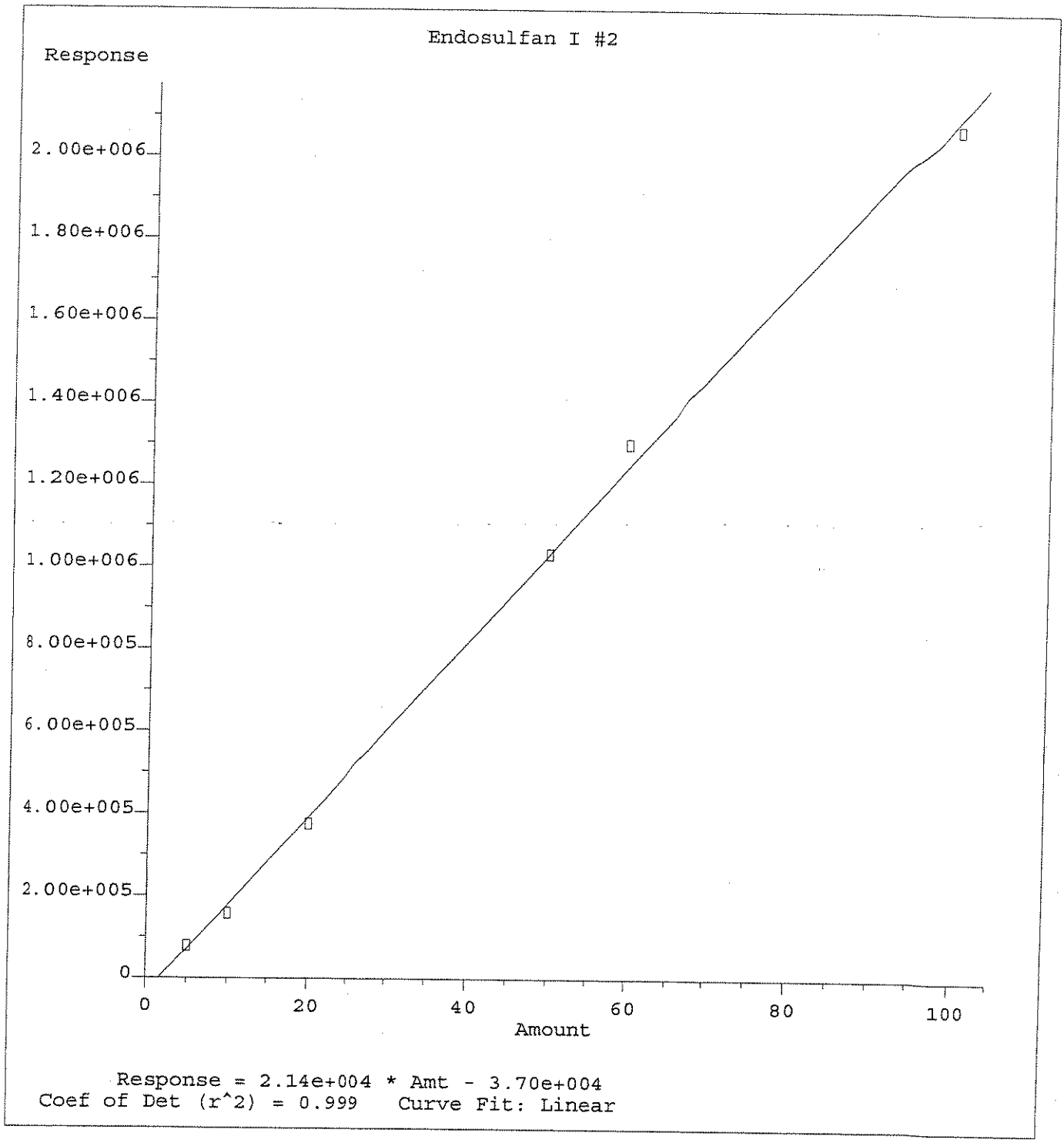

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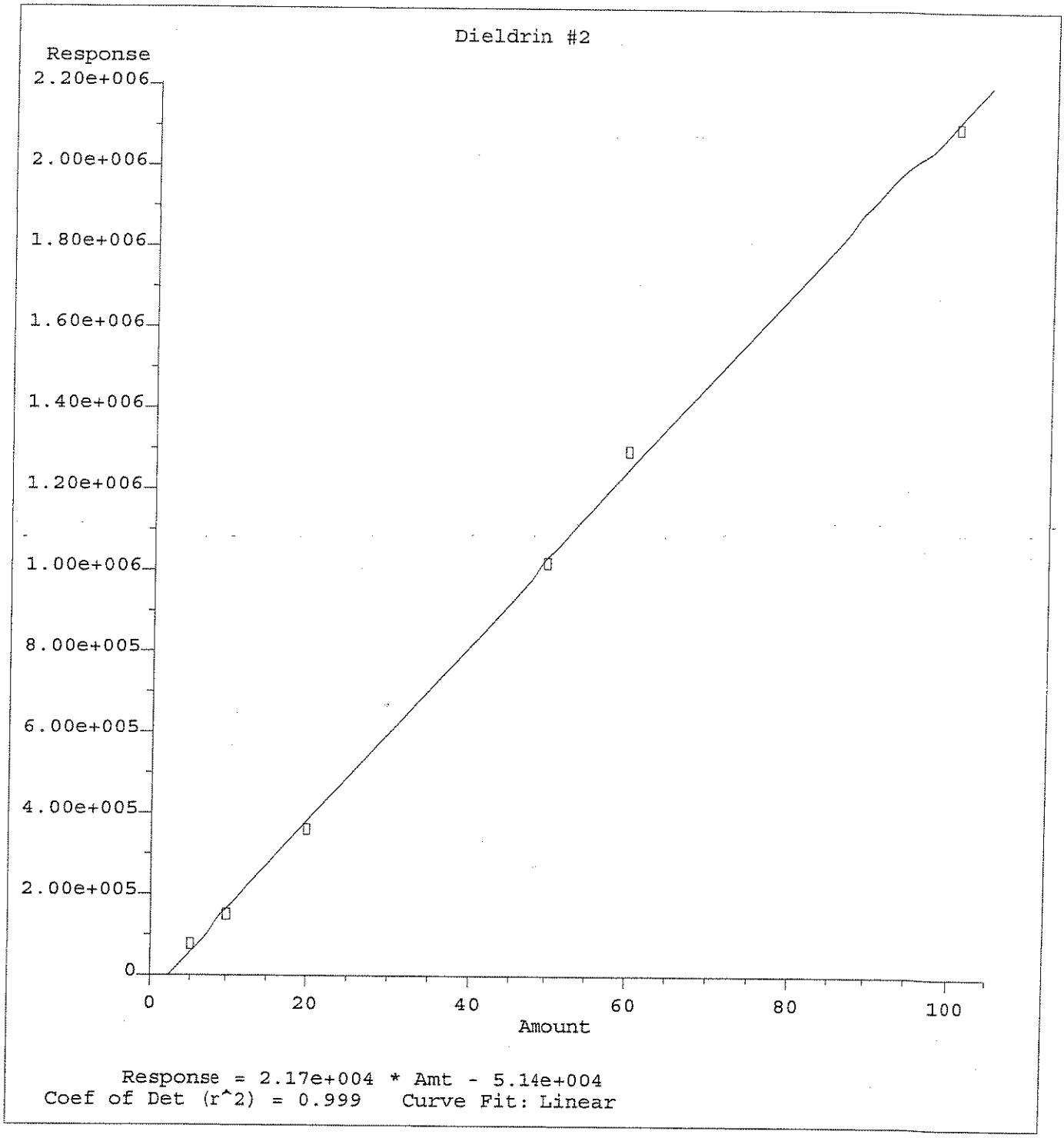

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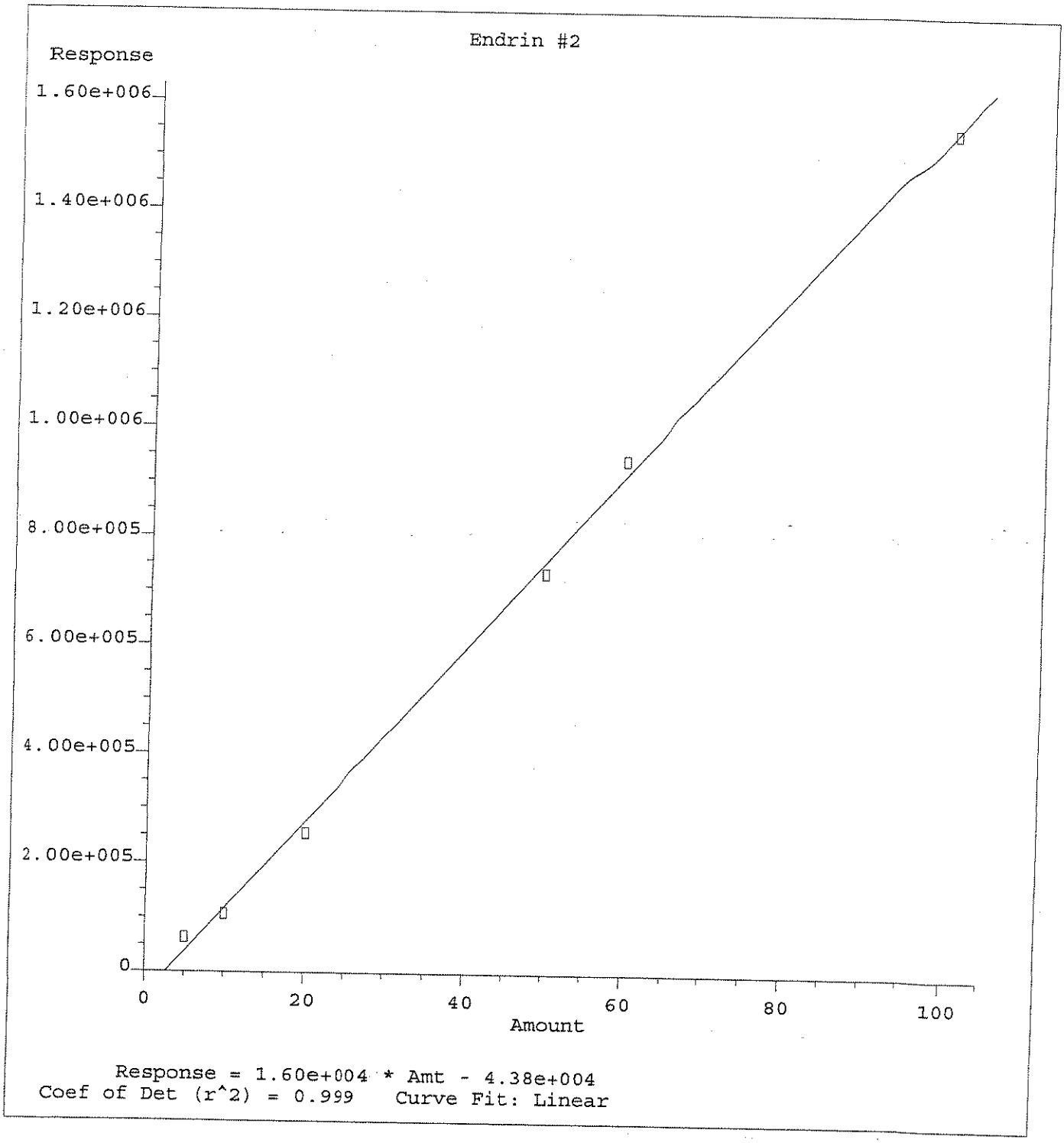

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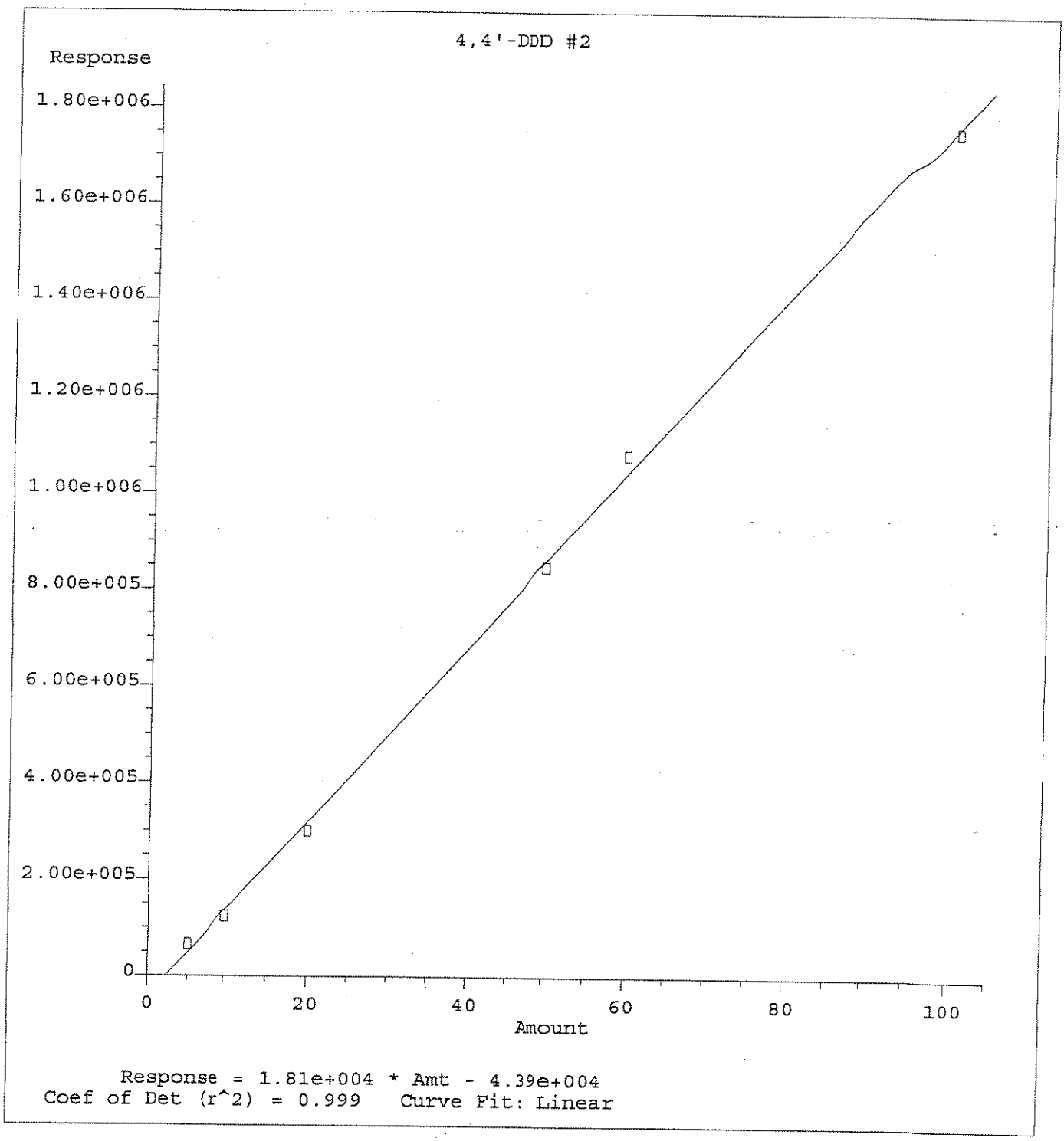

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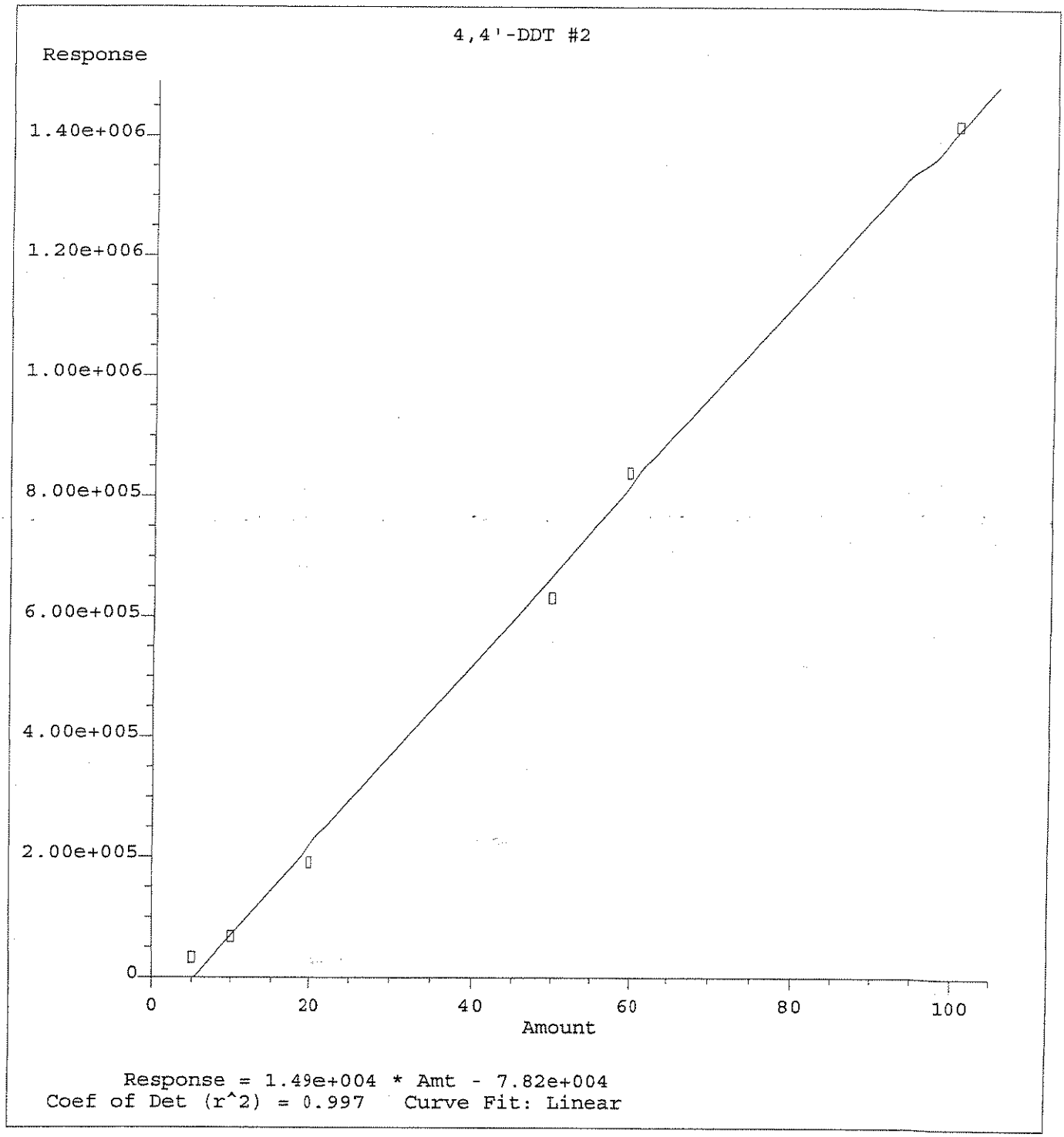

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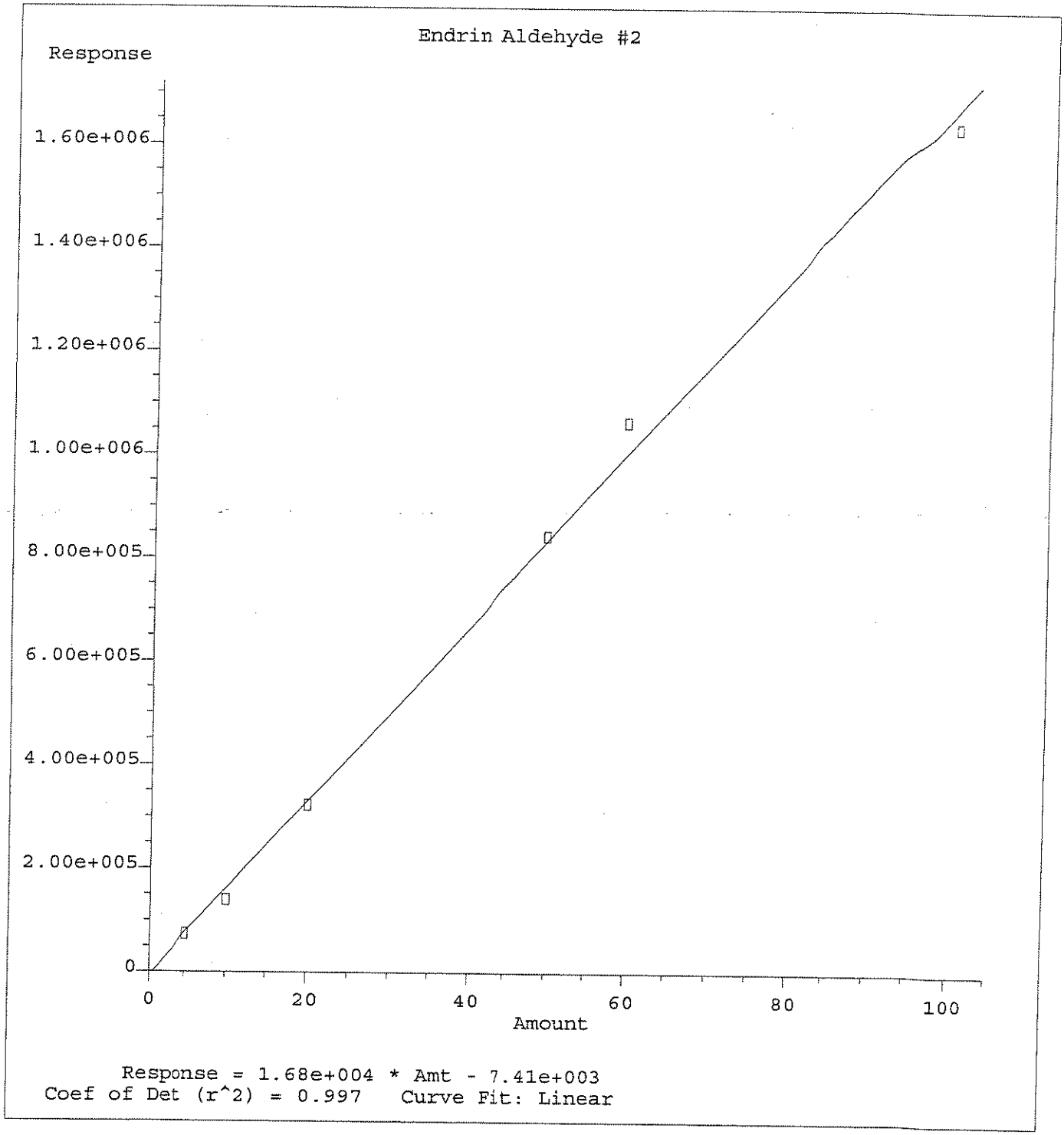

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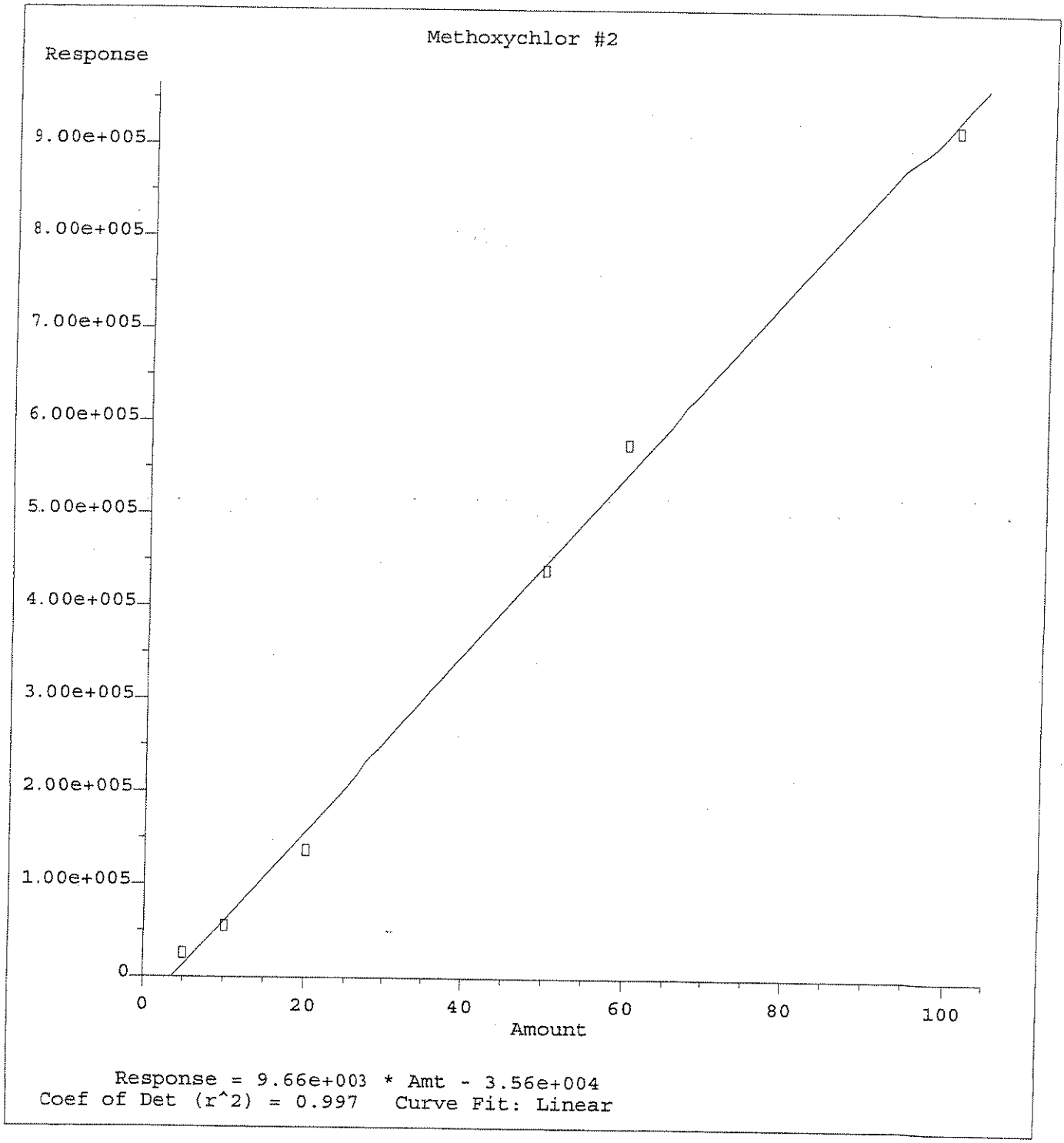
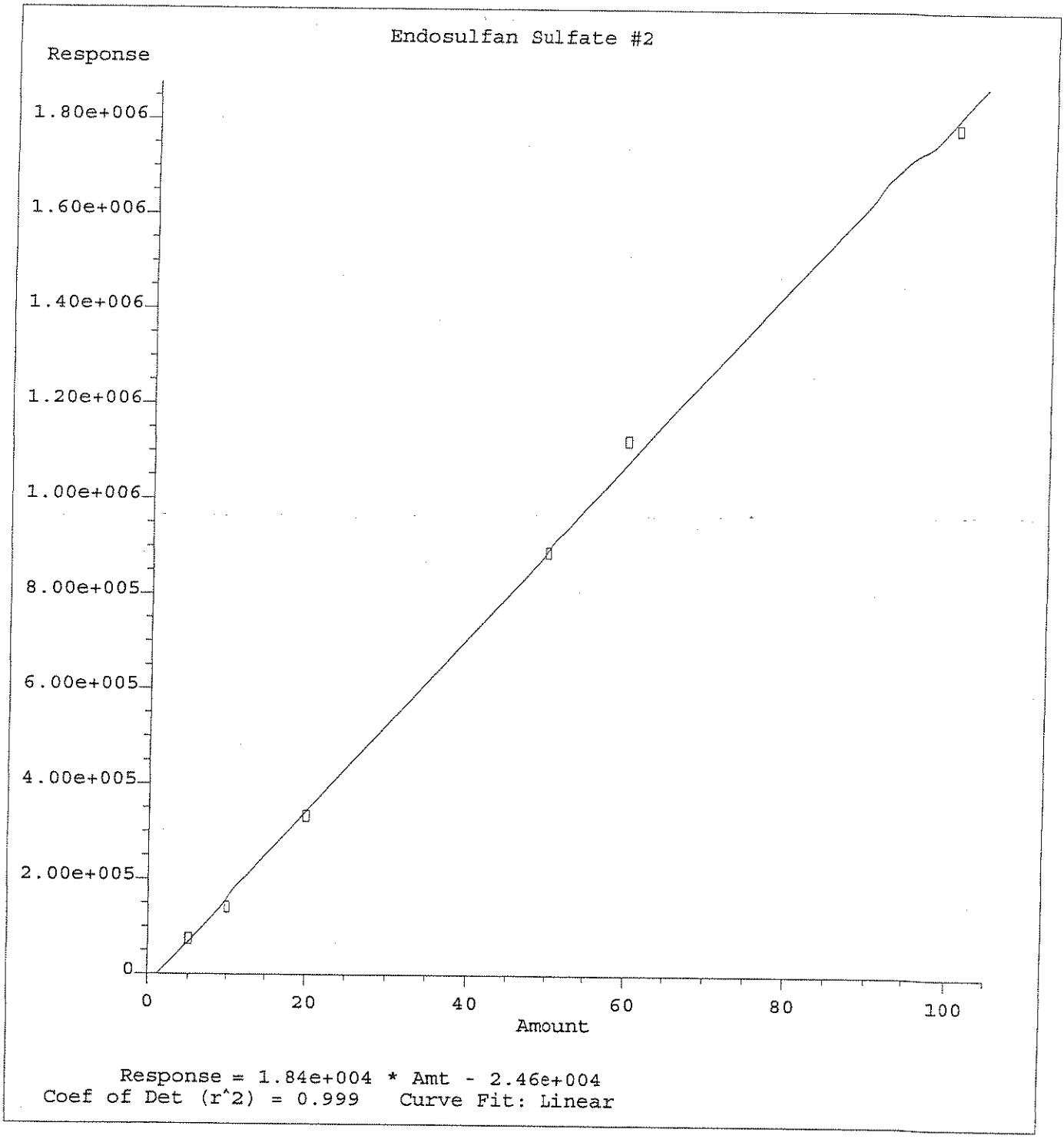
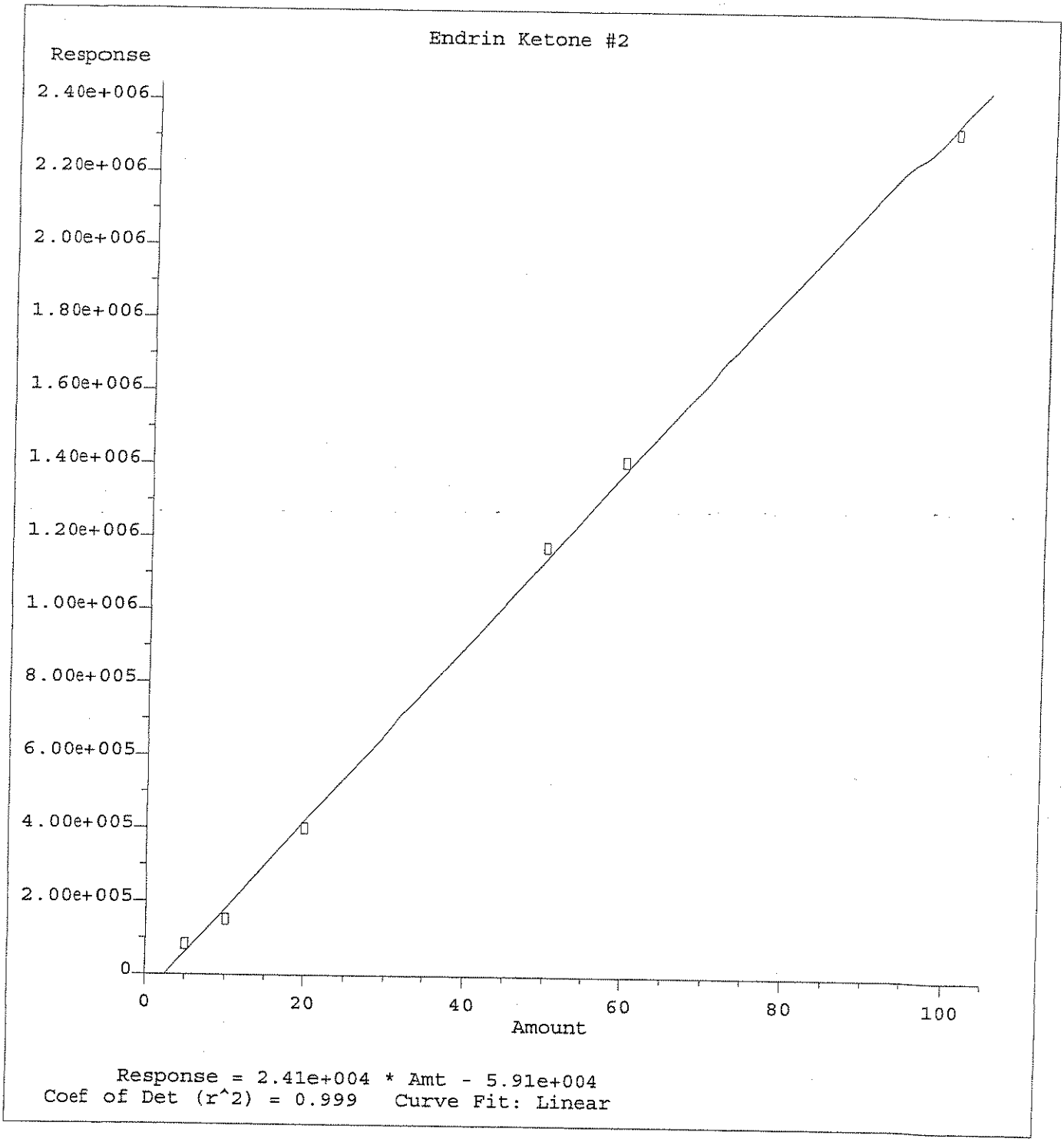
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



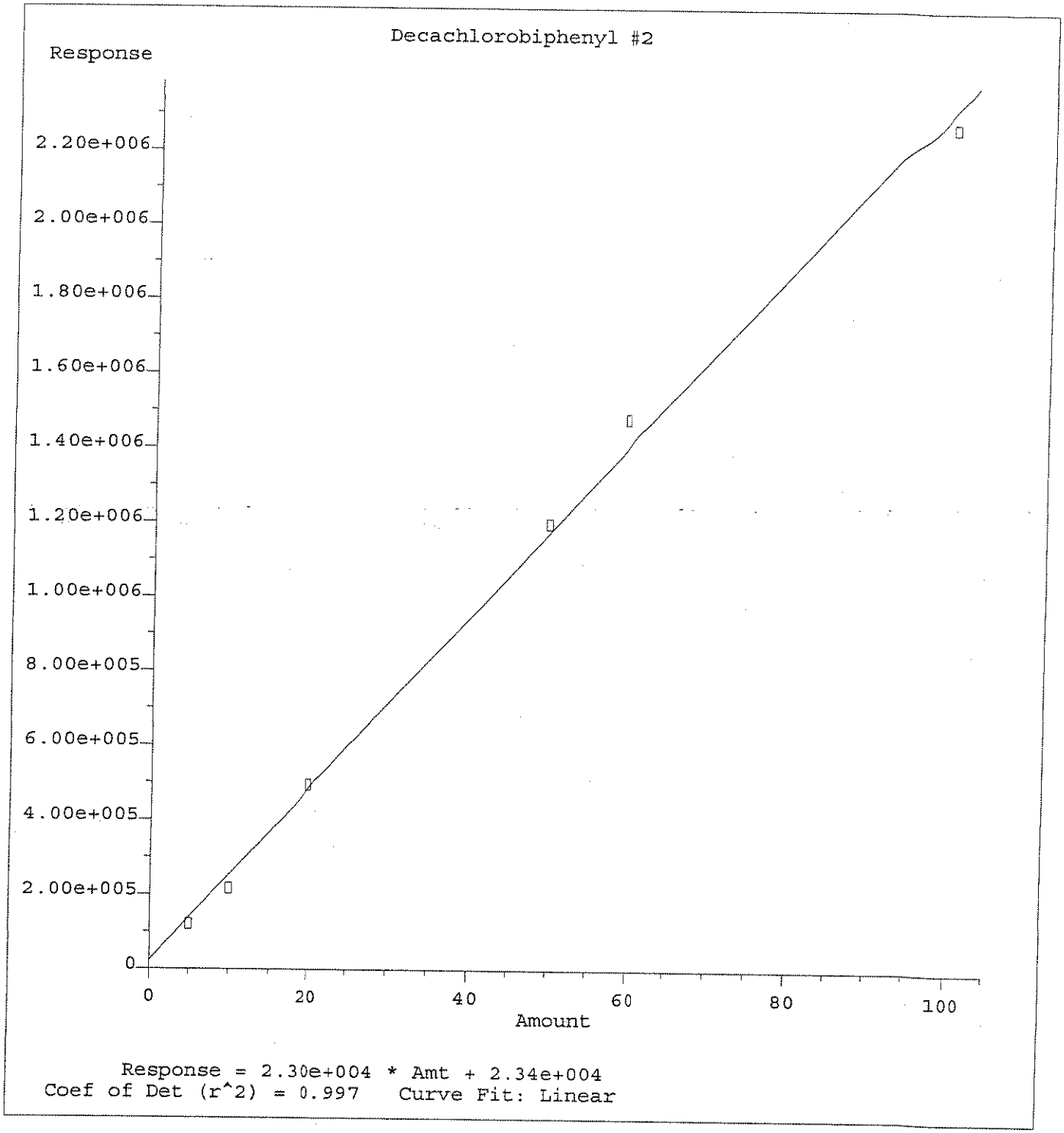
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EH.M
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EH.M
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EH.M
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EH.M
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06216A\011F0101.D Vial: 11
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06216A\011F0101.D\011R0101.D
Acq On : 21 Jun 06 07:45 PM Operator: [GC]1R0101.D\DATA.MS
Sample : PEST SS Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 22 7:03 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.65	8.77	3022504	1096109	49.558	49.946
					Recovery	=	99.12%	99.89%
23)	S	Decachlorobiphenyl	18.15	20.79	2392763	1152419	53.173m	49.074
					Recovery	=	106.35%	98.15%
		Target Compounds						
2)	M	Hexachlorobenzene	8.66	9.94	4282129	1670334	44.255m	44.502
3)	M	alpha-BHC	9.09	10.28	3769576	1352026	51.198	50.076
4)	M	gamma-BHC (Lindane)	9.81	11.05	3539166	1302712	51.668m	50.869
5)	M	beta-BHC	10.03	11.23	1791751	695928	50.993	51.169
6)	M	delta-BHC	10.40	11.82	3263505	1174206	48.301	47.289
7)	M	Heptachlor	10.81	11.97	3221835	1194454	51.755	51.293
8)	M	Aldrin	11.39	12.60	3205603	1199214	52.734m	52.090
9)	M	Heptachlor Epoxide	12.54	13.66	2982597	1138552	52.706	51.373
0)	M	gamma-Chlordane	12.76	13.99	3073616	1192528	53.319	53.151
1)	M	alpha-Chlordane	13.00	14.24	2821931	1175910	51.769	51.940
2)	M	4,4'-DDE	13.13	14.48	2795482	1120704	51.461	51.239
3)	M	Endosulfan I	13.24	14.37	2855928	1053174	50.787	50.998
4)	M	Dieldrin	13.66	14.85	2766254	1075691	52.487	51.974
5)	M	Endrin	14.06	15.37	2052423	755329	50.421	50.046
6)	M	4,4'-DDD	14.15	15.47	2345201	883833	51.494	51.229
7)	M	Endosulfan II	14.45	15.73	2339577	1009472	51.740	50.737
8)	M	4,4'-DDT	14.62	16.01	1911817	679699	49.995	50.889
9)	M	Endrin Aldehyde	15.15	16.30	1977676	832412	54.652m	49.913
0)	M	Methoxychlor	15.40	17.17	1040357	452043	50.613	50.472
1)	M	Endosulfan Sulfate	15.88	16.80	2166999	904258	51.755m	50.617
2)	M	Endrin Ketone	16.37	17.87	2410352	1100366	49.264	48.142m

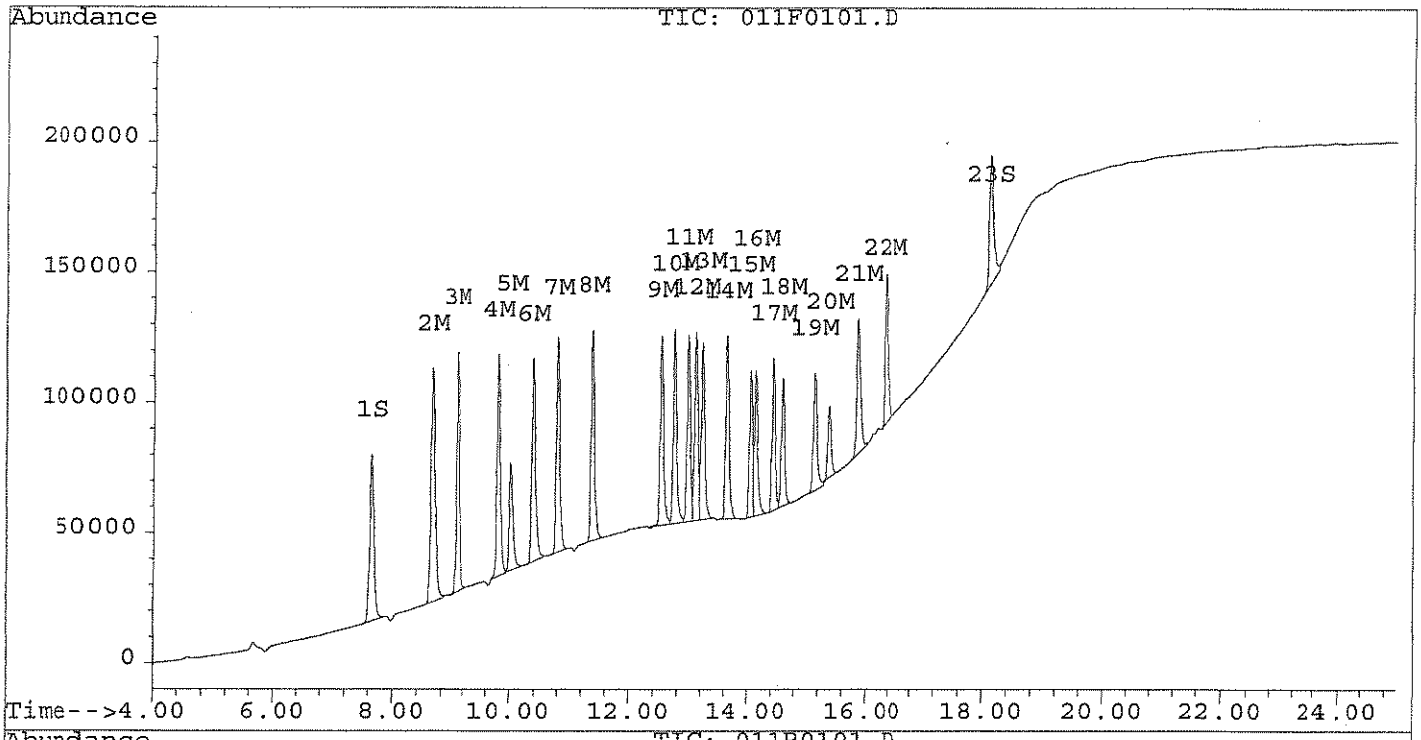
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

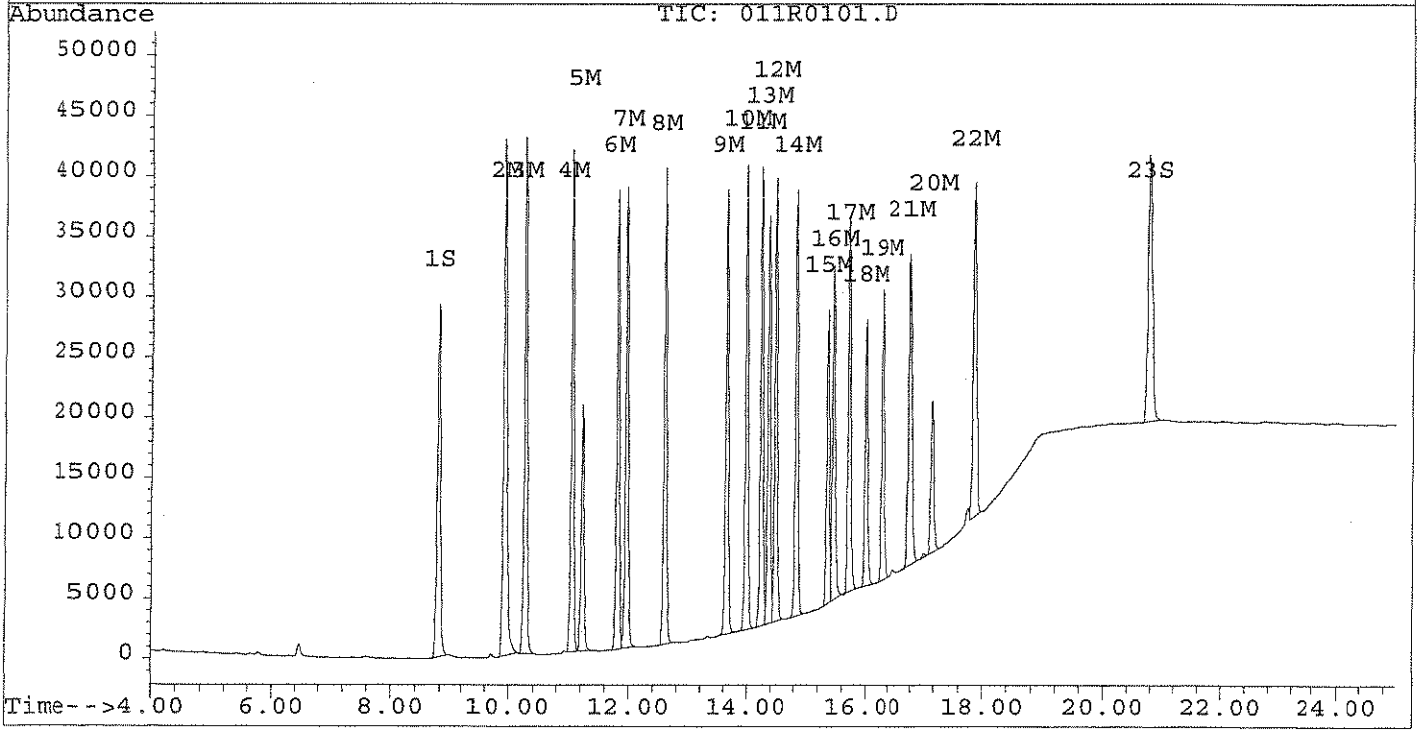
Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06216A\011F0101.D Vial: 11
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06216A\011F0101.D\011R0101.D
Acq On : 21 Jun 06 07:45 PM Operator: [GC]1R0101.D\DATA.MS
Sample : PEST SS Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 22 7:03 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53





ANALYSIS SEQUENCE

BPG0306

Instrument: SVOA6C3

Calibnration ID: ~~UNASSIGNED~~ 8081EH

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0306-PEM1	QC		1		6E02036		
BPG0306-CCV1	QC		2		6F26099		
BF62329-BLK1	QC		3				
BF62329-BS1	QC		4				
BF62329-BSD1	QC		5				
BPG0306-CCV2	QC		6		6F26099		

Samples Loaded By Date Data Processed By Date

ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/23/06	25	6E062306-25	BF62315-BLK1 ✓	8081EA	TCLP	SB
	26	26	BS1 ✓			
	27	27	BS01 ✓			
	28	28	0606310-01 ✓			
	29	29	02 ✓			
	30	30	02MS ✓			
	31	31	03 ✓			
	32	32	04 ✓			
	33	33	05 ✓			
	34	34	06 ✓			
	35	35	07 ✓			
	11	11	Pest 50 CL ✓		6F23069 2:24 AM	
6/23/06	11	11	Pest 50 CL	8081EA		SB
6/26/06	1	6E062606-01	Prime			SB
	2	02	[illegible] ✓		6E02036 09:34AM	
	3	03	Pest 50 CL ✓		6F26099 CCV1 10:02AM	
	3	03	Pest 50 CL		699	
	4	04	Chlor 250 ✓		6F26100	
	5	05	BF62333-BLK1 ✓			
	6	06	BS1 ✓			
	7	07	BS01 ✓			
	8	08	0606372-03 ✓			
	9	09	BF62329-BLK1 ✓		-8 = BPG0306	
	10	10	BS1 ✓			
	11	11	BS01 ✓			
6/26/06	12	6E0626042	0606373-01 ✓	8081EA		SB

CONTROL NUMBER 60.0012-0602A

ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYS
6/26/06	13	GED02586-13	0606373-03 ✓	8081 EH		SR
	14	14	05 ✓			
	15	15	07 ✓			
	16	16	09 ✓		(R2)	
	17	17	12 ✓			
	18	18	14 ✓			
	19	19	16 ✓			
	20	20	16MS ✓			
	21	21	16MSD ✓			
	1	1	Hexane			
	2	2	Perm ✓		7:53PM	
	3	3	Pest 50 CC ✓		CF26099 CCV2 8:21PM	
	3	3	Pest 50 CC		↓ 099	
	4	4	Chlor 250 pL ✓		CF26100	
	22	22	0606373-18 ✓			
	23	23	20 ✓			
	24	24	0606374-01 ✓			
	25	25	03 ✓			
	26	26	05 ✓			
	27	27	07 ✓			
	28	28	09 ✓			
	29	29	11 ✓			
	30	30	13 ✓			
	31	31	15 ✓			
	32	32	Hexane			
	03	03	Pest 50 CC ✓		CF26099 2:25AM	
	03	03	Pest 50 CC		↓ 099 25 SR	
	04	GED02600-04	Chlor 250 pL ✓	8081 EH	CF26100	SR

CONTROL NUMBER 60.0012-0602A

PAGE_____

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE062606\002F0101.D Vial: 2
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE062606\002F0101.D\002R0101.D
Acq On : 26 Jun 06 09:34 AM Operator: [GC]2R0101.D\DATA.MS
Sample : PEM Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 26 11:05 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.63	8.75	2963709	1044618	48.596	47.629
					Recovery	=	97.19%	95.26%
23)	S	Decachlorobiphenyl	18.12	20.76	1725777	852478	38.197m	36.037
					Recovery	=	76.39%	72.07%
		Target Compounds						
2)	M	Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3)	M	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	M	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.d	N.D.d
5)	M	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6)	M	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	M	Heptachlor	0.00	0.00	0	0	N.D.d	N.D.d
8)	M	Aldrin	0.00	0.00	0	0	N.D.	N.D.
9)	M	Heptachlor Epoxide	0.00	0.00	0	0	N.D.d	N.D.d
10)	M	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	M	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
12)	M	4,4'-DDE	0.00	0.00	0	0	N.D.d	N.D.d
13)	M	Endosulfan I	0.00	0.00	0	0	N.D.d	N.D.d
14)	M	Dieldrin	0.00	0.00	0	0	N.D.d	N.D.d
15)	M	Endrin	14.04	15.35	4749513	1601775	116.206m	103.059m
16)	M	4,4'-DDD	14.16	15.47	153854	85679	4.156m	7.157m#
17)	M	Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18)	M	4,4'-DDT	14.60	15.99	4527356	1558222	116.384	109.877
19)	M	Endrin Aldehyde	15.13	16.25	15917	7514	1.377m	0.887m#
20)	M	Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
21)	M	Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22)	M	Endrin Ketone	16.32	17.81	249218	87351	6.222	6.082m

Σ $\frac{265135}{5014648} = 5.28\%$ DDT $\frac{153854}{4681210} = 3.28\%$

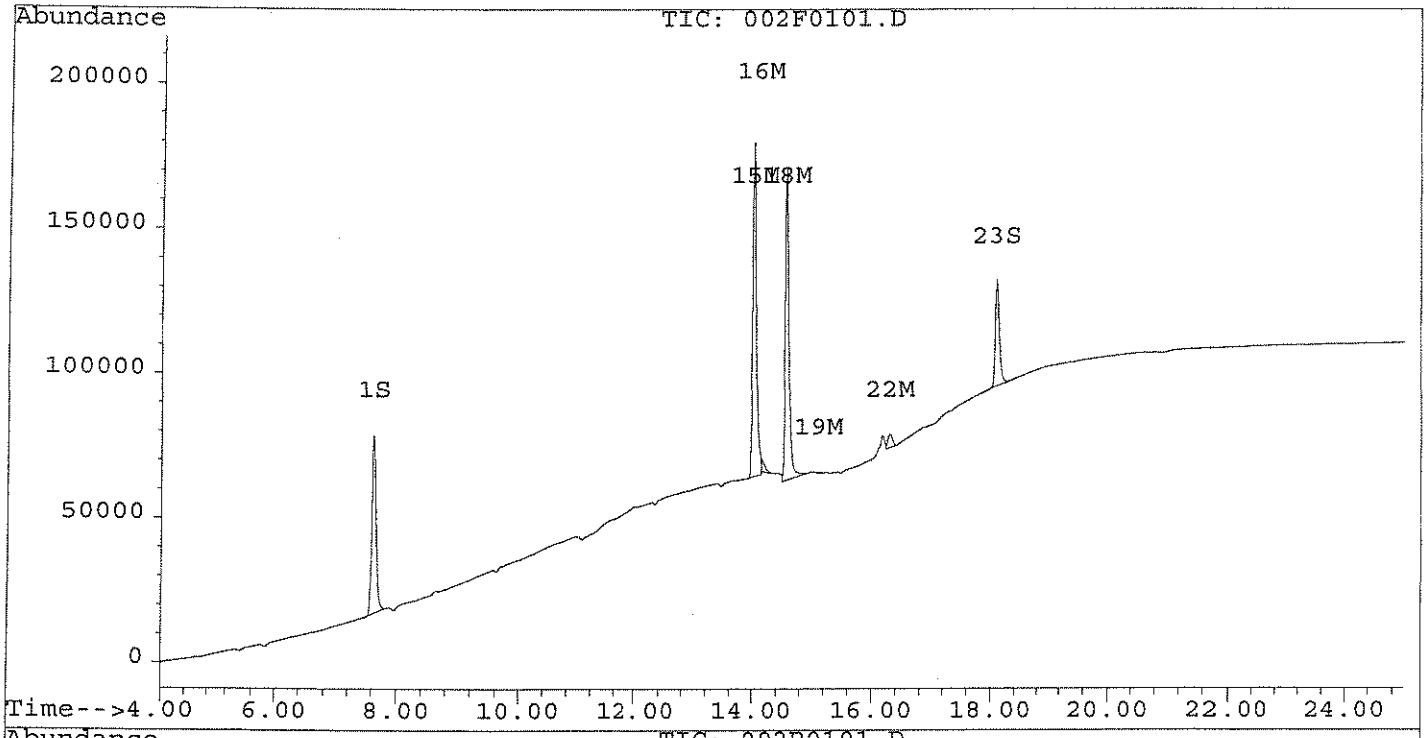
Σ $\frac{94865}{1696640} = 5.59\%$ DDT $\frac{85679}{1643901} = 5.21\%$

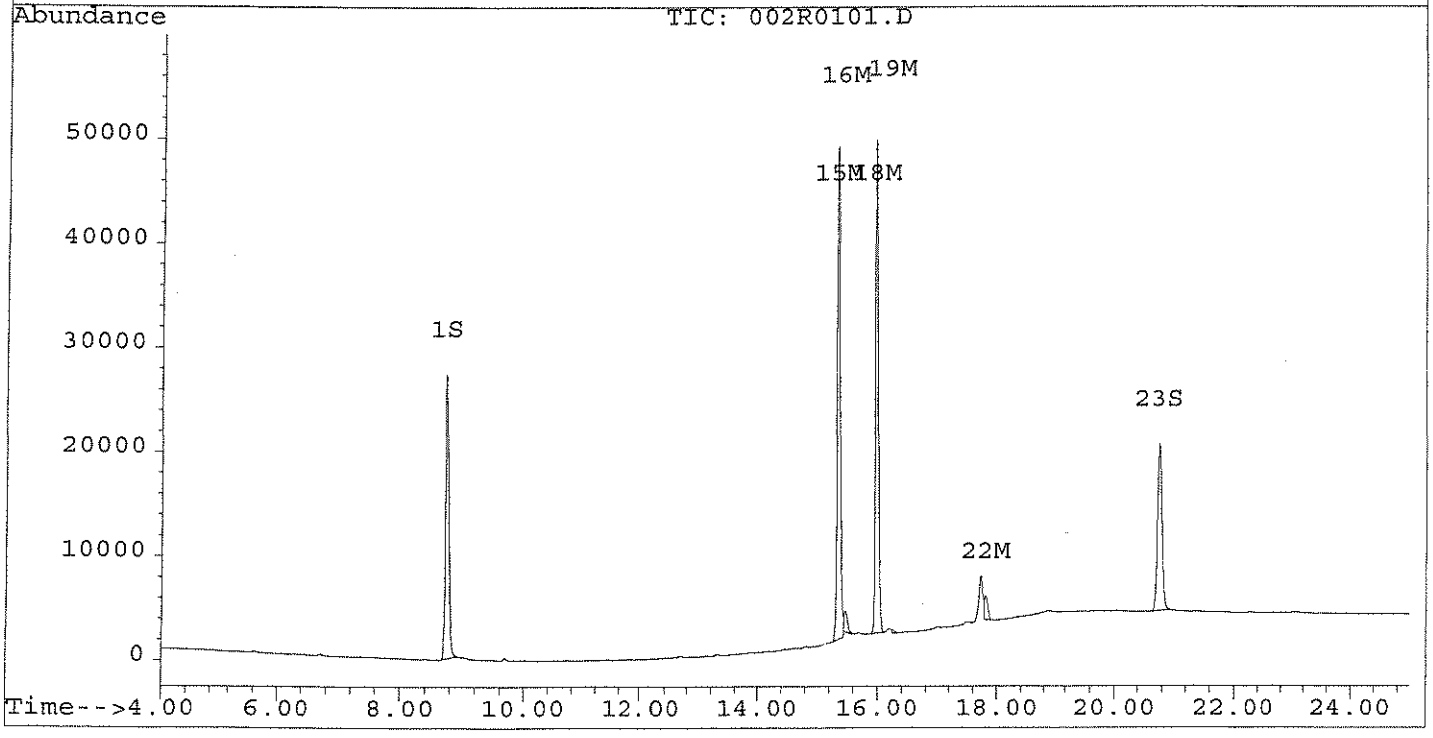
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE062606\002F0101.D Vial: 2
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE062606\002F0101.D\002R0101.D
Acq On : 26 Jun 06 09:34 AM Operator: [GC]2R0101.D\DATA.MS
Sample : PEM Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 26 11:05 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

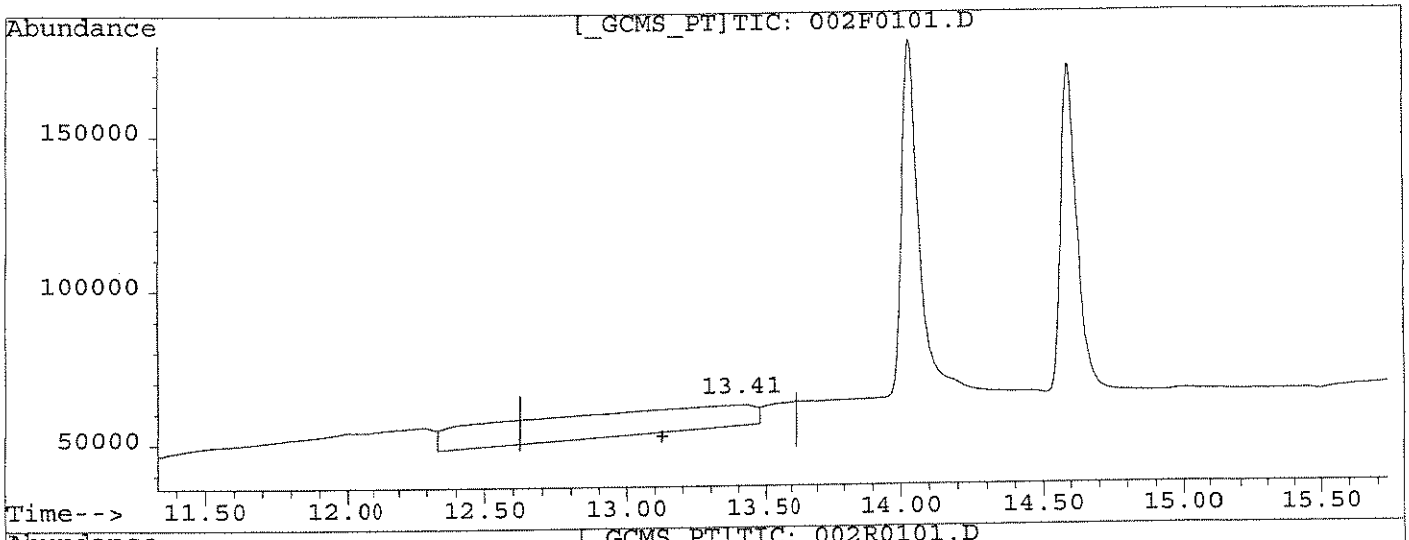
Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

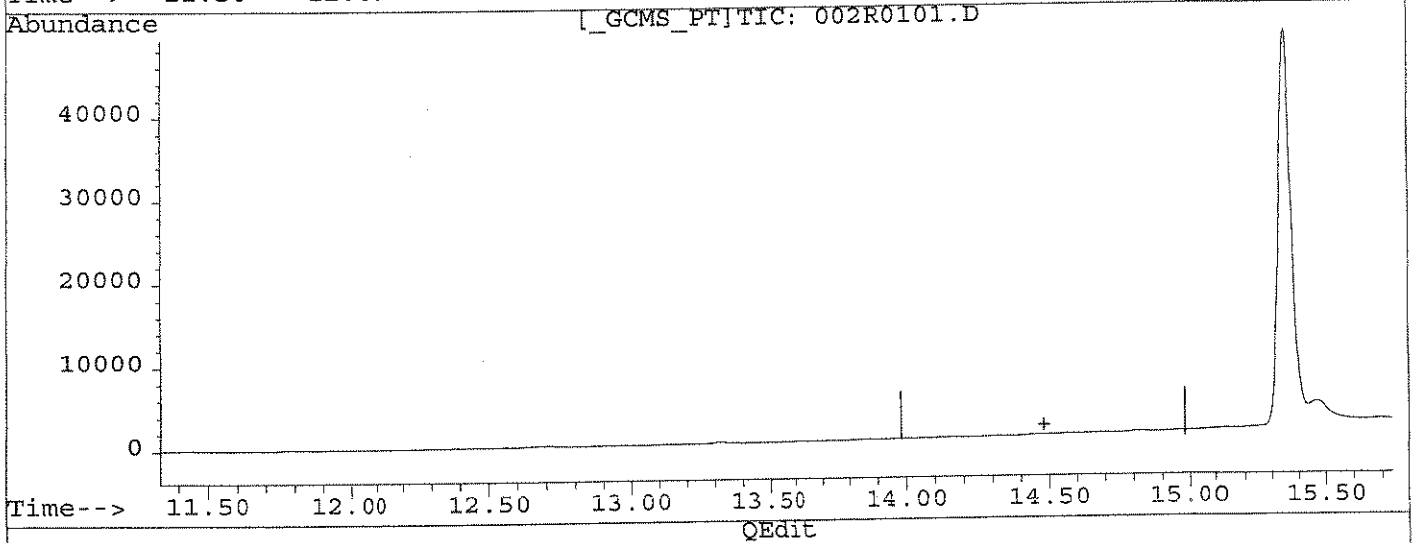




Signal #1 : Q:\SVOA\GC3_GE\DATA\GE062606\002F0101.D Vial: 2
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE062606\002F0101.D\002R0101.D
Acq On : 26 Jun 06 09:34 AM Operator: [GC]2R0101.D\DATA.MS
Sample : PEM Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 26 11:02 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration





QEdit

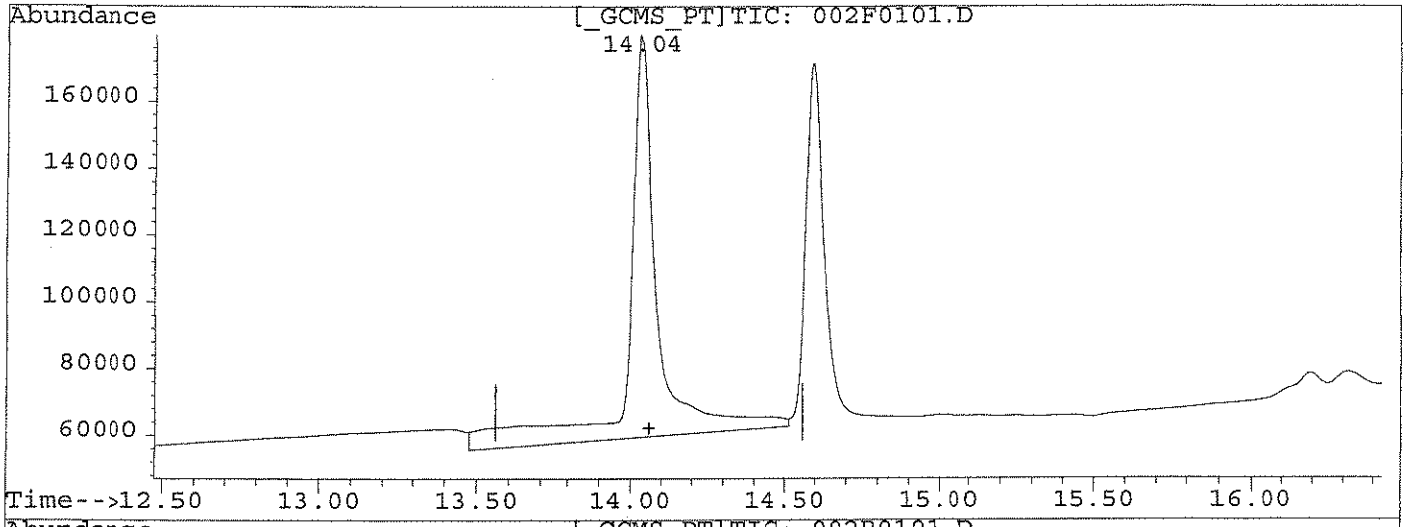
(12) 4,4'-DDE (M)
13.41min 93.25PPB
response 5055660

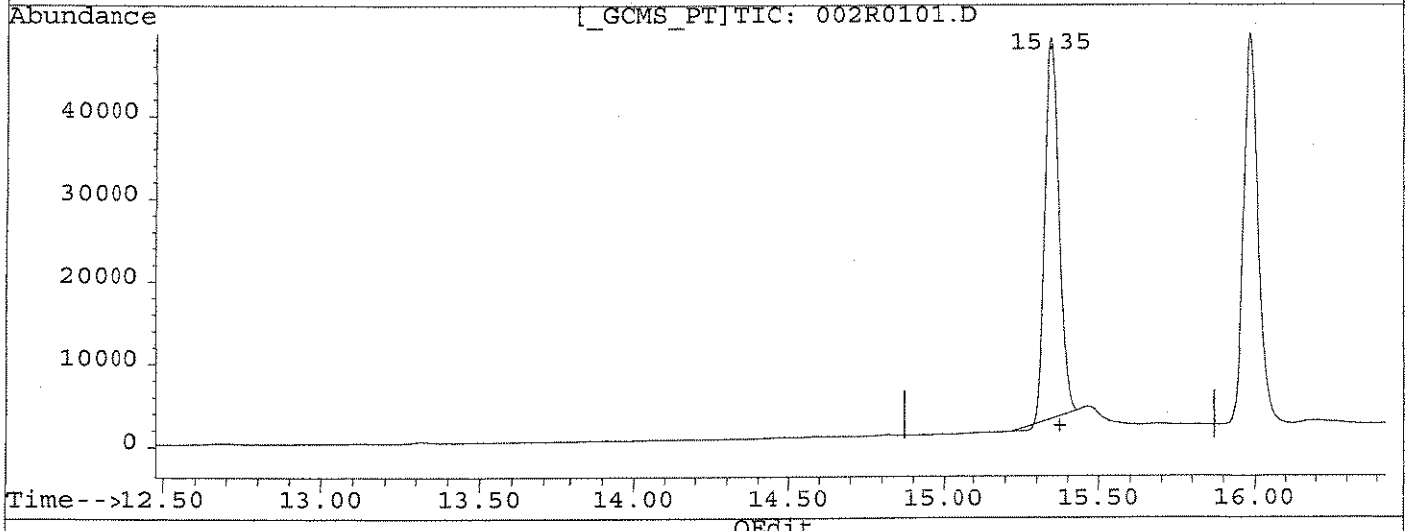
(12) 4,4'-DDE #2 (M)
0.00min 0.00PPB
response 0

(+) = Expected Retention Time
002F0101.D 8081EH.M Mon Jun 26 11:03:25 2006

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE062606\002F0101.D Vial: 2
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE062606\002F0101.D\002R0101.D
Acq On : 26 Jun 06 09:34 AM Operator: [GC]2R0101.D\DATA.MS
Sample : PEM Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 26 11:02 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration





QEdit

(15) Endrin (M)
14.04min 195.50PPB
response 8000397

(15) Endrin #2 (M)
15.35min 93.80PPB
response 1453989

(+) = Expected Retention Time
002F0101.D 8081EH.M Mon Jun 26 11:03:35 2006

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE062606\003F0101.D Vial: 3
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE062606\003F0101.D\003R0101.D
Acq On : 26 Jun 06 10:02 AM Operator: [GC]3R0101.D\DATA.MS
Sample : PEST 50CC Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 26 11:01 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

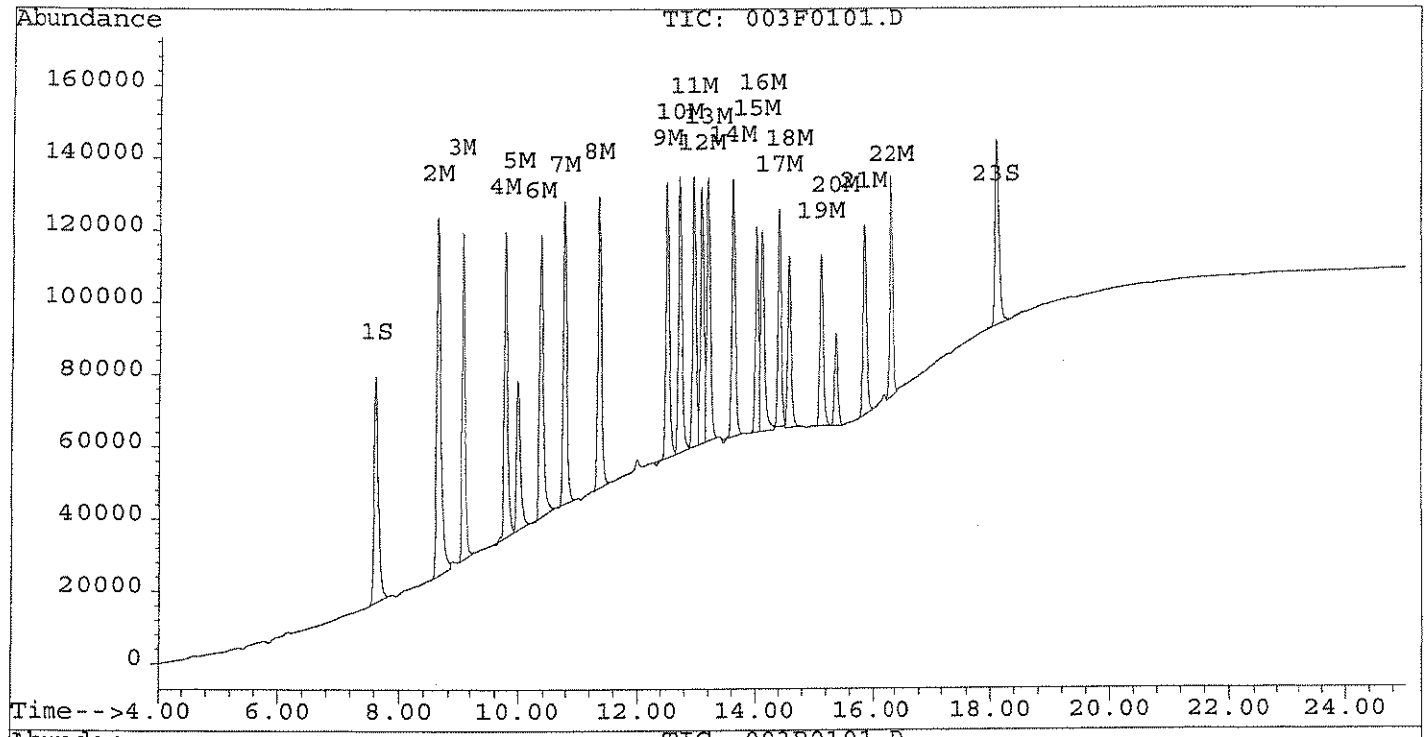
		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.63	8.75	3054860	1074785	50.087	48.987
					Recovery	=	100.17%	97.97%
13)	S	Decachlorobiphenyl	18.12	20.76	2418639	1204160	53.754m	51.323
					Recovery	=	107.51%	102.65%
		Target Compounds						
2)	M	Hexachlorobenzene	8.64	9.92	499160S	1893038	51.884m	50.571
3)	M	alpha-BHC	9.07	10.25	3820067	1273884	51.867m	47.423
4)	M	gamma-BHC (Lindane)	9.79	11.03	3612633	1240020	52.722	48.580
5)	M	beta-BHC	10.01	11.21	1871221	675317	53.248	49.683
6)	M	delta-BHC	10.38	11.80	3526055	1156415	52.065	46.629
7)	M	Heptachlor	10.78	11.95	3324889	1145725	53.385	49.309
8)	M	Aldrin	11.37	12.58	3250591	1118788	53.473m	48.751
9)	M	Heptachlor Epoxide	12.52	13.64	3085037	1105882	54.525	49.927
20)	M	gamma-Chlordane	12.74	13.97	3145800	1138148	54.571	50.776
21)	M	alpha-Chlordane	12.98	14.22	2964795	1153008	54.424	50.942
22)	M	4,4'-DDE	13.11	14.46	2814013	1108442	51.804	50.697
23)	M	Endosulfan I	13.22	14.35	3100120	1035266	55.063	50.160
24)	M	Dieldrin	13.64	14.82	2821658	1010728	53.532	48.978
25)	M	Endrin	14.04	15.35	2130985	700476	52.337	46.611
26)	M	4,4'-DDD	14.13	15.45	2558099	869973	56.093	50.463
27)	M	Endosulfan II	14.43	15.70	2446948	960683	54.086m	48.297
28)	M	4,4'-DDT	14.60	15.99	1886999	612382	49.365	46.369
29)	M	Endrin Aldehyde	15.13	16.27	1963871	867185	54.277	51.980
30)	M	Methoxychlor	15.38	17.15	1005703	423359	48.997	47.503
31)	M	Endosulfan Sulfate	15.86	16.78	2185776	885965	52.200m	49.620
32)	M	Endrin Ketone	16.34	17.84	2700680	1160730	55.047	50.649m

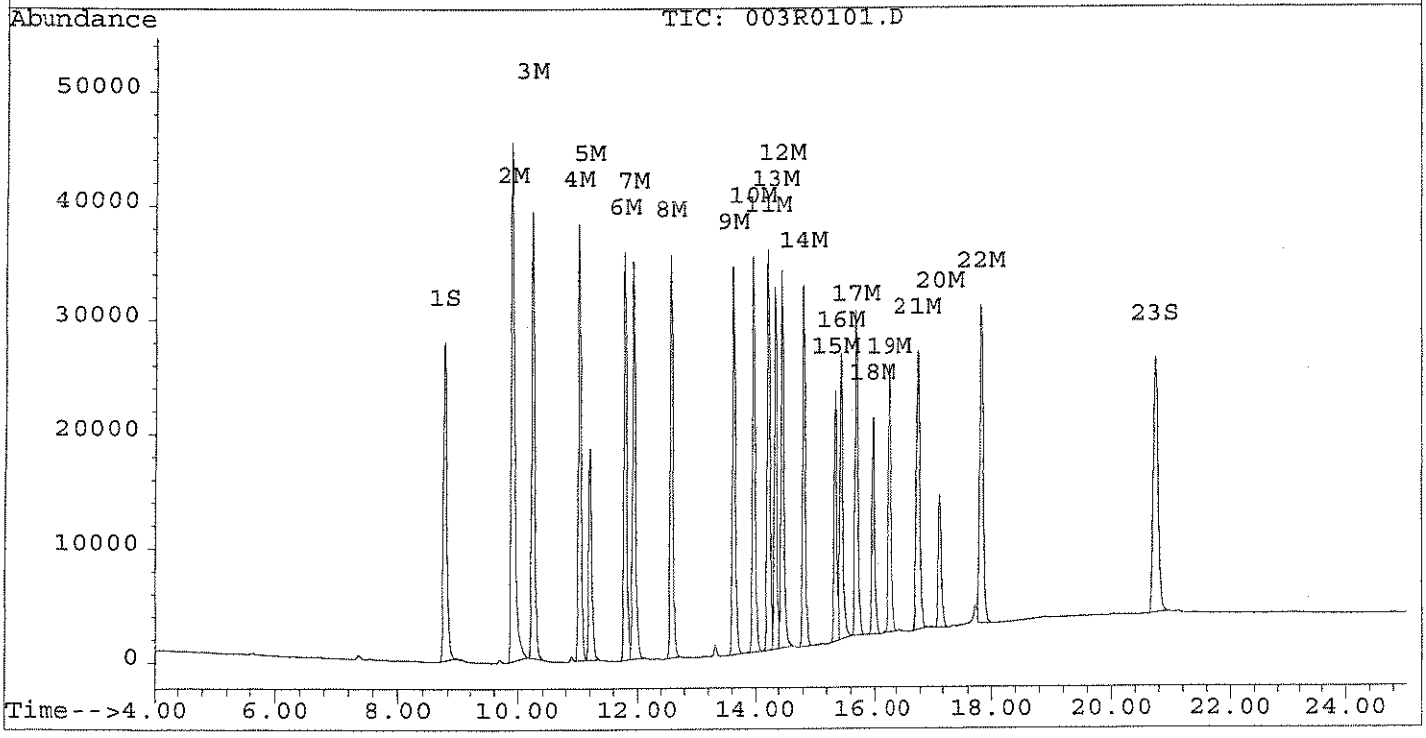
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
003F0101.D 8081EH.M Mon Jun 26 11:01:57 2006 Page 1

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE062606\003F0101.D Vial: 3
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE062606\003F0101.D\003R0101.D
Acq On : 26 Jun 06 10:02 AM Operator: [GC]3R0101.D\DATA.MS
Sample : PEST 50CC Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 26 11:01 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53





Signal #1 : Q:\SVOA\GC3_GE\DATA\GE062606\003F0301.D Vial: 3
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE062606\003F0301.D\003R0301.D
Acq On : 26 Jun 06 08:21 PM Operator: [GC]3R0301.D\DATA.MS
Sample : PEST 50CC Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 27 7:46 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

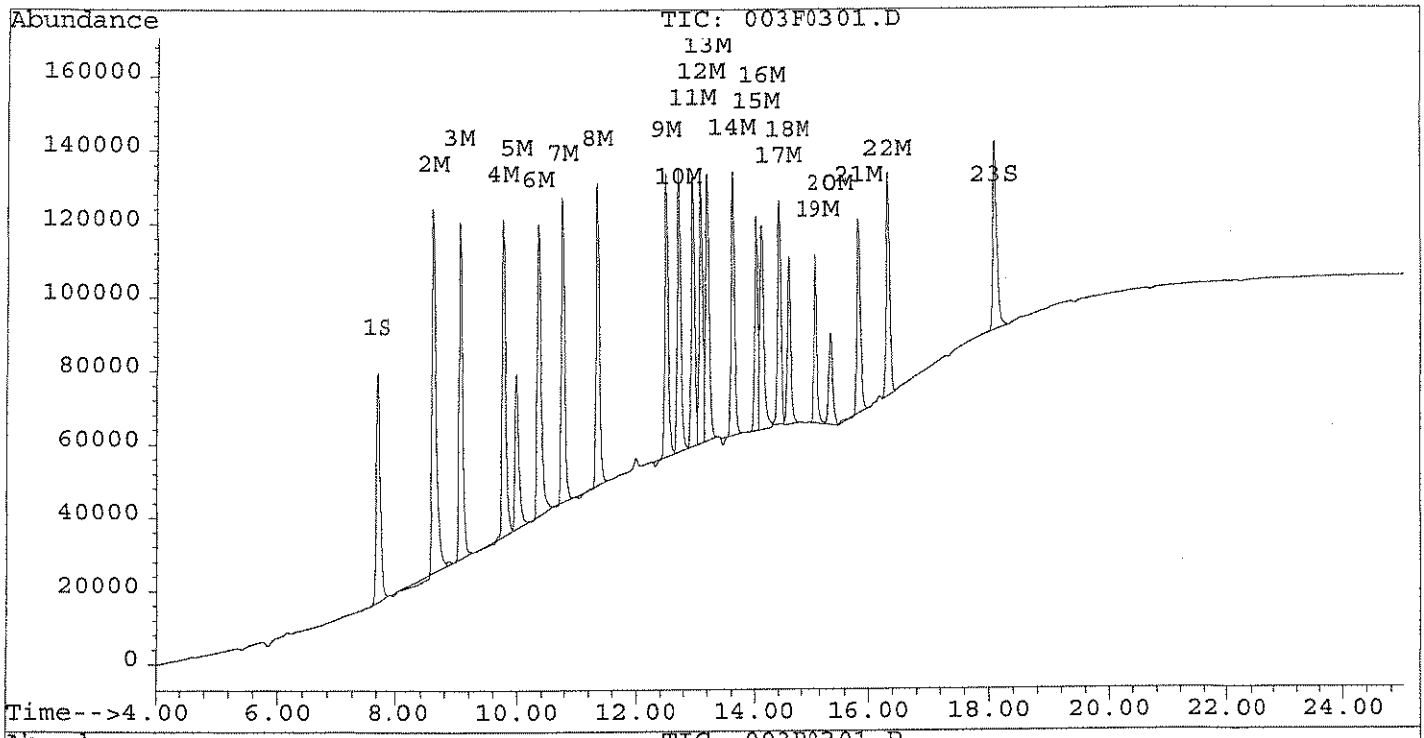
		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.63	8.75	3121102	1075752	51.170	49.030
					Recovery	=	102.34%	98.06%
3)	S	Decachlorobiphenyl	18.12	20.76	2456384	1215549	54.601m	51.818
					Recovery	=	109.20%	103.64%
		Target Compounds						
2)	M	Hexachlorobenzene	8.64	9.92	4696317	1908580	48.709	50.995
3)	M	alpha-BHC	9.07	10.25	3923843	1287121	53.241	47.872
4)	M	gamma-BHC (Lindane)	9.79	11.03	3633481	1262185	53.021	49.389
5)	M	beta-BHC	10.01	11.21	1914237	682434	54.469	50.196
6)	M	delta-BHC	10.38	11.80	3606975	1172619	53.225	47.230
7)	M	Heptachlor	10.78	11.94	3314792	1108974	53.225	47.812
8)	M	Aldrin	11.37	12.58	3274178	1127820	53.861	49.126
9)	M	Heptachlor Epoxide	12.52	13.63	3079181	1109818	54.421	50.101
0)	M	gamma-Chlordane	12.74	13.97	3146183	1140112	54.577	50.862
1)	M	alpha-Chlordane	12.98	14.22	2928689	1154321	53.753	51.000
2)	M	4,4'-DDE	13.11	14.46	2817614	1111081	51.870	50.814
3)	M	Endosulfan I	13.22	14.35	3116542	1037851	55.351	50.281
4)	M	Dieldrin	13.64	14.82	2774920	1012483	52.650	49.059
5)	M	Endrin	14.04	15.35	2178394	716365	53.494	47.606
6)	M	4,4'-DDD	14.13	15.45	2555283	861173	56.032	49.977
7)	M	Endosulfan II	14.42	15.70	2504265	959082	55.339m	48.217
8)	M	4,4'-DDT	14.60	15.98	1842492	613840	48.236	46.467
9)	M	Endrin Aldehyde	15.13	16.27	1926328	837940	53.257	50.242
0)	M	Methoxychlor	15.38	17.15	1020574	420929	49.690	47.252
1)	M	Endosulfan Sulfate	15.86	16.78	2181536	884263	52.099	49.527
2)	M	Endrin Ketone	16.34	17.84	2610257	1215126	53.246	52.907

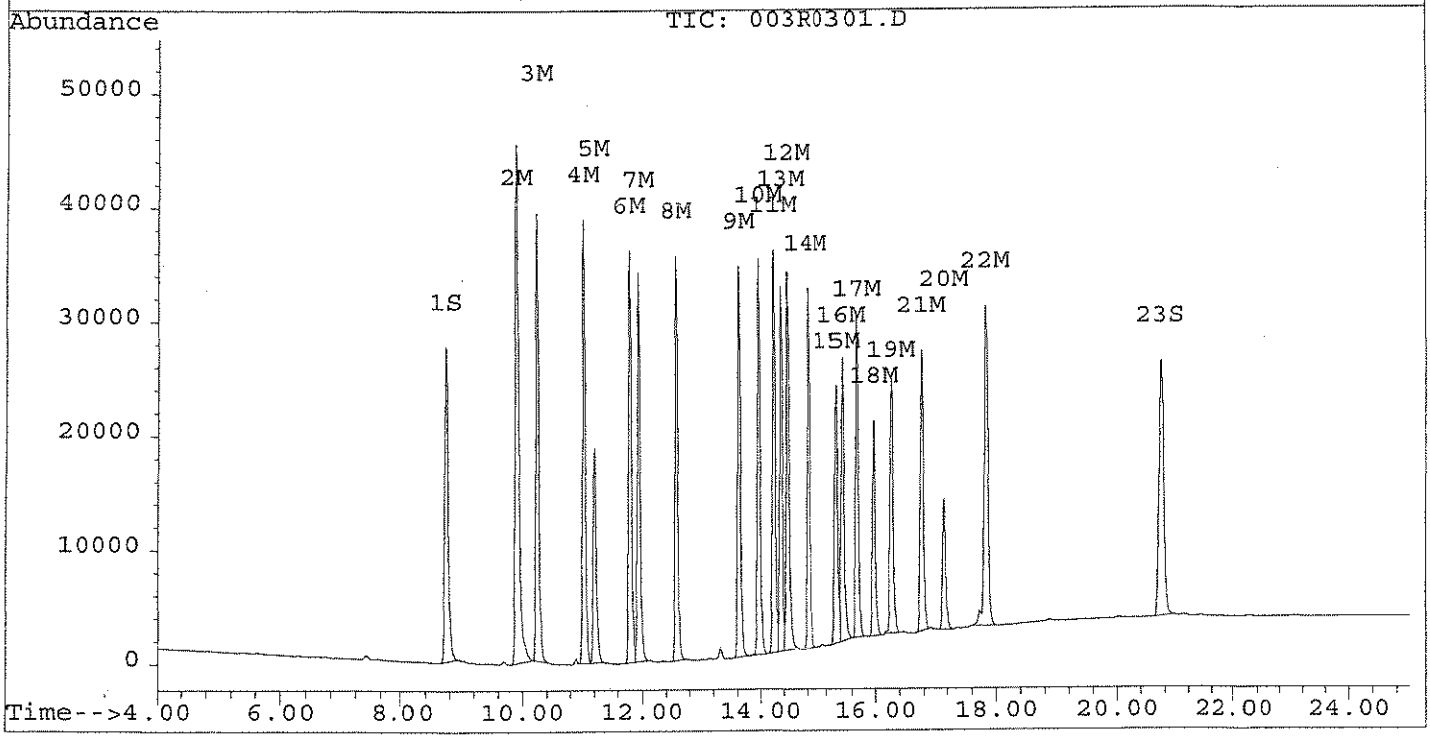
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE062606\003F0301.D Vial: 3
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE062606\003F0301.D\003R0301.D
Acq On : 26 Jun 06 08:21 PM Operator: [GC]3R0301.D\DATA.MS
Sample : PEST 50CC Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 27 7:46 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53





ANALYSIS SEQUENCE

BPG0307

Instrument: SVOAGC3

Calibnration ID: ~~UNASSIGNED~~ 8081 EH

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0307-PEM1	QC		1		6E02036		
BPG0307-CCV1	QC	c,d 1/26/06	2		6F26099		
0606374-01	SVOC: 8082 ppb PCB	A	3				MACTEC Engineering & Consulting, In
0606374-03	SVOC: 8082 ppb PCB	A	4				MACTEC Engineering & Consulting, In
0606374-05	SVOC: 8082 ppb PCB	A	5				MACTEC Engineering & Consulting, In
0606374-07	SVOC: 8082 ppb PCB	A	6				MACTEC Engineering & Consulting, In
0606374-09	SVOC: 8082 ppb PCB	A	7				MACTEC Engineering & Consulting, In
0606374-11	SVOC: 8082 ppb PCB	A	8				MACTEC Engineering & Consulting, In
0606374-13	SVOC: 8082 ppb PCB	A	9				MACTEC Engineering & Consulting, In
0606374-15	SVOC: 8082 ppb PCB	A	10				MACTEC Engineering & Consulting, In
BPG0307-CCV2 #	QC		11		6F26099		

SVOC 8081A PEST

Samples Loaded By Date Data Processed By Date

ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/26/06	13	GED62606-13	0606373-03	8081EH		SH
	14	14	05			
	15	15	07			
	16	16	09		(RR)	
	17	17	12			
	18	18	14			
	19	19	16			
	20	20	16MS			
	21	21	16MSD			
	1	1	Hexane			
	2	2	Perm			
	3	3	Pest 50 CC		7:53 PM	
	3	3	Pest 50 CC		6F26099 CCV1 8:21 PM	
	4	4	Chlor 250 pre		↓ 099	
	22	22	0606373-18		6F26100	
	23	23	20			
	24	24	0606374-01			
	25	25	03			
	26	26	05			
	27	27	07			
	28	28	09			
	29	29	11			
	30	30	13			
	31	31	15			
	32	32	Hexane			
	03	03	Pest 50 CC		6F26099 CCV2 2:25 AM	
	03	03	Pest 50 CC		↓ 099	
	04	GED62606-04	Chlor 250 pre	8081EH	6F26100	SH

CONTROL NUMBER 60.0012-0602A

PAGE _____

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE062606\002F0301.D Vial: 2
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE062606\002F0301.D\002R0301.D
Acq On : 26 Jun 06 07:53 PM Operator: [GC]2R0301.D\DATA.MS
Sample : PEM Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 27 8:00 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.63	8.75	2993422	1031934	49.082	47.058
					Recovery	=	98.16%	94.12%
23)	S	Decachlorobiphenyl	18.12	20.76	1750403	863712	38.750m	36.525
					Recovery	=	77.50%	73.05%
		Target Compounds						
2)	M	Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3)	M	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	M	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.
5)	M	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6)	M	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	M	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
8)	M	Aldrin	0.00	0.00	0	0	N.D.	N.D.
9)	M	Heptachlor Epoxide	0.00	0.00	0	0	N.D.d	N.D.d
10)	M	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	M	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
12)	M	4,4'-DDE	0.00	0.00	0	0	N.D.d	N.D.d
13)	M	Endosulfan I	0.00	0.00	0	0	N.D.d	N.D.d
14)	M	Dieldrin	0.00	0.00	0	0	N.D.d	N.D.d
15)	M	Endrin	14.04	15.35	4860207	1622706	118.906m	104.369m
16)	M	4,4'-DDD	14.15	15.46	137679	69619	3.806m	6.270m#
17)	M	Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18)	M	4,4'-DDT	14.60	15.98	4074200	1485962	104.882	105.025
19)	M	Endrin Aldehyde	15.11	16.25	8147	6185	1.166m	0.808m#
20)	M	Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
21)	M	Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22)	M	Endrin Ketone	16.33	17.82	279846	104688	6.832	6.802m

ε $\frac{287993}{5148200} = 5.59\%$ DDT $\frac{137679}{4211879} = 3.27\%$

ε $\frac{110873}{1733579} = 6.40\%$ DDT $\frac{69619}{1551131} = 4.48\%$

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE062606\003F0301.D Vial: 3
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE062606\003F0301.D\003R0301.D
Acq On : 26 Jun 06 08:21 PM Operator: [GC]3R0301.D\DATA.MS
Sample : PEST 50CC Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 27 7:46 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.63	8.75	3121102	1075752	51.170	49.030
					Recovery	=	102.34%	98.06%
23)	S	Decachlorobiphenyl	18.12	20.76	2456384	1215549	54.601m	51.818
					Recovery	=	109.20%	103.64%
		Target Compounds						
2)	M	Hexachlorobenzene	8.64	9.92	4696317	1908580	48.709	50.995
3)	M	alpha-BHC	9.07	10.25	3923843	1287121	53.241	47.872
4)	M	gamma-BHC (Lindane)	9.79	11.03	3633481	1262185	53.021	49.389
5)	M	beta-BHC	10.01	11.21	1914237	682434	54.469	50.196
6)	M	delta-BHC	10.38	11.80	3606975	1172619	53.225	47.230
7)	M	Heptachlor	10.78	11.94	3314792	1108974	53.225	47.812
8)	M	Aldrin	11.37	12.58	3274178	1127820	53.861	49.126
9)	M	Heptachlor Epoxide	12.52	13.63	3079181	1109818	54.421	50.101
10)	M	gamma-Chlordane	12.74	13.97	3146183	1140112	54.577	50.862
11)	M	alpha-Chlordane	12.98	14.22	2928689	1154321	53.753	51.000
12)	M	4,4'-DDE	13.11	14.46	2817614	1111081	51.870	50.814
13)	M	Endosulfan I	13.22	14.35	3116542	1037851	55.351	50.281
14)	M	Dieldrin	13.64	14.82	2774920	1012483	52.650	49.059
15)	M	Endrin	14.04	15.35	2178394	716365	53.494	47.606
16)	M	4,4'-DDD	14.13	15.45	2555283	861173	56.032	49.977
17)	M	Endosulfan II	14.42	15.70	2504265	959082	55.339m	48.217
18)	M	4,4'-DDT	14.60	15.98	1842492	613840	48.236	46.467
19)	M	Endrin Aldehyde	15.13	16.27	1926328	837940	53.257	50.242
20)	M	Methoxychlor	15.38	17.15	1020574	420929	49.690	47.252
21)	M	Endosulfan Sulfate	15.86	16.78	2181536	884263	52.099	49.527
22)	M	Endrin Ketone	16.34	17.84	2610257	1215126	53.246	52.907

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE062606\003F0601.D Vial: 3
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE062606\003F0601.D\003R0601.D
Acq On : 27 Jun 06 02:25 AM Operator: [GC]3R0601.D\DATA.MS
Sample : PEST 50CC Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 27 11:46 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.63	8.75	3190880	1087943	52.311	49.579
					Recovery	=	104.62%	99.16%
23)	S	Decachlorobiphenyl	18.12	20.76	2565161	1209821	57.044m	51.569
					Recovery	=	114.09%	103.14%
		Target Compounds						
2)	M	Hexachlorobenzene	8.63	9.92	5175366	1907315	53.860m	50.960
3)	M	alpha-BHC	9.07	10.25	3933833	1259771	53.373	46.943
4)	M	gamma-BHC (Lindane)	9.79	11.03	3724710	1215431	54.329	47.683
5)	M	beta-BHC	10.01	11.21	1948627	659034	55.445	48.509
6)	M	delta-BHC	10.37	11.80	3559332	1136267	52.542	45.883
7)	M	Heptachlor	10.78	11.94	3033600	1021898	48.778	44.267
8)	M	Aldrin	11.37	12.58	3305148	1115651	54.370	48.620
9)	M	Heptachlor Epoxide	12.52	13.63	3003734	1105488	53.081	49.910
10)	M	gamma-Chlordane	12.74	13.97	3189697	1135630	55.332	50.666
11)	M	alpha-Chlordane	12.97	14.22	2934810	1152815	53.867	50.934
12)	M	4,4'-DDE	13.11	14.46	2831063	1107468	52.119	50.654
13)	M	Endosulfan I	13.22	14.35	3091204	1040426	54.907	50.402
14)	M	Dieldrin	13.64	14.82	2715366	1014806	51.527	49.166
15)	M	Endrin	14.04	15.35	2171245	715126	53.319	47.528
16)	M	4,4'-DDD	14.13	15.45	2588679	861174	56.754	49.977
17)	M	Endosulfan II	14.42	15.70	2288771	967160	50.630	48.621
18)	M	4,4'-DDT	14.59	15.98	1439741	559267	38.013m	42.803m
19)	M	Endrin Aldehyde	15.13	16.27	1821421	769379	50.408	46.167
20)	M	Methoxychlor	15.38	17.15	879723	376843	43.122m	42.689
21)	M	Endosulfan Sulfate	15.86	16.78	2244546	894312	53.591m	50.075
22)	M	Endrin Ketone	16.34	17.84	2661387	1188821	54.264	51.815

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Pesticides Logbooks

ESS Organic Preparation Logbook

Project #: 0606373, 0606374
Prep Date: 6/23/06
Batch ID: PXPTXBF62329
Extraction Method: 3541

Surrogate ID#
A 6F09078
B NA
C

Matrix Spike ID#
D 6F05037
E 6F21098
F NA

Analytical Matrix: Soil
Extraction Time:
Start: 1400
Finish: —

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
PXPTXBF62329-B	20.0	1	NA	10	10	NA	6/24/06	40	NA	NA		Em		JS
PXBF62329-BS	20.0	1	1	10	10									
-BSD	20.0	1	1	10	10									
PTXBF62329-BS	20.0	1	1	10	10									
-BSD	20.0	1	1	10	10									
PXPTX0606373-01	20.1	1	NA	10	10									
-03	19.7	1		10	10									
-05	19.2	1		10	10									
-07	19.0	1		10	10									
-09	20.5	1	NA	10	10									
PX0606373-09MS	20.1	1	1	10	10									
-09MSD	19.9	1	1	10	10									
PXPTX0606373-12	20.7	1	NA	10	10									
-14	21.0	1	NA	10	10									
PTX0606373-16MS	21.0	1	1	10	10									
-16MSD	20.1	1	1	10	10									
PXPTX0606373-16	21.0	1	NA	10	10									
-18	19.0	1		10	10									
-20	19.9	1		10	10									
PXPTX0606374-01	19.7	1		10	10									
-03	20.0	1		10	10									
-05	20.8	1		10	10									
-07	20.0	1		10	10									
-09	19.0	1		10	10									
-11	19.3	1	NA	10	10	NA	6/24/06	40	NA	NA		Em		JS

669

Acid Washed: (Y) / N
H2SO4 ID# TIX0505A
Cu Cleaned: Y / (N)
Cu ID# NA
Florisiled: Y (N)
Lot# NA
Silica Column/Carbon prep: (Y) N
Lot # P1808

CH_2Cl_2 lot # NA
NaOH ID# NA
Hexane lot# C0914
Na_2SO_4 ID# PRII0617060B
Acetone lot# C15E11

Analysis Performed
PCB ☒
B/N SVOA ☐
SVOA ☐
LL PAH ☐
PEST ☒
TPH/GC ☐
BIS-2 ☐
PAH ☐

Prepared By: Em
Glasswool: PRII0614066E
Method #(s): 8081/8082

**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A

BATCH ID/Test: BF62329

BATCH ID/Test: ______

Page ______

ESS Organic Preparation Logbook

Project #: 060637J, 060637J Surrogate ID# Matrix Spike ID# Analytical Matrix: soil

Prep Date: 6/23/06 A 6f09078 D 6f05037 Extraction Time:

Batch ID: PXPTQBF62329 B NA E 6f21098 Start: 1400

Extraction Method: 3541 C F NA Finish:

Split Extraction* ☐

* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
PXPTQA06374-13	19.2	1	NA	10	10	NA	6/24/06	40	NA	NA				JLS
-15	19.8	1	NA	10	10	NA	6/24/06	40	NA	NA				JLS

Analysis Performed: PCB ☒, B/N SVOA ☐, SVOA ☐, LL PAH ☐, PEST ☒, TPH/GC ☐, BIS-2 ☐, PAH ☐

Acid Washed: (Y) N Cu Cleaned: Y / (N) Florisiled: Y / (N) Silica Column/Carbon prep: (Y) N

H_2SO_4 ID# LP060105A Cu ID# NA Lot# NA Lot # P1508

CH_2Cl_2 lot # NA NaOH ID# NA

Prepared By: [signature] Glasswool: PXTD060140616 Method #(s): 8081/8082

Hexane lot# CQ914 Na_2SO_4 ID# PXTD060170608

Acetone lot# C15E11

**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A BATCH ID/Test: BATCH ID/Test: Page

Pesticides Logbooks

ESS Organic Preparation Logbook

Project #: 0606373, 0606374
Prep Date: 6/23/06
Batch ID: PXFTXBF62329
Extraction Method: 3541

Surrogate ID#
A 6F29078
B NA
C

Matrix Spike ID#
D 6F65037
E 6F21098
F NA

Analytical Matrix: ASOIL
Extraction Time:
Start: 1400
Finish: —

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
PXFTXBF62329-B	20.0	1	NA	10	10	NA	6/24/06	40	NA	NA		EM		JCS
PXBF62329-BS	20.0	1		10	10									
-BSD	20.0	1		10	10									
PXFTXBF62329-MS	20.0	1		10	10									
-MSD	20.0	1		10	10									
PXFTX0606373-01	20.1	1	NA	10	10									
-03	19.7	1		10	10									
-05	19.2	1		10	10									
-07	19.0	1		10	10									
-09	20.5	1	NA	10	10									
PX0606373-09MS	20.1	1		10	10									
-09MSD	19.9	1		10	10									
PXFTX0606373-12	20.7	1	NA	10	10									
-14	21.0	1	NA	10	10									
PTX0606373-16MS	21.0	1		10	10									
-16MSD	20.1	1		10	10									
PXFTX0606373-16	21.0	1	NA	10	10									
-18	19.0	1		10	10									
-20	19.9	1		10	10									
PXFTX0606374-01	19.8	1		10	10									
-03	20.0	1		10	10									
-05	20.8	1		10	10									
-07	20.0	1		10	10									
-09	19.0	1		10	10									
-11	19.3	1	NA	10	10	NA	6/24/06	40	NA	NA		EM		JCS

672

Analysis Performed:
PCB ☑
B/N SVOA ☐
SVOA ☐
LL PAH ☐
PEST ☑
TPH/GC ☐
BIS-2 ☐
PAH ☐

Acid Washed: (Y)/N
H2SO4 ID# 1IDE0505A
Cu Cleaned: Y/(N)
Cu ID# NA
Florisiled: Y (N)
Lot# NA
Silica Column/Carbon prep: (Y) N
Lot # P1608

CH_2Cl_2 lot # NA
NaOH ID# NA
Hexane lot# C0914
Na_2SO_4 ID# PREP0617068
Acetone lot# C17E11

Prepared By: EM
Glasswool: PREP061406E
Method #(s): 8081/8082

**Check off column if entire sample used and bottle discarded.

...Continued from pg 133

ESS Organic Preparation Logbook

Project #: 0606373, 0606374
Prep Date: 6/23/06
Batch ID: PXPTXBF62329
Extraction Method: 3541

Surrogate ID#
A 6FD9078
B NA
C

Matrix Spike ID#
D 6FD5037
E 6F21098
F NA

Analytical Matrix: soil
Extraction Time:
Start: 1400
Finish: —

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
PXPTXa0606374-13	19.2	1	NA	10	10	NA	6/24/06	40	NA	NA		EM		JCS
-15	19.8	1	NA	10	10	NA	6/24/06	40	NA	NA		EM		JCS

673

Analysis Performed
PCB ☒
B/N SVOA ☐
SVOA ☐
LL PAH ☐
PEST ☒
TPH/GC ☐
BIS-2 ☐
PAH ☐

Acid Washed: (Y) N
H2SO4 ID# 6FD6010510
Cu Cleaned: Y / (N)
Cu ID# NA
Florisiled: Y / (N)
Lot# NA
Silica Column/Carbon prep: (Y) N
Lot # P1506
CH_2Cl_2 lot # NA
NaOH ID# NA

Prepared By: EM /
Glasswool: 0RTTD0W4012
Method #(s): 8081/8082
Hexane lot# CQ914
Na_2SO_4 ID# 0RTTD0W170606

**Check off column if entire sample used and bottle discarded.
Acetone lot# CISE11

PCB
Data Package

PCB
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1301
Date Sampled: 06/22/06 11:30
Percent Solids: 80
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-01
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/23/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	63.1	1	06/26/06
Aroclor 1221	ND	ug/Kg dry	63.1	1	06/26/06
Aroclor 1232	ND	ug/Kg dry	63.1	1	06/26/06
Aroclor 1242	ND	ug/Kg dry	63.1	1	06/26/06
Aroclor 1248	ND	ug/Kg dry	63.1	1	06/26/06
Aroclor 1254	ND	ug/Kg dry	63.1	1	06/26/06
Aroclor 1260	ND	ug/Kg dry	63.1	1	06/26/06
Aroclor 1262	ND	ug/Kg dry	63.1	1	06/26/06
Aroclor 1268	ND	ug/Kg dry	63.1	1	06/26/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*89 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*89 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*74 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*76 %*		*30-150*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1401
Date Sampled: 06/22/06 12:10
Percent Solids: 26
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-03
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/23/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	192	1	06/26/06
Aroclor 1221	ND	ug/Kg dry	192	1	06/26/06
Aroclor 1232	ND	ug/Kg dry	192	1	06/26/06
Aroclor 1242	ND	ug/Kg dry	192	1	06/26/06
Aroclor 1248	ND	ug/Kg dry	192	1	06/26/06
Aroclor 1254	ND	ug/Kg dry	192	1	06/26/06
Aroclor 1260	ND	ug/Kg dry	192	1	06/26/06
Aroclor 1262	ND	ug/Kg dry	192	1	06/26/06
Aroclor 1268	ND	ug/Kg dry	192	1	06/26/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*77 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*73 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*75 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1501
Date Sampled: 06/22/06 12:30
Percent Solids: 81
Initial Volume: 20.8
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-05
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/23/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	59.3	1	06/26/06
Aroclor 1221	ND	ug/Kg dry	59.3	1	06/26/06
Aroclor 1232	ND	ug/Kg dry	59.3	1	06/26/06
Aroclor 1242	ND	ug/Kg dry	59.3	1	06/26/06
Aroclor 1248	ND	ug/Kg dry	59.3	1	06/26/06
Aroclor 1254	ND	ug/Kg dry	59.3	1	06/26/06
Aroclor 1260	ND	ug/Kg dry	59.3	1	06/26/06
Aroclor 1262	ND	ug/Kg dry	59.3	1	06/26/06
Aroclor 1268	ND	ug/Kg dry	59.3	1	06/26/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*99 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*95 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*82 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1601
Date Sampled: 06/22/06 13:15
Percent Solids: 14
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-07
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/23/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	357	1	06/26/06
Aroclor 1221	ND	ug/Kg dry	357	1	06/26/06
Aroclor 1232	ND	ug/Kg dry	357	1	06/26/06
Aroclor 1242	ND	ug/Kg dry	357	1	06/26/06
Aroclor 1248	ND	ug/Kg dry	357	1	06/26/06
Aroclor 1254	ND	ug/Kg dry	357	1	06/26/06
Aroclor 1260	ND	ug/Kg dry	357	1	06/26/06
Aroclor 1262	ND	ug/Kg dry	357	1	06/26/06
Aroclor 1268	ND	ug/Kg dry	357	1	06/26/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*80 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*88 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*72 %*		*30-150*

ESS Laboratory

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1801
Date Sampled: 06/22/06 14:00
Percent Solids: 13
Initial Volume: 19
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-09
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/23/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	404	1	06/26/06
Aroclor 1221	ND	ug/Kg dry	404	1	06/26/06
Aroclor 1232	ND	ug/Kg dry	404	1	06/26/06
Aroclor 1242	ND	ug/Kg dry	404	1	06/26/06
Aroclor 1248	ND	ug/Kg dry	404	1	06/26/06
Aroclor 1254	ND	ug/Kg dry	404	1	06/26/06
Aroclor 1260	ND	ug/Kg dry	404	1	06/26/06
Aroclor 1262	ND	ug/Kg dry	404	1	06/26/06
Aroclor 1268	ND	ug/Kg dry	404	1	06/26/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*89 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*111 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*87 %*		*30-150*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1901
Date Sampled: 06/22/06 14:35
Percent Solids: 21
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-11
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/23/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	246	1	06/27/06
Aroclor 1221	ND	ug/Kg dry	246	1	06/27/06
Aroclor 1232	ND	ug/Kg dry	246	1	06/27/06
Aroclor 1242	ND	ug/Kg dry	246	1	06/27/06
Aroclor 1248	ND	ug/Kg dry	246	1	06/27/06
Aroclor 1254	ND	ug/Kg dry	246	1	06/27/06
Aroclor 1260	**605**	ug/Kg dry	246	1	06/27/06
Aroclor 1262	ND	ug/Kg dry	246	1	06/27/06
Aroclor 1268	ND	ug/Kg dry	246	1	06/27/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*84 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*93 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*83 %*		*30-150*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2301
Date Sampled: 06/22/06 15:30
Percent Solids: 76
Initial Volume: 19.2
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-13
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/23/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	68.5	1	06/27/06
Aroclor 1221	ND	ug/Kg dry	68.5	1	06/27/06
Aroclor 1232	ND	ug/Kg dry	68.5	1	06/27/06
Aroclor 1242	ND	ug/Kg dry	68.5	1	06/27/06
Aroclor 1248	ND	ug/Kg dry	68.5	1	06/27/06
Aroclor 1254	ND	ug/Kg dry	68.5	1	06/27/06
Aroclor 1260	ND	ug/Kg dry	68.5	1	06/27/06
Aroclor 1262	ND	ug/Kg dry	68.5	1	06/27/06
Aroclor 1268	ND	ug/Kg dry	68.5	1	06/27/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*107 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*78 %*		*30-150*

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Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2101
Date Sampled: 06/22/06 15:00
Percent Solids: 73
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-15
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/23/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	69.1	1	06/27/06
Aroclor 1221	ND	ug/Kg dry	69.1	1	06/27/06
Aroclor 1232	ND	ug/Kg dry	69.1	1	06/27/06
Aroclor 1242	ND	ug/Kg dry	69.1	1	06/27/06
Aroclor 1248	ND	ug/Kg dry	69.1	1	06/27/06
Aroclor 1254	ND	ug/Kg dry	69.1	1	06/27/06
Aroclor 1260	ND	ug/Kg dry	69.1	1	06/27/06
Aroclor 1262	ND	ug/Kg dry	69.1	1	06/27/06
Aroclor 1268	ND	ug/Kg dry	69.1	1	06/27/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*90 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*72 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*73 %*		*30-150*

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PCB
Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch BF62723 - 3541										
Heptachlor Epoxide	29.1	5.00	ug/Kg wet	25.0		116	40-140			
Hexachlorobenzene	11.9	5.00	ug/Kg wet	25.0		48	40-140			
Methoxychlor	32.6	5.00	ug/Kg wet	25.0		130	40-140			
Surrogate: Decachlorobiphenyl	*35.2*		ug/Kg wet	*25.0*		*141*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*28.3*		ug/Kg wet	*25.0*		*113*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*22.3*		ug/Kg wet	*25.0*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*21.6*		ug/Kg wet	*25.0*		*86*	*30-150*			
LCS Dup										
4,4'-DDD	28.9	5.00	ug/Kg wet	25.0		116	40-140	4	30	
4,4'-DDE	27.2	5.00	ug/Kg wet	25.0		109	40-140	0	30	
4,4'-DDT	33.7	5.00	ug/Kg wet	25.0		135	40-140	2	30	
Aldrin	25.9	5.00	ug/Kg wet	25.0		104	40-140	6	30	
alpha-BHC	22.5	5.00	ug/Kg wet	25.0		90	40-140	0.9	30	
alpha-Chlordane	25.8	5.00	ug/Kg wet	25.0		103	40-140	5	30	
beta-BHC	27.3	5.00	ug/Kg wet	25.0		109	40-140	8	30	
delta-BHC	18.5	5.00	ug/Kg wet	25.0		74	40-140	11	30	
Dieldrin	25.9	5.00	ug/Kg wet	25.0		104	40-140	12	30	
Endosulfan I	29.1	5.00	ug/Kg wet	25.0		116	40-140	4	30	
Endosulfan II	31.4	5.00	ug/Kg wet	25.0		126	40-140	9	30	
Endosulfan Sulfate	25.1	5.00	ug/Kg wet	25.0		100	40-140	13	30	
Endrin	27.1	5.00	ug/Kg wet	25.0		108	40-140	8	30	
Endrin Aldehyde	30.5	5.00	ug/Kg wet	25.0		122	40-140	12	30	
Endrin Ketone	28.9	5.00	ug/Kg wet	25.0		116	40-140	9	30	
gamma-BHC (Lindane)	24.1	5.00	ug/Kg wet	25.0		96	40-140	3	30	
gamma-Chlordane	29.9	5.00	ug/Kg wet	25.0		120	40-140	10	30	
Heptachlor	24.7	5.00	ug/Kg wet	25.0		99	40-140	2	30	
Heptachlor Epoxide	27.5	5.00	ug/Kg wet	25.0		110	40-140	6	30	
Hexachlorobenzene	11.0	5.00	ug/Kg wet	25.0		44	40-140	8	30	
Methoxychlor	33.0	5.00	ug/Kg wet	25.0		132	40-140	1	30	
Surrogate: Decachlorobiphenyl	*32.8*		ug/Kg wet	*25.0*		*131*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*26.1*		ug/Kg wet	*25.0*		*104*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*22.1*		ug/Kg wet	*25.0*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*20.1*		ug/Kg wet	*25.0*		*80*	*30-150*			
8082 Polychlorinated Biphenyls (PCB)										
Batch BF62329 - 3541										
Blank										
Aroclor 1016	ND	33.3	ug/Kg wet							
Aroclor 1221	ND	33.3	ug/Kg wet							
Aroclor 1232	ND	33.3	ug/Kg wet							
Aroclor 1242	ND	33.3	ug/Kg wet							
Aroclor 1248	ND	33.3	ug/Kg wet							
Aroclor 1254	ND	33.3	ug/Kg wet							
Aroclor 1260	ND	33.3	ug/Kg wet							
Aroclor 1262	ND	33.3	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch BF62329 - 3541										
Aroclor 1268	ND	33.3	ug/Kg wet							
Surrogate: Decachlorobiphenyl	*17.3*		ug/Kg wet	*16.7*		*104*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*16.9*		ug/Kg wet	*16.7*		*101*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*14.6*		ug/Kg wet	*16.7*		*87*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*14.9*		ug/Kg wet	*16.7*		*89*	*30-150*			
LCS										
Aroclor 1016	328	33.3	ug/Kg wet	333		98	40-140			
Aroclor 1260	349	33.3	ug/Kg wet	333		105	40-140			
Surrogate: Decachlorobiphenyl	*17.5*		ug/Kg wet	*16.7*		*105*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*17.2*		ug/Kg wet	*16.7*		*103*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*15.5*		ug/Kg wet	*16.7*		*93*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.3*		ug/Kg wet	*16.7*		*92*	*30-150*			
LCS Dup										
Aroclor 1016	333	33.3	ug/Kg wet	333		100	40-140	2	50	
Aroclor 1260	336	33.3	ug/Kg wet	333		101	40-140	4	50	
Surrogate: Decachlorobiphenyl	*17.9*		ug/Kg wet	*16.7*		*107*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*17.8*		ug/Kg wet	*16.7*		*107*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*15.8*		ug/Kg wet	*16.7*		*95*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.6*		ug/Kg wet	*16.7*		*93*	*30-150*			
8100M Total Petroleum Hydrocarbons										
Batch BF62406 - 3541										
Blank										
Total Petroleum Hydrocarbons	ND	37.5	mg/kg wet							
Surrogate: O-Terphenyl	*4.19*		mg/kg wet	*5.00*		*84*	*40-140*			
LCS										
Total Petroleum Hydrocarbons	671	37.5	mg/kg wet	1000		67	40-140			
Surrogate: O-Terphenyl	*5.31*		mg/kg wet	*5.00*		*106*	*40-140*			
LCS Dup										
Total Petroleum Hydrocarbons	653	37.5	mg/kg wet	1000		65	40-140	3	50	
Surrogate: O-Terphenyl	*5.04*		mg/kg wet	*5.00*		*101*	*40-140*			
8270C Polynuclear Aromatic Hydrocarbons										
Batch BG60520 - 3541										
Blank										
1-Methylnaphthalene	ND	500	ug/Kg wet							
2-Methylnaphthalene	ND	500	ug/Kg wet							
Acenaphthene	ND	500	ug/Kg wet							
Acenaphthylene	ND	500	ug/Kg wet							
Anthracene	ND	500	ug/Kg wet							
Benzo(a)anthracene	ND	500	ug/Kg wet							
Benzo(a)pyrene	ND	500	ug/Kg wet							

PCB
Calibration Data

ANALYSIS SEQUENCE

BPG0242

Instrument: SVOAGC5

Calibnration ID: ~~UNASSIGNED~~ 8082CX

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0242-CAL1	QC		1		6F14043		
BPG0242-CAL2	QC		2		6F14044		
BPG0242-CAL3	QC		3		6F14045		
BPG0242-CAL4	QC		4		6F14046		
BPG0242-CAL5	QC		5		6F14047		
BPG0242-CAL6	QC		6		6F14048		
BPG0242-CAL7	QC		7		6F14051		
BPG0242-CAL8	QC		8		6F14053		
BPG0242-CAL9	QC		9		6F14055		
BPG0242-CALA	QC		10		6F14057		
BPG0242-CALB	QC		11		6F14059		
BPG0242-CALC	QC		12		6F14061		
BPG0242-CALD	QC		13		6F14063		
BPG0242-SCV1	QC		14		6F14049		
BPG0242-SCV2	QC		15		6F14052		
BPG0242-SCV3	QC		16		6F14054		
BPG0242-SCV4	QC		17		6F14056		
BPG0242-SCV5	QC		18		6F14058		
BPG0242-SCV6	QC		19		6F14060		
BPG0242-SCV7	QC		20		6F14062		
BPG0242-SCV8	QC		21		6F14064		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II **Y-Split Dual End**

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/21/06	91	G0062106B-91	166004	8082CW	GF20058	M
	92	-92	1242CC		59	
	93	-93	12484		60	
	94	-94	1254CC		61	
6/21/06	91	G0062109-91	1660CC	8082CW	GF20058 1260 High Sample ID 0222	
6/22/06	96	G0062206-96	Hex	8082CW		
	97	-97	1660CC		GF23058	
	98	-98	1242CC		59	
	99	-99	1248CC		60	
~~6/22/06~~	~~100~~	~~G006226-100~~	~~1254CC~~	~~8082CW~~	GF230 61	
6/23/06	96	G0062306-96	Hex	8082CW		
	97	-97	16604		GF23058	
	98	-98	1242CC		59	
	99	-99	12484		60	
	100	-100	12544		61	
6/23/06	97	G0062306-97	1660CC	8082CW	GF23058	
6/23/06	1	G0062306A-01	16604	8082 CF	GF23058	
	1	-01	16604		GF23058	
	2	-02	1660 50		GF14043	
	3	-03	100		44	
	4	-04	500		45	
	5	-05	1000		46	
	6	-06	1600		47	
	7	-07	2000		48	
	8	-08	55		49	
	9	-09	55		~~49~~ 50 6/23/06	
	10	-10	1221		51	
	11	-11	1221 51		52	
	12	-12	1232		53	
6/23/06	13	G0062306A-13	123253	8082CF	54	

CONTROL NUMBER 60.0031-0603A PAGE_______

02

ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II **Y-Split Dual End**

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/23/06	14	G0606230LA-14	1242	~~8082CL~~ 8082CL	BF74055	JH
	15	-15	124251		56	
	16	-16	1248		57	
	17	-17	124851		58	
	18	-18	1254		59	
	19	-19	125451		60	
	20	-20	1262		61	
	21	-21	126251		62	
	22	-22	1268		63	
6/23/06	23	G0606230LA-23	126851	8082CL	BF740 64	
6/26/06	1	G0606260A-01	1164	8082CL		
	2	-02	1660A		BF23058 Int: 1635	
	3	-03	1242A		59	
	4	-04	1254A		60	
	5	-05	1262A		61	
	6	-06	BF62215-01MS		cu cleaned	
	7	-07	-BS1			
	8	-08	-BSD1			
	9	-09	0606332-01		60	
	10	-10	-02		60 42 rerun	
	11	-11	-03		42 60 53	
	12	-12	-04		x20 60 42	
	13	-13	-04MS		x20	
	14	-14	-04MSD		x20	
	15	-15	-04MS1			
	16	-16	-04MSD1			
	17	-17	0606332-07		x5 42 cu cleaned	
	56	-56	1164			
	57	-57	1660A		BF23058	
6/26/06	58	G0606260A-58	1242A	8082CL	59	

CONTROL NUMBER 60.0031-0603A PAGE_______

Method : Q:\SVOA\GC5_GG\METHODS\8082CX.M
Title :
Last Update : Mon Jul 10 09:21:55 2006
Response via : Initial Calibration

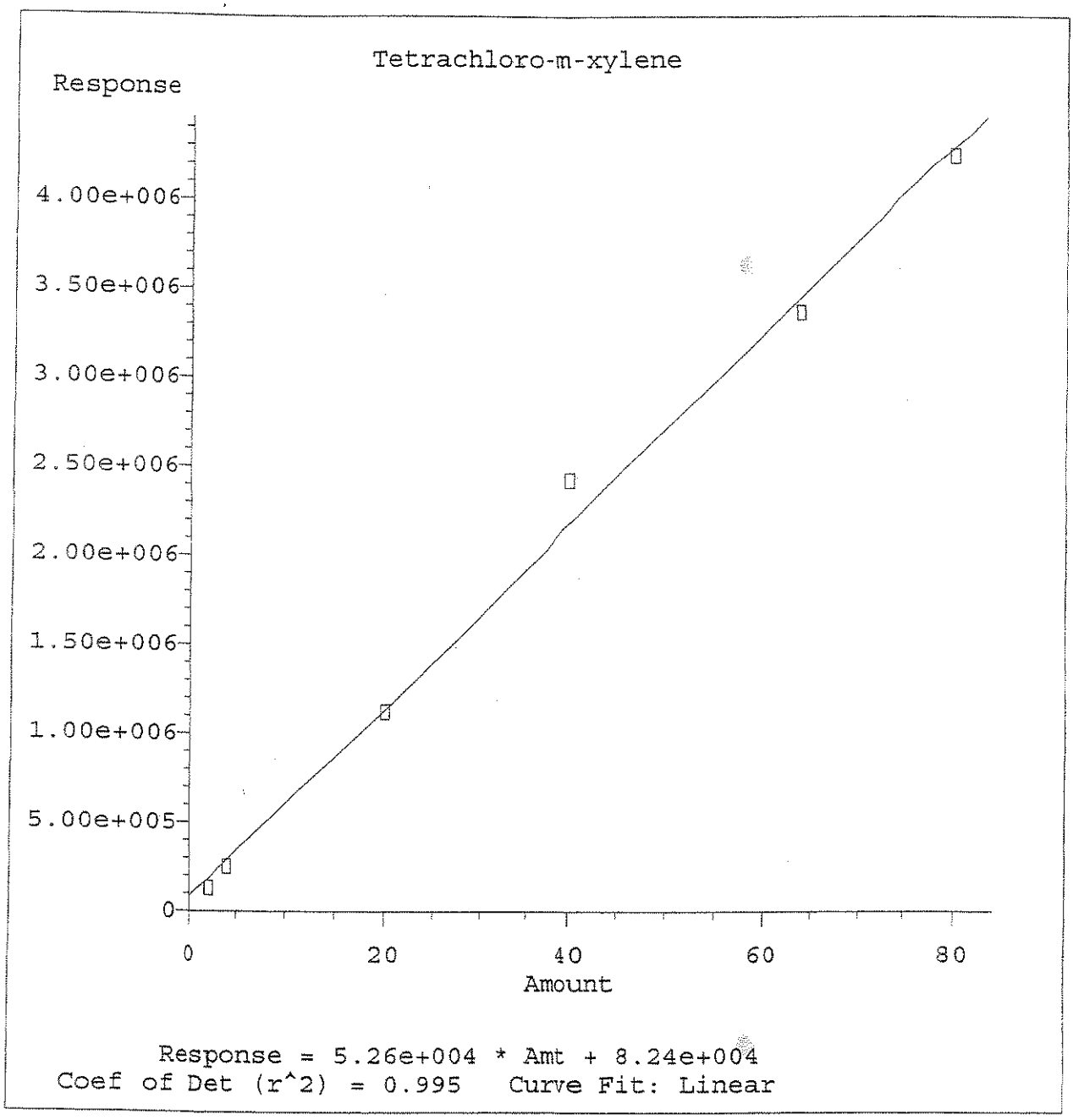
Calibration Files
500 =004F0201.D 2000 =007F0201.D 50 =002F0201.D
100 =003F0201.D 1000 =002F0101.D 1600 =006F0201.D

	Compound	500	2000	50	100	1000	1600	Avg		%RSD
1)	S Tetrachloro-m-xylen	56.2	53.1	65.2	63.2	60.6	52.6	58.5	E3	9.10
2)	LM1 AR1016 (1)	1.2	1.1	1.4	1.3	1.2	1.1	1.2	E3	10.36
3)	LM1 AR1016 (2)	2.2	1.7	3.0	3.1	2.0	1.8	2.3	E3	25.30
4)	LM1 AR1016 (3)	4.1	3.3	6.1	6.0	3.9	3.4	4.5	E3	28.19
5)	LM1 AR1016 (4)	1.1	1.0	1.4	1.4	1.1	1.0	1.2	E3	17.09
6)	LM1 AR1016 (5)	1.1	0.8	0.9	0.9	1.0	0.9	0.9	E3	8.44
7)	LM2 AR1260 (1)	3.1	2.3	4.4	4.2	2.7	2.4	3.2	E3	29.37
8)	LM2 AR1260 (2)	7.3	5.8	8.8	9.3	6.8	6.0	7.4	E3	19.39
9)	LM2 AR1260 (3)	2.5	2.0	2.7	2.8	2.4	2.1	2.4	E3	13.19
10)	LM2 AR1260 (4)	940.1	811.8	984.3	939.8	962.9	833.3	912.0		7.85
11)	LM2 AR1260 (5)	1.6	1.3	2.1	2.0	1.5	1.5	1.7	E3	17.50
12)	S Decachlorobiphenyl	55.8	41.9	77.4	69.3	50.3	43.5	56.4	E3	25.39

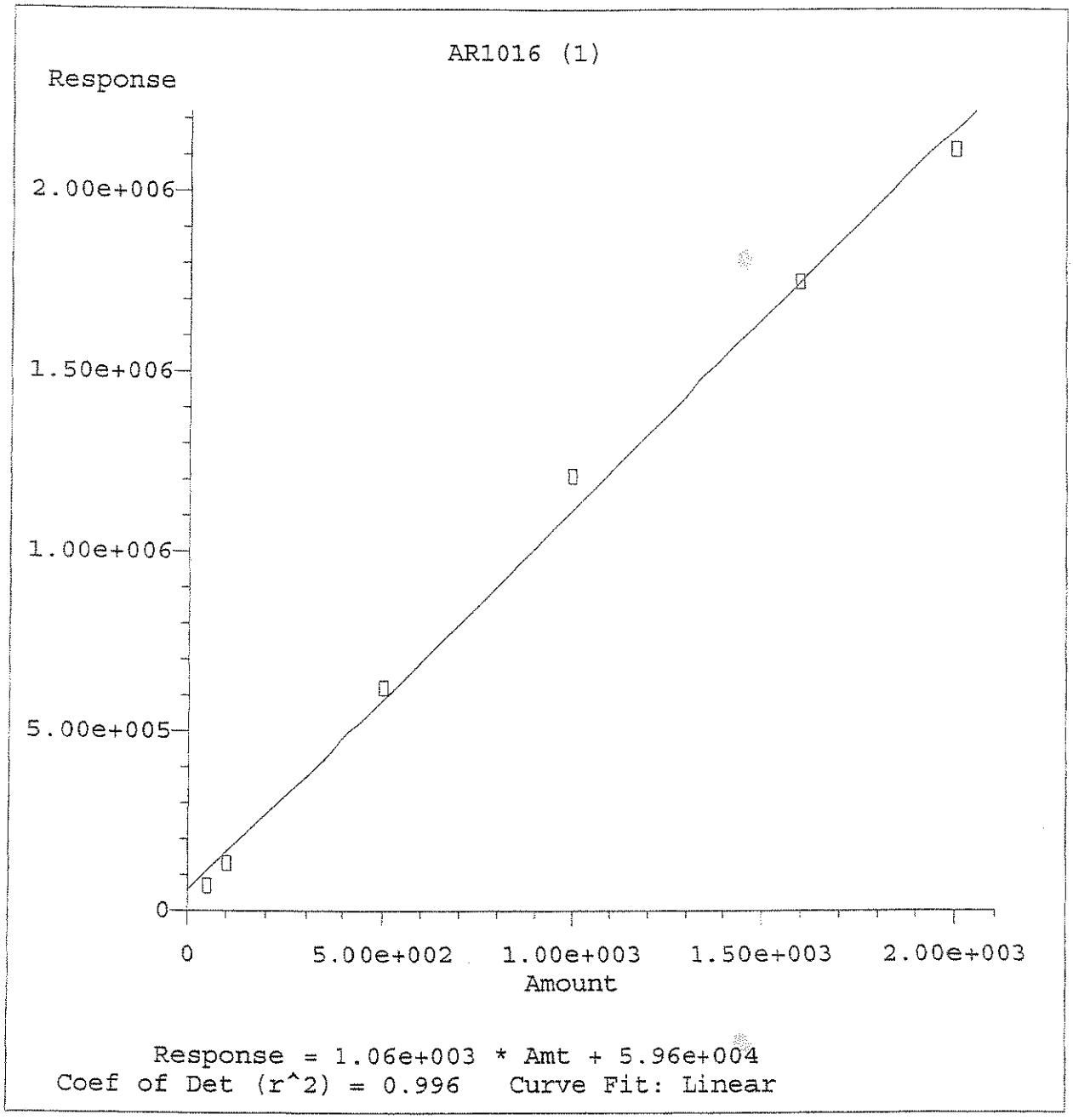
Signal #2 Calibration Files
500 =004R0201.D 2000 =007R0201.D 50 =002R0201.D
100 =003R0201.D 1000 =002R0101.D 1600 =006R0201.D

	Compound	500	2000	50	100	1000	1600	Avg		%RSD
1)	S Tetrachloro-m-xylen	52.2	46.3	55.7	52.8	50.5	47.0	50.7	E3	7.10
2)	LM1 AR1016 (1)	1.3	1.1	1.3	1.3	1.2	1.1	1.2	E3	8.14
3)	LM1 AR1016 (2)	2.1	1.7	2.4	2.4	1.9	1.7	2.0	E3	16.32
4)	LM1 AR1016 (3)	4.2	3.4	4.3	5.2	3.9	3.5	4.1	E3	16.23
5)	LM1 AR1016 (4)	1.5	1.3	1.4	1.5	1.5	1.4	1.4	E3	6.48
6)	LM1 AR1016 (5)	1.2	1.0	1.6	1.4	1.1	1.0	1.2	E3	19.09
7)	LM2 AR1260 (1)	3.3	2.7	4.4	4.2	3.1	2.8	3.4	E3	21.08
8)	LM2 AR1260 (2)	2.3	2.0	2.9	2.7	2.2	2.0	2.4	E3	15.34
9)	LM2 AR1260 (3)	5.1	4.4	5.9	5.5	4.9	4.4	5.0	E3	12.16
10)	LM2 AR1260 (4)	3.2	2.6	3.8	3.6	3.1	2.9	3.2	E3	14.04
11)	LM2 AR1260 (5)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	E3	3.10
12)	S Decachlorobiphenyl	45.0	36.3	54.3	51.0	42.1	37.4	44.3	E3	16.31

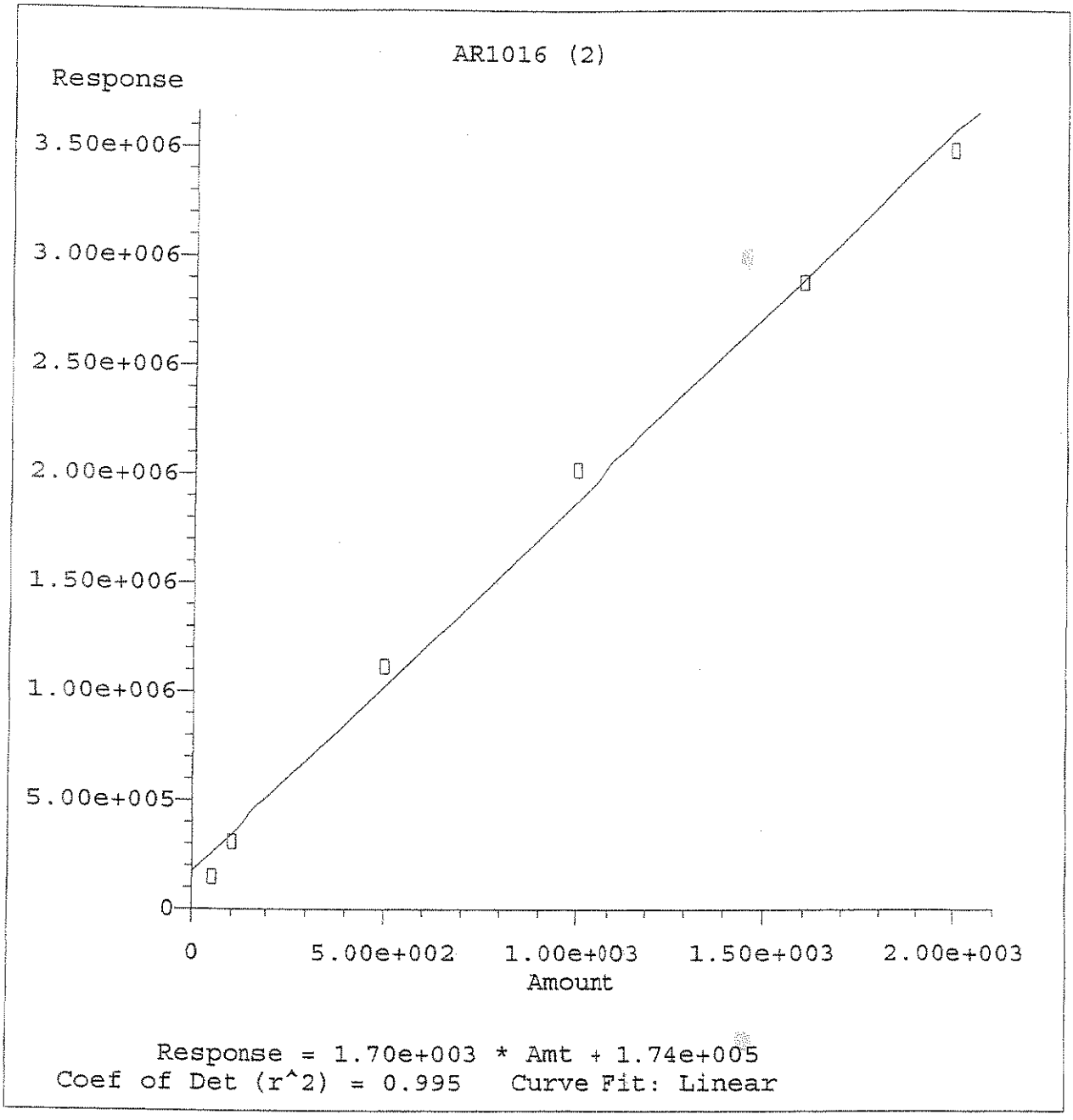
(#) = Out of Range



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



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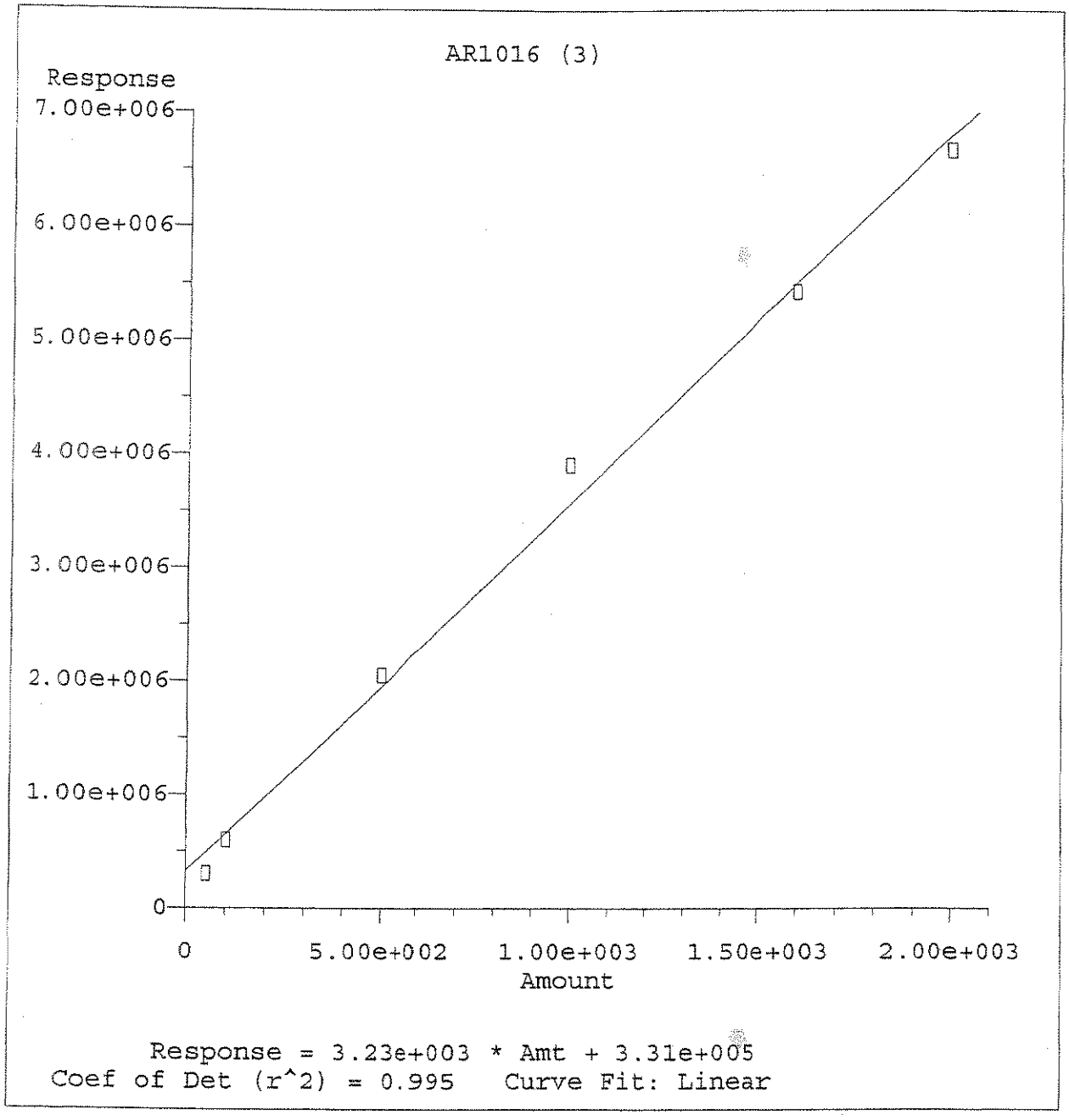
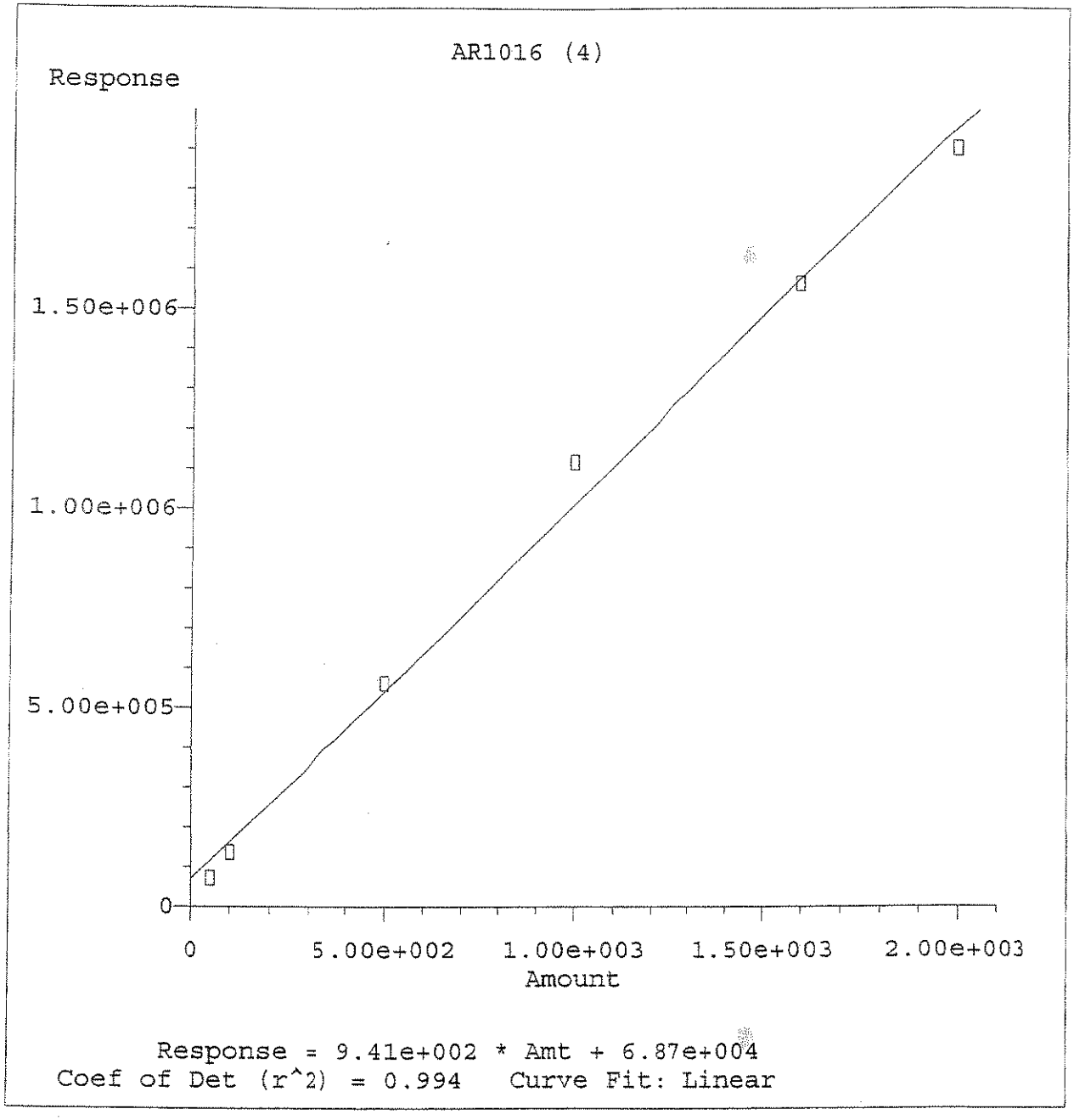
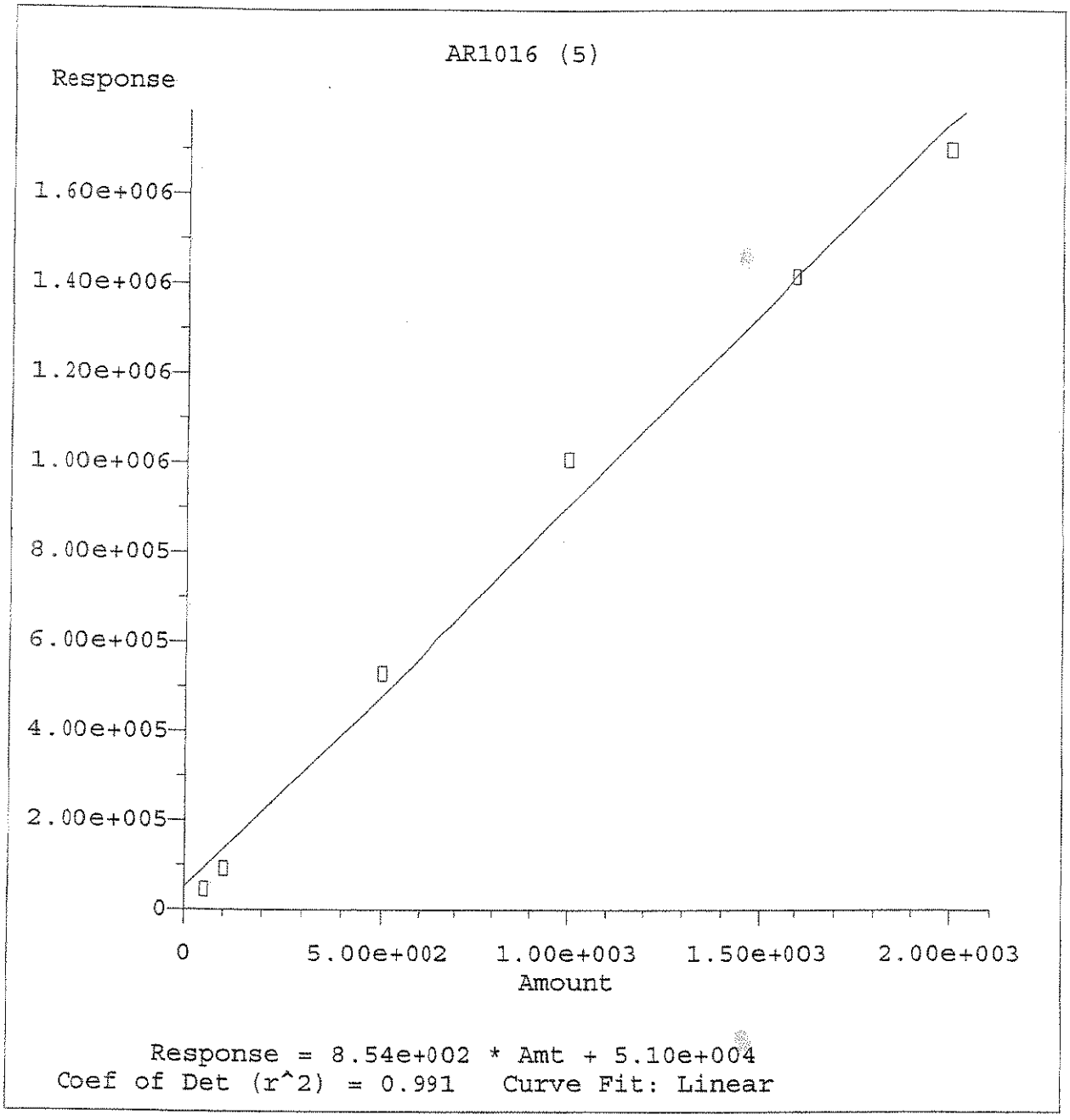
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



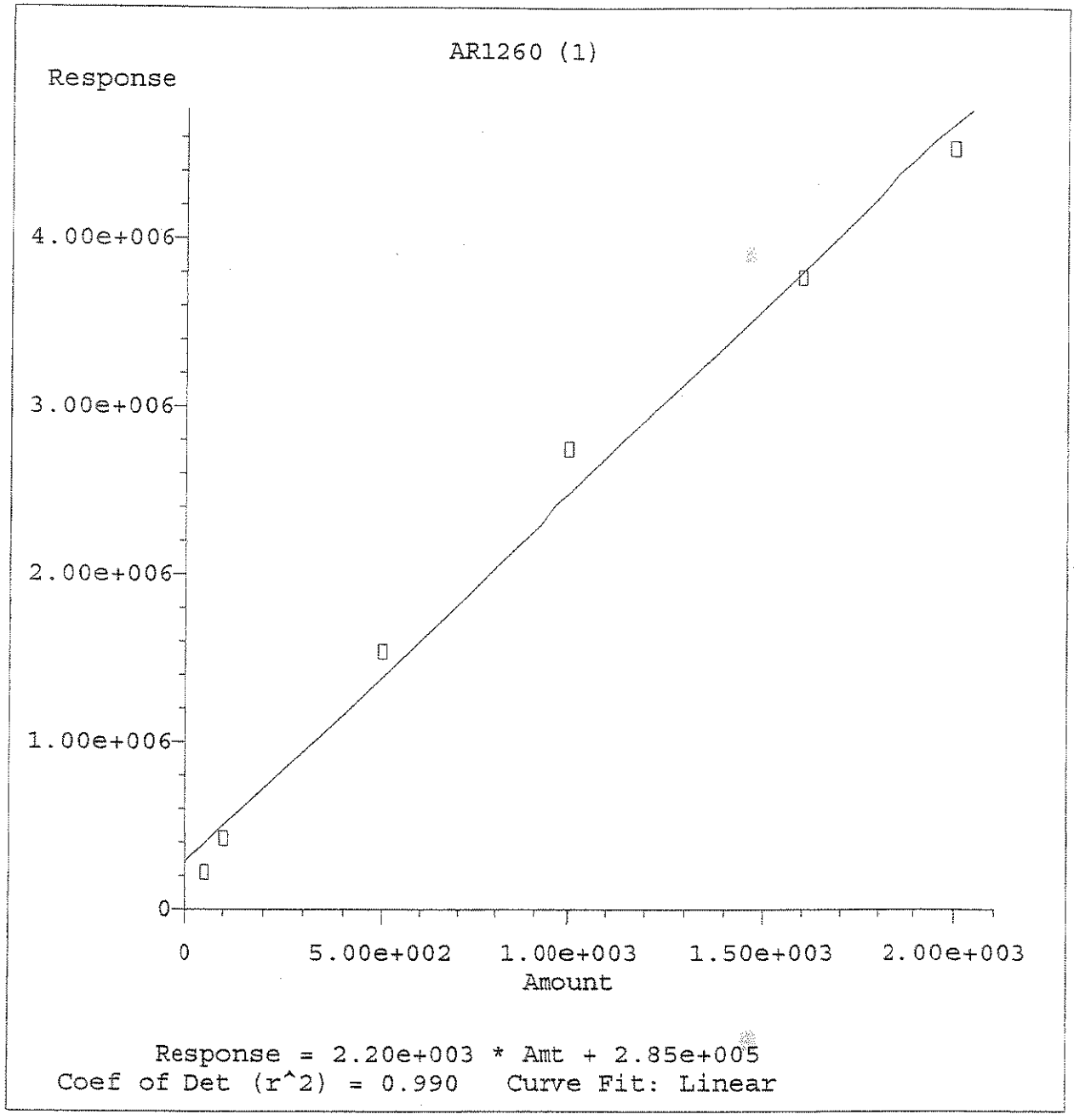
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



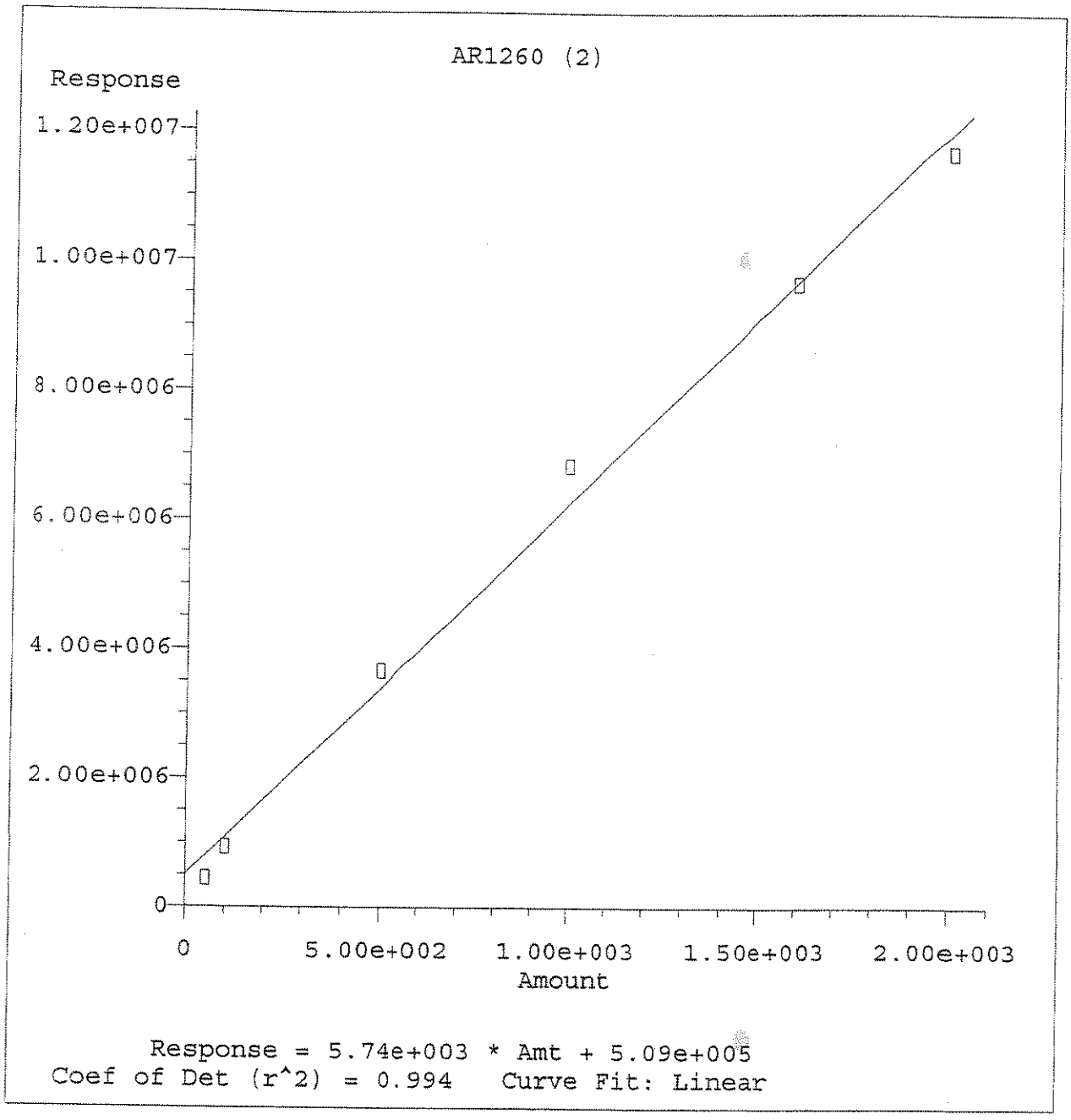
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



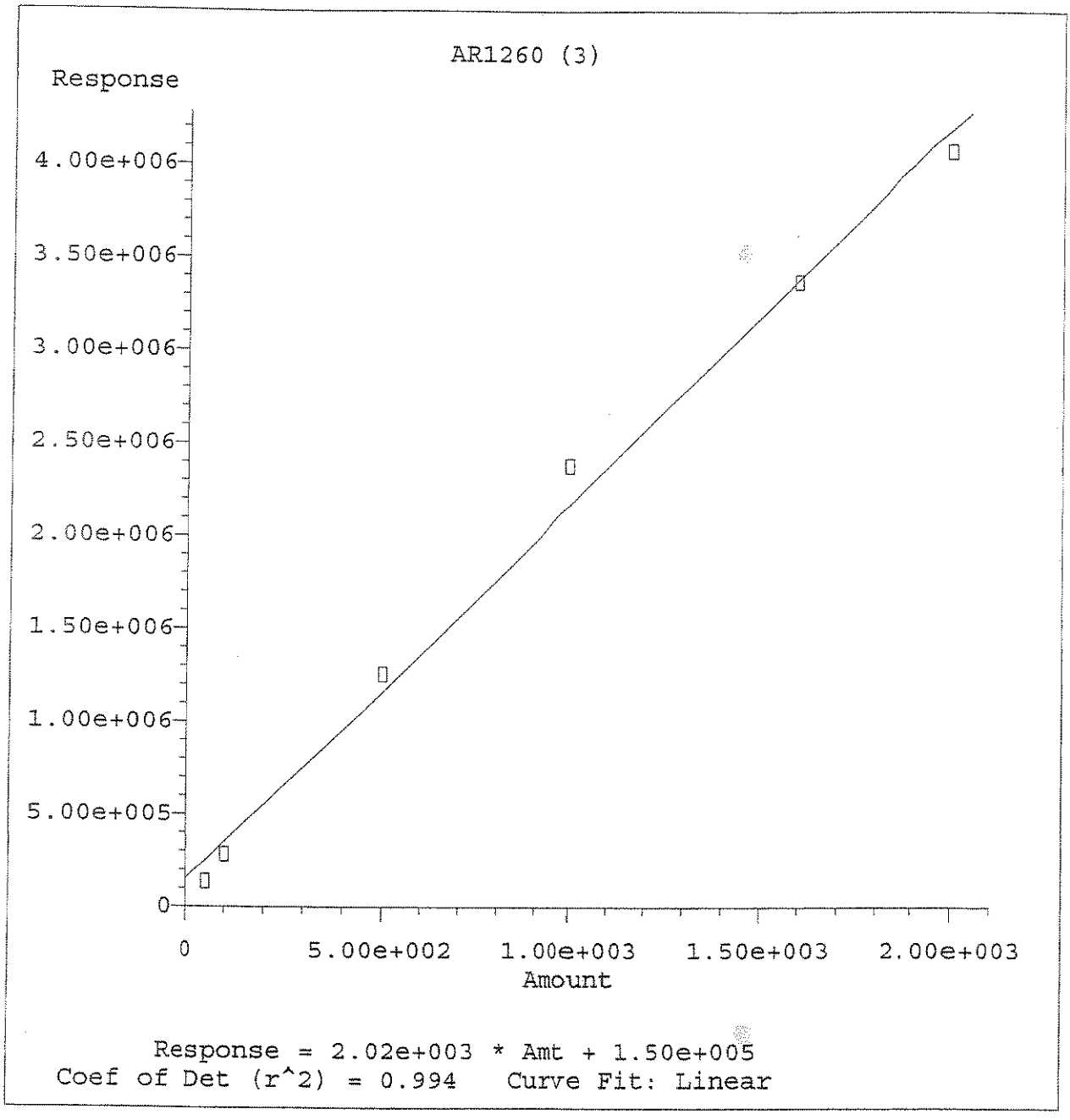
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



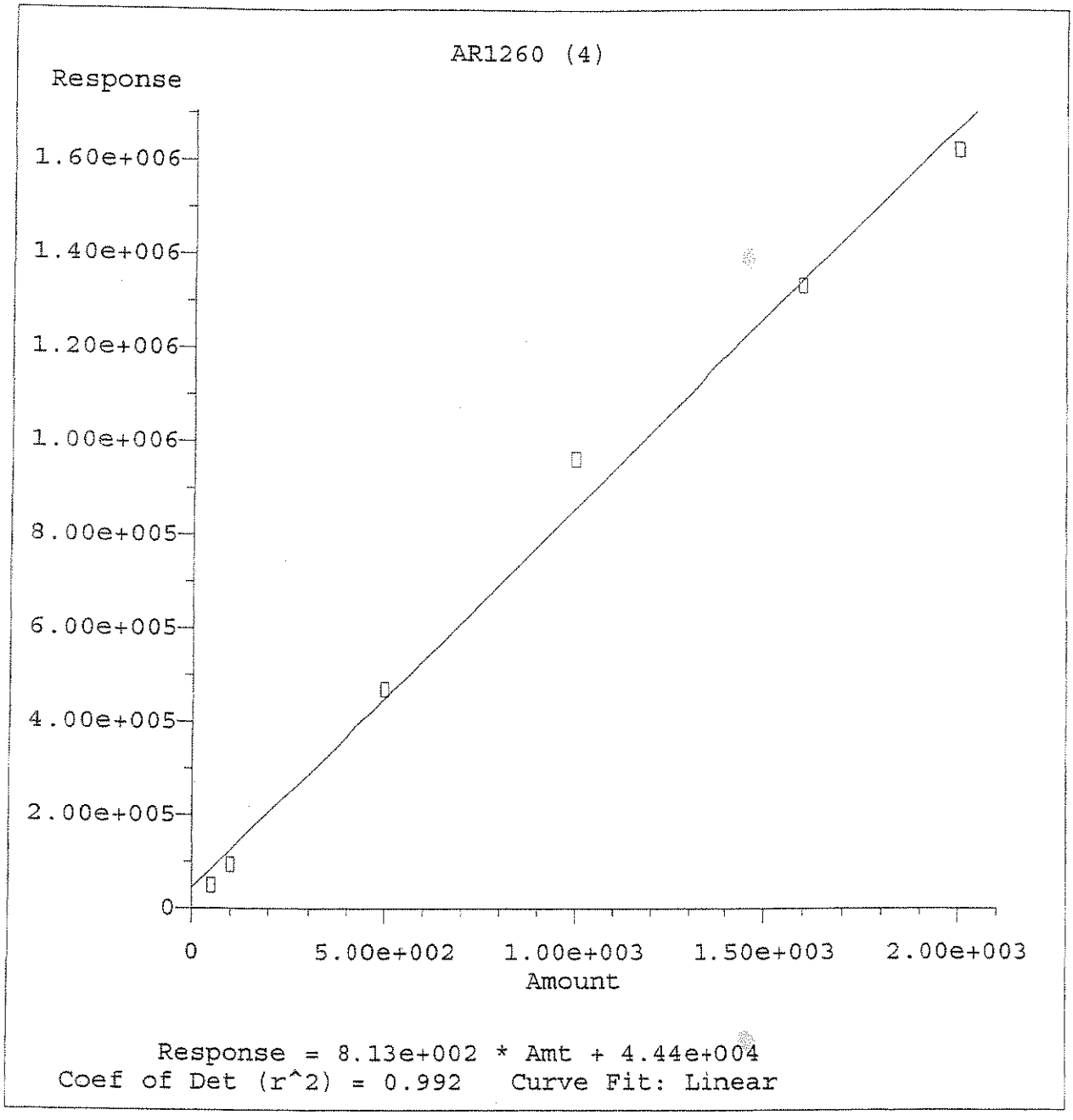
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



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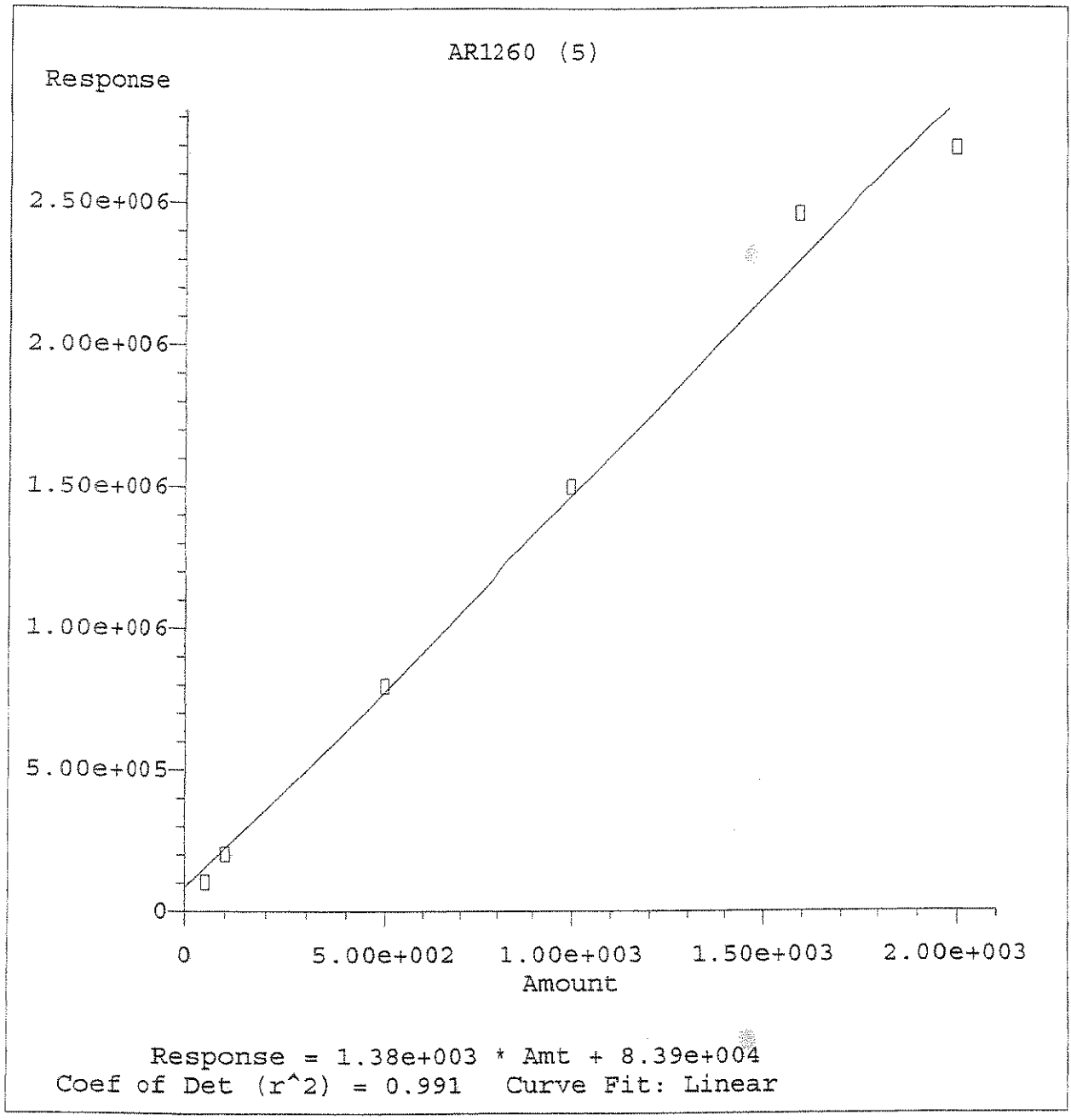
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



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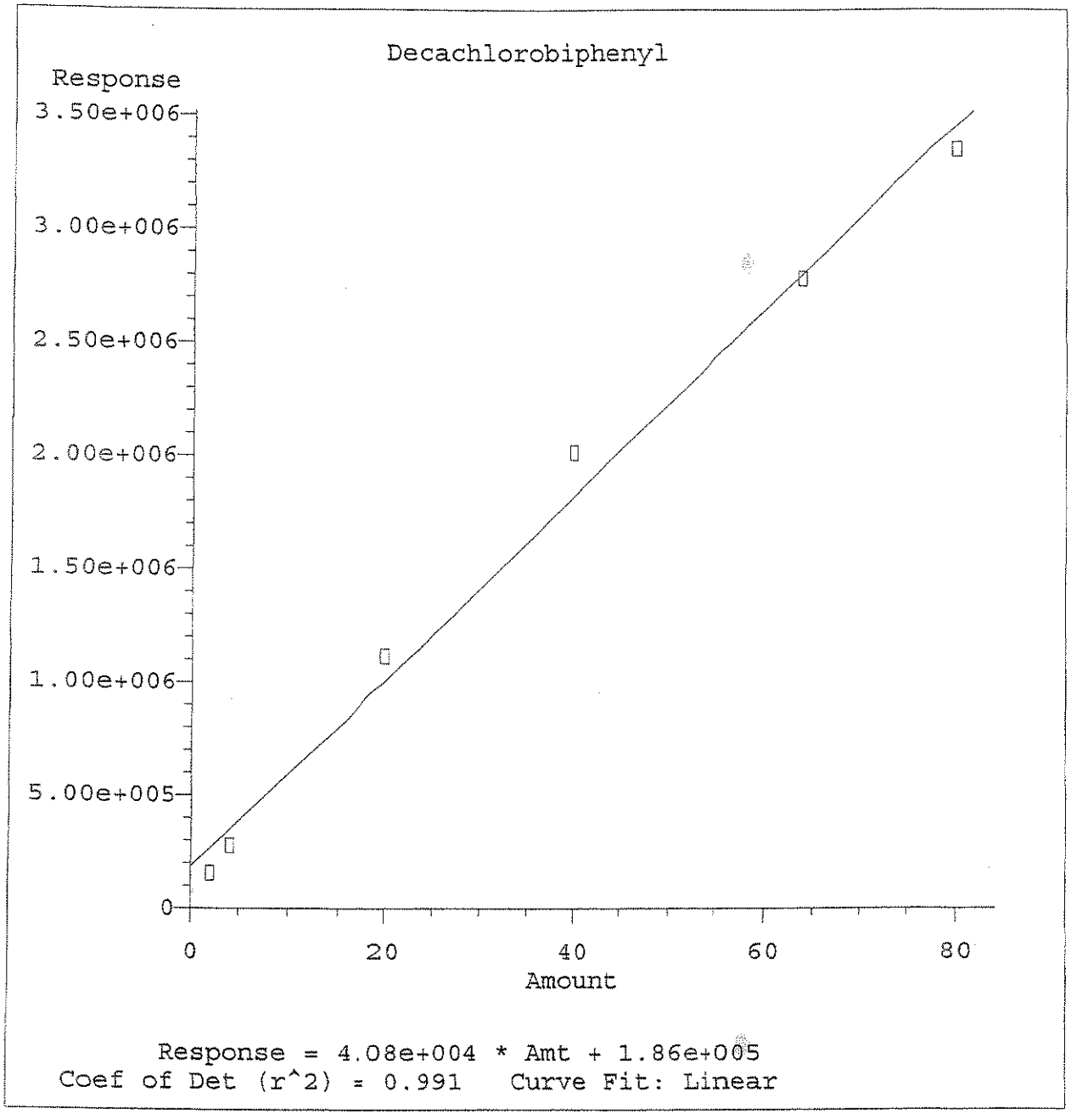
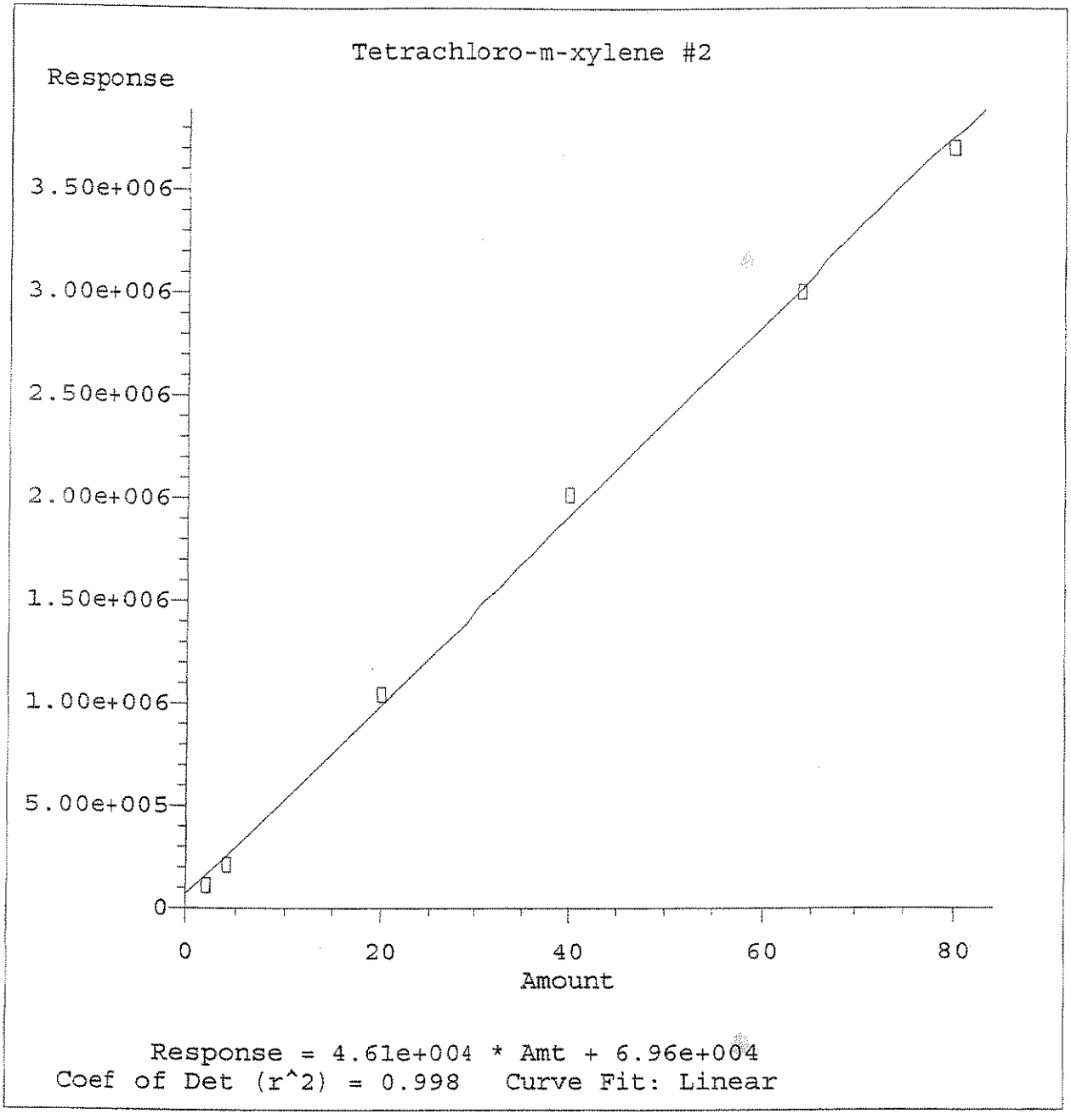
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



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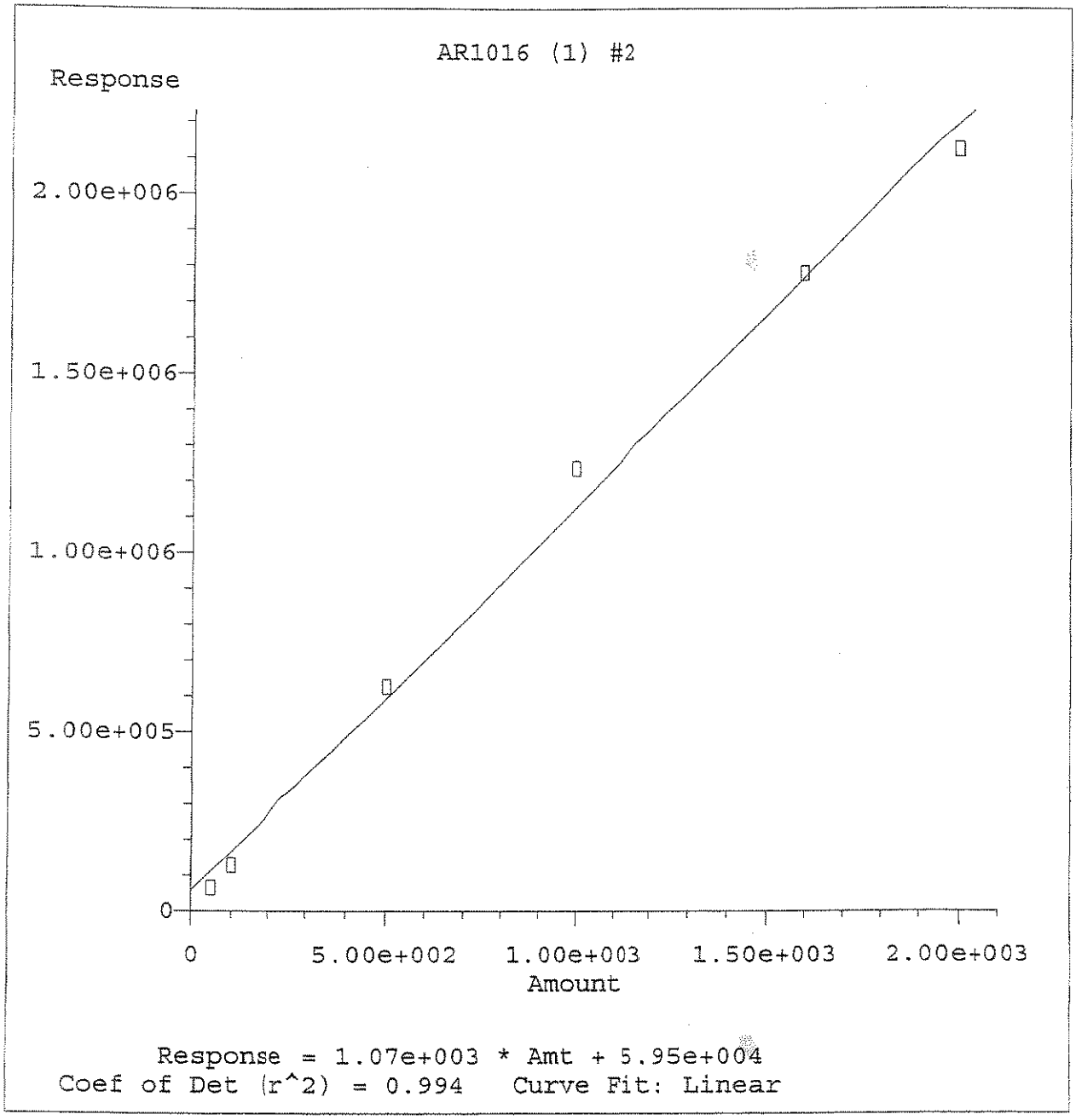
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



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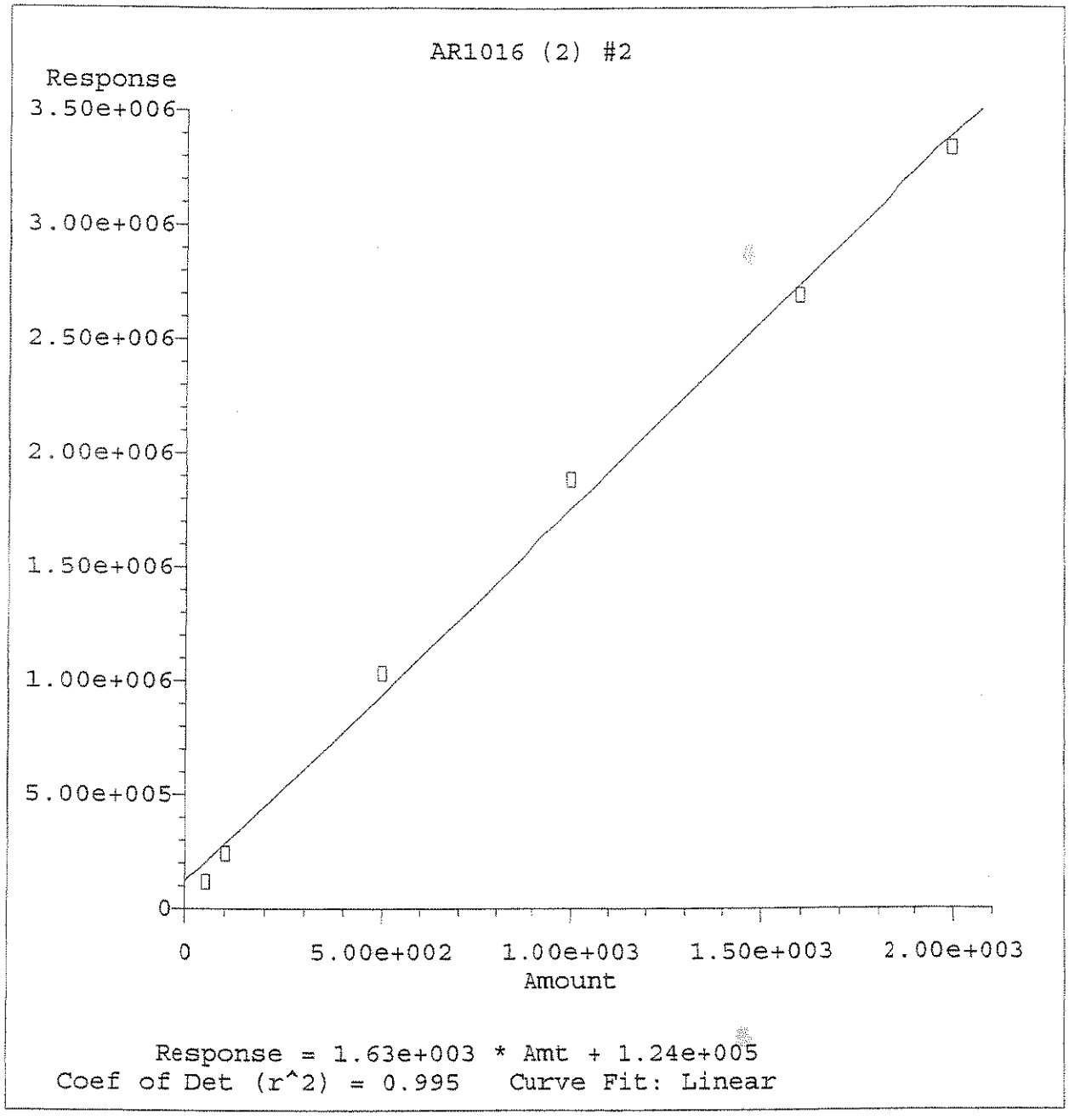
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



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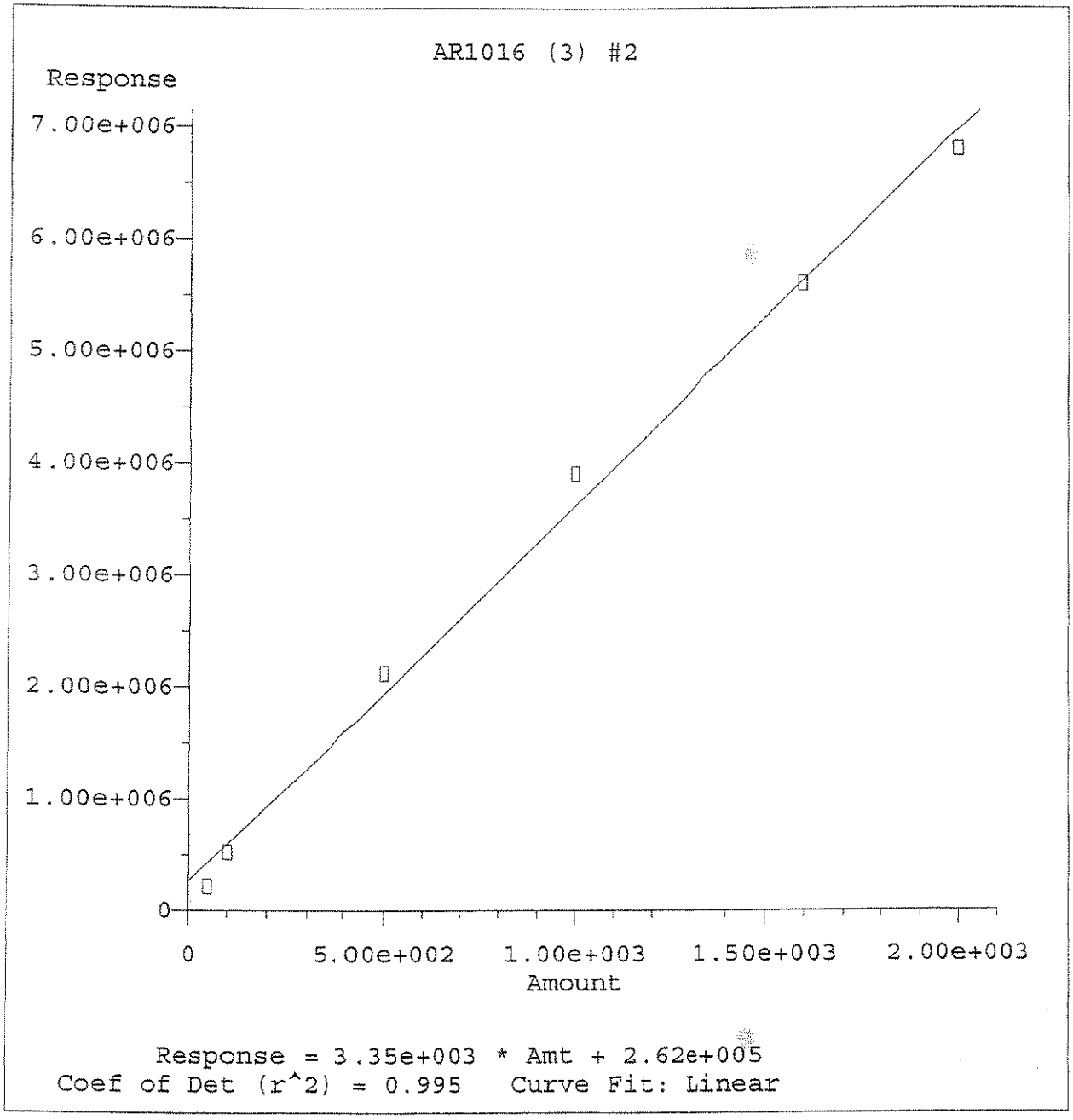
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



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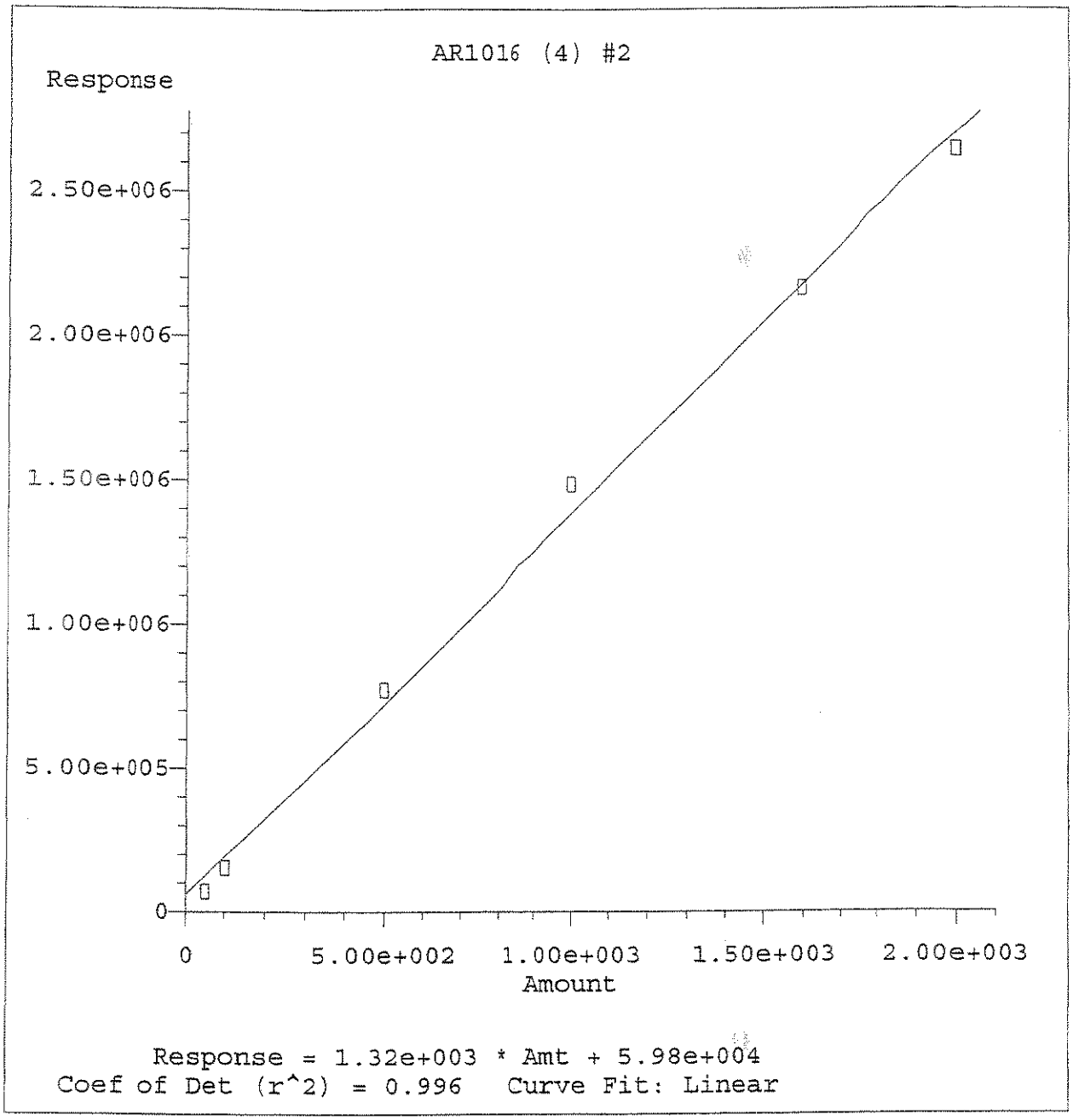
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



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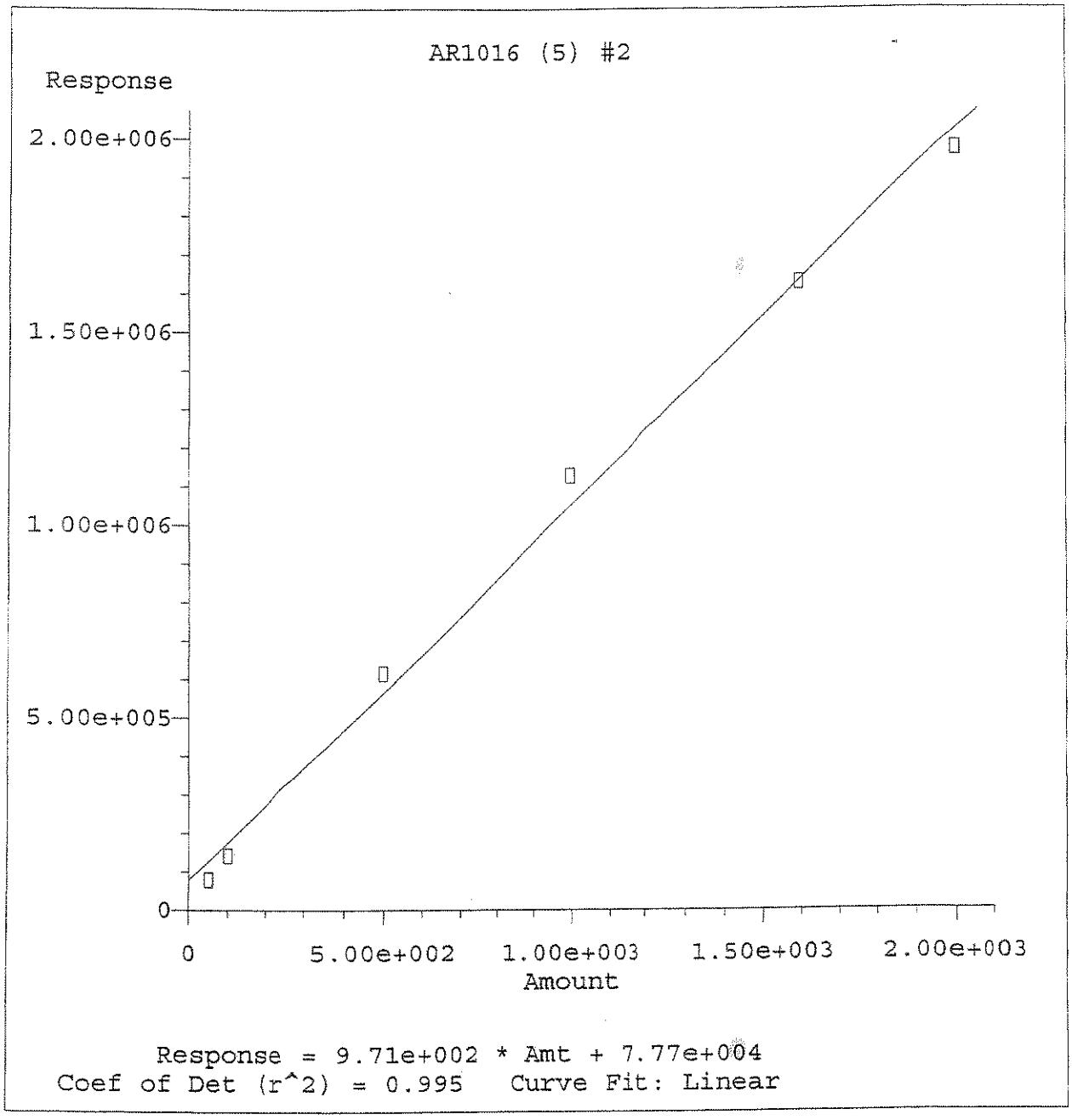
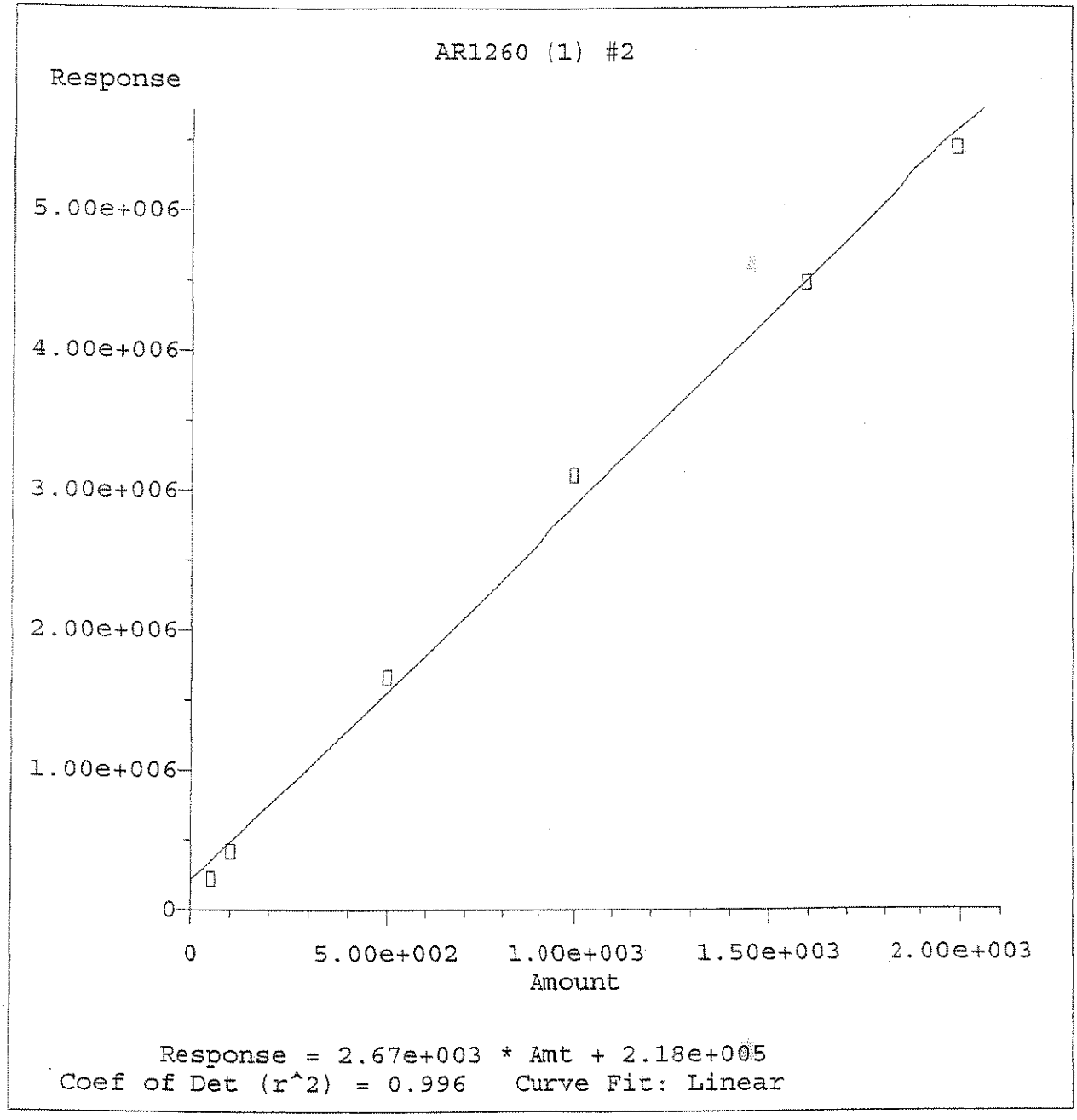
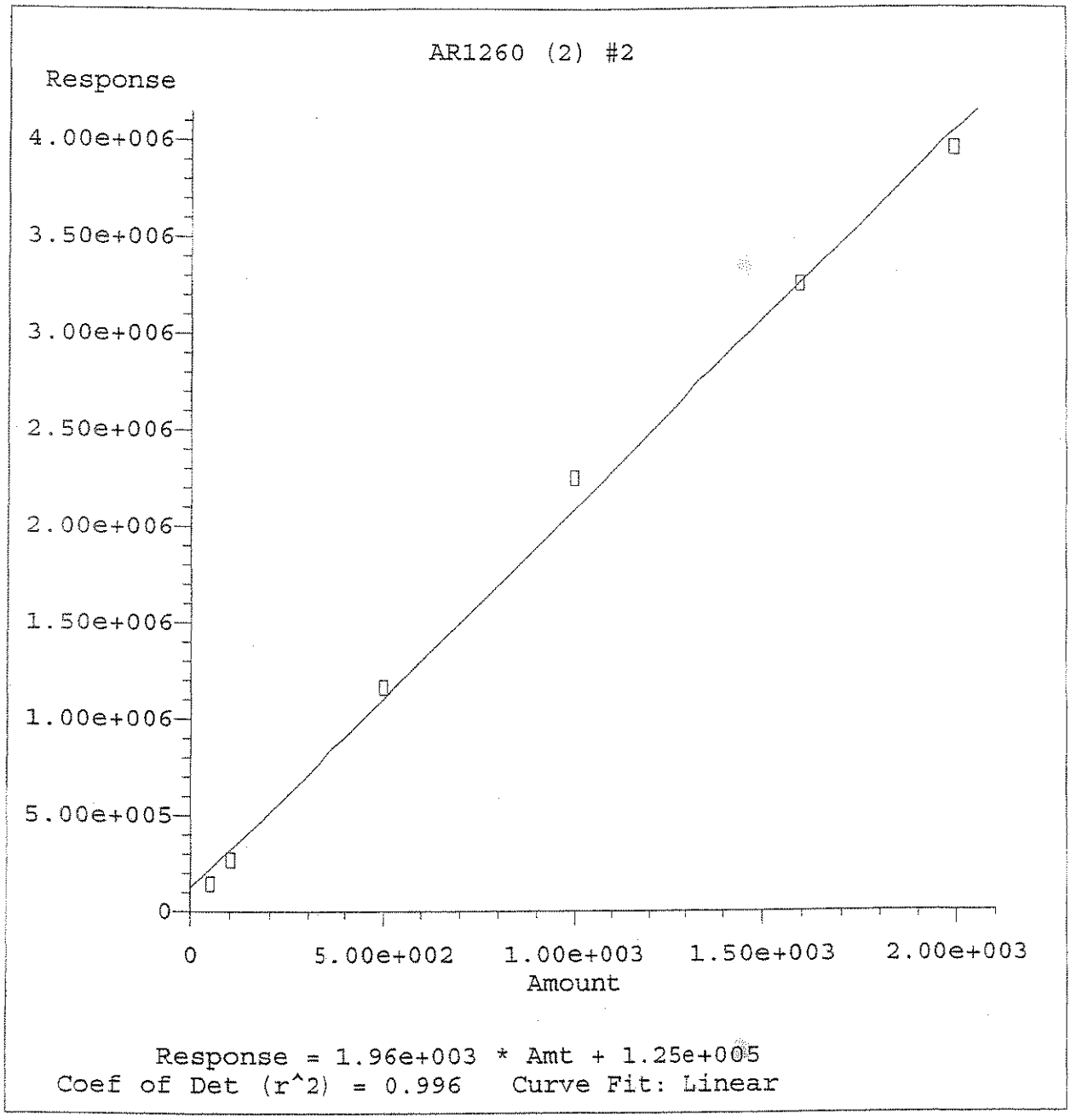
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



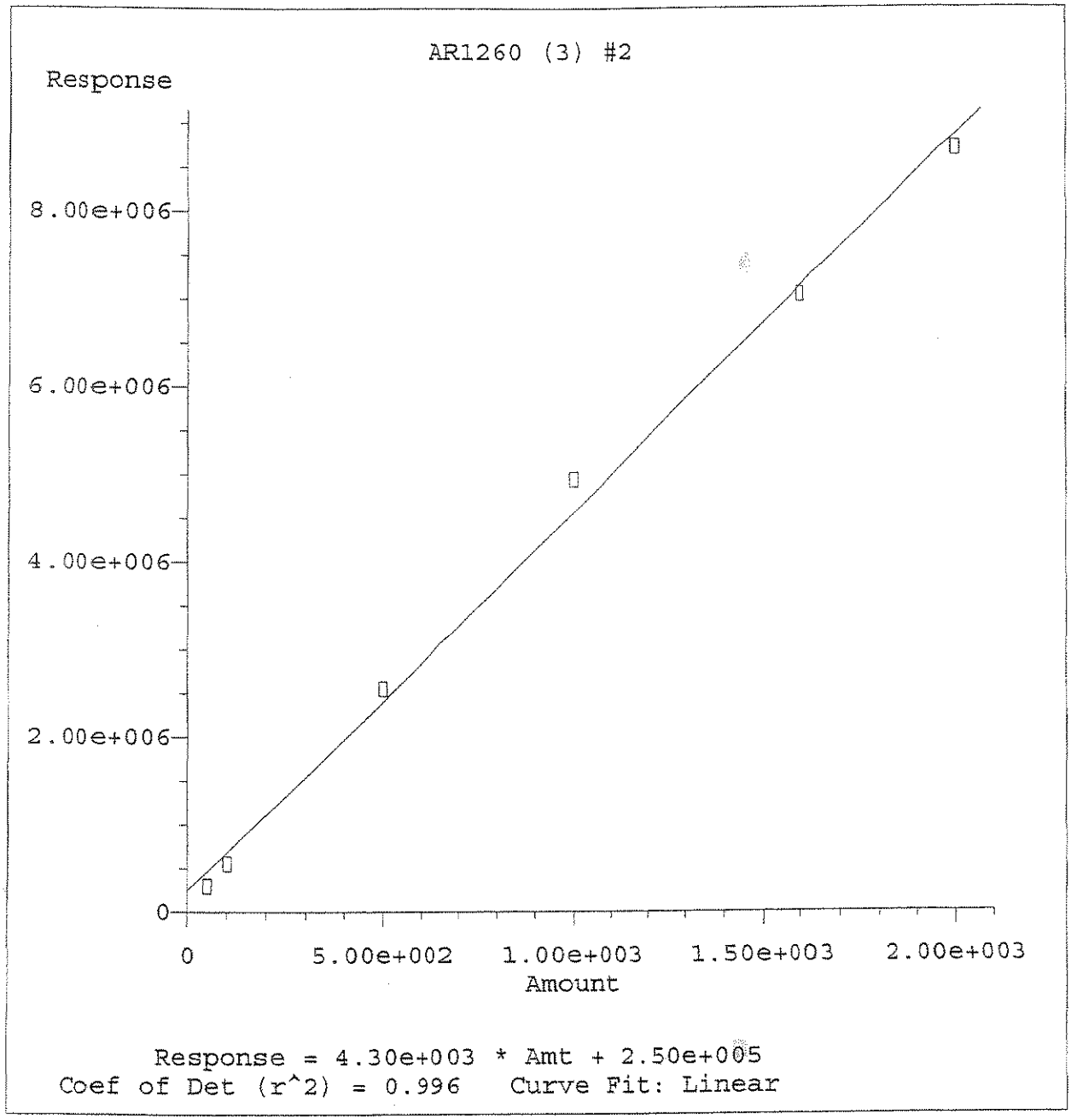
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



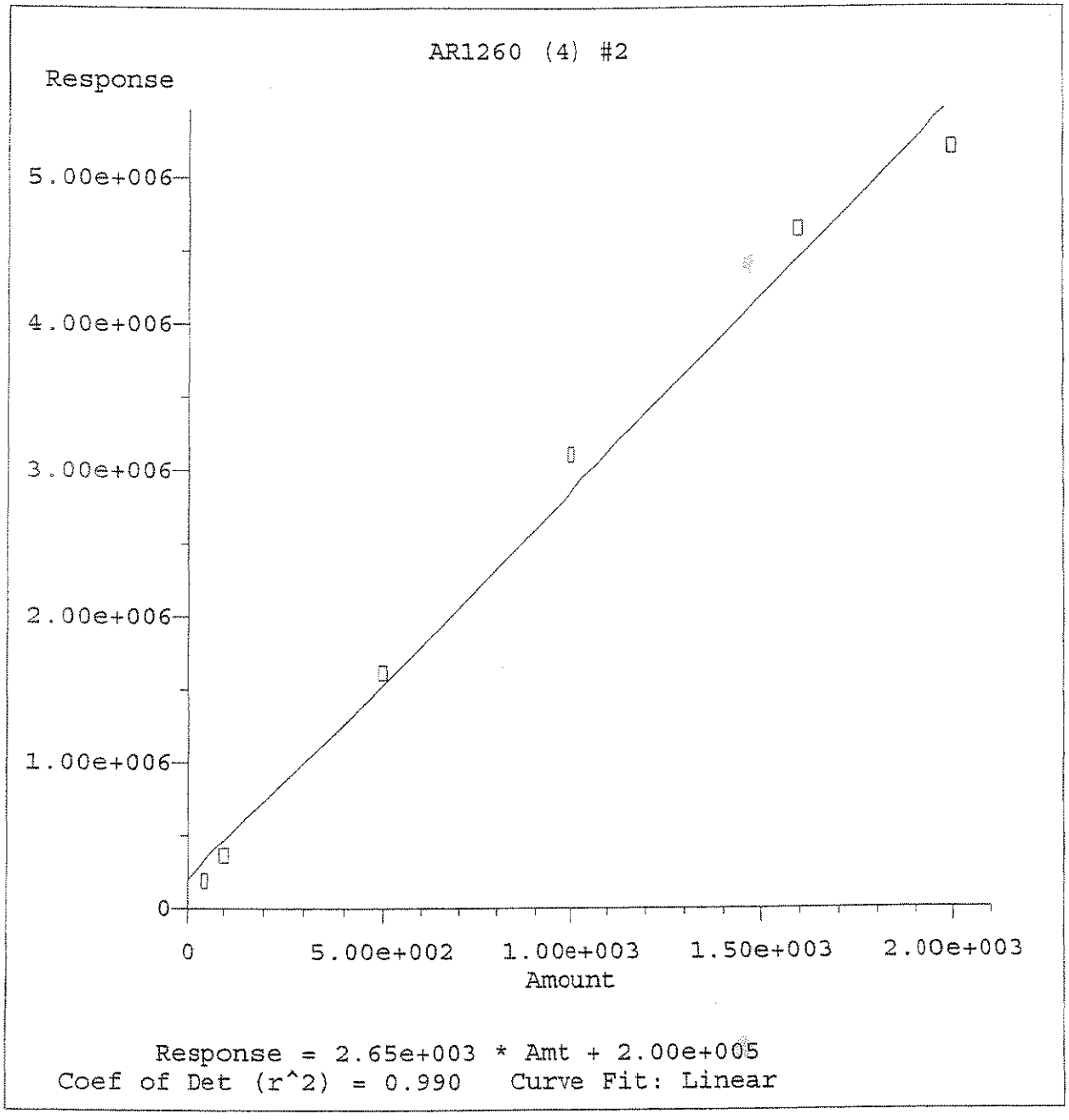
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



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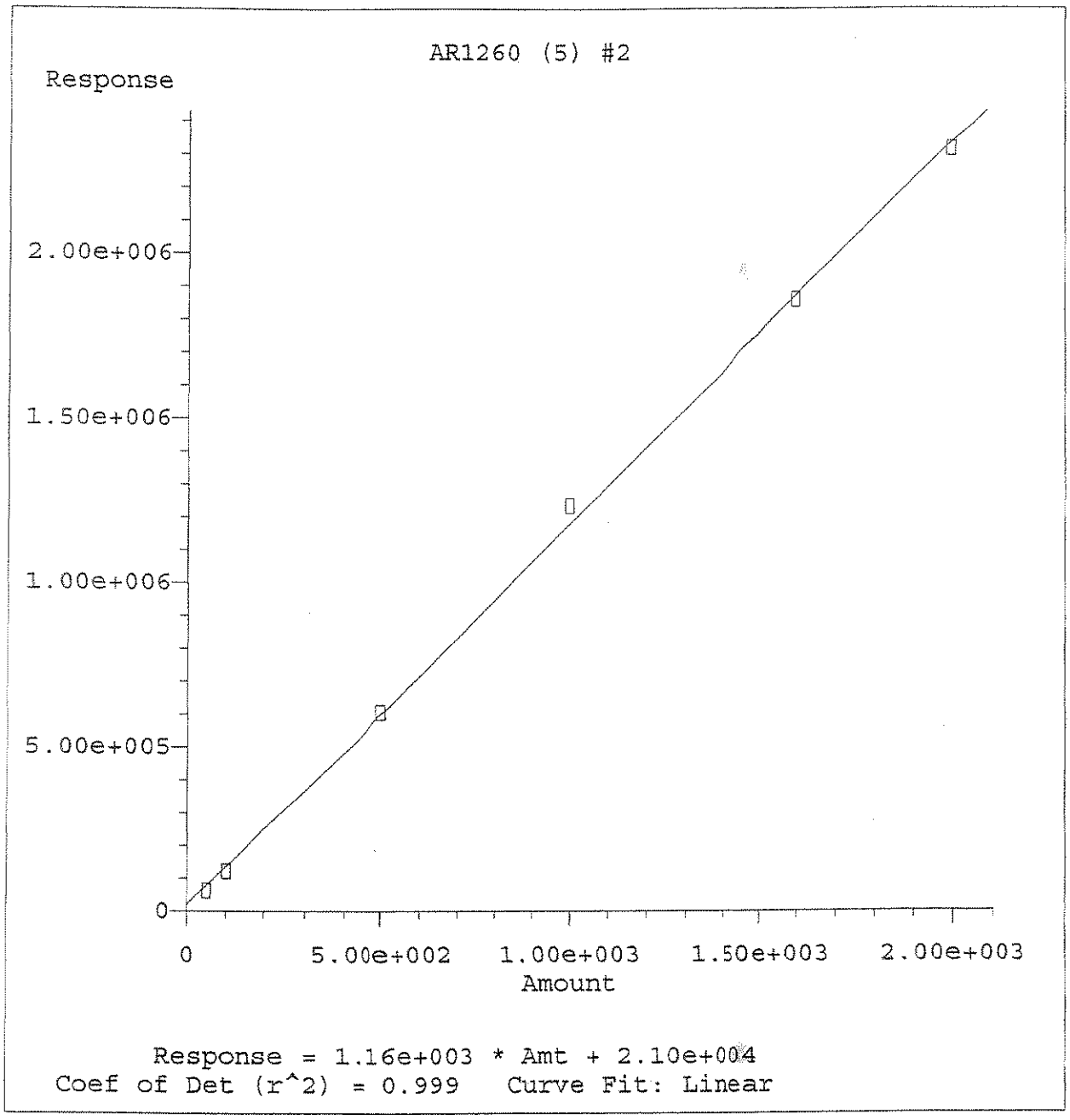
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



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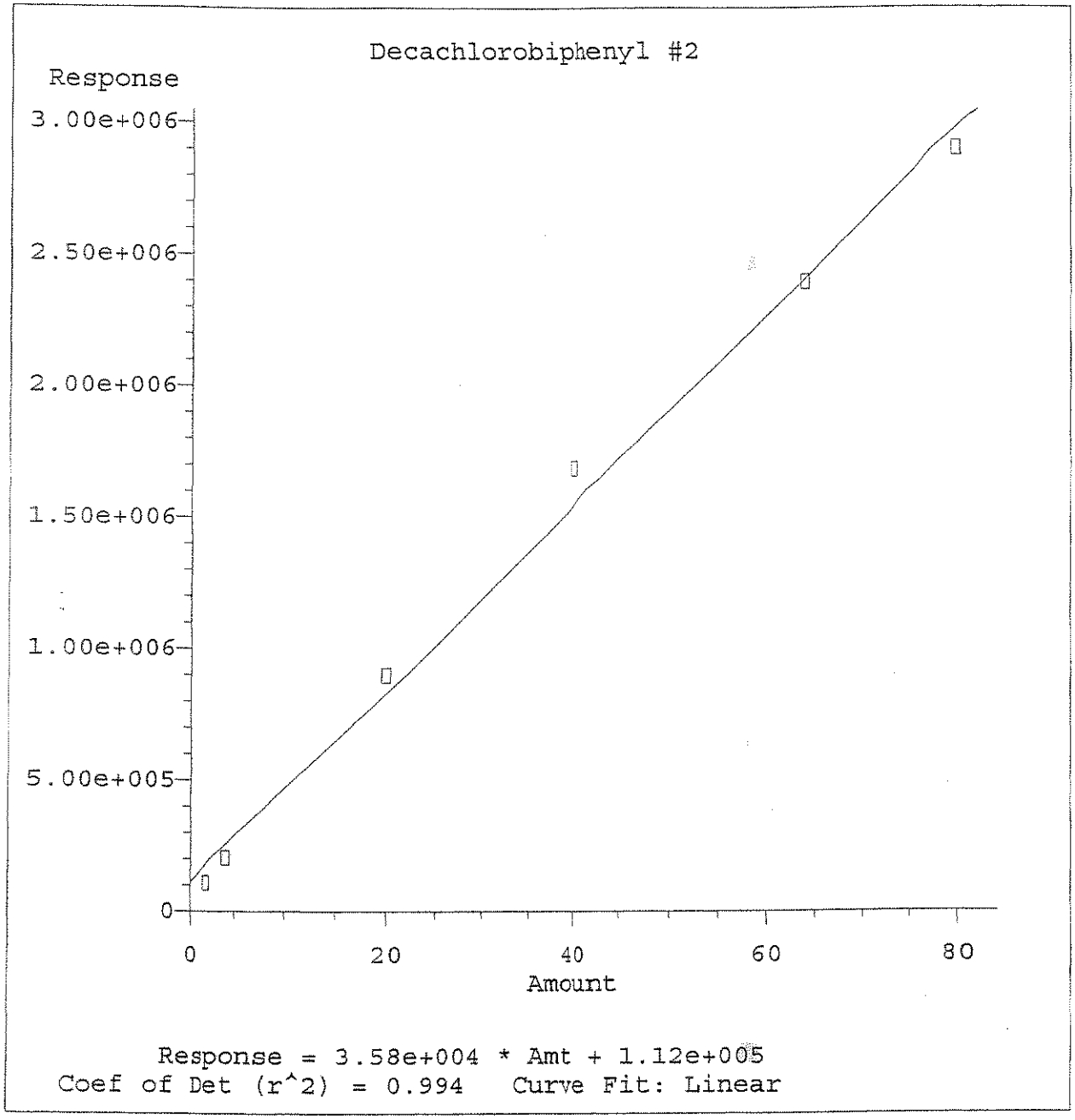
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

ANALYSIS SEQUENCE

BPG0308

Instrument: SVOAGC5

Calibnration ID: UNASSIGNED 8082CX

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0308-CCV1	QC		1		6F23058		
BF62329-BLK1	QC		2				
BF62329-BS1	QC		3				
BF62329-BSD1	QC		4				
0606374-01	SVOC: 8082 ppb PCB	A	5				MACTEC Engineering & Consulting, In
0606374-03	SVOC: 8082 ppb PCB	A	6				MACTEC Engineering & Consulting, In
0606374-05	SVOC: 8082 ppb PCB	A	7				MACTEC Engineering & Consulting, In
0606374-07	SVOC: 8082 ppb PCB	A	8				MACTEC Engineering & Consulting, In
0606374-09	SVOC: 8082 ppb PCB	A	9				MACTEC Engineering & Consulting, In
BPG0308-CCV2	QC		10		6F23058		
0606374-11	SVOC: 8082 ppb PCB	A	11				MACTEC Engineering & Consulting, In
0606374-13	SVOC: 8082 ppb PCB	A	12				MACTEC Engineering & Consulting, In
0606374-15	SVOC: 8082 ppb PCB	A	13				MACTEC Engineering & Consulting, In
BPG0308-CCV3	QC		14		6F23058		

Samples Loaded By Date Data Processed By Date

ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II   Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/26/06	99	6606266-99	12484 ✓	8082CX	~~6F23018~~ 6F13060	M
	100	-100	12594 ✓		61	
6/26/06	97	-97	1660CC		CCV1 58 seq=B6F0308	
	18	-18	BF62329-BLK1 ✓			M
	19	-19	-BS1 ✓			
	20	-20	-BSD1 ✓			
	21	-21	0606373-01 ✓			
	22	-22	-03 ✓		57	
	23	-23	-05 ✓			
	24	-24	-07 ✓			
	25	-25	-09 ✓			
	26	-26	-09MS			
	27	-27	-09MSD ✓			
	28	-28	-12 ✓			
	29	-29	-14 ✓			
	30	-30	-16 ✓			
	31	-31	-18 ✓			
	32	-32	-20 ✓			
	33	-33	0606374-01 ✓			
	34	-34	-03 ✓			
	35	-35	-05 ✓			
	36	-36	-07 ✓			
	37	-37	-09 ✓			
	91	-91	1024			
	92	-92	1660CC		6F23018 CCV2 00:04	
	93	-93	1242CC		59	
	94	-94	12484		60	
	95	-95	1254CC		61	
	92	-92	1660CC		6F230 58	
6/26/06	38	-38	0606374-11 ✓	8082X		

ONTROL NUMBER 60.0031-0603A

ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/22/06	39	6062606-39	0606374-13	8082		M
	40	-40	-15			
	41	-41	BF62333-BLK1 -BS1			
	42	-42	BF62333-BS1 -BSD1			
	43	-43	BS01 -BS1			
	44	-44	0606334-01 -BS01			
	45	-45	0606334-02 -01			
	51	-51	Hex			
	52	-52	1660cc		BF23058 CCV3 4:18Am	
	53	-53	1242cc		59	
	54	-54	1254cc		60	
	55	-55	1254cc		61	
6/26/06	52	6062606-52	1660cc	8082	BF23058	~
6/27/06	1	6062706-01	Hex	8082		M
	2	-02	1660cc		BF23058	
	3	-03	1242cc		59	
	4	-04	1254cc		60	
6/27/06	5	6062706-05	1254cc	8082	BF23061	~
6/28/06	1	6062806-01	Hex	8082	~~BF230~~ M 6/28/06	M
	2	-02	1660cc		BF23058	
	3	-03	1242cc		59	
	4	-04	1254cc		60	
	5	-05	1254cc		BF23061	
	6	-06	BF62219-BLK1		5x conc	
	7	-07	0606346-01 ~~BS1~~		5x conc	
	8	-08	0606346-02		5x conc	
	9	-09	0606346-03		5x conc	
	10	-10	0606372-03		5x conc	
	11	-11	-03		/	
6/28/06	12	6062806-12	BF62333-BLK1	8082	5x conc	~

M 6/28/06

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG0606\GG062606\097F0101.D Vial: 97
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG0606\GG062606\097F0101.D\097R0101.D
Acq On : 26 Jun 06 03:56 PM Operator: [GC]7R0101.D\DATA.MS
Sample : 1660 CC Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jun 26 17:09 19106

Method : Q:\SVOA\GC5_GG\METHODS\8082CX.M
Title :
Last Update : Mon Jul 10 09:21:55 2006
Response via : Multiple Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xylen	3.58	5.18	2195986	1878552	40.180	39.254
				Recovery	=	80.36%	78.51%
12)	S Decachlorobiphenyl	9.85	12.22	1811917	1439904	39.815	37.085
				Recovery	=	79.63%	74.17%
	Target Compounds						
2)	LM1 AR1016 (1)	4.11	5.89	1066316	1093998	953.878	969.567
3)	LM1 AR1016 (2)	4.57	6.42	1878385	1756113	1003.022	1000.621
4)	LM1 AR1016 (3)	5.14	6.99	4254196	3507397	1213.299	967.711
5)	LM1 AR1016 (4)	5.88	7.28	1077851	1234862	1072.128	890.070
6)	LM1 AR1016 (5)	6.21	7.70	916309	967038	1012.739	915.566
	Total AR1016 (1)			9193056	8559408	5255.066	4743.535
	Average AR1016 (1)					1051.013	948.707
7)	LM2 AR1260 (1)	7.13	9.35	2664607	2402344	1083.432	817.475
8)	LM2 AR1260 (2)	8.42	10.17	6762685	1651150	1088.952	779.687 #
9)	LM2 AR1260 (3)	8.80	10.43	2259185	4026094	1044.668	877.368
10)	LM2 AR1260 (4)	9.09	10.83	944543	2395212	1107.626	827.542m#
11)	LM2 AR1260 (5)	9.36	11.46	1610499	1031775	1106.276	874.585
	Total AR1260 (1)			14241518	11506575	5430.954	4176.656
	Average AR1260 (1)					1086.191	835.331

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG0606\GG062606\092F0201.D Vial: 92
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG0606\GG062606\092F0201.D\092R0201.D
Acq On : 27 Jun 06 00:04 AM Operator: [GC]2R0201.D\DATA.MS
Sample : 1660 CC Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jun 27 8:17 19106

Method : Q:\SVOA\GC5_GG\METHODS\8082CX.M
Title :
Last Update : Mon Jul 10 09:21:55 2006
Response via : Multiple Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xylen	3.58	5.19	2254638	1892985	41.295	39.568
				Recovery	=	82.59%	79.14%
12)	S Decachlorobiphenyl	9.85	12.22	1933789	1655575	42.799	43.108
				Recovery	=	85.60%	86.22%
	Target Compounds						
2)	LM1 AR1016 (1)	4.11	5.89	1060960	1124695	948.804	998.336
3)	LM1 AR1016 (2)	4.57	6.42	1871948	1790976	999.233	1022.000
4)	LM1 AR1016 (3)	5.14	6.99	3729006	3821924	1050.894m	1061.494
5)	LM1 AR1016 (4)	5.88	7.28	1082096	1435871	1076.637	1042.334
6)	LM1 AR1016 (5)	6.21	7.71	923807	1120821	1021.515	1073.893
	Total AR1016 (1)			8667817	9294288	5097.082	5198.056
	Average AR1016 (1)					1019.416	1039.611
7)	LM2 AR1260 (1)	7.13	9.35	2731149	2855291	1113.724	986.976
8)	LM2 AR1260 (2)	8.42	10.17	7145142	2028906	1155.545	972.659
9)	LM2 AR1260 (3)	8.80	10.43	2159046	4738178	995.076m	1042.800
10)	LM2 AR1260 (4)	9.09	10.83	1034918	3079264	1218.838m	1085.370m
11)	LM2 AR1260 (5)	9.36	11.46	1613342	1207351	1108.336m	1026.499
	Total AR1260 (1)			14683596	13908990	5591.518	5114.305
	Average AR1260 (1)					1118.304	1022.861

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG0606\GG062606\092F0501.D Vial: 92
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG0606\GG062606\092F0501.D\092R0501.D
Acq On : 27 Jun 06 04:18 AM Operator: [GC]2R0501.D\DATA.MS
Sample : 1660 CC Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jun 27 8:20 19106

Method : Q:\SVOA\GC5_GG\METHODS\8082CX.M
Title :
Last Update : Mon Jul 10 09:21:55 2006
Response via : Multiple Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xylen	3.58	5.19	2335731	1920788	42.836	40.171
				Recovery	=	85.67%	80.34%
12) S	Decachlorobiphenyl	9.85	12.22	1952708	1667803	43.262	43.449
				Recovery	=	86.52%	86.90%
	Target Compounds						
2)	LM1 AR1016 (1)	4.11	5.89	1036451	1093915	925.582	969.488
3)	LM1 AR1016 (2)	4.57	6.43	1876568	1735270	1001.952	987.841
4)	LM1 AR1016 (3)	5.14	6.99	3700304	3859390	1042.018m	1072.665
5)	LM1 AR1016 (4)	5.88	7.28	1015496	1444938	1005.878	1049.202
6)	LM1 AR1016 (5)	6.21	7.71	834871	1133156	917.421	1086.592
Total	AR1016 (1)			8463689	9266668	4892.851	5165.788
Average	AR1016 (1)					978.570	1033.158
7)	LM2 AR1260 (1)	7.13	9.35	2539206	2944323	1026.346	1020.293
8)	LM2 AR1260 (2)	8.42	10.17	6998463	2071235	1130.005	994.282
9)	LM2 AR1260 (3)	8.80	10.43	2366163	4795498	1097.647	1056.117
10)	LM2 AR1260 (4)	9.09	10.83	1025812	3012262	1207.633m	1060.116m
11)	LM2 AR1260 (5)	9.36	11.46	1645124	1223759	1131.368m	1040.696
Total	AR1260 (1)			14574768	14047077	5592.999	5171.505
Average	AR1260 (1)					1118.600	1034.301

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

PCB
Logbooks

ESS Organic Preparation Logbook

Project #: 0606373, 0606374
Prep Date: 6/23/06
Batch ID: PXPTXBF62329
Extraction Method: 3541

Surrogate ID#
A 6F09078
B NA
C

Matrix Spike ID#
D 6FB5037
E 6F21098
F NA

Analytical Matrix: Soil
Extraction Time:
Start: 1400
Finish:

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/Wt(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
PXPTXBF62329-B	20.0	1	NA	10	10	NA	6/24/06	40	NA	NA		EM		JCS
PXBF62329-BS	20.0	1		10	10									
-BSD	20.0	1		10	10									
PTXBF62329-01	20.0	1		10	10									
-D/D	20.0	1		10	10									
PXPTX0606373-01	20.1	1	NA	10	10									
-03	19.7	1		10	10									
-05	19.2	1		10	10									
-07	19.0	1		10	10									
-09	20.5	1	NA	10	10									
PX0606373-09MS	20.1	1		10	10									
-09MSD	19.9	1		10	10									
PXPTX0606373-12	20.7	1	NA	10	10									
-14	21.0	1	NA	10	10									
PTX0606373-16MS	21.0	1		10	10									
-16MSD	20.1	1		10	10									
PXPTX0606373-16	21.0	1	NA	10	10									
-18	19.0	1		10	10									
-20	19.9	1		10	10									
PXPTX0606374-01	19.8	1		10	10									
-03	20.0	1		10	10									
-05	20.8	1		10	10									
-07	20.0	1		10	10									
-09	19.0	1		10	10									
-11	19.3	1	NA	10	10	NA	6/24/06	40	NA	NA		EM		JCS

723

Analysis Performed
PCB ☑
B/N SVOA ☐
SVOA ☐
LL PAH ☐
PEST ☑
TPH/GC ☐
BIS-2 ☐
PAH ☐

Acid Washed: (Y) / N
H2SO4 ID#: 1120060SA
Cu Cleaned: Y / (N)
Cu ID# NA
Florisiled: Y / (N)
Lot# NA
Silica Column/Carbon prep: (Y) / N
Lot # P1808

CH_2Cl_2 lot # NA
Hexane lot# CQ914
Acetone lot# CIFE11
NaOH ID# NA
Na_2SO_4 ID# PRE0617060

Prepared By: EM
Glasswool: PRE0614066
Method #(s): 8081/8082

**Check off column if entire sample used and bottle discarded.

Control #50 0001-0603A

BATCH ID/Test: BF62329

...continued from pg 133

ESS Organic Preparation Logbook

Project #: 0606373, 0606374
Prep Date: 6/23/06
Batch ID: KPTXBF62329
Extraction Method: 3541

Surrogate ID#
A 6PD9078
B NA
C

Matrix Spike ID#
D 6F05037
E 6F21098
F NA

Analytical Matrix: soil
Extraction Time:
Start: 1400
Finish: —

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
PXFTX0606374-13	19.2	1	NA	10	10	NA	6/24/06	40	NA	NA		EM		JLS
-15	19.8	1	NA	10	10	NA	6/24/06	40	NA	NA		EM		JLS

724

Analysis Performed
PCB ☒
B/N SVOA ☐
SVOA ☐
LL PAH ☐
PEST ☒
TPH/GC ☐
BIS-2 ☐
PAH ☐

Acid Washed: (Y) / N
H2SO4 ID#: IP060107A
Cu Cleaned: Y / (N)
Cu ID#: NA
Florisiled: Y / (N)
Lot#: NA
Silica Column/Carbon prep: (Y) / N
Lot #: P1806

CH_2Cl_2 lot #: NA
NaOH ID#: NA
Hexane lot#: CQ914
Na_2SO_4 ID#: QRID0170606
Acetone lot#: C15E11

Prepared By: EM /
Glasswool: QRID0640406
Method #(s): 8081/8082

**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A
BATCH ID/Test:
BATCH ID/Test:
Page

TPH
Data Package

TPH
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1301
Date Sampled: 06/22/06 11:30
Percent Solids: 80
Initial Volume: 19.5
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-01
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/24/06

8100M Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
Total Petroleum Hydrocarbons	ND	mg/kg dry	48.1	1	06/28/06

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*93 %*		*40-140*

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1401
Date Sampled: 06/22/06 12:10
Percent Solids: 26
Initial Volume: 19.6
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-03
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/24/06

8100M Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
Total Petroleum Hydrocarbons	ND	mg/kg dry	147	1	06/28/06

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*96 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1501
Date Sampled: 06/22/06 12:30
Percent Solids: 81
Initial Volume: 20.6
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-05
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/24/06

8100M Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
Total Petroleum Hydrocarbons	ND	mg/kg dry	44.9	1	06/28/06

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*77 %*		*40-140*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1601
Date Sampled: 06/22/06 13:15
Percent Solids: 14
Initial Volume: 19.5
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-07
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/24/06

8100M Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
Total Petroleum Hydrocarbons	ND	mg/kg dry	275	1	06/28/06

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*68 %*		*40-140*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1801
Date Sampled: 06/22/06 14:00
Percent Solids: 13
Initial Volume: 19.8
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-09
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/24/06

8100M Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
Total Petroleum Hydrocarbons	ND	mg/kg dry	291	1	06/28/06

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*75 %*		*40-140*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1901
Date Sampled: 06/22/06 14:35
Percent Solids: 21
Initial Volume: 19.5
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-11
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/24/06

8100M Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
Total Petroleum Hydrocarbons	756	mg/kg dry	183	1	06/28/06

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*90 %*		*40-140*

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2301
Date Sampled: 06/22/06 15:30
Percent Solids: 76
Initial Volume: 19.7
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-13
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/24/06

8100M Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
Total Petroleum Hydrocarbons	ND	mg/kg dry	50.1	1	06/27/06

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*97 %*		*40-140*

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2101
Date Sampled: 06/22/06 15:00
Percent Solids: 73
Initial Volume: 20.7
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-15
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/24/06

8100M Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
Total Petroleum Hydrocarbons	**57.8**	mg/kg dry	49.6	1	06/28/06

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*82 %*		*40-140*

TPH
Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606374

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch BF62329 - 3541										
Aroclor 1268	ND	33.3	ug/Kg wet							
Surrogate: Decachlorobiphenyl	*17.3*		ug/Kg wet	*16.7*		*104*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*16.9*		ug/Kg wet	*16.7*		*101*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*14.6*		ug/Kg wet	*16.7*		*87*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*14.9*		ug/Kg wet	*16.7*		*89*	*30-150*			
LCS										
Aroclor 1016	328	33.3	ug/Kg wet	333		98	40-140			
Aroclor 1260	349	33.3	ug/Kg wet	333		105	40-140			
Surrogate: Decachlorobiphenyl	*17.5*		ug/Kg wet	*16.7*		*105*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*17.2*		ug/Kg wet	*16.7*		*103*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*15.5*		ug/Kg wet	*16.7*		*93*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.3*		ug/Kg wet	*16.7*		*92*	*30-150*			
LCS Dup										
Aroclor 1016	333	33.3	ug/Kg wet	333		100	40-140	2	50	
Aroclor 1260	336	33.3	ug/Kg wet	333		101	40-140	4	50	
Surrogate: Decachlorobiphenyl	*17.9*		ug/Kg wet	*16.7*		*107*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*17.8*		ug/Kg wet	*16.7*		*107*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*15.8*		ug/Kg wet	*16.7*		*95*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.6*		ug/Kg wet	*16.7*		*93*	*30-150*			
8100M Total Petroleum Hydrocarbons										
Batch BF62406 - 3541										
Blank										
Total Petroleum Hydrocarbons	ND	37.5	mg/kg wet							
Surrogate: O-Terphenyl	*4.19*		mg/kg wet	*5.00*		*84*	*40-140*			
LCS										
Total Petroleum Hydrocarbons	671	37.5	mg/kg wet	1000		67	40-140			
Surrogate: O-Terphenyl	*5.31*		mg/kg wet	*5.00*		*106*	*40-140*			
LCS Dup										
Total Petroleum Hydrocarbons	653	37.5	mg/kg wet	1000		65	40-140	3	50	
Surrogate: O-Terphenyl	*5.04*		mg/kg wet	*5.00*		*101*	*40-140*			
8270C Polynuclear Aromatic Hydrocarbons										
Batch BG60520 - 3541										
Blank										
1-Methylnaphthalene	ND	500	ug/Kg wet							
2-Methylnaphthalene	ND	500	ug/Kg wet							
Acenaphthene	ND	500	ug/Kg wet							
Acenaphthylene	ND	500	ug/Kg wet							
Anthracene	ND	500	ug/Kg wet							
Benzo(a)anthracene	ND	500	ug/Kg wet							
Benzo(a)pyrene	ND	500	ug/Kg wet							

TPH
Calibration Data

ANALYSIS SEQUENCE

BPG0267

Instrument: SVOAGC2

Calibnration ID: ~~UNASSIGNED~~ 8/08 FC C

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0267-CAL1	QC		1		6F15038		
BPG0267-CAL2	QC		2		6F15039		
BPG0267-CAL3	QC		3		6F15040		
BPG0267-CAL4	QC		4		6F15041		
BPG0267-CAL5	QC		5		6F15042		
BPG0267-SCV1	QC		6		6F15043		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC2 Front RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/13/06	4	61306 4	TPH50	8100FCL	New Stock JS on file	JW
	5	5	TPH50		✓ 6F150 38 ICV	
	6	6	50		✓ 39 7	
	7	7	100		✓ 40 3	
	8	8	250		✓ 41 4	
	9	9	500		✓ 42 5	
	10	10	TPH50CCS		✓ 6F150 48 CCV	
	11	11	BF61213BLK1		✓	
	12	12	-BS1		✓	
	13	13	-BSD1		✓	
	14	14	ESL-061106-07		✓	
	15	15	BF61213-MS1		RR	
	16	16	BF61213-MSD1		✓	
	17	17	solvent			
6/13/06	18	61306 18	TPH50	8100FCL	✓	JW
6/14/06	1	61406 1	TPH50	8100FCL	✓	JW
	2	2	06061504-02		✓	
	3	3	06061504-03		✓	
	4	4	06061139-03		RR	
	5	5	06061106-01MS1		✓ Failed 2nd time running	
	6	6	06061139-02		RR	
	7	7	06061156-04		RR	
	8	8	-05		RR	
	9	9	-08		RR	
	10	10	-01			
	11	11	06061171-03			
	12	12	-02			
	13	13	-01			
	14	14	06061139-01		RR	
6/14/06	15	61406 15	solvent	8100FCL		JW

CONTROL NUMBER 60.0002-0601A PAGE_____

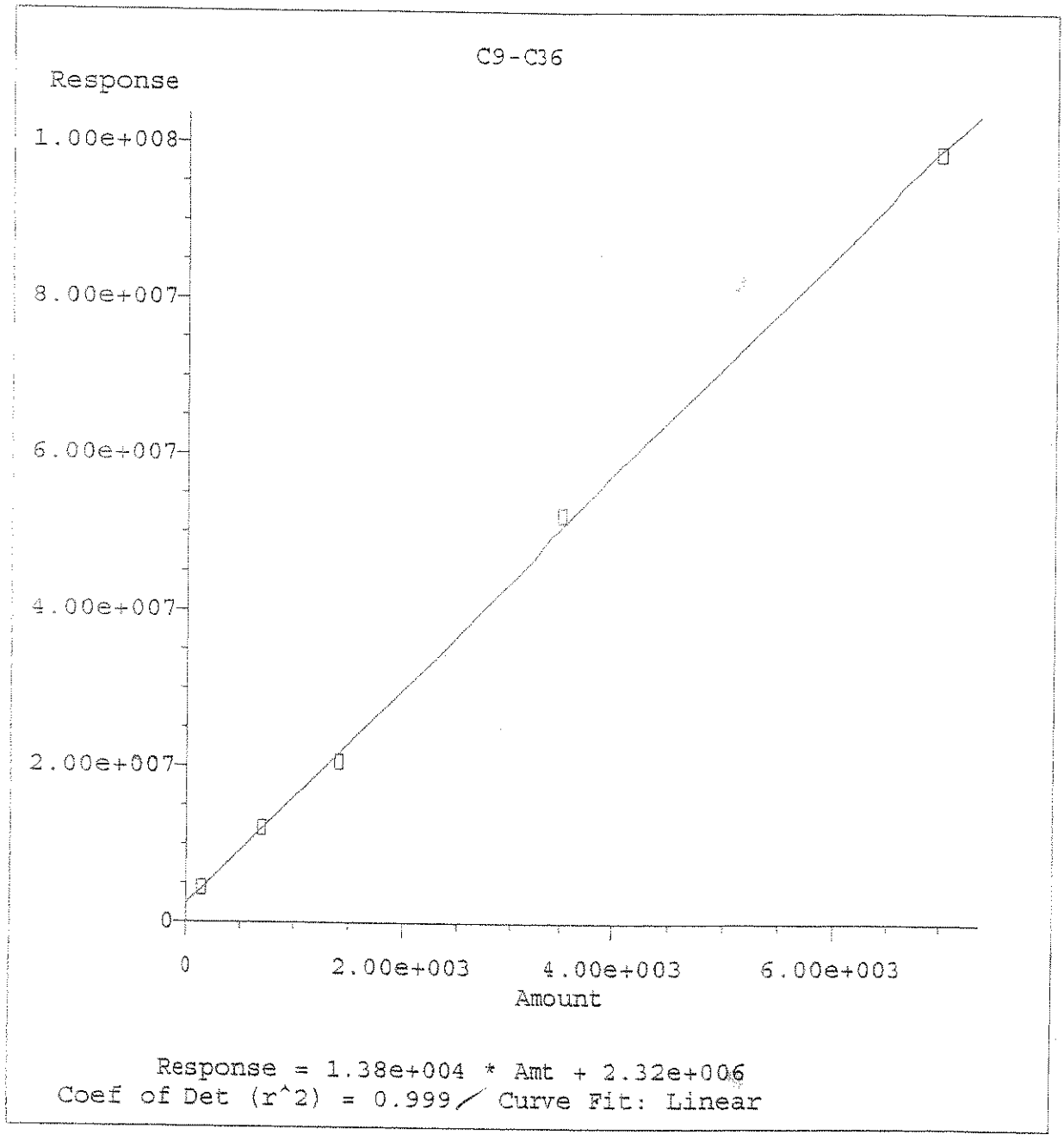
Response Factor Report GC2

Method : Q:\SVOA\TPH_GC2\METHODS\8100FCL.M
Title : ELEMENT ID: 0502008
Last Update : Wed Jun 14 05:27:25 2006
Response via : Initial Calibration

Calibration Files
50 =006F0101.D 10 =005F0101.D 100 =007F0101.D
250 =008F0101.D 500 =009F0101.D

		Compound	50	10	100	250	500	Avg		%RSD
1)	S	O-Terphenyl	16.7	14.3	16.0	17.5	17.2	16.4	E3	7.86
2)	H	C9-C36	17.3	31.3	14.7	14.9	14.1	18.5	E3	39.47 Linear
3)	H	C10-C28	15.9	18.0	14.8	16.1	15.6	16.1	E3	7.18

(#) = Out of Range



Method Name: Q:\SVOA\TPH_GC2\METHODS\8100FCL.M
Calibration Table Last Updated: Wed Jun 14 05:27:25 2006

ANALYSIS SEQUENCE

BPG0268

Instrument: SVOAGC2

Calibration ID: ~~UNASSIGNED~~ 8oo R8C

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0268-CAL1	QC		1		6F15038		
BPG0268-CAL2	QC		2		6F15039		
BPG0268-CAL3	QC		3		6F15040		
BPG0268-CAL4	QC		4		6F15041		
BPG0268-CAL5	QC		5		6F15042		
BPG0268-SCV1	QC		6		6F15043		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC2 Rear RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS/DILUTION/STANDARD ID	ANALYST
6/20/06	57	57	BF61708-BLK1	8100 RRB FEE	✓ RR	JCS
	58	58	-BS1		✓	
	59	59	-BSD1		✓	
	60	60	0606291-01		✓	
	61	61	-01MS1		✓	
	62	62	-01MSD1		RR	
6/20/06	63	63	TPH50	8100 RRB FEE	HIGH	JCS
6/21/06	51	51	TPH50	8100 RRB	✓	
	52	52	BF61708-BLK1			
	53	53	-BS1			
	54	54	-BSD1			
	55	55	0606291-01		Samples ran 2x	
	56	56	-01MS1			
	57	57	-01MSD1			
	58	58	solvent			
	59	59	TPH50			
6/21/06	60	60	TPH50	8100 RRB	HIGH Taking original data	JCS
6/23/06	51	51	TPH50	8100 RRBC	✓	JCS
	52	52	10		✓ 6F15038 CAL1	
	53	53	50		✓ 39 2	
	54	54	100		✓ 40 3	
	55	55	250		✓ 41 4	
	56	56	500		✓ 42 CAL 5	
6/23/06	57	57	TPH 50SS	8100 RBC	✓ 6F150 43 SCV1	JCS
	58	58	BF62309-BLK1			
	59	59	-BS1			
	60	60	-BSD1			
6/23/06	61	61	0606357-05	8100 RBC		JCS

Control Number: 60.0003-0601A PAGE_____

011

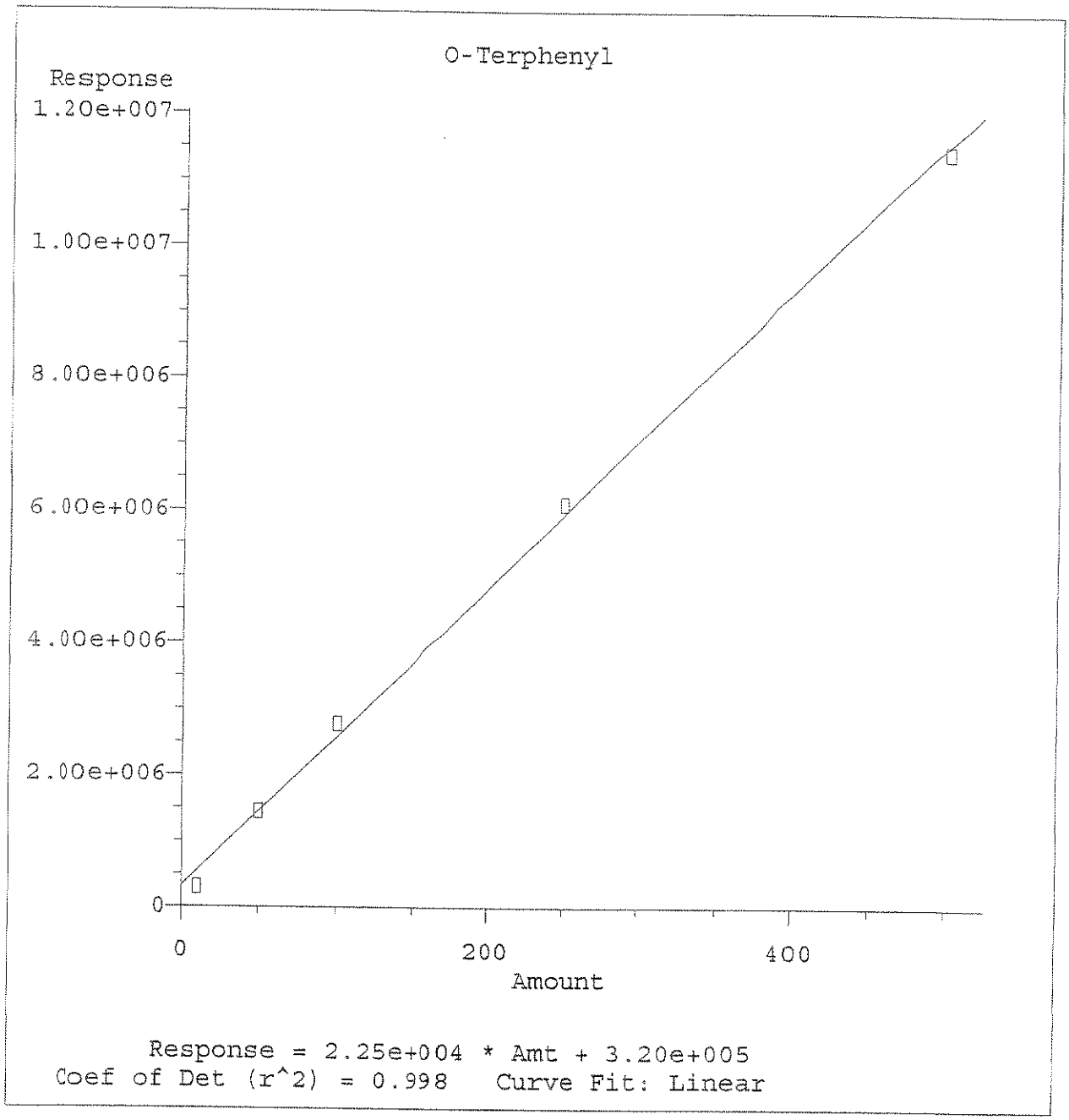
Response Factor Report GC2

Method : Q:\SVOA\TPH_GC2\METHODS\8100RBC.M
Title : ELEMENT ID: 0502007
Last Update : Fri Jun 23 10:51:24 2006
Response via : Initial Calibration

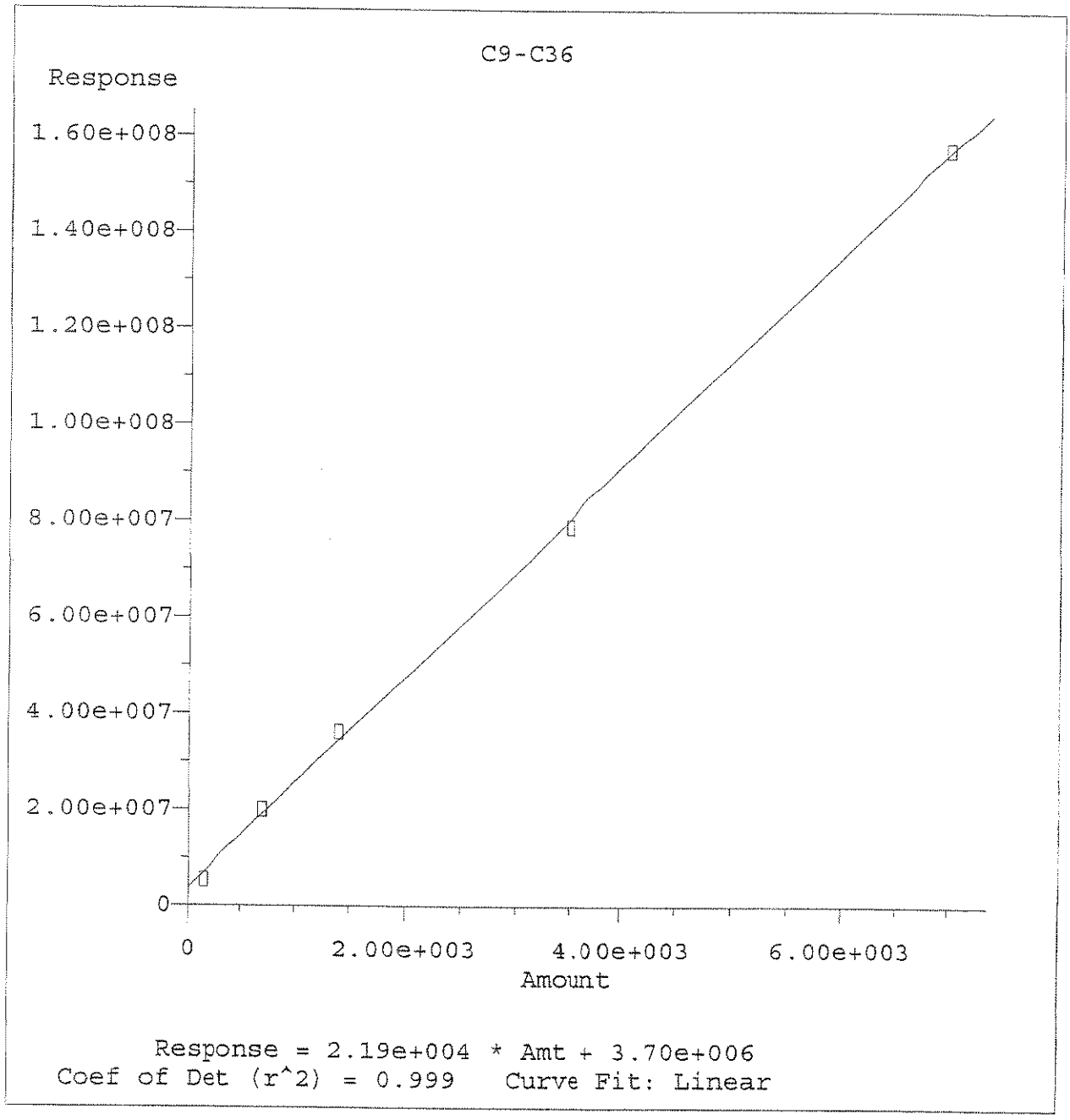
Calibration Files
50 =053R0101.D 10 =052R0101.D 100 =054R0101.D
250 =055R0101.D 500 =056R0101.D

		Compound	50	10	100	250	500	Avg	%RSD	
1)	S	O-Terphenyl	29.0	29.8	27.7	24.4	22.9	26.8 E3	11.17	Linear
2)	H	C9-C36	28.5	38.2	25.8	22.5	22.5	27.5 E3	23.54	↓
3)	H	C10-C28	27.0	30.0	25.6	23.0	23.1	25.7 E3	11.40	↓

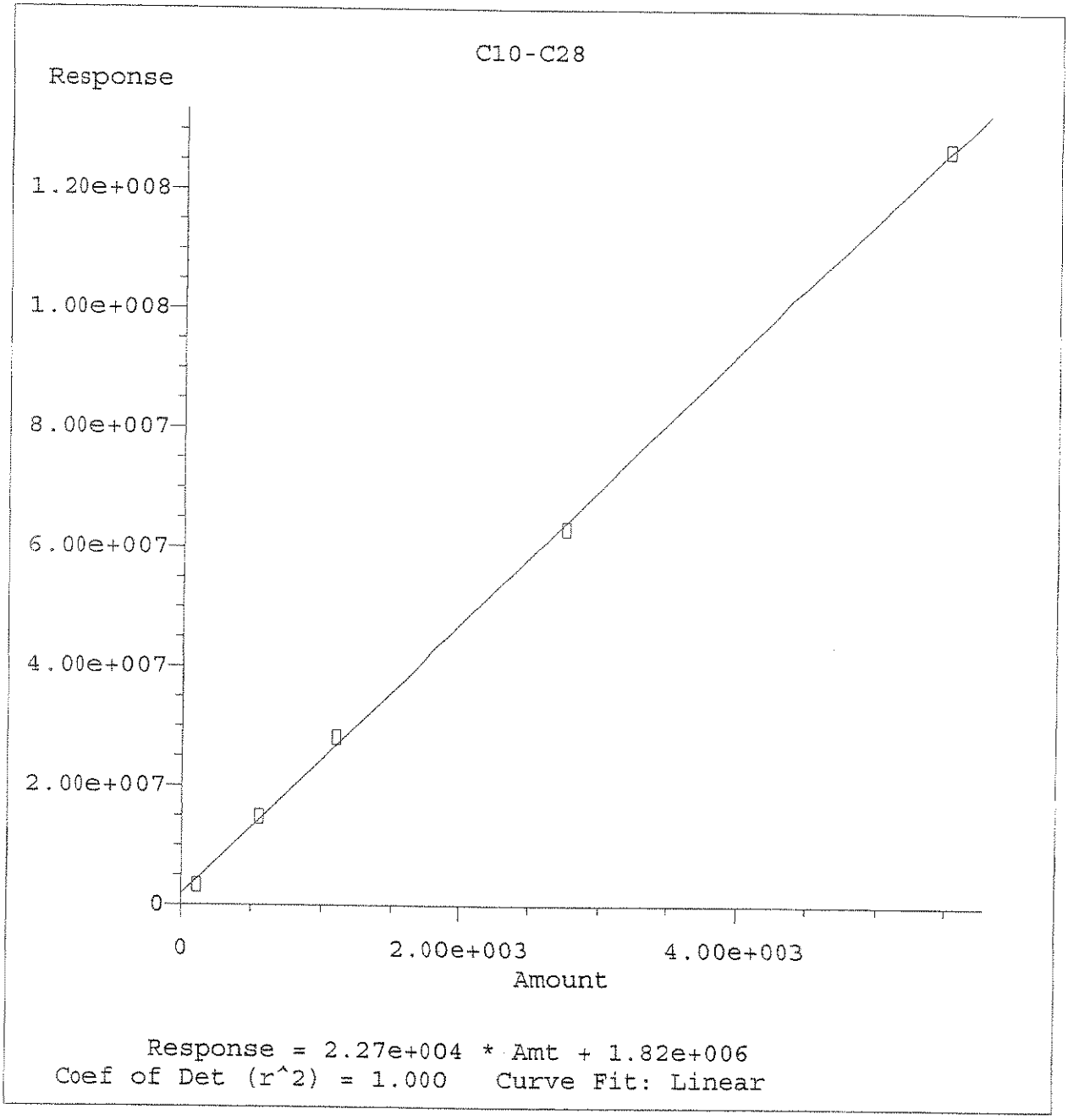
(#) = Out of Range



Method Name: Q:\SVOA\TPH_GC2\METHODS\8100RBC.M
Calibration Table Last Updated: Fri Jun 23 10:51:24 2006



Method Name: Q:\SVOA\TPH_GC2\METHODS\8100RBC.M
Calibration Table Last Updated: Fri Jun 23 10:51:24 2006



Method Name: Q:\SVOA\TPH_GC2\METHODS\8100RBC.M
Calibration Table Last Updated: Fri Jun 23 10:51:24 2006

ANALYSIS SEQUENCE

BPG0292

Instrument: SVOAGC2

Calibnration ID: ~~UNASSIGNED~~ 8100 RBC

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0292-CCV1	QC		1		6F27002		
BF62406-BLK1	QC		2				
BF62406-BS1	QC		3				
BF62406-BSD1	QC		4				
BPG0292-CCV2	QC		5		6F27002		

Samples Loaded By Date Data Processed By Date

ESS LABORATORY
GC2 Rear RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS/DILUTION/STANDARD ID	ANALYST
6/26/04	55	55	0606361-01	8100RBC	✓	JLS
	56	56	0606330-03		Low Curr	
	57	57	-02		✓	
	58	58	Solvent			
6/26/00	59	59	TPH50	8100RBC		JLS
6/26/04	59	59	TPH50	8100RBC	✓ 6F27002	
	60		BF6240L BLK		✓	
	61		-BS1		✓	
	62		-BSD1		✓	
	63		TPH50 0606377-13		✓ RR 6F27002	
	64		0606373 -16			
	65		-16mS			
	66		-16mSD			
	67		-07			
	68		-14			
	69		-15			
	70		-20		RR	
	~~71~~		~~0606377-01~~			
	72		-03			
	73		-05			
	74		-07			
	75		-09			
	76		-11			
	~~77~~		~~-14~~			
	78		Solvent			
	79		TPH50		Low	
	79		TPH52		Low	

Control Number: 60.0003-0601A PAGE_____

013

Quantitation Report

Data File : Q:\SVOA\TPH_GC2\DATA\GC0606\062606\059R0201.D Vial: 59
Acq On : 26 Jun 06 03:40 PM Operator: [GC]A.MS
Sample : TPH50 Inst : GC2
Misc : Multiplr: 1.00
Quant Time: Jun 26 17:10 19106

Method : Q:\SVOA\TPH_GC2\METHODS\8100RBC.M
Title : ELEMENT ID: 0502007
Last Update : Fri Jun 23 10:51:24 2006
Response via : Multiple Level Calibration

Volume Inj. : 1 ul
Signal Phase : RTX-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	O-Terphenyl	13.28	1344783	45.585 ppm
		Recovery =		45.59%
	Target Compounds			
2) H	C9-C36	13.63	20518060	767.380 ppm
3) H	C10-C28	13.63	14219955	545.517 ppm

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : Q:\SVOA\TPH_GC2\DATA\GC0606\062606A\079R0102.D Vial: 79
Acq On : 26 Jun 06 09:34 PM Operator: [GC]TA.MS
Sample : TPH 50 Inst : GC2
Misc : Multiplr: 1.00
Quant Time: Jun 27 5:29 19106

Method : Q:\SVOA\TPH_GC2\METHODS\8100RBC.M
Title : ELEMENT ID: 0502007
Last Update : Fri Jun 23 10:51:24 2006
Response via : Multiple Level Calibration

Volume Inj. : 1 ul
Signal Phase : RTX-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S O-Terphenyl	13.28	1344530	45.573	ppm
		Recovery	=	45.57%	
	Target Compounds				
2)	H C9-C36	13.63	18855849	691.536	ppm
3)	H C10-C28	13.63	13869210	530.089	ppm

(f)=RT Delta > 1/2 Window (m)=manual int.

ANALYSIS SEQUENCE

BPG0310

Instrument: SVOAGC2

Calibnration ID: ~~UNASSIGNED~~ 81WRBC

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0310-CCV1	QC		1		6F27002		
0606374-05	TPH: 8100M TPH/GCFID	A	2				MACTEC Engineering & Consulting, In
0606374-07	TPH: 8100M TPH/GCFID	A	3				MACTEC Engineering & Consulting, In
0606374-15	TPH: 8100M TPH/GCFID	A	4				MACTEC Engineering & Consulting, In
0606374-09	TPH: 8100M TPH/GCFID	A	5				MACTEC Engineering & Consulting, In
0606374-03	TPH: 8100M TPH/GCFID	A	6				MACTEC Engineering & Consulting, In
0606374-01	TPH: 8100M TPH/GCFID	A	7				MACTEC Engineering & Consulting, In
0606374-11	TPH: 8100M TPH/GCFID	A	8				MACTEC Engineering & Consulting, In
BPG0310-CCV2	QC		9		6F27002		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC2 Rear RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS/DILUTION/STANDARD ID	ANALYST
6/28/06	51	62806 51	TPH 50	8100 RBC		JS
	52	52	TPH 50		✓ 6F27002 Sig: BFG1310	
	53	53	0606374-05		✓	
	54	54	-07		✓	
	55	55	-15		✓	
	56	56	-09		✓	
	57	57	-03		✓	
	58	58	-01		✓	
	59	59	0606374 -11		✓	
	60	60	0606373-09		✓	
	61	61	-12		✓ Low surr	
	62	62	-05		✓	
	63	63	-01		✓	
	64	64	0606373 -03		✓	
	65	65	Solvent			
6/28/06	66	62806 66	TPH 50	8100 RBC	✓ 6F27002	JS
6/29/06	51	62906 51	TPH 50	8100 RBC	✓ 6G30081	JS
	52	52	Fuel degradation		X	
	53	53	BF62724-BLK1		RR	
	54	54	-BS1			
	55	55	-BSD1			
	56	56	-BS2		RR	
	57	57	0606383-03		✓	
	58	58	0606383 -01		✓	
	59	59	0606383 -07		✓	
6/29/06	60	60	TPH 50	8100 RBC	✓ 6G30001	JS
6/29/06	61	61	BF62838-BLK1	8100 RBC	~~RR skipped~~ TJS 6/30/06	JS
6/29/06	62	62	-BS1	8100 RBC	✓	JS

Control Number: 60.0003-0601A PAGE_____

Quantitation Report

Data File : Q:\SVOA\TPH_GC2\DATA\GC0606\062806\052R0101.D Vial: 52
Acq On : 28 Jun 06 07:32 AM Operator: [GC]A.MS
Sample : TPH 50 Inst : GC2
Misc : Multiplr: 1.00
Quant Time: Jun 28 8:09 19106

Method : Q:\SVOA\TPH_GC2\METHODS\8100RBC.M
Title : ELEMENT ID: 0502007
Last Update : Fri Jun 23 10:51:24 2006
Response via : Multiple Level Calibration

Volume Inj. : 1 ul
Signal Phase : RTX-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl	13.25	1388413	47.525	ppm
		Recovery =		47.53%	
	Target Compounds				
2) H	C9-C36	13.63	18575793	678.758	ppm
3) H	C10-C28	13.63	14310364	549.494	ppm

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : Q:\SVOA\TPH_GC2\DATA\GC0606\062806\066R0101.D Vial: 66
Acq On : 28 Jun 06 04:25 PM Operator: [GC]A.MS
Sample : TPH50 Inst : GC2
Misc : Multiplr: 1.00
Quant Time: Jun 28 17:45 19106

Method : Q:\SVOA\TPH_GC2\METHODS\8100RBC.M
Title : ELEMENT ID: 0502007
Last Update : Fri Jun 23 10:51:24 2006
Response via : Multiple Level Calibration

Volume Inj. : 1 ul
Signal Phase : RTX-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl	13.24f	1465730	50.964	ppm
		Recovery =		50.96%	
	Target Compounds				
2) H	C9-C36	13.63	22079029	838.605	ppm
3) H	C10-C28	13.63	15574523	605.100	ppm

(f)=RT Delta > 1/2 Window (m)=manual int.

ANALYSIS SEQUENCE

BPG0309

Instrument: SVOAGC2

Calibnration ID: ~~UNASSIGNED~~ 8100 FCC

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0309-CCV1	QC		1		6F27002		
0606374-13	TPH:8100M TPH/GCFID	A	2				MACTEC Engineering & Consulting, In
BPG0309-CCV2	QC		3		6F27002		

Samples Loaded By Date Data Processed By Date

ESS LABORATORY
GC2 Front RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/26/06	21	62606 21	0606324-0.5	8100FCL	✓	JCS
6/26/06	22	62606 22	solvent	8100FCL		JCS
6/26/06	23	62606 23	TPH 50	8100FCL	✓	JCS
6/27/06	1	62706 1	TPH 50	8100FCL	✓ 6F27002 see BP00309	JCS
	2	2	BF62621-BLK1		✓	
	3	3	-BS1		✓	
	4	4	-BSD1		✓	
	5	5	0606317-01		✓	
	6	6	0606374-~~01~~ 13		✓ JCS 6/27/06	
	7	7	0606373-16		✓	
	8	8	-16MS1		✓	
	9	9	-16MSD1		✓	
	10	10	-07		✓	
	11	11	-14		✓	
	12	12	-18		✓	
	13	13	0606373-20		✓	
	14	14	solvent			
6/27/06	15	15	TPH 50 ✓	8100FCL	6F27002	JCS
	16	16	BF62625-BLK1		RR	
	17	17	BF62625-BS1			
	18	18	BF62625-BSD1			
	19	19	0606349-01		RR	
	20	20	-02		RR	
	21	21	-03		RR	
	22	22	-04		RR 20X	
	23	23	-05		RR 10X	
	24	24	0606349-06		RR 20X	
	25	25	BF62625-MS1		RR 20X	
	26	26	0606349-07		RR	
6/27/06	27	62706 27	0606349-08	8100FCL	RR	JCS

CONTROL NUMBER 60.0002-0601A PAGE________

ESS LABORATORY
GC2 Front RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/27/06	28	627006 28	0606349-10	8100FCL	~~RR~~	JCS
	29	29	-11			
	30	30	-12			
	31	31	-13			
	32	32	0606349 -14		~~RR~~	
	33	33	Solvent			
6/27/06	34	627006 34	TPH50	8100FCL		JCS
6/28/06	1	628006 1	TPH50	8100FCL	✓	JCS
	2	2	BF62625-BLK		✓	
	3	3	-BS1		✓	
	4	4	-BSD1		✓	
	5	5	TPH50		✓	
	6	6	0606349-01		✓	
	7	7	-02		✓	
	8	8	-03		✓	
	9	9	-04		x20 ✓ (~~RR~~ 5x) JCS 6/28/06	
	10	10	-05		x10 ✓	
	11	11	0606349 -06		x20 ✓	
	12	12	BF62625-MS1		x20 ✓	
	13	13	0606349-07		✓	
	14	14	-08		✓	
	15	15	-10		✓	
	16	16	-11		✓	
	17	17	-12		✓	
	18	18	-13		✓	
	19	19	0606349 -14		✓	
	20	20	solvent		plunger error	
6/28/06	21	628006 21	TPH50	8100FCL	out of 12 hrs	JCS
~~6/28/06~~ 6/29/06	~~22~~ 1	~~22~~ 1	TPH50 TPH50	8100FCL 8100FCL	✓ 6F30001	JCS JCS
6/29/06	2	2	0606377-02	8100FCL	✓	JCS

CONTROL NUMBER 60.0002-0601A PAGE_____

Quantitation Report

Data File : Q:\SVOA\TPH_GC2\DATA\GC0606\062706\001F0101.D Vial: 1
Acq On : 27 Jun 06 05:18 AM Operator: [GC]A.MS
Sample : TPH 50 Inst : GC2
Misc : Multiplr: 1.00
Quant Time: Jun 27 5:51 19106

Method : Q:\SVOA\TPH_GC2\METHODS\8100FCL.M
Title : ELEMENT ID: 0502008
Last Update : Fri Jul 21 06:41:51 2006
Response via : Multiple Level Calibration

Volume Inj. : 1 ul
Signal Phase : RTX-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S O-Terphenyl	15.29	781738	47.793	ppm
		Recovery	=	47.79%	
	Target Compounds				
2)	H C9-C36	15.17	11534010	665.280	ppm
3)	H C10-C28	15.17	8347634	519.242	ppm

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : Q:\SVOA\TPH_GC2\DATA\GC0606\062706\015F0101.D Vial: 15
Acq On : 27 Jun 06 01:35 PM Operator: [GC]A.MS
Sample : TPH50 Inst : GC2
Misc : Multiplr: 1.00
Quant Time: Jun 27 15:00 19106

Method : Q:\SVOA\TPH_GC2\METHODS\8100FCL.M
Title : ELEMENT ID: 0502008
Last Update : Fri Jul 21 06:41:51 2006
Response via : Multiple Level Calibration

Volume Inj. : 1 ul
Signal Phase : RTX-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl	15.28	914668	55.920	ppm
		Recovery =		55.92%	
	Target Compounds				
2) H	C9-C36	15.17	12840344	759.620	ppm
3) H	C10-C28	15.17	9569964	595.274	ppm

(f)=RT Delta > 1/2 Window (m)=manual int.

TPH
Logbooks

ESS Organic Preparation Logbook

Project #: 0606373, 0606374 Surrogate ID# Matrix Spike ID# Analytical Matrix: Soil

Prep Date: 6/24/06 A 6F06052 D 6C08034 Extraction Time:

Batch ID: TXBF62406 B NA E NA Start: 1300

Extraction Method: 3541 C F Finish:

Split Extraction* ☐

* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.	Analysis Performed
TXBF62406-MB	20.0	1	NA	1	1	NA	6/24/06	40	NA	NA		JMH	✓	JCS	PCB ☐
-BS	20.0	1	1	1	1										B/N SVOA ☐
-BSD	20.0	1	1	1	1										
0606373-01	20.1	1	NA	1	1										SVOA ☐
-03	19.9	1		1	1										
-05	20.5	1		1	1										LL PAH ☐
-07	19.5	1		1	1										
-09	20.9	1		1	1										PEST ☐
-12	19.7	1		1	1										
-14	20.8	1		1	1										TPH GC ☑ 2
-16	20.7	1	NA	1	1										
-16MS	19.8	1	1	1	1										BIS-2 ☐
-16MSD	20.2	1	1	1	1										
-18	19.8	1	NA	1	1										PAH ☐
-20	19.6	1		1	1										
0606374-01	19.5	1		1	1										
-03	19.6	1		1	1										
-05	20.6	1		1	1										
-07	19.5	1		1	1										
-09	19.8	1		1	1										
-11	19.5	1		1	1										
-13	19.7	1		1	1										
-15	20.7	1	NA	1	1	NA	6/24/06	40	NA	NA		JMH	✓	JCS	

Acid Washed: Y / (N) H_2SO_4 ID# NA

Cu Cleaned: Y / (N) Cu ID# NA

Florisiled: Y / (N) Lot# NA

Silica Column/Carbon prep: Y / (N) Lot # NA

CH_2Cl_2 lot # CQ479 NaOH ID# NA

Prepared By: JMH Glasswool: PR10614061F Method #(s): 8100 Hexane lot# NA Na_2SO_4 ID# PR10620061A

**Check off column if entire sample used and bottle discarded.

Acetone lot# NA

CHEMTECH 284 Sheffield Street • Mountainside, NJ 07092 Phone: 908.789.8900 Fax: 908.789.8922

DATA PACKAGE FOR GENERAL CHEMISTRY

PROJECT NAME: RI SITE

ESS LABORATORY, INC.
185 FRANCES AVE
CRANSTON, RI 02910
4014617181

CHEMTECH PROJECT NO.	**X3448**
ATTENTION:	**Jena Paola**

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

COVER PAGE

CHEMTECH
284 Sheffield Street, Mountainside NJ 07092
Tel: 908-789-8900 Fax 908-789-8922

COVER PAGE

ProjectID: RI SITE

OrderID: X3448 **CustomerName:** ESS Laboratory, inc.

LAB SAMPLE NO.	CLIENT SAMPLE NO
X3448-01	0606374-01
X3448-02	0606374-03
X3448-03	0606374-05
X3448-04	0606374-07
X3448-05	0606374-09
X3448-06	0606374-11
X3448-07	0606374-13
X3448-08	0606374-15

I certify that the data package is in compliance with the terms and conditions of the contrac both technically and for completeness, for other than the conditions detailed above. Releas of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature

Signature: Mildred V Reyes Name: Mildred V Reyes

Date: 7/6/06 Title: Lab Mgr

CHEMTECH

QA/QC DELIVERABLES CHECKLIST

Project Number: X3448

THIS FORM HAS BEEN COMPLETED BY CHEMTECH LABORATORY AND ACCOMPANIES ALL DATA DELIVERABLES PACKAGES.

The following laboratory deliverables are included in this analytical report. Any deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non- Conformance Summary.

		Yes	NA
I.	Report Cover Page, Laboratory Certification and Field Sample to Lab Sample ID Cross Reference	✓	
II.	Table of Contents	✓	
III.	Chain of Custody Documents	✓	
IV.	Methodology Summaries	✓	
V.	Laboratory Chronicle and Hold Time Checks	✓	
VI.	Non-Conformance Summary	✓	
VII.	Tabulated Analytical Results	✓	
VIII.	Initial and Continuing Calibration Information	✓	
IX.	Tune and Internal Standard Area Summaries (GC/MS)		✓
X.	Quality Control Summary Reports	✓	
XI.	Surrogate Recovery Summary		✓
XII.	Raw Data Chromatogram, Blank, Samples and QC when applicable	✓	
XIII.	Subcontract Data		✓

Zh. Rohani
QA/QC Data Reviewer

07/06/06
Date

☐ 110 Route 4
Englewood, NJ 07631
Phone: 201.568.7400 Fax: 201.567.3231

☑ 284 Sheffield Street
Mountainside, NJ 07092
Tel 908.789.8900 Fax: 908.789.8922

NYSDOH Certification No. 10624

NYSDOH Certification No. 11376
NJDEP Certification No. 20012

TABLE OF CONTENTS
PROJECT NUMBER: X3348RQ

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

CHAIN OF CUSTODY RECORD

X 31148

ESS Laboratory ChemTech

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 1

Turn Time ___ Standard Other ___
If faster than 5 days, prior approval by laboratory is required # ___
State where samples were collected from:
MA (RI) CT NH NJ NY ME Other ___
Is this project for any of the following:
MA-MCP Navy USACE Other ___

Reporting Limits

ESS LAB PROJECT ID: 0606374

Electronic Deliverable ___ Yes ___ No
Format: Excel ___ Access ___ PDF ___ Other ___

Co. Name	Project #	Project Name (20 Char. or less)
Contact Person: Jena Paola	Address	
City / State / Zip	PO#	
Telephone #	Fax #	Email Address

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis: *	TOC
	6-22-06	11:30		X	S	0606374-01	1	1	G		X
		12:10		X	S	-03	1	1	G		X
769		12:30		X	S	-05	1	1	G		X
		13:15		X	S	-07	1	1	G		X
		14:00		X	S	-09	1	1	G		X
		14:35		X	S	-11	1	1	G		X
		15:30		X	S	-13	1	1	G		X
	6-22-06	15:00		X	S	0606374 -15	1	1	G		X

Container Type: P-Poly (G-Glass) S-Sterile V-VOA | Matrix: (S-Soil) SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ✓ Yes ___ No NA: ___
Cooler Temp: 4°C

Internal Use Only
[ ] Pickup
[ ] Technicians ___

Preservation Code: (1- NP) 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ___

Sampled by: Need results by 6-30-06 at 1300 HR.

Comments: *Decant all Free Liquids Then Analize ASAP % moisture

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
J. Davis	6/23/06 1800			Signature	6/24/06		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
				F&D - ea.	6/24/06 10:45	Special Messa	6/24/06 10:45

*By circling MA-MCP, client acknowledges samples were collected

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

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Laboratory Certification

State	License No.
New Jersey	20012
New York	11376
Arizona	AZ0653
Connecticut	PH-0649
Florida	E87935
Kansas	E-10355
Maryland	296
Massachusetts	M-NJ503
Maine	NJ0503
North Carolina	630
Oklahoma	9705
Pennsylvania	68-548
Rhode Island	LAO00259

QA Control Code: A2070148

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	If the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	If the analyte was analyzed for, but not detected.
E	The reported value is estimated because of the presence of interference
M	Duplicate injection precision not met.
N	Spiked sample recovery not within control limits.
S	The reported value was determined by the Method of Standard Addition (MSA).
W	Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while absorbance is less that 50% of spike absorbance.
*	Duplicate analysis not within control limits.
+	Correlation coefficient for the MSA is less than 0.995.
***	Entering "S", "W " or " +" is mutually exclusive. NO combination of these qualifiers can appear in the same field for an analyte.
D	The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers "P" for ICP instrument "A" for Flame AA "PM" for ICP when Microwave Digestion is used "AM" for flame AA when Microwave Digestion is used "FM" for furnace AA when Microwave Digestion is used "CV" for Manual Cold Vapor AA "AV" for automated Cold Vapor AA "CA" for MIDI-Distillation Spectrophotometric "AS" for Semi -Automated Spectrophotometric "C" for Manual Spectrophotometric "T" for Titrimetric "NR" for analyte not required to be analyzed
OR	**Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.**

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: X3448

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody and on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓

1st Level QA Review Signature: Zh. Rohani Date: 07/06/06

2nd Level QA Review Signature: Mildred Ukeyo Date: 7/6/06

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092
Tel: 908-789-8900

METHODOLOGY REVIEW & LABORATORY CHRONICLE

CHEMTECH

Lab Chronicle

Order ID:	X3448	Order Date:	6/24/2006 11:29:14 AM
Client:	ESS Laboratory, inc.	Project:	RI SITE
Contact:	Jena Paola	Location	P22

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
X3448-01	**0606374-01**	**SOIL**			**06/22/06**			**06/24/06**
			Percent Moisture	Chemtech -SOP		06/29/06	06/29/06	
			TOC	9060		06/27/06	06/27/06	
X3448-02	**0606374-03**	**SOIL**			**06/22/06**			**06/24/06**
			Percent Moisture	Chemtech -SOP		06/29/06	06/29/06	
			TOC	9060		06/27/06	06/27/06	
X3448-03	**0606374-05**	**SOIL**			**06/22/06**			**06/24/06**
			Percent Moisture	Chemtech -SOP		06/29/06	06/29/06	
			TOC	9060		06/27/06	06/27/06	
X3448-04	**0606374-07**	**SOIL**			**06/22/06**			**06/24/06**
			Percent Moisture	Chemtech -SOP		06/29/06	06/29/06	
			TOC	9060		06/27/06	06/27/06	
X3448-05	**0606374-09**	**SOIL**			**06/22/06**			**06/24/06**
			Percent Moisture	Chemtech -SOP		06/29/06	06/29/06	
			TOC	9060		06/27/06	06/27/06	
X3448-06	**0606374-11**	**SOIL**			**06/22/06**			**06/24/06**
			Percent Moisture	Chemtech -SOP		06/29/06	06/29/06	
			TOC	9060		06/27/06	06/27/06	
X3448-07	**0606374-13**	**SOIL**			**06/22/06**			**06/24/06**
			Percent Moisture	Chemtech -SOP		06/29/06	06/29/06	
			TOC	9060		06/27/06	06/27/06	
X3448-08	**0606374-15**	**SOIL**			**06/22/06**			**06/24/06**

Percent Moisture	Chemtech -SOP	06/29/06	06/29/06
TOC	9060	06/27/06	06/27/06

CHEMTECH

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Tel. 908-789-8900

CONFORMANCE/ NON-CONFORMANCE SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092
NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: X3448 MATRIX: Solid

METHOD: 9060

		NA	NO	YES
1.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
2.	Matrix Spikee Duplicate Recoveries Met Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Matrix Spike analysis met criteria for all samples except for TOC.			
3.	Sample Duplicate Analysis Met QC Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
4.	Digestion Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Zh. Rohan
QA REVIEW

07/06/06
Date

TABULATED ANALYTICAL RESULTS
GENEREL CHEMISTRY

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1301
Date Sampled: 06/22/06 11:30
Percent Solids: 80

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-01
Sample Matrix: Soil

Classical Chemistry

Analyte	Results	Units	MRL	Method	Analyst	Analyzed
Total Organic Carbon	2700	mg/kg	320	§	§	06/27/06

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	ESS Laboratory, inc.	**Date Collected:**	6/22/2006
Project:	RI SITE	**Date Received:**	6/24/2006
Client Sample ID:	0606374-01	**SDG No.:**	X3448
Lab Sample ID:	X3448-01	**Matrix:**	SOIL
% Solids:	78.80		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Percent Moisture	21.2		0.00	%	1	6/29/2006	Percent Moisture
TOC	2700		320	mg/Kg	1	6/27/2006	9060 TOC SOLID

Comment

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1401
Date Sampled: 06/22/06 12:10
Percent Solids: 26

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-03
Sample Matrix: Soil

Classical Chemistry

Analyte	Results	Units	MRL	Method	Analyst	Analyzed
Total Organic Carbon	31000	mg/kg	920	§	§	06/27/06

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**ESS Laboratory, inc.**	**Date Collected:**	**6/22/2006**
Project:	**RI SITE**	**Date Received:**	**6/24/2006**
Client Sample ID:	**0606374-03**	**SDG No.:**	**X3448**
Lab Sample ID:	**X3448-02**	**Matrix:**	**SOIL**
% Solids:	**27.10**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Percent Moisture	72.9		0.00	%	1	6/29/2006	Percent Moisture
TOC	31000		920	mg/Kg	1	6/27/2006	9060 TOC SOLID

Comment

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1501
Date Sampled: 06/22/06 12:30
Percent Solids: 81

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-05
Sample Matrix: Soil

Classical Chemistry

Analyte	Results	Units	MRL	Method	Analyst	Analyzed
Total Organic Carbon	**7000**	mg/kg	320	§	§	06/27/06

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	ESS Laboratory, inc.	**Date Collected:**	6/22/2006
Project:	RI SITE	**Date Received:**	6/24/2006
Client Sample ID:	0606374-05	**SDG No.:**	X3448
Lab Sample ID:	X3448-03	**Matrix:**	SOIL
% Solids:	77.80		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Percent Moisture	22.2		0.00	%	1	6/29/2006	Percent Moisture
TOC	7000		320	mg/Kg	1	6/27/2006	9060 TOC SOLID

Comment

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1601
Date Sampled: 06/22/06 13:15
Percent Solids: 14

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-07
Sample Matrix: Soil

Classical Chemistry

Analyte	Results	Units	MRL	Method	Analyst	Analyzed
Total Organic Carbon	**73000**	mg/kg	1700	§	§	06/27/06

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**ESS Laboratory, inc.**	**Date Collected:**	**6/22/2006**
Project:	**RI SITE**	**Date Received:**	**6/24/2006**
Client Sample ID:	**0606374-07**	**SDG No.:**	**X3448**
Lab Sample ID:	**X3448-04**	**Matrix:**	**SOIL**
% Solids:	**14.60**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Percent Moisture	85.4		0.00	%	1	6/29/2006	Percent Moisture
TOC	73000		1700	mg/Kg	1	6/27/2006	9060 TOC SOLID

Comment

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1801
Date Sampled: 06/22/06 14:00
Percent Solids: 13

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-09
Sample Matrix: Soil

Classical Chemistry

Analyte		Results	Units	MRL	Method	Analyst	Analyzed
Total Organic Carbon	>	**115000**	mg/kg	N/A	§	§	06/27/06

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**ESS Laboratory, inc.**	**Date Collected:**	**6/22/2006**
Project:	**RI SITE**	**Date Received:**	**6/24/2006**
Client Sample ID:	**0606374-09**	**SDG No.:**	**X3448**
Lab Sample ID:	**X3448-05**	**Matrix:**	**SOIL**
% Solids:	**13.90**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Percent Moisture	86.1		0.00	%	1	6/29/200(	Percent Moisture
TOC	>115108		0.00	mg/Kg	1	6/27/200(	9060 TOC SOLID

Comment

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1901
Date Sampled: 06/22/06 14:35
Percent Solids: 21

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-11
Sample Matrix: Soil

Classical Chemistry

Analyte		Results	Units	MRL	Method	Analyst	Analyzed
Total Organic Carbon	>	69600	mg/kg	N/A	§	§	06/27/06

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**ESS Laboratory, inc.**	**Date Collected:**	**6/22/2006**
Project:	**RI SITE**	**Date Received:**	**6/24/2006**
Client Sample ID:	**0606374-11**	**SDG No.:**	**X3448**
Lab Sample ID:	**X3448-06**	**Matrix:**	**SOIL**
% Solids:	**23.00**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Percent Moisture	77.0		0.00	%	1	6/29/2006	Percent Moisture
TOC	>69565		0.00	mg/Kg	1	6/27/2006	9060 TOC SOLID

Comment

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2301
Date Sampled: 06/22/06 15:30
Percent Solids: 76

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-13
Sample Matrix: Soil

Classical Chemistry

Analyte	Results	Units	MRL	Method	Analyst	Analyzed
Total Organic Carbon	2800	mg/kg	360	§	§	06/27/06

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	ESS Laboratory, inc.	**Date Collected:**	6/22/2006
Project:	RI SITE	**Date Received:**	6/24/2006
Client Sample ID:	0606374-13	**SDG No.:**	X3448
Lab Sample ID:	X3448-07	**Matrix:**	SOIL
% Solids:	70.40		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Percent Moisture	29.6		0.00	%	1	6/29/2006	Percent Moisture
TOC	2800		360	mg/Kg	1	6/27/2006	9060 TOC SOLID

Comment

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2101
Date Sampled: 06/22/06 15:00
Percent Solids: 73

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-15
Sample Matrix: Soil

Classical Chemistry

Analyte	Results	Units	MRL	Method	Analyst	Analyzed
Total Organic Carbon	**5300**	mg/kg	340	§	§	06/27/06

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	ESS Laboratory, inc.	**Date Collected:**	6/22/2006
Project:	RI SITE	**Date Received:**	6/24/2006
Client Sample ID:	0606374-15	**SDG No.:**	X3448
Lab Sample ID:	X3448-08	**Matrix:**	SOIL
% Solids:	72.80		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Percent Moisture	27.2		0.00	%	1	6/29/2006	Percent Moisture
TOC	5300		340	mg/Kg	1	6/27/2006	9060 TOC SOLID

Comment

QUALITY CONTROL SUMMARY REPORTS GENEREL CHEMISTRY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Method Detection Limits

Client: ESS Laboratory, inc. **SDG No.:** X3448

Project:

Analyte	Units	MDL	RDL
Method: 9060 TOC SOLID	**MDL Date: 1/15/2006**		
Matrix Category: SOLIDS			
TOC	mg/Kg	250.00	250.00
Method: Percent Moisture	**MDL Date: 1/15/2006**		
Matrix Category: SOLIDS			
Percent Moisture	%	0.00	0.00

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Initial and Continuing Calibration Verification

Client: ESS Laboratory, inc. **SDG No.:** X3448

Project:

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
TOC	mg/L	2062.0	2000.0	103.0	80-120	6/2/2006
Sample ID: CCV1						
TOC	mg/L	1919.0	2000.0	95.9	80-120	6/27/2006
Sample ID: CCV2						
TOC	mg/L	1895.0	2000.0	94.8	80-120	6/27/2006

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Initial and Continuing Calibration Blank Summary

Client: ESS Laboratory, inc. **SDG No.:** X3448

Project:

Analyte	Units	Result	Acceptance Limits	Conc Qual	RDL	Analysis Date
Sample ID: ICB1						
TOC	mg/L	< 0.40	+/-0.40	U	0.40	6/2/2006
Sample ID: CCB1						
TOC	mg/L	< 0.40	+/-0.40	U	0.40	6/27/2006
Sample ID: CCB2						
TOC	mg/L	< 0.40	+/-0.40	U	0.40	6/27/2006

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Preparation Blank Summary

Client: ESS Laboratory, inc. **SDG No.:** X3448

Project:

Analyte	Units	Result	Acceptance Limits	Conc Qual	RDL	Analysis Date
Sample ID: MBS						
TOC	mg/Kg	< 250.00	+/-250.00	U	250.00	6/27/2006

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Matrix Spike Summary

Client: ESS Laboratory, inc. **SDG No.:** X3448

Project: **Sample ID:** X3448-08

Client ID: 0606374-15S **Percent Solids for Spike Sample:** 72.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	Dilution Factor	% Rec	Qual	Date Analyzed
TOC	mg/Kg	75-125	11881.9		7210.0		2747.3	1	170.1		6/27/2006

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Duplicate Sample Summary

Client: ESS Laboratory, inc. **SDG No.:** X3448

Project: **Sample ID:** X3448-08

Client ID: 0606374-15D **Percent Solids for Spike Sample:** 72.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	Dilution Factor	RPD/ AD	Qual	Date Analyzed
TOC	mg/Kg	+/-20	7210.00		7210.00		1	0		6/27/2006

CHEMTECH

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Tel . (908) 789-8900 Fax (908) 789-8922

END OF ANALYTICAL RESULTS

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DETERMINATION OF PCDD/PCDF LEVELS

Prepared for:
ESS Laboratory
Attn: Jena Paola
185 Frances Avenue
Cranston, RI 02910-2211

ACCREDITED IN ACCORDANCE WITH nelac

This report contains 18 pages.

The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Project: Chemical Analysis

Client Project Number: 0606374

REPORT OF LABORATORY ANALYSIS

ACCREDITED IN ACCORDANCE WITH nelac

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REPORT OF: CHEMICAL ANALYSES

PROJECT: PCDD/PCDF ANALYSES

DATE: July 11, 2006

ISSUED TO: ESS Laboratory
Attn: Jena Paola
185 Frances Avenue
Cranston, RI 02910-2211

REPORT NO: 06-1034312

INTRODUCTION

This report presents the results from the analyses performed on eight samples submitted by representative of ESS Laboratory. The samples were analyzed for the presence or absence polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version USEPA Method 8290.

SAMPLE IDENTIFICATION

Client ID	Sample Type	Date Received	PACE ID
0606374-01	Solid	06/24/06	1034312001
0606374-03	Solid	06/24/06	1034312002
0606374-05	Solid	06/24/06	1034312003
0606374-07	Solid	06/24/06	1034312004
0606374-09	Solid	06/24/06	1034312005
0606374-11	Solid	06/24/06	1034312006
0606374-13	Solid	06/24/06	1034312007
0606374-15	Solid	06/24/06	1034312008

ESS Laboratory Pace Analytical CHAIN OF CUSTODY

Page ____ of ____ 1034312

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www.esslaboratory.com

Turn Time X Standard Other ____
If faster than 5 days, prior approval by laboratory is required # ____
State where samples were collected from: MA (RI) CT NH NJ NY ME Other ____
Is this project for any of the following: MA-MCP Navy USACE Other ____

Reporting Limits

ESS LAB PROJECT ID: 0606374

Electronic Deliverable ___ Yes ___ No
Format: Excel__ Access__ PDF__ Other ____

Co. Name | Project # | Project Name (20 Char. or less)
Contact Person: Sena Paola | Address
City | State | Zip | PO#
Telephone # | Fax # | Email Address

Write Required Analysis

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Dioxins/Furans	
	6-22-06	11:30				0606374-01	1	1	G	X	001
	↓	12:10				-03	1	1	G	X	002
	↓	12:30				-05	1	1	G	X	003
805	↓	13:15				-07	1	1	G	X	004
	↓	14:00				-09	1	1	G	X	005
	↓	14:35				-11	1	1	G	X	006
	↓	15:30				-13	1	1	G	X	007
	6-22-06	15:00				0606374 -15	1	1	G	X	008

Container Type: P-Poly (G-Glass) S-Sterile V-VOA Matrix: (S-Soil) SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No
Seals Intact ___ Yes ___ No NA: ___
Cooler Temp: 4.8

Internal Use Only
[ ] Pickup
[ ] Technicians ____

Preservation Code: (1- NP), 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ____
Sampled by:
Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
J. Davis	6/23/06 1800	J. Richardson	6/24/06 8:25				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory Pace Analytical CHAIN OF CUSTODY

1034312

Page _____ of _____

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Turn Time 2 Standard Other _____
If faster than 5 days, prior approval by laboratory is required #_____
State where samples were collected from:
MA (RI) CT NH NJ NY ME Other _____
Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 0606374

Electronic Deliverable ___ Yes ___ No
Format: Excel__ Access__ PDF__ Other _____

Co. Name	Project #	Project Name (20 Char. or less)
Contact Person: Sena Paola	Address	
City / State / Zip		PO#
Telephone #	Fax #	Email Address

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis: Dioxins/Furans	
908	6-22-06	11:30				0606374-01	1	1	G	X	001
		12:10				-03	1	1	G	X	002
		12:30				-05	1	1	G	X	003
		13:15				-07	1	1	G	X	004
		14:00				-09	1	1	G	X	005
		14:35				-11	1	1	G	X	006
		15:30				-13	1	1	G	X	007
	6-22-06	15:00				0606374 -15	1	1	G	X	008

Container Type: P-Poly (G-Glass) S-Sterile V-VOA | Matrix: (S-Soil) SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Fillers

Cooler Present ___ Yes ___ No Internal Use Only
Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup
Cooler Temp: 4.8 [ ] Technicians_____

Preservation Code: (1- NP) 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____
Sampled by:
Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	6/23/06 1800	J. Richardson	6/24/06 9:25				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

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Pace Analytical Services, Inc.
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Phone: 612.607.1700
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PROJECT: PCDD/PCDF ANALYSES **DATE:** July 11, 2006

PAGE: 2 **REPORT NO:** 06-1034312

RESULTS

The results are included in the following:

Appendix A – Chain of Custody Documentation
Appendix B – PCDD/PCDF Results

DISCUSSION

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 48-140%. With the exception of one value, which was flagged "P" on the sample results table; the labeled standard recoveries obtained for the samples were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In some cases, interfering substances impacted the determinations of PCDD or PCDF congeners. The affected values were flagged "I" where incorrect isotope ratios were obtained, or "E" where polychlorinated diphenyl ethers were present.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank, with the exception of a trace level of OCDD, to be free of PCDDs and PCDFs at the reporting limits. The OCDD was below the calibration range of the method. Sample levels similar to the corresponding blank level were flagged "B" on the results tables and may be, at least partially, attributed to the background. It should be noted that levels less than ten times the background are not generally considered to be statistically different from the background.

A laboratory spike sample was also prepared with the sample batch using clean sand that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 81-105%. These results indicate a high degree of accuracy for these determinations.

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REPORT OF: CHEMICAL ANALYSES

PROJECT: PCDD/PCDF ANALYSES **DATE:** July 11, 2006

 REPORT NO: 06-1034312

REMARKS

The sample extracts will be retained for a period of 15 days from the date of this report and then discarded unless other arrangements are made. The raw mass spectral data will be archived on magnetic tape for a period of not less than one year. Questions regarding the data contained in this report may be directed to the author at the number provided below.

Pace Analytical Services, Inc.

Scott C. Unze
Project Manager, HRMS
(612) 607-6383

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TABLE 1. 2,3,7,8-TCDD Equivalency Factors (TEFs) for the Polychlorinated Dibenzo-p-dioxins and Dibenzofurans

Number	Compound(s)	TEF
1	2,3,7,8-TCDD	1.00
2	1,2,3,7,8-PeCDD	0.50
3	1,2,3,6,7,8-HxCDD	0.1
4	1,2,3,7,8,9-HxCDD	0.1
5	1,2,3,4,7,8-HxCDD	0.1
6	1,2,3,4,6,7,8-HpCDD	0.01
7	OCDD	0.001
8	* Total - TCDD	0.0
9	* Total - PeCDD	0.0
10	* Total - HxCDD	0.0
11	* Total - HpCDD	0.0
12	2,3,7,8-TCDF	0.10
13	1,2,3,7,8-PeCDF	0.05
14	2,3,4,7,8-PeCDF	0.5
15	1,2,3,6,7,8-HxCDF	0.1
16	1,2,3,7,8,9-HxCDF	0.1
17	1,2,3,4,7,8-HxCDF	0.1
18	2,3,4,6,7,8-HxCDF	0.1
19	1,2,3,4,6,7,8-HpCDF	0.01
20	1,2,3,4,7,8,9-HpCDF	0.01
21	OCDF	0.001
22	* Total - TCDF	0.0
23	* Total - PeCDF	0.0
24	* Total - HxCDF	0.0
25	* Total - HpCDF	0.0

*Excluding the 2,3,7,8-substituted congeners.

Reference: International Toxic Equivalence

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APPENDIX A

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APPENDIX B

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Blank Analysis Results

Client - ESS Laboratory

Lab Sample ID	BLANK-10057	Matrix	Solid
Filename	F60630A_04	Dilution	NA
Total Amount Extracted	10.2 g	Extracted	06/28/2006
ICAL Date	05/31/2006	Analyzed	06/30/2006 11:34
CCal Filename(s)	F60630A_01 & F60630A_13	Injected By	CVS

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.200		2,3,7,8-TCDF-13C	2.00	76
Total TCDF	ND	-----	0.200		2,3,7,8-TCDD-13C	2.00	76
					1,2,3,7,8-PeCDF-13C	2.00	73
2,3,7,8-TCDD	ND	-----	0.200		2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	ND	-----	0.200		1,2,3,7,8-PeCDD-13C	2.00	103
					1,2,3,4,7,8-HxCDF-13C	2.00	75
1,2,3,7,8-PeCDF	ND	-----	0.980		1,2,3,6,7,8-HxCDF-13C	2.00	70
2,3,4,7,8-PeCDF	ND	-----	0.980		2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	ND	-----	0.980		1,2,3,7,8,9-HxCDF-13C	2.00	75
					1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	0.980		1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	-----	0.980		1,2,3,4,6,7,8-HpCDF-13C	2.00	70
					1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	ND	-----	0.980		1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	ND	-----	0.980		OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	ND	-----	0.980				
1,2,3,7,8,9-HxCDF	ND	-----	0.980		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.980		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.980		2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	-----	0.980				
1,2,3,7,8,9-HxCDD	ND	-----	0.980				
Total HxCDD	ND	-----	0.980				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.980		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.980		Equivalence: 0.0056 ng/Kg		
Total HpCDF	ND	-----	0.980		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.980				
Total HpCDD	ND	-----	0.980				
OCDF	ND	-----	2.000				
OCDD	5.6	-----	2.000	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LRL = Lower Reporting Limit
J = Concentration detected is below the calibration range
P = Recovery outside of target range
A = Detection Limit based on signal-to-noise measurement

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1301
Date Sampled: 06/22/06 11:30

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-01
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

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Minneapolis, MN 554
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Fax: 612- 607-64

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606374-01		
Lab Sample ID	1034312001		
Filename	U60701A_13		
Injected By	BAL		
Total Amount Extracted	16.1 g	Matrix	Solid
% Moisture	17.7	Dilution	NA
Dry Weight Extracted	13.2 g	Collected	06/22/2006
ICAL Date	07/01/2006	Received	06/24/2006
CCal Filename(s)	U60701A_09 & U60701A_23	Extracted	06/28/2006
Method Blank ID	BLANK-10057	Analyzed	07/01/2006 23:51

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.19	-----	0.15	J	2,3,7,8-TCDF-13C	2.00	87
Total TCDF	3.10	-----	0.15		2,3,7,8-TCDD-13C	2.00	73
					1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	-----	0.15		2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	ND	-----	0.15		1,2,3,7,8-PeCDD-13C	2.00	92
					1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	ND	-----	0.76		1,2,3,6,7,8-HxCDF-13C	2.00	81
2,3,4,7,8-PeCDF	0.86	-----	0.76	J	2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	7.40	-----	0.76		1,2,3,7,8,9-HxCDF-13C	2.00	81
					1,2,3,4,7,8-HxCDD-13C	2.00	83
1,2,3,7,8-PeCDD	ND	-----	0.76		1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	ND	-----	0.76		1,2,3,4,6,7,8-HpCDF-13C	2.00	77
					1,2,3,4,7,8,9-HpCDF-13C	2.00	71
1,2,3,4,7,8-HxCDF	ND	-----	0.76		1,2,3,4,6,7,8-HpCDD-13C	2.00	88
1,2,3,6,7,8-HxCDF	ND	-----	0.76		OCDD-13C	4.00	83
2,3,4,6,7,8-HxCDF	ND	-----	0.76				
1,2,3,7,8,9-HxCDF	ND	-----	0.76		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	3.00	-----	0.76	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.76		2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	ND	-----	0.76				
1,2,3,7,8,9-HxCDD	ND	-----	0.76				
Total HxCDD	ND	-----	0.76				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.76		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.76		Equivalence: 0.49 ng/Kg		
Total HpCDF	1.10	-----	0.76	J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	2.20	-----	0.76	J			
Total HpCDD	3.90	-----	0.76				
OCDF	1.60	-----	1.50	J			
OCDD	16.00	-----	1.50	B			

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1401
Date Sampled: 06/22/06 12:10

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-03
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606374-03		
Lab Sample ID	1034312002		
Filename	U60701A_17		
Injected By	BAL		
Total Amount Extracted	20.6 g	Matrix	Solid
% Moisture	71.7	Dilution	NA
Dry Weight Extracted	5.81 g	Collected	06/22/2006
ICAL Date	07/01/2006	Received	06/24/2006
CCal Filename(s)	U60701A_09 & U60701A_23	Extracted	06/28/2006
Method Blank ID	BLANK-10057	Analyzed	07/02/2006 03:07

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	7.6	-----	0.70	A	2,3,7,8-TCDF-13C	2.00	94
Total TCDF	420.0	-----	0.34		2,3,7,8-TCDD-13C	2.00	88
					1,2,3,7,8-PeCDF-13C	2.00	86
2,3,7,8-TCDD	1.4	-----	0.57	JA	2,3,4,7,8-PeCDF-13C	2.00	87
Total TCDD	29.0	-----	0.34		1,2,3,7,8-PeCDD-13C	2.00	100
					1,2,3,4,7,8-HxCDF-13C	2.00	113
1,2,3,7,8-PeCDF	8.4	-----	2.50	JA	1,2,3,6,7,8-HxCDF-13C	2.00	94
2,3,4,7,8-PeCDF	150.0	-----	2.00	A	2,3,4,6,7,8-HxCDF-13C	2.00	87
Total PeCDF	1300.0	-----	1.70		1,2,3,7,8,9-HxCDF-13C	2.00	92
					1,2,3,4,7,8-HxCDD-13C	2.00	121
1,2,3,7,8-PeCDD	4.8	-----	1.70	J	1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	47.0	-----	1.70		1,2,3,4,6,7,8-HpCDF-13C	2.00	83
					1,2,3,4,7,8,9-HpCDF-13C	2.00	84
1,2,3,4,7,8-HxCDF	-----	33	1.70	E	1,2,3,4,6,7,8-HpCDD-13C	2.00	103
1,2,3,6,7,8-HxCDF	26.0	-----	1.70		OCDD-13C	4.00	102
2,3,4,6,7,8-HxCDF	51.0	-----	1.70				
1,2,3,7,8,9-HxCDF	8.4	-----	1.70	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	510.0	-----	1.70		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	3.3	-----	1.70	J	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	6.8	-----	1.70	J			
1,2,3,7,8,9-HxCDD	3.4	-----	1.70	J			
Total HxCDD	87.0	-----	1.70				
1,2,3,4,6,7,8-HpCDF	37.0	-----	1.70		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	4.4	-----	1.70	J	Equivalence: 92 ng/Kg		
Total HpCDF	89.0	-----	1.70		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	71.0	-----	1.70				
Total HpCDD	140.0	-----	1.70				
OCDF	36.0	-----	3.40				
OCDD	470.0	-----	3.40				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1501
Date Sampled: 06/22/06 12:30

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-05
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606374-05		
Lab Sample ID	1034312003		
Filename	U60701A_14		
Injected By	BAL		
Total Amount Extracted	16.2 g	Matrix	Solid
% Moisture	23.3	Dilution	NA
Dry Weight Extracted	12.4 g	Collected	06/22/2006
ICAL Date	07/01/2006	Received	06/24/2006
CCal Filename(s)	U60701A_09 & U60701A_23	Extracted	06/28/2006
Method Blank ID	BLANK-10057	Analyzed	07/02/2006 00:40

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.16		2,3,7,8-TCDF-13C	2.00	91
Total TCDF	1.3	-----	0.16		2,3,7,8-TCDD-13C	2.00	84
					1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	-----	0.16		2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD	ND	-----	0.16		1,2,3,7,8-PeCDD-13C	2.00	96
					1,2,3,4,7,8-HxCDF-13C	2.00	90
1,2,3,7,8-PeCDF	ND	-----	0.80		1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	ND	-----	0.80		2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	3.1	-----	0.80	J	1,2,3,7,8,9-HxCDF-13C	2.00	87
					1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	-----	0.80		1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	-----	0.80		1,2,3,4,6,7,8-HpCDF-13C	2.00	80
					1,2,3,4,7,8,9-HpCDF-13C	2.00	81
1,2,3,4,7,8-HxCDF	ND	-----	0.80		1,2,3,4,6,7,8-HpCDD-13C	2.00	96
1,2,3,6,7,8-HxCDF	ND	-----	0.80		OCDD-13C	4.00	92
2,3,4,6,7,8-HxCDF	ND	-----	0.80				
1,2,3,7,8,9-HxCDF	ND	-----	0.80		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1.1	-----	0.80	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.80		2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	ND	-----	0.80				
1,2,3,7,8,9-HxCDD	ND	-----	0.80				
Total HxCDD	ND	-----	0.80				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.80		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.80		Equivalence: 0.0044 ng/Kg		
Total HpCDF	ND	-----	0.80		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.80				
Total HpCDD	ND	-----	0.80				
OCDF	ND	-----	1.60				
OCDD	4.4	-----	1.60	BJ			

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1601
Date Sampled: 06/22/06 13:15

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-07
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/
Dioxin	See Attached								

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606374-07		
Lab Sample ID	1034312004		
Filename	U60701A_20		
Injected By	BAL		
Total Amount Extracted	20.4 g	Matrix	Solid
% Moisture	85.6	Dilution	NA
Dry Weight Extracted	2.95 g	Collected	06/22/2006
ICAL Date	07/01/2006	Received	06/24/2006
CCal Filename(s)	U60701A_09 & U60701A_23	Extracted	06/28/2006
Method Blank ID	BLANK-10057	Analyzed	07/02/2006 05:34

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	82	-----	20.0	A	2,3,7,8-TCDF-13C	2.00	102
Total TCDF	6900	-----	0.68		2,3,7,8-TCDD-13C	2.00	91
					1,2,3,7,8-PeCDF-13C	2.00	71
2,3,7,8-TCDD	16	-----	1.7	A	2,3,4,7,8-PeCDF-13C	2.00	71
Total TCDD	380	-----	0.68		1,2,3,7,8-PeCDD-13C	2.00	76
					1,2,3,4,7,8-HxCDF-13C	2.00	130
1,2,3,7,8-PeCDF	-----	3500	17.0	EA	1,2,3,6,7,8-HxCDF-13C	2.00	102
2,3,4,7,8-PeCDF	2800	-----	9.0	A	2,3,4,6,7,8-HxCDF-13C	2.00	95
Total PeCDF	7300	-----	3.4		1,2,3,7,8,9-HxCDF-13C	2.00	96
					1,2,3,4,7,8-HxCDD-13C	2.00	118
1,2,3,7,8-PeCDD	56	-----	3.4		1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	1000	-----	3.4		1,2,3,4,6,7,8-HpCDF-13C	2.00	72
					1,2,3,4,7,8,9-HpCDF-13C	2.00	68
1,2,3,4,7,8-HxCDF	330	-----	11.0	A	1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	570	-----	9.5	A	OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	400	-----	5.2	A			
1,2,3,7,8,9-HxCDF	190	-----	5.6	A	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	16000	-----	3.4		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	41	-----	3.4		2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	120	-----	4.1	A			
1,2,3,7,8,9-HxCDD	56	-----	3.4				
Total HxCDD	1400	-----	3.4				
1,2,3,4,6,7,8-HpCDF	570	-----	5.8	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	92	-----	8.7	A	Equivalence: 1600 ng/Kg		
Total HpCDF	1400	-----	3.4		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	480	-----	3.4				
Total HpCDD	970	-----	3.4				
OCDF	250	-----	6.8				
OCDD	2300	-----	6.8				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1801
Date Sampled: 06/22/06 14:00

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-09
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

Pace Analytical™
Pace Analytical Services, Inc
1700 Elm Street - Suite 20
Minneapolis, MN 5541
Tel: 612-607-170
Fax: 612- 607-644

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606374-09		
Lab Sample ID	1034312005		
Filename	U60701A_19		
Injected By	BAL		
Total Amount Extracted	20.4 g	Matrix	Solid
% Moisture	84.9	Dilution	NA
Dry Weight Extracted	3.09 g	Collected	06/22/2006
ICAL Date	07/01/2006	Received	06/24/2006
CCal Filename(s)	U60701A_09 & U60701A_23	Extracted	06/28/2006
Method Blank ID	BLANK-10057	Analyzed	07/02/2006 04:45

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	120	-----	16.0	A	2,3,7,8-TCDF-13C	2.00	101	
Total TCDF	12000	-----	0.65		2,3,7,8-TCDD-13C	2.00	83	
					1,2,3,7,8-PeCDF-13C	2.00	71	
2,3,7,8-TCDD	30	-----	2.5	A	2,3,4,7,8-PeCDF-13C	2.00	69	
Total TCDD	800	-----	0.65		1,2,3,7,8-PeCDD-13C	2.00	74	
					1,2,3,4,7,8-HxCDF-13C	2.00	140	P
1,2,3,7,8-PeCDF	-----	18000	32.0	EA	1,2,3,6,7,8-HxCDF-13C	2.00	105	
2,3,4,7,8-PeCDF	6200	-----	12.0	A	2,3,4,6,7,8-HxCDF-13C	2.00	94	
Total PeCDF	9600	-----	3.2		1,2,3,7,8,9-HxCDF-13C	2.00	96	
					1,2,3,4,7,8-HxCDD-13C	2.00	116	
1,2,3,7,8-PeCDD	98	-----	6.1	A	1,2,3,6,7,8-HxCDD-13C	2.00	82	
Total PeCDD	2000	-----	3.2		1,2,3,4,6,7,8-HpCDF-13C	2.00	71	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	66	
1,2,3,4,7,8-HxCDF	670	-----	3.2		1,2,3,4,6,7,8-HpCDD-13C	2.00	81	
1,2,3,6,7,8-HxCDF	1300	-----	14.0	A	OCDD-13C	4.00	63	
2,3,4,6,7,8-HxCDF	910	-----	11.0	A				
1,2,3,7,8,9-HxCDF	390	-----	8.0	A	1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	23000	-----	3.2		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	74	-----	3.8	A	2,3,7,8-TCDD-37Cl4	0.20	82	
1,2,3,6,7,8-HxCDD	190	-----	5.7	A				
1,2,3,7,8,9-HxCDD	97	-----	3.6	A				
Total HxCDD	2600	-----	3.2					
1,2,3,4,6,7,8-HpCDF	1000	-----	7.2	A	Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	170	-----	13.0	A	Equivalence: 3600 ng/Kg			
Total HpCDF	2800	-----	3.2		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	640	-----	3.3	A				
Total HpCDD	1300	-----	3.2					
OCDF	300	-----	6.5					
OCDD	2700	-----	6.5					

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED1901
Date Sampled: 06/22/06 14:35

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-11
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606374-11		
Lab Sample ID	1034312006		
Filename	U60701A_18		
Injected By	BAL		
Total Amount Extracted	16.3 g	Matrix	Solid
% Moisture	77.7	Dilution	NA
Dry Weight Extracted	3.65 g	Collected	06/22/2006
ICAL Date	07/01/2006	Received	06/24/2006
CCal Filename(s)	U60701A_09 & U60701A_23	Extracted	06/28/2006
Method Blank ID	BLANK-10057	Analyzed	07/02/2006 03:56

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	58	-----	5.5	A	2,3,7,8-TCDF-13C	2.00	95
Total TCDF	6500	-----	0.55		2,3,7,8-TCDD-13C	2.00	89
					1,2,3,7,8-PeCDF-13C	2.00	72
2,3,7,8-TCDD	21	-----	2.2	A	2,3,4,7,8-PeCDF-13C	2.00	70
Total TCDD	510	-----	0.55		1,2,3,7,8-PeCDD-13C	2.00	80
					1,2,3,4,7,8-HxCDF-13C	2.00	118
1,2,3,7,8-PeCDF	-----	2000	42.0	EA	1,2,3,6,7,8-HxCDF-13C	2.00	96
2,3,4,7,8-PeCDF	3500	-----	14.0	A	2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	8800	-----	2.7		1,2,3,7,8,9-HxCDF-13C	2.00	90
					1,2,3,4,7,8-HxCDD-13C	2.00	108
1,2,3,7,8-PeCDD	69	-----	5.0	A	1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	1400	-----	2.7		1,2,3,4,6,7,8-HpCDF-13C	2.00	74
					1,2,3,4,7,8,9-HpCDF-13C	2.00	66
1,2,3,4,7,8-HxCDF	390	-----	8.4	A	1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	620	-----	20.0	A	OCDD-13C	4.00	65
2,3,4,6,7,8-HxCDF	540	-----	9.1	A			
1,2,3,7,8,9-HxCDF	250	-----	8.7	A	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	12000	-----	2.7		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	51	-----	2.7		2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	120	-----	3.1	A			
1,2,3,7,8,9-HxCDD	59	-----	2.7				
Total HxCDD	1600	-----	2.7				
1,2,3,4,6,7,8-HpCDF	510	-----	4.5	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	110	-----	7.1	A	Equivalence: 2000 ng/Kg		
Total HpCDF	1400	-----	2.7		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	270	-----	2.7				
Total HpCDD	580	-----	2.7				
OCDF	100	-----	5.5				
OCDD	930	-----	5.5				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2301
Date Sampled: 06/22/06 15:30

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-13
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606374-13		
Lab Sample ID	1034312007		
Filename	U60701A_15		
Injected By	BAL		
Total Amount Extracted	19.1 g	Matrix	Solid
% Moisture	23.3	Dilution	NA
Dry Weight Extracted	14.7 g	Collected	06/22/2006
ICAL Date	07/01/2006	Received	06/24/2006
CCal Filename(s)	U60701A_09 & U60701A_23	Extracted	06/28/2006
Method Blank ID	BLANK-10057	Analyzed	07/02/2006 01:29

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.14		2,3,7,8-TCDF-13C	2.00	83
Total TCDF	1.2	-----	0.14		2,3,7,8-TCDD-13C	2.00	77
					1,2,3,7,8-PeCDF-13C	2.00	73
2,3,7,8-TCDD	ND	-----	0.14		2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	ND	-----	0.14		1,2,3,7,8-PeCDD-13C	2.00	89
					1,2,3,4,7,8-HxCDF-13C	2.00	88
1,2,3,7,8-PeCDF	ND	-----	0.68		1,2,3,6,7,8-HxCDF-13C	2.00	81
2,3,4,7,8-PeCDF	ND	-----	0.68		2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	4.4	-----	0.68		1,2,3,7,8,9-HxCDF-13C	2.00	84
					1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	-----	0.68		1,2,3,6,7,8-HxCDD-13C	2.00	75
Total PeCDD	ND	-----	0.68		1,2,3,4,6,7,8-HpCDF-13C	2.00	80
					1,2,3,4,7,8,9-HpCDF-13C	2.00	77
1,2,3,4,7,8-HxCDF	ND	-----	0.68		1,2,3,4,6,7,8-HpCDD-13C	2.00	91
1,2,3,6,7,8-HxCDF	ND	-----	0.68		OCDD-13C	4.00	88
2,3,4,6,7,8-HxCDF	ND	-----	0.68				
1,2,3,7,8,9-HxCDF	ND	-----	0.68		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1.7	-----	0.68	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.68		2,3,7,8-TCDD-37Cl4	0.20	74
1,2,3,6,7,8-HxCDD	ND	-----	0.68				
1,2,3,7,8,9-HxCDD	ND	-----	0.68				
Total HxCDD	ND	-----	0.68				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.68		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.68		Equivalence: 0.0035 ng/Kg		
Total HpCDF	ND	-----	0.68		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.68				
Total HpCDD	ND	-----	0.68				
OCDF	ND	-----	1.40				
OCDD	3.5	-----	1.40	BJ			

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2101
Date Sampled: 06/22/06 15:00

ESS Laboratory Work Order: 0606374
ESS Laboratory Sample ID: 0606374-15
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606374-15		
Lab Sample ID	1034312008		
Filename	U60701A_16		
Injected By	BAL		
Total Amount Extracted	15.3 g	Matrix	Solid
% Moisture	22.4	Dilution	NA
Dry Weight Extracted	11.9 g	Collected	06/22/2006
ICAL Date	07/01/2006	Received	06/24/2006
CCal Filename(s)	U60701A_09 & U60701A_23	Extracted	06/28/2006
Method Blank ID	BLANK-10057	Analyzed	07/02/2006 02:18

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	1.80	0.17	E	2,3,7,8-TCDF-13C	2.00	56
Total TCDF	140.00	-----	0.17		2,3,7,8-TCDD-13C	2.00	54
					1,2,3,7,8-PeCDF-13C	2.00	50
2,3,7,8-TCDD	-----	0.18	0.17	I	2,3,4,7,8-PeCDF-13C	2.00	53
Total TCDD	3.60	-----	0.17		1,2,3,7,8-PeCDD-13C	2.00	60
					1,2,3,4,7,8-HxCDF-13C	2.00	62
1,2,3,7,8-PeCDF	2.30	-----	1.10	JA	1,2,3,6,7,8-HxCDF-13C	2.00	53
2,3,4,7,8-PeCDF	44.00	-----	0.84		2,3,4,6,7,8-HxCDF-13C	2.00	56
Total PeCDF	460.00	-----	0.84		1,2,3,7,8,9-HxCDF-13C	2.00	59
					1,2,3,4,7,8-HxCDD-13C	2.00	60
1,2,3,7,8-PeCDD	0.95	-----	0.84	J	1,2,3,6,7,8-HxCDD-13C	2.00	48
Total PeCDD	8.10	-----	0.84		1,2,3,4,6,7,8-HpCDF-13C	2.00	53
					1,2,3,4,7,8,9-HpCDF-13C	2.00	53
1,2,3,4,7,8-HxCDF	3.40	-----	0.84	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	62
1,2,3,6,7,8-HxCDF	7.30	-----	0.84		OCDD-13C	4.00	59
2,3,4,6,7,8-HxCDF	16.00	-----	0.84				
1,2,3,7,8,9-HxCDF	2.40	-----	0.84	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	200.00	-----	0.84		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.84		2,3,7,8-TCDD-37Cl4	0.20	37
1,2,3,6,7,8-HxCDD	1.30	-----	0.84	J			
1,2,3,7,8,9-HxCDD	ND	-----	0.84				
Total HxCDD	13.00	-----	0.84				
1,2,3,4,6,7,8-HpCDF	6.50	-----	0.84		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	1.20	-----	0.84	J	Equivalence: 26 ng/Kg		
Total HpCDF	17.00	-----	0.84		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	4.50	-----	0.84				
Total HpCDD	8.80	-----	0.84				
OCDF	2.20	-----	1.70	J			
OCDD	25.00	-----	1.70	B			

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Pace Analytical™

Method 8290 Laboratory Control Spike Results

Client - ESS Laboratory

Lab Sample ID	LCS-10058		
Filename	F60630A_02	Matrix	Solid
Total Amount Extracted	10.0 g	Dilution	NA
ICAL Date	05/31/2006	Extracted	06/28/2006
CCal Filename(s)	F60630A_01 & F60630A_13	Analyzed	06/30/2006 09:54
Method Blank ID	BLANK-10057	Injected By	CVS

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.17	86	2,3,7,8-TCDF-13C	2.00	70
				2,3,7,8-TCDD-13C	2.00	69
				1,2,3,7,8-PeCDF-13C	2.00	65
2,3,7,8-TCDD	0.20	0.18	90	2,3,4,7,8-PeCDF-13C	2.00	71
				1,2,3,7,8-PeCDD-13C	2.00	96
				1,2,3,4,7,8-HxCDF-13C	2.00	78
1,2,3,7,8-PeCDF	1.00	0.99	99	1,2,3,6,7,8-HxCDF-13C	2.00	73
2,3,4,7,8-PeCDF	1.00	0.91	91	2,3,4,6,7,8-HxCDF-13C	2.00	79
				1,2,3,7,8,9-HxCDF-13C	2.00	76
				1,2,3,4,7,8-HxCDD-13C	2.00	83
1,2,3,7,8-PeCDD	1.00	0.81	81	1,2,3,6,7,8-HxCDD-13C	2.00	76
				1,2,3,4,6,7,8-HpCDF-13C	2.00	72
				1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,7,8-HxCDF	1.00	0.87	87	1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	1.00	0.91	91	OCDD-13C	4.00	62
2,3,4,6,7,8-HxCDF	1.00	0.92	92			
1,2,3,7,8,9-HxCDF	1.00	0.91	91	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	0.96	96	2,3,7,8-TCDD-37Cl4	0.20	68
1,2,3,6,7,8-HxCDD	1.00	1.00	100			
1,2,3,7,8,9-HxCDD	1.00	1.01	101			
1,2,3,4,6,7,8-HpCDF	1.00	1.00	100			
1,2,3,4,7,8,9-HpCDF	1.00	1.05	105			
1,2,3,4,6,7,8-HpCDD	1.00	0.84	84			
OCDF	2.00	1.71	86			
OCDD	2.00	1.77	88			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range
X = Background subtracted value
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

Sample and Cooler Receipt Checklist

Client: Mactec
Client Project ID: _____
Shipped/Delivered Via: Client

ESS Project ID: 06060374
Date Project Due: 6/29/06
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: 3.5		16. Are ESS labels on correct containers?	(Yes) No
Iced With: Icepacks		17. Were samples received intact?	(Yes) No
6. Was COC included with samples?	Yes	ESS Sample IDs:	01,03,05,07,09,11,13
7. Was COC signed and dated by client?	Yes	Sub Lab:	Pace ChemTech
8. Does the COC match the sample	Yes	Analysis:	Dioxin TOC
9. Is COC complete and correct?	Yes	TAT:	Std

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
1	Yes	40 ml - VOA	1	MeOH
1	Yes	40 ml - VOA	2	other
1	Yes	8 oz Soil Jar	3	NP
2	Yes	40 ml - VOA	1	MeOH
2	Yes	40 ml - VOA	2	other
2	Yes	8 oz Soil Jar	2	NP
3	Yes	4 oz Soil Jar	1	NP
3	Yes	40 ml - VOA	1	MeOH
3	Yes	40 ml - VOA	2	other
3	Yes	8 oz Soil Jar	3	NP
4	Yes	40 ml - VOA	1	MeOH
4	Yes	40 ml - VOA	2	other
4	Yes	8 oz Soil Jar	2	NP
5	Yes	4 oz Soil Jar	1	NP
5	Yes	40 ml - VOA	1	MeOH
5	Yes	40 ml - VOA	2	other
5	Yes	8 oz Soil Jar	3	NP
6	Yes	40 ml - VOA	1	MeOH
6	Yes	40 ml - VOA	2	other
6	Yes	8 oz Soil Jar	2	NP
7	Yes	4 oz Soil Jar	1	NP
7	Yes	40 ml - VOA	1	MeOH
7	Yes	40 ml - VOA	2	other
7	Yes	8 oz Soil Jar	3	NP

Sample and Cooler Receipt Checklist

Client: Mactec ESS Project ID: 06060374

8	Yes	40 ml - VOA	1	MeOH
8	Yes	40 ml - VOA	2	other
8	Yes	8 oz Soil Jar	2	NP
9	Yes	4 oz Soil Jar	1	NP
9	Yes	40 ml - VOA	1	MeOH
9	Yes	40 ml - VOA	2	other
9	Yes	8 oz Soil Jar	3	NP
10	Yes	40 ml - VOA	1	MeOH
10	Yes	40 ml - VOA	2	other
10	Yes	8 oz Soil Jar	2	NP
11	Yes	4 oz Soil Jar	1	NP
11	Yes	40 ml - VOA	1	MeOH
11	Yes	40 ml - VOA	2	other
11	Yes	8 oz Soil Jar	3	NP
12	Yes	40 ml - VOA	1	MeOH
12	Yes	40 ml - VOA	2	other
12	Yes	8 oz Soil Jar	2	NP
13	Yes	4 oz Soil Jar	1	NP
13	Yes	40 ml - VOA	1	MeOH
13	Yes	40 ml - VOA	2	other
13	Yes	8 oz Soil Jar	3	NP
14	Yes	40 ml - VOA	1	MeOH
14	Yes	40 ml - VOA	2	other
14	Yes	8 oz Soil Jar	2	NP
15	Yes	4 oz Soil Jar	1	NP
15	Yes	40 ml - VOA	1	MeOH
15	Yes	40 ml - VOA	2	other
15	Yes	8 oz Soil Jar	3	NP
16	Yes	40 ml - VOA	1	MeOH
16	Yes	40 ml - VOA	2	other
16	Yes	8 oz Soil Jar	2	NP

Completed By: _____ Date/Time: 6-22-06

Reviewed By: _____ Date/Time: ~~6-23-06~~ 6-22-06

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY ESS 1 of 2 Page 2 of 4

Turn Time ___ Standard Other ___
If faster than 5 days, prior approval by laboratory is required # ___

State where samples were collected from:
MA (RI) CT NH NJ NY ME Other ___

Is this project for any of the following:
MA-MCP Navy USACE Other ___

Reporting Limits

ESS LAB PROJECT ID: 0606374

Electronic Deliverable ___ Yes ___ No
Format: Excel__ Access__ PDF__ Other___

Co. Name: Mactec
Project #:
Project Name (20 Char. or less): Gorham Site
Contact Person: Chris Ricardi
Address:
City State Zip PO#
Telephone # 207 775 5401 Fax # Email Address

Circle and/or Write Required Analysis

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	8260 VOA / 624 / 524.2	8021 MTBE/BTEX / 8015 GRO / VPH w/targets	8100 TPH / 8015 DRO / EPH 4 Diesel	EPH w/o PAHs / EPH w/PAHs	8081 Pesticides / 8082 PCB / 608 Pesticides / 608 PCB	8270 SVOA / 625 / PAH 8270	RCRA5 / RCRA8 / PP13 / TAL23	TCLP-RCRA8 / NBC7	MCP-METALS / MCP-METALS (13) w/Hg	VOA	VOA LL	PAH/PEST/PCB/Metals/TPH	TOC	PAH/Metals	
1	6-22-06	1130		X	SW	SED1301		7	8/6/V										X	X	X	X		X
2	"	1150		X	SW	SED1303		5	P										X	X			X	
3	"	1210		X	SW	SED1401		7	"										X	X	X	X		X
4	"	1215		X	SW	SED1403		5	"										X	X			X	
5	"	1230		X	SW	SED1501		7	"										X	X	X	X		X
6	"	1255		X	SW	SED1503		5	"										X	X			X	
7	"	1315		X	SW	SED1601		7	"										X	X	X	X		X
8	"	1330		X	SW	SED1603		5	"										X	X			X	
9	"	1400		X	SW	SED1801		7	"										X	X	X	X		X
10	"	1420		X	SW	SED1804		5	"										X	X			X	

832

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ___
Cooler Temp: 3.5

Internal Use Only
[ ] Pickup
[ ] Technicians ___

Preservation Code: 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ___

Sampled by: Brian Roden / Tom Hanlon

Comments: biotins / Furans

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	6-22-06 1642	[signature]	6/22/06 1642				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS 2 of 2 Page 3 of 4

Turn Time ___ Standard Other ___
If faster than 5 days, prior approval by laboratory is required # ___
State where samples were collected from:
MA (RI) CT NH NJ NY ME Other ___
Is this project for any of the following:
MA-MCP Navy USACE Other ___

Reporting Limits

ESS LAB PROJECT ID: 0606374

Electronic Deliverable ___ Yes ___ No
Format: Excel__ Access__ PDF__ Other___

Co. Name: Maltec
Project #:
Project Name (20 Char. or less): Gorham Site
Contact Person: Chris Ricardi
Address:
City: State: Zip: PO#:
Telephone #: 207 775 5401 Fax #: Email Address:

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Circle and/or Write Required Analysis: 8260 624 524.2 VOA; 8021 MTBE/BTEX VPH w/targets; 8100 TPH 8015 DRO; EPH w/o PAHs EPH w/PAHs; 8081 Pesticides 8082 PCB 608 Pesticides 608 PCB; 8270 SVOA 625 PAH 8270; RCRA5 RCRA8 PP13 TAL23; TCLP-RCRA8 NBC7; MCP-METALS (13) w/Hg MCP-METALS (13); VOA; VOA LL; PAH/PEST/PCB/Metals/TPH; TOC; PAH/Metals/Dioxins/Furans
11	6.22.06	1435		X	SW	SED1901		7	6/a/v	X X X X X
12	"	1450		X	SW	SED1903		5	"	X X X
13	"	1530		X	SW	SED2301		7	"	X X X X X
14	"	1540		X	SW	SED2303		5	"	X X X
15	"	1500		X		SED2101		7	"	X X X X X
16	"	1510		X		SED2103		5	"	X X X

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No Internal Use Only
Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup
Cooler Temp: 3.5 [ ] Technicians ___

Preservation Code: 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ___

Sampled by: Brian Roden / Tom Haulon

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	6-22-06 | 1642	[signature]	6/22/06 | 1642				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY ESS 1 of 2 Page 2 of 4

Turn Time ___ Standard Other ___
If faster than 5 days, prior approval by laboratory is required # ___

State where samples were collected from:
MA (RI) CT NH NJ NY ME Other ___

Is this project for any of the following:
MA-MCP Navy USACE Other ___

Reporting Limits

ESS LAB PROJECT ID: 0606374

Electronic Deliverable ___ Yes ___ No
Format: Excel ___ Access ___ PDF ___ Other ___

Co. Name	Project #	Project Name (20 Char. or less)
Mactec		Gorham Site

Contact Person	Address
Chris Ricardi	

City	State	Zip	PO#

Telephone #	Fax #	Email Address
207 775 5401		

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers
1	6-22-06	1130		X	SD	SED1301		7	9/4/4
2	"	1150		X	SW	SED1303		5	"
3	"	1210		X	SD	SED1401		7	"
4	"	1215		X	SW	SED1403		5	"
5	"	1230		X	SD	SED1501		7	"
6	"	1255		X	SW	SED1503		5	"
7	"	1315		X	SD	SED1601		7	"
8	"	1330		X	SW	SED1603		5	"
9	"	1400		X	SW	SED1801		7	"
10	"	1420		X	SW	SED1804		5	"

Circle and/or Write Required Analysis

8260 624 8021	624	524.2	VPH 8015 GRO MTBE/BTEX 8021	8015 DRO 8100 TPH	EPH w/PAHs 4 Diesel	608 Pesticides 8081	608 PCB 8082	PAH 8270 625 SVOA	PP13 RCRA8 RCRA5	TAL23	NBC7 TCLP-RCRA8	MCP-METALS (13) MCP. METALS (8)	w/Hg	VOA	VOA LL	PAH/PEST/PCB/Metals/TPH	TOL	PAH/Metals	
														X	X	X	X		X
														X	X			X	
														X	X	X	X		X
														X	X			X	
														X	X	X	X		X
														X	X			X	
														X	X	X	X		X
														X	X			X	
														X	X	X	X		X
														X	X			X	

biokins / furans

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present: Yes ___ No
Seals Intact: ___ Yes ___ No NA: ___
Cooler Temp: 3.5

Internal Use Only
[ ] Pickup
[ ] Technicians ___

Preservation Code: 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ___

Sampled by: Brian Roden / Tom Hanlon

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	6-22-06 1642	[signature]	6/22/06 1642				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

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185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS 2 of 2 Page 3 of 4

Turn Time ___ Standard Other ___
If faster than 5 days, prior approval by laboratory is required # ___

State where samples were collected from:
MA (RI) CT NH NJ NY ME Other ___

Is this project for any of the following:
MA-MCP Navy USACE Other ___

Reporting Limits

ESS LAB PROJECT ID: 0606374

Electronic Deliverable ___ Yes ___ No
Format: Excel ___ Access ___ PDF ___ Other ___

Co. Name	Project #	Project Name (20 Char. or less)
Maltec		Gorham Site

Contact Person	Address
Chris Ricardi	

City	State	Zip	PO#

Telephone #	Fax #	Email Address
207 775 5401		

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Circle and/or Write Required Analysis: 8260 VOA; 524.2; 624; 8021 MTBE/BTEX; VPH w/targets; 8015 GRO; 8100 TPH; EPH w/o PAHs; EPH w/PAHs; EPH 4 Diesel; 8081 Pesticides; 8082 PCB; 608 Pesticides; 608 PCB; 8270 SVOA; 625; PAH 8270; RCRA5; RCRAN; PP13; TAL23; TCLP-RCRA8; NBC7; MCP-METALS (13); MCP-METALS (13) w/Hg; VOA; VOA LL; PAH/PEST/PCB/Metals/TPH; TOL; PAH/Metals/Dioxins/Furans
11	6.22.06	1435		X	SW	SED1901		7	8/a/v	X X X X X
12	"	1450		X	SW	SED1903		5	"	X X X
13	"	1530		X	SW	SED2301		7	"	X X X X X
8354	"	1540		X	SW	SED2303		5	"	X X X
15	"	1500		X	S	SED2101		7	"	X X X X X
16	"	1510		X	S	SED2103		5	"	X X X

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ___
Cooler Temp: 3.5

Internal Use Only
[ ] Pickup
[ ] Technicians ___

Preservation Code: 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ___

Sampled by: Brian Rodon / Tom Haulon

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	6.22.06 | 1642	[signature]	6/22/06 | 1642				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

PROJECT NARRATIVE
Page One of Two

Cris Ricardi
MACTEC Engineering & Consulting, Inc.
32 Daniel Webster Highway Ste 25
Merrimack, NH 03054

RE: Providence Gorham Site
ESS Laboratory Work Order Number: 0606383

This signed Certificate of Analysis is our approved release of your analytical results. Beginning with this Project Narrative, the entire report has been paginated. The ESS Laboratory Certifications sheet is the final report page. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

Date: July 25, 2006

Sample Receipt
14 Soil samples, 2 Aqueous samples, and 1 Trip Blank were received on June 23, 2006 for the analyses specified on the enclosed Chain of Custody Record.

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC, except where noted within this project narrative.

Metals Analysis
ESS Laboratory utilized the established linear dynamic range to determine acceptable analytical results.
The batch duplicate was outside of the recommended range for Copper due to matrix interferences.
The batch Matrix Spike was outside of the recommended range for Antimony. This analyte was below the lower control limit.
The batch Matrix Spike/Matrix Spike Duplicate was outside of the recommended ranges for Mercury due to matrix interferences. This analyte was below the lower control limit.
The batch duplicate was outside of the recommended range for Silver, however, was within ±MRL.

Volatile Organics Analysis
Due to poor purging efficiency the following compounds are below the minimum Response Factor requirements of method 8260: Acetone, 2-Butanone, and 1,4-Dioxane

Continues

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PROJECT NARRATIVE
Page Two of Two

Cris Ricardi
MACTEC Engineering & Consulting, Inc.
32 Daniel Webster Highway Ste 25
Merrimack, NH 03054

RE: Providence Gorham Site
ESS Laboratory Work Order Number: 0606383

Volatile Organics Analysis *(Continues)*
High Level Volatile Organics
Surrogate recovery was outside of the recommended range for sample 0606383-10 due to matrix interferences.
No VOA Vials provided for 0606383-09.
Blank Spike was outside of the recommended range for 1,4-Dioxane - Screen. This analyte exceeds the upper control limit, however, samples were non detect for this analyte.
Low Level Volatile Organics
Internal standard recoveries were outside of the recommended ranges for samples 0606383-08 and 0606383-11 due to matrix interferences.
Blank Spike was outside of the recommended range for Chloroethane. This analyte was below the lower control limit.
The batch Matrix Spike/Matrix Spike Duplicate was outside of the recommended ranges for majority of compounds due to matrix interferences. These analytes were below the lower control limit.
The Relative Percent Difference for the Matrix Spike/Matrix Spike Duplicate was outside of the recommended range for many of compounds.
Volatile Organics Analysis (Aqueous)
Blank Spike was outside of the recommended range for 1,4-Dioxane - Screen. This analyte exceeds the upper control limit, however, samples were non detect for this analyte.
The Relative Percent Difference for the Blank Spike/Blank Spike Duplicate was outside of the recommended range for 1,4-Dioxane - Screen.
Semivolatile Organics Analysis (SIM)
Surrogate recovery was outside of the recommended range for the Method Blank, Blank Spike, and Blank Spike Duplicate.
The Relative Percent Difference for the Blank Spike/Blank Spike Duplicate was outside of the recommended range for Benzo(b)fluoranthene, Dibenzo(a,h)Anthracene, Indeno(1,2,3-cd)Pyrene, and Pyrene.
Blank Spike was outside of the recommended range for Pyrene. This analyte exceeds the upper control limit, however, samples were non detect for this analyte.
Internal standard recovery was outside of the recommended ranges for sample 0606383-13 due to matrix interferences. Reanalysis of sample produced similar results.
Pesticides Analysis
Blank Spike was outside of the recommended range for 4,4´-DDT. This analyte exceeds the upper control limit, however, samples were non detect for this analyte.
The Relative Percent Difference for the Blank Spike/Blank Spike Duplicate was outside of the recommended range for Hexachlorobenzene.

No other observations noted.

End of Project Narrative.

eo

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

Metals
Data Package

Metals
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2401
Date Sampled: 06/22/06 16:35
Percent Solids: 40

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-01
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	9.8	6010B	1	JP	06/26/06	2.54	100
Arsenic	**9.3**	mg/kg dry	2.5	7060A	5	JP	06/30/06	2.54	100
Barium	**82.4**	mg/kg dry	4.9	6010B	1	JP	06/26/06	2.54	100
Beryllium	**0.28**	mg/kg dry	0.10	6010B	1	JP	06/26/06	2.54	100
Cadmium	**2.87**	mg/kg dry	0.98	6010B	1	JP	06/26/06	2.54	100
Chromium	**532**	mg/kg dry	2.0	6010B	1	JP	06/26/06	2.54	100
Copper	**1930**	mg/kg dry	2.0	6010B	1	JP	06/26/06	2.54	100
Lead	**520**	mg/kg dry	9.8	6010B	1	JP	06/26/06	2.54	100
Mercury	**0.653**	mg/kg dry	0.068	7471A	1	JP	06/27/06	0.73	40
Nickel	**55.6**	mg/kg dry	4.9	6010B	1	JP	06/26/06	2.54	100
Selenium	ND	mg/kg dry	9.8	6010B	1	JP	06/26/06	2.54	100
Silver	**107**	mg/kg dry	0.98	6010B	1	JP	06/26/06	2.54	100
Thallium	ND	mg/kg dry	2.5	7841	5	JP	06/29/06	2.54	100
Zinc	**1920**	mg/kg dry	4.9	6010B	1	JP	06/26/06	2.54	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2403
Date Sampled: 06/22/06 16:50
Percent Solids: 21

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-02
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	25.3	6010B	1	JP	06/26/06	1.88	100
Arsenic	**20.7**	mg/kg dry	6.3	7060A	5	JP	06/30/06	1.88	100
Barium	**73.8**	mg/kg dry	12.7	6010B	1	JP	06/26/06	1.88	100
Beryllium	**0.41**	mg/kg dry	0.25	6010B	1	JP	06/26/06	1.88	100
Cadmium	ND	mg/kg dry	2.53	6010B	1	JP	06/26/06	1.88	100
Chromium	**34.3**	mg/kg dry	5.1	6010B	1	JP	06/26/06	1.88	100
Copper	**200**	mg/kg dry	5.1	6010B	1	JP	06/26/06	1.88	100
Lead	**76.4**	mg/kg dry	25.3	6010B	1	JP	06/26/06	1.88	100
Mercury	**0.171**	mg/kg dry	0.159	7471A	1	JP	06/27/06	0.6	40
Nickel	**16.3**	mg/kg dry	12.7	6010B	1	JP	06/26/06	1.88	100
Selenium	ND	mg/kg dry	25.3	6010B	1	JP	06/26/06	1.88	100
Silver	**31.9**	mg/kg dry	2.53	6010B	1	JP	06/26/06	1.88	100
Thallium	ND	mg/kg dry	6.3	7841	5	JP	06/29/06	1.88	100
Zinc	**157**	mg/kg dry	12.7	6010B	1	JP	06/26/06	1.88	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2201
Date Sampled: 06/22/06 17:00
Percent Solids: 30

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-03
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	15.9	6010B	1	JP	06/26/06	2.1	100
Arsenic	**12.0**	mg/kg dry	4.0	7060A	5	JP	06/30/06	2.1	100
Barium	**125**	mg/kg dry	7.9	6010B	1	JP	06/26/06	2.1	100
Beryllium	**0.32**	mg/kg dry	0.16	6010B	1	JP	06/26/06	2.1	100
Cadmium	**2.80**	mg/kg dry	1.59	6010B	1	JP	06/26/06	2.1	100
Chromium	**616**	mg/kg dry	3.2	6010B	1	JP	06/26/06	2.1	100
Copper	**1970**	mg/kg dry	3.2	6010B	1	JP	06/26/06	2.1	100
Lead	**426**	mg/kg dry	15.9	6010B	1	JP	06/26/06	2.1	100
Mercury	**0.677**	mg/kg dry	0.109	7471A	1	JP	06/27/06	0.61	40
Nickel	**86.0**	mg/kg dry	7.9	6010B	1	JP	06/26/06	2.1	100
Selenium	ND	mg/kg dry	15.9	6010B	1	JP	06/26/06	2.1	100
Silver	**163**	mg/kg dry	1.59	6010B	1	JP	06/26/06	2.1	100
Thallium	ND	mg/kg dry	4.0	7841	5	JP	06/29/06	2.1	100
Zinc	**1360**	mg/kg dry	7.9	6010B	1	JP	06/26/06	2.1	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2203
Date Sampled: 06/22/06 17:10
Percent Solids: 20

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-04
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	27.6	6010B	1	JP	06/26/06	1.81	100
Arsenic	ND	mg/kg dry	6.9	7060A	5	JP	06/30/06	1.81	100
Barium	**33.6**	mg/kg dry	13.8	6010B	1	JP	06/26/06	1.81	100
Beryllium	**1.17**	mg/kg dry	0.28	6010B	1	JP	06/26/06	1.81	100
Cadmium	ND	mg/kg dry	2.76	6010B	1	JP	06/26/06	1.81	100
Chromium	**16.2**	mg/kg dry	5.5	6010B	1	JP	06/26/06	1.81	100
Copper	**46.0**	mg/kg dry	5.5	6010B	1	JP	06/26/06	1.81	100
Lead	ND	mg/kg dry	27.6	6010B	1	JP	06/26/06	1.81	100
Mercury	ND	mg/kg dry	0.156	7471A	1	JP	06/27/06	0.64	40
Nickel	ND	mg/kg dry	13.8	6010B	1	JP	06/26/06	1.81	100
Selenium	ND	mg/kg dry	27.6	6010B	1	JP	06/26/06	1.81	100
Silver	ND	mg/kg dry	2.76	6010B	1	JP	06/26/06	1.81	100
Thallium	ND	mg/kg dry	6.9	7841	5	JP	06/29/06	1.81	100
Zinc	**37.3**	mg/kg dry	13.8	6010B	1	JP	06/26/06	1.81	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2701
Date Sampled: 06/22/06 17:35
Percent Solids: 20

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-05
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	16.6	6010B	1	JP	06/26/06	3.02	100
Arsenic	**36.6**	mg/kg dry	4.1	7060A	5	JP	06/30/06	3.02	100
Barium	**123**	mg/kg dry	8.3	6010B	1	JP	06/26/06	3.02	100
Beryllium	**0.85**	mg/kg dry	0.17	6010B	1	JP	06/26/06	3.02	100
Cadmium	**4.39**	mg/kg dry	1.66	6010B	1	JP	06/26/06	3.02	100
Chromium	**148**	mg/kg dry	3.3	6010B	1	JP	06/26/06	3.02	100
Copper	**892**	mg/kg dry	3.3	6010B	1	JP	06/26/06	3.02	100
Lead	**507**	mg/kg dry	16.6	6010B	1	JP	06/26/06	3.02	100
Mercury	ND	mg/kg dry	0.120	7471A	1	JP	06/27/06	0.83	40
Nickel	**853**	mg/kg dry	8.3	6010B	1	JP	06/26/06	3.02	100
Selenium	ND	mg/kg dry	16.6	6010B	1	JP	06/26/06	3.02	100
Silver	**78.3**	mg/kg dry	1.66	6010B	1	JP	06/26/06	3.02	100
Thallium	ND	mg/kg dry	4.1	7841	5	JP	06/29/06	3.02	100
Zinc	**1300**	mg/kg dry	8.3	6010B	1	JP	06/26/06	3.02	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2703
Date Sampled: 06/22/06 17:46
Percent Solids: 79

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-06
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	7.2	6010B	1	JP	06/26/06	1.75	100
Arsenic	**4.1**	mg/kg dry	1.8	7060A	5	JP	06/30/06	1.75	100
Barium	**14.2**	mg/kg dry	3.6	6010B	1	JP	06/26/06	1.75	100
Beryllium	ND	mg/kg dry	0.07	6010B	1	JP	06/26/06	1.75	100
Cadmium	ND	mg/kg dry	0.72	6010B	1	JP	06/26/06	1.75	100
Chromium	**4.6**	mg/kg dry	1.4	6010B	1	JP	06/26/06	1.75	100
Copper	**454**	mg/kg dry	1.4	6010B	1	JP	06/26/06	1.75	100
Lead	ND	mg/kg dry	7.2	6010B	1	JP	06/26/06	1.75	100
Mercury	ND	mg/kg dry	0.042	7471A	1	JP	06/27/06	0.6	40
Nickel	**18.6**	mg/kg dry	3.6	6010B	1	JP	06/26/06	1.75	100
Selenium	ND	mg/kg dry	7.2	6010B	1	JP	06/26/06	1.75	100
Silver	ND	mg/kg dry	0.72	6010B	1	JP	06/26/06	1.75	100
Thallium	ND	mg/kg dry	1.8	7841	5	JP	06/29/06	1.75	100
Zinc	**24.3**	mg/kg dry	3.6	6010B	1	JP	06/26/06	1.75	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2601
Date Sampled: 06/22/06 18:10
Percent Solids: 54

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-07
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte		Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V
Antimony		ND	mg/kg dry	10.1	6010B	1	JP	06/26/06	1.83
Arsenic	E	**36.8**	mg/kg dry	2.5	7060A	5	JP	06/30/06	1.83
Barium		**466**	mg/kg dry	5.1	6010B	1	JP	06/26/06	1.83
Beryllium		**0.87**	mg/kg dry	0.10	6010B	1	JP	06/26/06	1.83
Cadmium		**1.57**	mg/kg dry	1.01	6010B	1	JP	06/26/06	1.83
Chromium		**18.8**	mg/kg dry	2.0	6010B	1	JP	06/26/06	1.83
Copper		**180**	mg/kg dry	2.0	6010B	1	JP	06/26/06	1.83
Lead		**219**	mg/kg dry	10.1	6010B	1	JP	06/26/06	1.83
Mercury		**0.637**	mg/kg dry	0.061	7471A	1	JP	06/27/06	0.61
Nickel		**274**	mg/kg dry	5.1	6010B	1	JP	06/26/06	1.83
Selenium		**17.9**	mg/kg dry	10.1	6010B	1	JP	06/26/06	1.83
Silver		**37.9**	mg/kg dry	1.01	6010B	1	JP	06/26/06	1.83
Thallium		ND	mg/kg dry	2.5	7841	5	JP	06/29/06	1.83
Zinc		**209**	mg/kg dry	5.1	6010B	1	JP	06/26/06	1.83

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2601
Date Sampled: 06/22/06 18:10
Percent Solids: 54

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-07RE1
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Arsenic	**36.1**	mg/kg dry	7.6	7060A	15	JP	06/30/06	1.83	100

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2602
Date Sampled: 06/22/06 18:20
Percent Solids: 46

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-08
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte		Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony		ND	mg/kg dry	12.2	6010B	1	JP	06/26/06	1.78	100
Arsenic	E	**48.5**	mg/kg dry	3.1	7060A	5	JP	06/30/06	1.78	100
Barium	E	**2240**	mg/kg dry	6.1	6010B	1	JP	06/26/06	1.78	100
Beryllium		**1.75**	mg/kg dry	0.12	6010B	1	JP	06/26/06	1.78	100
Cadmium		**2.06**	mg/kg dry	1.22	6010B	1	JP	06/26/06	1.78	100
Chromium		**25.3**	mg/kg dry	2.4	6010B	1	JP	06/26/06	1.78	100
Copper		**144**	mg/kg dry	2.4	6010B	1	JP	06/26/06	1.78	100
Lead		**182**	mg/kg dry	12.2	6010B	1	JP	06/26/06	1.78	100
Mercury		**0.477**	mg/kg dry	0.069	7471A	1	JP	06/27/06	0.63	40
Nickel		**33.1**	mg/kg dry	6.1	6010B	1	JP	06/26/06	1.78	100
Selenium		**38.7**	mg/kg dry	12.2	6010B	1	JP	06/26/06	1.78	100
Silver		**14.1**	mg/kg dry	1.22	6010B	1	JP	06/26/06	1.78	100
Thallium		**3.2**	mg/kg dry	3.1	7841	5	JP	06/29/06	1.78	100
Zinc		**166**	mg/kg dry	6.1	6010B	1	JP	06/26/06	1.78	100

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2602
Date Sampled: 06/22/06 18:20
Percent Solids: 46

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-08RE1
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Arsenic	**55.2**	mg/kg dry	9.2	7060A	15	JP	06/30/06	1.78	100
Barium	**2430**	mg/kg dry	30.5	6010B	5	EEM	06/30/06	1.78	100

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2605
Date Sampled: 06/22/06 18:30
Percent Solids: 19

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-09
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	28.9	6010B	1	JP	06/26/06	1.82	100
Arsenic	ND	mg/kg dry	7.2	7060A	5	JP	06/30/06	1.82	100
Barium	**93.2**	mg/kg dry	14.4	6010B	1	JP	06/26/06	1.82	100
Beryllium	**0.29**	mg/kg dry	0.29	6010B	1	JP	06/26/06	1.82	100
Cadmium	ND	mg/kg dry	2.89	6010B	1	JP	06/26/06	1.82	100
Chromium	**8.4**	mg/kg dry	5.8	6010B	1	JP	06/26/06	1.82	100
Copper	**19.7**	mg/kg dry	5.8	6010B	1	JP	06/26/06	1.82	100
Lead	ND	mg/kg dry	28.9	6010B	1	JP	06/26/06	1.82	100
Mercury	ND	mg/kg dry	0.170	7471A	1	JP	06/27/06	0.62	40
Nickel	ND	mg/kg dry	14.4	6010B	1	JP	06/26/06	1.82	100
Selenium	ND	mg/kg dry	28.9	6010B	1	JP	06/26/06	1.82	100
Silver	ND	mg/kg dry	2.89	6010B	1	JP	06/26/06	1.82	100
Thallium	ND	mg/kg dry	7.2	7841	5	JP	06/29/06	1.82	100
Zinc	**19.8**	mg/kg dry	14.4	6010B	1	JP	06/26/06	1.82	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2501
Date Sampled: 06/22/06 18:45
Percent Solids: 30

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-10
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	13.1	6010B	1	JP	06/26/06	2.55	1O
Arsenic	**22.4**	mg/kg dry	3.3	7060A	5	JP	06/30/06	2.55	1O
Barium	**207**	mg/kg dry	6.5	6010B	1	JP	06/26/06	2.55	1O
Beryllium	**0.58**	mg/kg dry	0.13	6010B	1	JP	06/26/06	2.55	1O
Cadmium	**4.56**	mg/kg dry	1.31	6010B	1	JP	06/26/06	2.55	1O
Chromium	**300**	mg/kg dry	2.6	6010B	1	JP	06/26/06	2.55	1O
Copper	**1890**	mg/kg dry	2.6	6010B	1	JP	06/26/06	2.55	1O
Lead	**672**	mg/kg dry	13.1	6010B	1	JP	06/26/06	2.55	1O
Mercury	**0.159**	mg/kg dry	0.083	7471A	1	JP	06/27/06	0.8	4O
Nickel	**113**	mg/kg dry	6.5	6010B	1	JP	06/26/06	2.55	1O
Selenium	ND	mg/kg dry	13.1	6010B	1	JP	06/26/06	2.55	1O
Silver	**140**	mg/kg dry	1.31	6010B	1	JP	06/26/06	2.55	1O
Thallium	ND	mg/kg dry	3.3	7841	5	JP	06/29/06	2.55	1O
Zinc	**1360**	mg/kg dry	6.5	6010B	1	JP	06/26/06	2.55	1O

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2503
Date Sampled: 06/22/06 18:53
Percent Solids: 12

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-11
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	46.3	6010B	1	JP	06/26/06	1.8	100
Arsenic	**115**	mg/kg dry	11.6	7060A	5	JP	06/30/06	1.8	100
Barium	**85.7**	mg/kg dry	23.1	6010B	1	JP	06/26/06	1.8	100
Beryllium	ND	mg/kg dry	0.47	6010B	1	JP	06/26/06	1.8	100
Cadmium	ND	mg/kg dry	4.63	6010B	1	JP	06/26/06	1.8	100
Chromium	**19.6**	mg/kg dry	9.2	6010B	1	JP	06/26/06	1.8	100
Copper	**51.8**	mg/kg dry	9.2	6010B	1	JP	06/26/06	1.8	100
Lead	ND	mg/kg dry	46.3	6010B	1	JP	06/26/06	1.8	100
Mercury	ND	mg/kg dry	0.278	7471A	1	JP	06/27/06	0.6	40
Nickel	**46.4**	mg/kg dry	23.1	6010B	1	JP	06/26/06	1.8	100
Selenium	ND	mg/kg dry	46.3	6010B	1	JP	06/26/06	1.8	100
Silver	ND	mg/kg dry	4.63	6010B	1	JP	06/26/06	1.8	100
Thallium	ND	mg/kg dry	11.6	7841	5	JP	06/29/06	1.8	100
Zinc	**77.6**	mg/kg dry	23.1	6010B	1	JP	06/26/06	1.8	100

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2503D
Date Sampled: 06/23/06 10:05
Percent Solids: 16

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-12
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte		Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony		ND	mg/kg dry	35.3	6010B	1	JP	06/26/06	1.77	100
Arsenic	E	**103**	mg/kg dry	8.8	7060A	5	JP	06/30/06	1.77	100
Barium		**81.7**	mg/kg dry	17.6	6010B	1	JP	06/26/06	1.77	100
Beryllium		**0.39**	mg/kg dry	0.35	6010B	1	JP	06/26/06	1.77	100
Cadmium		ND	mg/kg dry	3.53	6010B	1	JP	06/26/06	1.77	100
Chromium		**18.3**	mg/kg dry	7.0	6010B	1	JP	06/26/06	1.77	100
Copper		**64.5**	mg/kg dry	7.0	6010B	1	JP	06/26/06	1.77	100
Lead		ND	mg/kg dry	35.3	6010B	1	JP	06/26/06	1.77	100
Mercury		ND	mg/kg dry	0.171	7471A	1	JP	06/27/06	0.73	40
Nickel		**37.7**	mg/kg dry	17.6	6010B	1	JP	06/26/06	1.77	100
Selenium		ND	mg/kg dry	35.3	6010B	1	JP	06/26/06	1.77	100
Silver		**4.51**	mg/kg dry	3.53	6010B	1	JP	06/26/06	1.77	100
Thallium		ND	mg/kg dry	8.8	7841	5	JP	06/29/06	1.77	100
Zinc		**69.3**	mg/kg dry	17.6	6010B	1	JP	06/26/06	1.77	100

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2503D
Date Sampled: 06/23/06 10:05
Percent Solids: 16

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-12RE1
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Arsenic	99.4	mg/kg dry	26.5	7060A	15	JP	06/30/06	1.77	100

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2507
Date Sampled: 06/23/06 10:30
Percent Solids: 12

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-13
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	46.3	6010B	1	JP	06/26/06	1.8	100
Arsenic	**78.6**	mg/kg dry	11.6	7060A	5	JP	06/30/06	1.8	100
Barium	ND	mg/kg dry	23.1	6010B	1	JP	06/26/06	1.8	100
Beryllium	ND	mg/kg dry	0.47	6010B	1	JP	06/26/06	1.8	100
Cadmium	ND	mg/kg dry	4.63	6010B	1	JP	06/26/06	1.8	100
Chromium	**10.4**	mg/kg dry	9.2	6010B	1	JP	06/26/06	1.8	100
Copper	**10.7**	mg/kg dry	9.2	6010B	1	JP	06/26/06	1.8	100
Lead	ND	mg/kg dry	46.3	6010B	1	JP	06/26/06	1.8	100
Mercury	ND	mg/kg dry	0.269	7471A	1	JP	06/27/06	0.62	40
Nickel	**43.8**	mg/kg dry	23.1	6010B	1	JP	06/26/06	1.8	100
Selenium	ND	mg/kg dry	46.3	6010B	1	JP	06/26/06	1.8	100
Silver	ND	mg/kg dry	4.63	6010B	1	JP	06/26/06	1.8	100
Thallium	ND	mg/kg dry	11.6	7841	5	JP	06/29/06	1.8	100
Zinc	**84.8**	mg/kg dry	23.1	6010B	1	JP	06/26/06	1.8	100

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2507D
Date Sampled: 06/23/06 10:35
Percent Solids: 14

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-14
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	40.1	6010B	1	JP	06/26/06	1.78	10
Arsenic	**76.0**	mg/kg dry	10.0	7060A	5	JP	06/30/06	1.78	10
Barium	ND	mg/kg dry	20.0	6010B	1	JP	06/26/06	1.78	10
Beryllium	ND	mg/kg dry	0.40	6010B	1	JP	06/26/06	1.78	10
Cadmium	ND	mg/kg dry	4.01	6010B	1	JP	06/26/06	1.78	10
Chromium	**9.7**	mg/kg dry	8.0	6010B	1	JP	06/26/06	1.78	10
Copper	**8.3**	mg/kg dry	8.0	6010B	1	JP	06/26/06	1.78	10
Lead	ND	mg/kg dry	40.1	6010B	1	JP	06/26/06	1.78	10
Mercury	ND	mg/kg dry	0.227	7471A	1	JP	06/27/06	0.63	40
Nickel	**41.2**	mg/kg dry	20.0	6010B	1	JP	06/26/06	1.78	10
Selenium	ND	mg/kg dry	40.1	6010B	1	JP	06/26/06	1.78	10
Silver	ND	mg/kg dry	4.01	6010B	1	JP	06/26/06	1.78	10
Thallium	ND	mg/kg dry	10.0	7841	5	JP	06/29/06	1.78	10
Zinc	**70.6**	mg/kg dry	20.0	6010B	1	JP	06/26/06	1.78	10

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Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: Rinsate Sed
Date Sampled: 06/23/06 09:50
Percent Solids: N/A

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-15
Sample Matrix: Aqueous

3005A/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/L	0.05	6010B	1	SVD	06/24/06	50	50
Arsenic	ND	mg/L	0.050	6010B	1	SVD	06/24/06	50	50
Barium	ND	mg/L	0.050	6010B	1	SVD	06/24/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	SVD	06/24/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	SVD	06/24/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	SVD	06/24/06	50	50
Copper	**0.102**	mg/L	0.020	6010B	1	SVD	06/24/06	50	50
Lead	ND	mg/L	0.050	6010B	1	SVD	06/24/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/28/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	SVD	06/24/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	SVD	06/24/06	50	50
Silver	ND	mg/L	0.005	6010B	1	SVD	06/24/06	50	50
Thallium	ND	mg/L	0.10	6010B	1	SVD	06/24/06	50	50
Zinc	**0.276**	mg/L	0.050	6010B	1	SVD	06/24/06	50	50

Metals
Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3005A/6000/7000 Total Metals										
Batch BF62403 - 3005A										
Blank										
Antimony	ND	0.05	mg/L							
Arsenic	ND	0.050	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.001	mg/L							
Cadmium	ND	0.005	mg/L							
Chromium	ND	0.020	mg/L							
Copper	ND	0.020	mg/L							
Lead	ND	0.050	mg/L							
Nickel	ND	0.050	mg/L							
Selenium	ND	0.05	mg/L							
Silver	ND	0.005	mg/L							
Thallium	ND	0.10	mg/L							
Zinc	ND	0.050	mg/L							
LCS										
Antimony	0.47	0.05	mg/L	0.500		94	80-120			
Arsenic	0.493	0.050	mg/L	0.500		99	80-120			
Barium	0.498	0.050	mg/L	0.500		100	80-120			
Beryllium	0.050	0.001	mg/L	0.0500		100	80-120			
Cadmium	0.251	0.005	mg/L	0.250		100	80-120			
Chromium	0.508	0.020	mg/L	0.500		102	80-120			
Copper	0.507	0.020	mg/L	0.500		101	80-120			
Lead	0.535	0.050	mg/L	0.500		107	80-120			
Nickel	0.508	0.050	mg/L	0.500		102	80-120			
Selenium	0.97	0.05	mg/L	1.00		97	80-120			
Silver	0.254	0.005	mg/L	0.250		102	80-120			
Thallium	0.52	0.10	mg/L	0.500		104	80-120			
Zinc	0.528	0.050	mg/L	0.500		106	80-120			
LCS Dup										
Antimony	0.47	0.05	mg/L	0.500		94	80-120	0	20	
Arsenic	0.478	0.050	mg/L	0.500		96	80-120	3	20	
Barium	0.490	0.050	mg/L	0.500		98	80-120	2	20	
Beryllium	0.049	0.001	mg/L	0.0500		98	80-120	2	20	
Cadmium	0.246	0.005	mg/L	0.250		98	80-120	2	20	
Chromium	0.500	0.020	mg/L	0.500		100	80-120	2	20	
Copper	0.500	0.020	mg/L	0.500		100	80-120	1	20	
Lead	0.530	0.050	mg/L	0.500		106	80-120	0.9	20	
Nickel	0.505	0.050	mg/L	0.500		101	80-120	1	20	
Selenium	0.96	0.05	mg/L	1.00		96	80-120	1	20	
Silver	0.250	0.005	mg/L	0.250		100	80-120	2	20	
Thallium	0.52	0.10	mg/L	0.500		104	80-120	0	20	
Zinc	0.511	0.050	mg/L	0.500		102	80-120	4	20	
Batch BF62707 - 245.1/7470A										
Blank										
Mercury	ND	0.0005	mg/L							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3005A/6000/7000 Total Metals										
Batch BF62707 - 245.1/7470A										
LCS										
Mercury	0.0057	0.0005	mg/L	0.00600		95	80-120			
LCS Dup										
Mercury	0.0056	0.0005	mg/L	0.00600		93	80-120	2	20	
3050B/6000/7000 Total Metals										
Batch BF62617 - 3050B										
Blank										
Antimony	ND	6.7	mg/kg wet							
Arsenic	ND	0.3	mg/kg wet							
Barium	ND	3.3	mg/kg wet							
Beryllium	ND	0.07	mg/kg wet							
Cadmium	ND	0.67	mg/kg wet							
Chromium	ND	1.3	mg/kg wet							
Copper	ND	1.3	mg/kg wet							
Lead	ND	6.7	mg/kg wet							
Nickel	ND	3.3	mg/kg wet							
Selenium	ND	6.7	mg/kg wet							
Silver	ND	0.67	mg/kg wet							
Thallium	ND	0.3	mg/kg wet							
Zinc	ND	3.3	mg/kg wet							
LCS										
Antimony	30.3	6.7	mg/kg wet	33.3		91	80-120			
Arsenic	32.0	6.7	mg/kg wet	33.3		96	80-120			
Barium	32.3	3.3	mg/kg wet	33.3		97	80-120			
Beryllium	3.16	0.07	mg/kg wet	3.33		95	80-120			
Cadmium	15.7	0.67	mg/kg wet	16.7		94	80-120			
Chromium	33.0	1.3	mg/kg wet	33.3		99	80-120			
Copper	32.6	1.3	mg/kg wet	33.3		98	80-120			
Lead	31.8	6.7	mg/kg wet	33.3		95	80-120			
Nickel	32.6	3.3	mg/kg wet	33.3		98	80-120			
Selenium	59.6	6.7	mg/kg wet	66.7		89	80-120			
Silver	16.0	0.67	mg/kg wet	16.7		96	80-120			
Thallium	34.7	6.7	mg/kg wet	33.3		104	80-120			
Zinc	31.8	3.3	mg/kg wet	33.3		95	80-120			
LCS Dup										
Antimony	30.3	6.7	mg/kg wet	33.3		91	80-120	0	20	
Arsenic	31.1	6.7	mg/kg wet	33.3		93	80-120	3	20	
Barium	32.1	3.3	mg/kg wet	33.3		96	80-120	1	20	
Beryllium	3.18	0.07	mg/kg wet	3.33		95	80-120	0	20	
Cadmium	15.7	0.67	mg/kg wet	16.7		94	80-120	0	20	
Chromium	32.8	1.3	mg/kg wet	33.3		98	80-120	1	20	
Copper	32.4	1.3	mg/kg wet	33.3		97	80-120	1	20	
Lead	31.7	6.7	mg/kg wet	33.3		95	80-120	0.3	20	
Nickel	32.3	3.3	mg/kg wet	33.3		97	80-120	1	20	
Selenium	59.8	6.7	mg/kg wet	66.7		90	80-120	1	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch BF62617 - 3050B										
Silver	16.0	0.67	mg/kg wet	16.7		96	80-120	0	20	
Thallium	34.7	6.7	mg/kg wet	33.3		104	80-120	0	20	
Zinc	31.5	3.3	mg/kg wet	33.3		95	80-120	0	20	
Duplicate **Source: 0606383-11**										
Antimony	ND	46.8	mg/kg dry		ND				35	
Arsenic	110	11.7	mg/kg dry		115			4	35	
Barium	85.5	23.4	mg/kg dry		85.7			0.2	35	
Beryllium	0.400	0.47	mg/kg dry		0.43			7	35	
Cadmium	3.22	4.68	mg/kg dry		3.24			0.6	35	
Chromium	25.2	9.3	mg/kg dry		19.6			25	35	
Copper	86.0	9.3	mg/kg dry		51.8			50	35	+
Lead	36.8	46.8	mg/kg dry		25.6			36	35	
Nickel	42.9	23.4	mg/kg dry		46.4			8	35	
Selenium	4.37	46.8	mg/kg dry		ND				35	
Silver	7.30	4.68	mg/kg dry		3.65			67	35	+
Thallium	ND	11.7	mg/kg dry		ND				35	
Zinc	89.6	23.4	mg/kg dry		77.6			14	35	
Duplicate **Source: 0606383-13**										
Arsenic	78.5	11.8	mg/kg dry		78.6			0.1	35	
Thallium	ND	11.8	mg/kg dry		ND				35	
Matrix Spike **Source: 0606383-11**										
Antimony	177	46.3	mg/kg dry	231	ND	77	75-125			
Arsenic	308	46.2	mg/kg dry	231	115	84	75-125			
Barium	285	23.1	mg/kg dry	231	85.7	86	75-125			
Beryllium	21.1	0.47	mg/kg dry	23.1	0.43	89	75-125			
Cadmium	103	4.63	mg/kg dry	116	3.24	86	75-125			
Chromium	234	9.2	mg/kg dry	231	19.6	93	75-125			
Copper	268	9.2	mg/kg dry	231	51.8	94	75-125			
Lead	230	46.3	mg/kg dry	231	25.6	88	75-125			
Nickel	253	23.1	mg/kg dry	231	46.4	89	75-125			
Selenium	382	46.3	mg/kg dry	463	ND	83	75-125			
Silver	107	4.63	mg/kg dry	116	3.65	89	75-125			
Thallium	234	46.2	mg/kg dry	231	ND	101	75-125			
Zinc	265	23.1	mg/kg dry	231	77.6	81	75-125			
Matrix Spike **Source: 0606383-13**										
Antimony	176	47.1	mg/kg dry	235	ND	75	75-125			
Arsenic	280	47.0	mg/kg dry	235	78.6	86	75-125			
Barium	222	23.5	mg/kg dry	235	15.1	88	75-125			
Beryllium	20.9	0.47	mg/kg dry	23.5	0.34	87	75-125			
Cadmium	103	4.71	mg/kg dry	118	2.32	85	75-125			
Chromium	222	9.4	mg/kg dry	235	10.4	90	75-125			
Copper	229	9.4	mg/kg dry	235	10.7	93	75-125			
Lead	207	47.1	mg/kg dry	235	ND	88	75-125			
Nickel	251	23.5	mg/kg dry	235	43.8	88	75-125			
Selenium	378	47.1	mg/kg dry	471	ND	80	75-125			
Silver	104	4.71	mg/kg dry	118	ND	88	75-125			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch BF62617 - 3050B										
Thallium	221	47.0	mg/kg dry	235	ND	94	75-125			
Zinc	269	23.5	mg/kg dry	235	84.8	78	75-125			
Matrix Spike Dup Source: 0606383-11										
Antimony	177	45.3	mg/kg dry	226	ND	78	75-125	1	35	
Barium	290	22.6	mg/kg dry	226	85.7	90	75-125	5	35	
Beryllium	21.0	0.46	mg/kg dry	22.6	0.43	91	75-125	2	35	
Cadmium	104	4.53	mg/kg dry	113	3.24	89	75-125	3	35	
Chromium	235	9.0	mg/kg dry	226	19.6	95	75-125	2	35	
Copper	274	9.0	mg/kg dry	226	51.8	98	75-125	4	35	
Lead	226	45.3	mg/kg dry	226	25.6	89	75-125	2	35	
Nickel	255	22.6	mg/kg dry	226	46.4	92	75-125	3	35	
Selenium	382	45.3	mg/kg dry	453	ND	84	75-125	1	35	
Silver	107	4.53	mg/kg dry	113	3.65	91	75-125	0	35	
Zinc	262	22.6	mg/kg dry	226	77.6	82	75-125	1	35	
Matrix Spike Dup Source: 0606383-13										
Antimony	167	45.3	mg/kg dry	226	ND	74	75-125	1	35	+
Barium	214	22.6	mg/kg dry	226	15.1	88	75-125	0	35	
Beryllium	20.1	0.46	mg/kg dry	22.6	0.34	87	75-125	0	35	
Cadmium	99.0	4.53	mg/kg dry	113	2.32	86	75-125	1	35	
Chromium	213	9.0	mg/kg dry	226	10.4	90	75-125	0	35	
Copper	222	9.0	mg/kg dry	226	10.7	93	75-125	0	35	
Lead	198	45.3	mg/kg dry	226	ND	88	75-125	4	35	
Nickel	241	22.6	mg/kg dry	226	43.8	87	75-125	1	35	
Selenium	360	45.3	mg/kg dry	453	ND	79	75-125	1	35	
Silver	99.7	4.53	mg/kg dry	113	ND	88	75-125	4	35	
Zinc	258	22.6	mg/kg dry	226	84.8	77	75-125	1	35	
Reference										
Antimony	59.6	10.0	mg/kg wet	86.2		69	0-222.74			
Arsenic	150	25.0	mg/kg wet	146		103	79.45-120.55			
Barium	333	5.0	mg/kg wet	351		95	82.05-117.95			
Beryllium	60.3	0.10	mg/kg wet	62.2		97	81.99-118.01			
Cadmium	84.9	1.00	mg/kg wet	91.9		92	81.5-118.61			
Chromium	167	2.0	mg/kg wet	176		95	78.41-121.59			
Copper	66.3	2.0	mg/kg wet	70.0		95	82.14-118			
Lead	63.1	10.0	mg/kg wet	68.1		93	80.62-119.38			
Nickel	79.5	5.0	mg/kg wet	84.0		95	81.55-118.45			
Selenium	66.7	10.0	mg/kg wet	73.0		91	75.48-124.38			
Silver	90.1	1.00	mg/kg wet	93.0		97	61.29-138.71			
Thallium	92.7	25.0	mg/kg wet	77.8		119	75.58-124.42			
Zinc	367	5.0	mg/kg wet	402		91	79.35-120.65			
Batch BF62618 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	0.198	0.033	mg/kg wet	0.200		99	80-120			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch BF62618 - 7471A										
LCS Dup										
Mercury	0.201	0.033	mg/kg wet	0.200		100	80-120	1	20	
Duplicate **Source: 0606383-11**										
Mercury	ND	0.260	mg/kg dry		ND				35	
Duplicate **Source: 0606383-13**										
Mercury	ND	0.264	mg/kg dry		ND				35	
Matrix Spike **Source: 0606383-11**										
Mercury	0.149	0.264	mg/kg dry	1.59	ND	9	75-125			+
Matrix Spike **Source: 0606383-13**										
Mercury	0.172	0.273	mg/kg dry	1.64	ND	10	75-125			+
Matrix Spike Dup **Source: 0606383-11**										
Mercury	0.272	0.273	mg/kg dry	1.64	ND	17	75-125	62	35	+
Matrix Spike Dup **Source: 0606383-13**										
Mercury	0.158	0.278	mg/kg dry	1.67	ND	9	75-125	11	35	+
Reference										
Mercury	1.72	0.333	mg/kg wet	1.77		97	68.36-132.2			
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62614 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,1-Trichloroethane	ND	5.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethene	ND	5.0	ug/Kg wet							
1,1-Dichloropropene	ND	5.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	5.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg wet							
1,2-Dibromoethane	ND	5.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,2-Dichloroethane	ND	5.0	ug/Kg wet							
1,2-Dichloropropane	ND	5.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,3-Dichloropropane	ND	5.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	250	ug/Kg wet							
1-Chlorohexane	ND	5.0	ug/Kg wet							
2,2-Dichloropropane	ND	5.0	ug/Kg wet							
2-Butanone	ND	50.0	ug/Kg wet							
2-Chlorotoluene	ND	5.0	ug/Kg wet							

Metals
Calibration Data

ANALYSIS SEQUENCE

BPG0232

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0232-CAL1	QC		1		6F21081		
BPG0232-CAL2	QC		2		6F24002		
BPG0232-CAL3	QC		3		6F24003		
BPG0232-CAL4	QC		4		6F24004		
BPG0232-ICV1	QC		5		6F24003		
BPG0232-SCV1	QC		6		6F24007		
BPG0232-ICB1	QC		7				
BPG0232-CRL1	QC		8		6F24008		
BPG0232-CRL2	QC		9		6F24009		
BPG0232-CRL3	QC		10		6F24010		
BPG0232-IFA1	QC		11		6F13074		
BPG0232-CCB1	QC		12				
BPG0232-CCV1	QC		13		6F24003		
BPG0232-IFB1	QC		14		6F13075		
BF62403-BLK1	QC		15				
BF62403-BS1	QC		16				
BF62403-BSD1	QC		17				
0606383-15	As: ppm Arsenic 6010	F	18				MACTEC Engineering & Consulting, In
0606383-15	Tl: ppm Thallium 6010	F	18				MACTEC Engineering & Consulting, In
0606383-15	Ag: ppm Silver 6010	F	18				MACTEC Engineering & Consulting, In
0606383-15	Ba: ppm Barium 6010	F	18				MACTEC Engineering & Consulting, In
0606383-15	Sb: ppm Antimony 6010	F	18				MACTEC Engineering & Consulting, In
0606383-15	Be: ppm Beryllium 6010	F	18				MACTEC Engineering & Consulting, In
0606383-15	Cd: ppm Cadmium 6010	F	18				MACTEC Engineering & Consulting, In
0606383-15	Zn: ppm Zinc 6010	F	18				MACTEC Engineering & Consulting, In
0606383-15	Cr: ppm Chromium 6010	F	18				MACTEC Engineering & Consulting, In
0606383-15	Cu: ppm Copper 6010	F	18				MACTEC Engineering & Consulting, In
0606383-15	Pb: ppm Lead 6010	F	18				MACTEC Engineering & Consulting, In
0606383-15	Ni: ppm Nickel 6010	F	18				MACTEC Engineering & Consulting, In
0606383-15	Se: ppm Selenium 6010	F	18				MACTEC Engineering & Consulting, In
BPG0232-CCB2	QC		19				
BPG0232-CCV2	QC		20		6F24003		
BPG0232-IFA2	QC		21		6F13074		

Samples Loaded By Date Data Processed By Date

ANALYSIS SEQUENCE

BPG0232

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0232-IFB2	QC		22		6F13075		

Samples Loaded By Date

Data Processed By Date

-15

ESS Laboratory
ICP Data Review Checklist

SIF: 062406NA
Date Run: 6/24/06
Method: Everything-DV
Y-IS: 3268117.9
Project Number(s): 06340 TX10, 373-09 X10, 378, 382, 383, 387, 395, 396, 397, 403, 407 T/D, 409
SOP NO. 30_6010B

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the daily standard curve consist of a Calibration Blank and the required minimum number of calibration standards and is $R^2 > 0.995$ for all elements?	X		
2. Is the mid-point initial calibration standard reanalyzed immediately after calibration and results within QC limits? (±5% for 200.7, 10% for 6010B)	X		
3. Are interference check standards analyzed at the beginning of each analytical run and within QC limits?	X		
4. Is the ICV from a second source and is its percent within QC limits (±10% and %RPD<5)?	X		
5. Is the CRI standard 20% of the true value?	X		
6. Are the CCVs analyzed at required frequency and all parameters within QC limits? (±10%)	X		
7. Are the CCB standards analyzed at required frequency and at the end of the analytical sequence and are all parameters within QC limits? (<MRL)		X	
8. Is the method blank run at the desired frequency and is its concentration for target analytes less than the MRL?	X		
9. Is the Laboratory Control Sample run at the desired frequency and is the percent recovery within QC limits? (±15% for 200.7, ±20% for 6010B)	X		
10. Is the Matrix Duplicate run at the desired frequency and is the RPD within QC limits? (± 20% for aqueous and + 35% for soil samples/ **All USACE/Navy samples ≤25%)**	X		
11. Is the matrix spike run at the desired frequency and is the percent recovery /RPD within QC limits? (75-125%)		X	
12. Is a Serial Dilution Analysis performed at the desired frequency and within QC limits? (± 10%)		X	
13. Are post-digestion spikes analyzed at the desired frequency and within QC limits? (85-115% for 200.7, 75-125% for 6010B)		X	
14. Are all samples with concentrations greater than the linear dynamic range diluted and reanalyzed?	X		
15. Are all sample IDs and units checked for transcription errors?	X		
16. Are all nonconformances included and noted?	X		
17. Is the correct methodology used for sample prep and analysis?	X		
18. Are all sample holding times met?	X		
19. Did analyst sign/date the appropriate print outs and report sheets?	X		

Comments on any "No" response:
06409-01 on sequence as 06410-01
Last ~~CCV~~ CCBs (SW 6/26/06) out high for Ag, samples are ND. Out due to carryover, not instrument issue.
BF62403 - MS2, SD2, PDS2: Ag (06409) Re-prep 06409-01 1/50 + 0.5/50

Analyst: SW Date: 6/26/06 2nd Level Review: EEM Date: 6/26/06

Page_________ Control 30.0007-0602A

Analytical Sequence

Method : Everything-DV

Seq.	Loc.	Sample ID
1	1	Calib Blank 1
2	2	Calib Std 1
3	3	Calib Std 2
4	4	Calib Std 3
5	3	STD2
6	5	ICV
7	1	ICCB
8	6	CRI1
9	7	CRI2
10	8	CRI3
11	160	ICSA
12	159	ICSAB
13	3	CCV
14	1	ICCB
15	9	0606340-01tclp x10
16	10	0606340-02tclp x10
17	11	BF62307-dup1 x10
18	12	BF62307-ms1 x10
19	13	BF62307-sd1 x50
20	14	BF62307-pds1 x10
21	15	0606373-09 x10
22	16	BF62403-blk1
23	17	BF62403-bs1
24	18	BF62403-bsd1
25	3	CCV
26	1	ICCB
27	19	0606378-01
28	20	0606382-01
29	21	0606383-15
30	22	0606387-02
31	23	0606395-01
32	24	0606396-01
33	25	0606397-01
34	26	0606403-01
35	27	0606407-01
36	28	0606407-02
37	3	CCV
38	1	ICCB
39	29	BF62403-dup1
40	30	BF62403-ms1
41	31	BF62403-sd1 x5
42	32	BF62403-pds1
43	33	0606407-03
44	34	0606407-01dis
45	35	0606407-02dis
46	36	0606407-03dis
47	37	6/26/06 ~~0606410-01~~ 0606409-01
48	38	BF62403-dup2
49	3	CCV
50	1	ICCB-Ag
51	39	BF62403-ms2
52	40	BF62403-sd2 x5
53	41	BF62403-pds2
54	42	060624filt
55	3	CCV
56	1	ICCB-Ag

Ag: 0.005
Al: 0.05
As: 0.01
Ba: 0.01
Be: 0.001
Cd: 0.005
Ca: 0.01
Cu: 0.01
Fe: 0.05
Mn: 0.01
Pb: 0.01
Sb: 0.02
Se: 0.02
Tl: 0.1
Zn: 0.01

Analytical Sequence

Method : Everything-DV

Seq.	Loc.		Sample ID
57	160		ICSA
58	159		ICSAB
59	0		wash

0.5	15.0	122655.1
1.0	15.0	112777.1
1.5	15.0	85170.4
2.0	15.0	58752.1
2.5	15.0	16602.1
3.0	15.0	8810.2
3.5	15.0	9730.7
4.0	15.0	13058.6
4.5	15.0	17564.5
5.0	15.0	21228.6
5.5	15.0	19206.6
6.0	15.0	17817.1
6.5	15.0	12428.8
7.0	15.0	7505.5

6/24/2006 4:30:09 PM aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 125225.9 for Radial viewing

Analysis Begun

Start Time: 6/24/2006 4:31:39 PM
Logged In Analyst: ICP3
Spectrometer Model: Optima 4300 DV, S/N 077N1032302
Plasma On Time: 6/24/2006 3:38:26 PM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\00dailycal.sif
Batch ID: dailycal
Results Data Set: 062406nad
Results Library: Q:\Metals\Results\ICP3\Results\Results.mdb

Method Loaded
Method Name: Everything-DV
IEC File: 122905.iec
Method Description: Everything
Method Last Saved: 6/12/2006 12:12:53 PM
MSF File:

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 6/24/2006 4:31:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Blank 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	506.1	503.7	[0.00]	mg/L	16:33:13
1	Li 670.784†	129.8	129.2	[0.00]	mg/L	16:33:13
1	Na 589.592	-1212.0	-1212.0	[0.00]	mg/L	16:33:13
1	Y 371.029	3315962.0	3315962.0	1.00	mg/L	16:33:27
1	Ag 328.068†	-1922.6	-1913.6	[0.00]	mg/L	16:33:32
1	Al 237.313†	-85.8	-85.4	[0.00]	mg/L	16:33:52
1	As 188.979†	5.8	5.8	[0.00]	mg/L	16:33:52
1	B 182.528†	-5.5	-5.5	[0.00]	mg/L	16:33:52
1	Ba 233.527†	-153.6	-152.9	[0.00]	mg/L	16:33:52
1	Be 313.107†	1845.6	1836.9	[0.00]	mg/L	16:33:32
1	Ca 315.886†	919.6	915.3	[0.00]	mg/L	16:33:32
1	Cd 228.802†	137.1	136.4	[0.00]	mg/L	16:33:52
1	Co 228.616†	-180.6	-179.8	[0.00]	mg/L	16:33:52
1	Cr 267.716†	1251.7	1245.8	[0.00]	mg/L	16:33:32
1	Cu 324.752†	4489.1	4468.0	[0.00]	mg/L	16:33:32
1	Fe 234.349†	1362.6	1356.2	[0.00]	mg/L	16:33:52
1	Fe 238.204†	1167.2	1161.7	[0.00]	mg/L	16:33:52
1	Mg 279.077†	568.9	566.2	[0.00]	mg/L	16:33:32
1	Mn 257.610†	2475.0	2463.4	[0.00]	mg/L	16:33:32
1	Mo 202.031†	20.7	20.6	[0.00]	mg/L	16:33:52
1	Ni 231.604†	44.8	44.6	[0.00]	mg/L	16:33:52
1	P 214.914†	18.4	18.3	[0.00]	mg/L	16:33:52
1	Pb 220.353†	-169.2	-168.4	[0.00]	mg/L	16:33:52
1	Sb 206.836†	-7.5	-7.5	[0.00]	mg/L	16:33:52

Analysis Begun

Start Time: 6/24/2006 5:23:47 PM
Plasma On Time: 6/24/2006 3:38:26 PM
Logged In Analyst: ICP3
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N1032302Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\062406na.sif
Batch ID: dailycal
Results Data Set: 062406nad
Results Library: Q:\Metals\Results\ICP3\Results\Results.mdb

Sequence No.: 1
Autosampler Location: 1
Sample ID: Calib Blank 1
Date Collected: 6/24/2006 5:23:47 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Replicate Data: Calib Blank 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	519.9	518.6	[0.00]	mg/L	17:25:22
1	Li 670.784†	171.3	170.9	[0.00]	mg/L	17:25:22
1	Na 589.592	-1167.5	-1167.5	[0.00]	mg/L	17:25:22
1	Y 371.029	3275979.9	3275979.9	1.00	mg/L	17:25:36
1	Ag 328.068†	-1859.6	-1855.1	[0.00]	mg/L	17:25:41
1	Al 237.313†	-45.5	-45.4	[0.00]	mg/L	17:26:01
1	As 188.979†	3.5	3.5	[0.00]	mg/L	17:26:01
1	B 182.528†	-1.8	-1.8	[0.00]	mg/L	17:26:01
1	Ba 233.527†	-171.3	-170.9	[0.00]	mg/L	17:26:01
1	Be 313.107†	2051.6	2046.6	[0.00]	mg/L	17:25:41
1	Ca 315.886†	1054.3	1051.7	[0.00]	mg/L	17:25:41
1	Cd 228.802†	133.0	132.7	[0.00]	mg/L	17:26:01
1	Co 228.616†	-149.8	-149.4	[0.00]	mg/L	17:26:01
1	Cr 267.716†	1232.5	1229.6	[0.00]	mg/L	17:25:41
1	Cu 324.752†	3126.1	3118.6	[0.00]	mg/L	17:25:41
1	Fe 234.349†	1355.4	1352.1	[0.00]	mg/L	17:26:01
1	Fe 238.204†	1270.1	1267.1	[0.00]	mg/L	17:26:01
1	Mg 279.077†	574.1	572.7	[0.00]	mg/L	17:25:41
1	Mn 257.610†	1894.7	1890.1	[0.00]	mg/L	17:25:41
1	Mo 202.031†	33.6	33.5	[0.00]	mg/L	17:26:01
1	Ni 231.604†	37.7	37.6	[0.00]	mg/L	17:26:01
1	P 214.914†	19.2	19.1	[0.00]	mg/L	17:26:01
1	Pb 220.353†	-176.9	-176.4	[0.00]	mg/L	17:26:01
1	Sb 206.836†	10.8	10.8	[0.00]	mg/L	17:26:01
1	Se 196.026†	-9.7	-9.7	[0.00]	mg/L	17:26:01
1	Sn 189.927†	140.8	140.5	[0.00]	mg/L	17:26:01
1	Sr 407.771†	6780.7	6764.5	[0.00]	mg/L	17:25:36
1	Ti 337.279†	-2223.3	-2218.0	[0.00]	mg/L	17:25:41
1	Tl 190.801†	4.3	4.3	[0.00]	mg/L	17:26:01
1	V 292.402†	-1913.8	-1909.2	[0.00]	mg/L	17:25:41
1	Zn 213.857†	661.2	659.6	[0.00]	mg/L	17:26:01
2	K 766.490†	586.0	587.4	[0.00]	mg/L	17:25:28
2	Li 670.784†	170.5	170.9	[0.00]	mg/L	17:25:28
2	Na 589.592	-1183.5	-1183.5	[0.00]	mg/L	17:25:28
2	Y 371.029	3260255.9	3260255.9	0.998	mg/L	17:26:07
2	Ag 328.068†	-1725.8	-1729.9	[0.00]	mg/L	17:26:12
2	Al 237.313†	-61.8	-61.9	[0.00]	mg/L	17:26:33
2	As 188.979†	4.5	4.5	[0.00]	mg/L	17:26:33
2	B 182.528†	-6.6	-6.6	[0.00]	mg/L	17:26:33
2	Ba 233.527†	-179.9	-180.3	[0.00]	mg/L	17:26:33
2	Be 313.107†	1879.7	1884.2	[0.00]	mg/L	17:26:12
2	Ca 315.886†	1049.5	1052.0	[0.00]	mg/L	17:26:12
2	Cd 228.802†	119.3	119.6	[0.00]	mg/L	17:26:33
2	Co 228.616†	-158.7	-159.1	[0.00]	mg/L	17:26:33
2	Cr 267.716†	1163.9	1166.7	[0.00]	mg/L	17:26:12
2	Cu 324.752†	3180.7	3188.4	[0.00]	mg/L	17:26:12
2	Fe 234.349†	1381.1	1384.4	[0.00]	mg/L	17:26:33
2	Fe 238.204†	1219.1	1222.0	[0.00]	mg/L	17:26:33

2	Mg 279.077†	632.3	633.9	[0.00] mg/L	17:26:12
2	Mn 257.610†	1890.4	1895.0	[0.00] mg/L	17:26:12
2	Mo 202.031†	25.0	25.0	[0.00] mg/L	17:26:33
2	Ni 231.604†	48.3	48.4	[0.00] mg/L	17:26:33
2	P 214.914†	27.8	27.9	[0.00] mg/L	17:26:33
2	Pb 220.353†	-174.2	-174.6	[0.00] mg/L	17:26:33
2	Sb 206.836†	4.7	4.7	[0.00] mg/L	17:26:33
2	Se 196.026†	-10.8	-10.9	[0.00] mg/L	17:26:33
2	Sn 189.927†	137.0	137.3	[0.00] mg/L	17:26:33
2	Sr 407.771†	6906.5	6923.2	[0.00] mg/L	17:26:07
2	Ti 337.279†	-2333.4	-2339.0	[0.00] mg/L	17:26:12
2	Tl 190.801†	-2.5	-2.5	[0.00] mg/L	17:26:33
2	V 292.402†	-1943.7	-1948.4	[0.00] mg/L	17:26:12
2	Zn 213.857†	669.5	671.1	[0.00] mg/L	17:26:33

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3268117.9	11118.52	0.34%	1.00	mg/L
Ag 328.068†	-1792.5	88.50	4.94%	[0.00]	mg/L
Al 237.313†	-53.6	11.71	21.82%	[0.00]	mg/L
As 188.979†	4.0	0.72	18.02%	[0.00]	mg/L
B 182.528†	-4.2	3.40	80.61%	[0.00]	mg/L
Ba 233.527†	-175.6	6.65	3.78%	[0.00]	mg/L
Be 313.107†	1965.4	114.86	5.84%	[0.00]	mg/L
Ca 315.886†	1051.9	0.19	0.02%	[0.00]	mg/L
Cd 228.802†	126.2	9.25	7.33%	[0.00]	mg/L
Co 228.616†	-154.2	6.85	4.44%	[0.00]	mg/L
Cr 267.716†	1198.1	44.44	3.71%	[0.00]	mg/L
Cu 324.752†	3153.5	49.32	1.56%	[0.00]	mg/L
Fe 234.349†	1368.3	22.83	1.67%	[0.00]	mg/L
Fe 238.204†	1244.6	31.88	2.56%	[0.00]	mg/L
K 766.490†	553.0	48.62	8.79%	[0.00]	mg/L
Li 670.784†	170.9	0.02	0.01%	[0.00]	mg/L
Mg 279.077†	603.3	43.22	7.16%	[0.00]	mg/L
Mn 257.610†	1892.5	3.43	0.18%	[0.00]	mg/L
Mo 202.031†	29.3	6.02	20.58%	[0.00]	mg/L
Na 589.592	-1175.5	11.29	0.96%	[0.00]	mg/L
Ni 231.604†	43.0	7.66	17.82%	[0.00]	mg/L
P 214.914†	23.5	6.20	26.36%	[0.00]	mg/L
Pb 220.353†	-175.5	1.27	0.72%	[0.00]	mg/L
Sb 206.836†	7.8	4.32	55.71%	[0.00]	mg/L
Se 196.026†	-10.3	0.82	7.96%	[0.00]	mg/L
Sn 189.927†	138.9	2.23	1.61%	[0.00]	mg/L
Sr 407.771†	6843.8	112.23	1.64%	[0.00]	mg/L
Ti 337.279†	-2278.5	85.58	3.76%	[0.00]	mg/L
Tl 190.801†	0.9	4.81	555.83%	[0.00]	mg/L
V 292.402†	-1928.8	27.74	1.44%	[0.00]	mg/L
Zn 213.857†	665.4	8.08	1.22%	[0.00]	mg/L

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Sequence No.: 2
Sample ID: Calib Std 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 6/24/2006 5:28:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	9686.1	9150.3	[5.0000]	mg/L	17:29:46
1	Li 670.784†	3699.2	3534.9	[0.1]	mg/L	17:29:46
1	Na 589.592	41081.5	42257.0	[5.0000]	mg/L	17:29:46
1	Y 371.029	3262300.1	3262300.1	0.998	mg/L	17:29:59
1	Ag 328.068†	12036.0	13850.0	[0.05]	mg/L	17:30:05
1	Al 237.313†	4300.7	4362.0	[0.5]	mg/L	17:30:05
1	As 188.979†	82.9	79.1	[0.1000]	mg/L	17:30:25
1	B 182.528†	38.8	43.1	[0.1000]	mg/L	17:30:25
1	Ba 233.527†	11883.1	12079.9	[0.1000]	mg/L	17:30:05
1	Be 313.107†	49216.4	47338.7	[0.0100]	mg/L	17:30:05

1	Ca 315.886†	147663.6	146875.0	[1.0000]	mg/L	17:29:59
1	Cd 228.802†	2144.5	2022.2	[0.0500]	mg/L	17:30:25
1	Co 228.616†	3694.9	3855.8	[0.1000]	mg/L	17:30:25
1	Cr 267.716†	16397.4	15228.5	[0.1000]	mg/L	17:30:05
1	Cu 324.752†	29946.6	26846.5	[0.1000]	mg/L	17:30:05
1	Fe 234.349†	27496.2	26177.0	[0.5]	mg/L	17:30:05
1	Fe 238.204†	60803.0	59666.9	[0.5]	mg/L	17:30:05
1	Mg 279.077†	26044.1	25487.2	[1.0000]	mg/L	17:30:05
1	Mn 257.610†	95968.8	94247.4	[0.1000]	mg/L	17:30:05
1	Mo 202.031†	1483.0	1456.4	[0.1000]	mg/L	17:30:25
1	Ni 231.604†	3364.6	3327.7	[0.1000]	mg/L	17:30:05
1	P 214.914†	1391.7	1370.7	[1]	mg/L	17:30:25
1	Pb 220.353†	716.0	892.8	[0.1000]	mg/L	17:30:25
1	Sb 206.836†	201.5	194.1	[0.1000]	mg/L	17:30:25
1	Se 196.026†	160.6	171.2	[0.2000]	mg/L	17:30:25
1	Sn 189.927†	559.7	421.8	[0.1000]	mg/L	17:30:25
1	Sr 407.771†	237204.8	230784.0	[0.0100]	mg/L	17:29:59
1	Ti 337.279†	68791.5	71192.7	[0.1000]	mg/L	17:30:05
1	Tl 190.801†	97.1	96.4	[0.1000]	mg/L	17:30:25
1	V 292.402†	22664.8	24634.0	[0.1000]	mg/L	17:30:05
1	Zn 213.857†	8618.2	7968.2	[0.1000]	mg/L	17:30:05
2	K 766.490†	9722.7	9221.4	[5.0000]	mg/L	17:29:51
2	Li 670.784†	3643.7	3492.2	[0.1]	mg/L	17:29:51
2	Na 589.592	41217.3	42392.7	[5.0000]	mg/L	17:29:51
2	Y 371.029	3250814.2	3250814.2	0.995	mg/L	17:30:31
2	Ag 328.068†	12112.6	13969.6	[0.05]	mg/L	17:30:36
2	Al 237.313†	4309.1	4385.7	[0.5]	mg/L	17:30:36
2	As 188.979†	81.6	78.0	[0.1000]	mg/L	17:30:57
2	B 182.528†	44.9	49.4	[0.1000]	mg/L	17:30:57
2	Ba 233.527†	11898.1	12137.1	[0.1000]	mg/L	17:30:36
2	Be 313.107†	49525.8	47824.0	[0.0100]	mg/L	17:30:36
2	Ca 315.886†	147004.5	146735.2	[1.0000]	mg/L	17:30:31
2	Cd 228.802†	2136.9	2022.1	[0.0500]	mg/L	17:30:57
2	Co 228.616†	3685.3	3859.2	[0.1000]	mg/L	17:30:57
2	Cr 267.716†	16594.2	15484.4	[0.1000]	mg/L	17:30:36
2	Cu 324.752†	30121.8	27128.6	[0.1000]	mg/L	17:30:36
2	Fe 234.349†	27601.2	26379.8	[0.5]	mg/L	17:30:36
2	Fe 238.204†	61023.7	60103.9	[0.5]	mg/L	17:30:36
2	Mg 279.077†	26210.6	25746.8	[1.0000]	mg/L	17:30:36
2	Mn 257.610†	96439.5	95060.3	[0.1000]	mg/L	17:30:36
2	Mo 202.031†	1475.9	1454.5	[0.1000]	mg/L	17:30:57
2	Ni 231.604†	3393.0	3368.1	[0.1000]	mg/L	17:30:36
2	P 214.914†	1404.5	1388.5	[1]	mg/L	17:30:57
2	Pb 220.353†	705.4	884.7	[0.1000]	mg/L	17:30:57
2	Sb 206.836†	211.8	205.2	[0.1000]	mg/L	17:30:57
2	Se 196.026†	154.7	165.8	[0.2000]	mg/L	17:30:57
2	Sn 189.927†	554.3	418.4	[0.1000]	mg/L	17:30:57
2	Sr 407.771†	235983.1	230395.3	[0.0100]	mg/L	17:30:31
2	Ti 337.279†	69231.2	71878.2	[0.1000]	mg/L	17:30:36
2	Tl 190.801†	95.2	94.8	[0.1000]	mg/L	17:30:57
2	V 292.402†	22739.2	24789.0	[0.1000]	mg/L	17:30:36
2	Zn 213.857†	8675.0	8055.8	[0.1000]	mg/L	17:30:36

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3256557.2	8121.77	0.25%	0.996	mg/L
Ag 328.068†	13909.8	84.60	0.61%	[0.05]	mg/L
Al 237.313†	4373.9	16.79	0.38%	[0.5]	mg/L
As 188.979†	78.5	0.73	0.92%	[0.1000]	mg/L
B 182.528†	46.3	4.42	9.55%	[0.1000]	mg/L
Ba 233.527†	12108.5	40.45	0.33%	[0.1000]	mg/L
Be 313.107†	47581.4	343.13	0.72%	[0.0100]	mg/L
Ca 315.886†	146805.1	98.90	0.07%	[1.0000]	mg/L
Cd 228.802†	2022.1	0.07	0.00%	[0.0500]	mg/L
Co 228.616†	3857.5	2.40	0.06%	[0.1000]	mg/L
Cr 267.716†	15356.4	180.96	1.18%	[0.1000]	mg/L
Cu 324.752†	26987.6	199.48	0.74%	[0.1000]	mg/L
Fe 234.349†	26278.4	143.43	0.55%	[0.5]	mg/L
Fe 238.204†	59885.4	309.02	0.52%	[0.5]	mg/L
K 766.490†	9185.9	50.26	0.55%	[5.0000]	mg/L

Li 670.784†	3513.6	30.17	0.86%	[0.1]	mg/L
Mg 279.077†	25617.0	183.60	0.72%	[1.0000]	mg/L
Mn 257.610†	94653.8	574.75	0.61%	[0.1000]	mg/L
Mo 202.031†	1455.4	1.38	0.09%	[0.1000]	mg/L
Na 589.592	42324.9	95.99	0.23%	[5.0000]	mg/L
Ni 231.604†	3347.9	28.61	0.85%	[0.1000]	mg/L
P 214.914†	1379.6	12.57	0.91%	[1]	mg/L
Pb 220.353†	888.7	5.78	0.65%	[0.1000]	mg/L
Sb 206.836†	199.6	7.88	3.95%	[0.1000]	mg/L
Se 196.026†	168.5	3.80	2.25%	[0.2000]	mg/L
Sn 189.927†	420.1	2.44	0.58%	[0.1000]	mg/L
Sr 407.771†	230589.7	274.84	0.12%	[0.0100]	mg/L
Ti 337.279†	71535.4	484.72	0.68%	[0.1000]	mg/L
Tl 190.801†	95.6	1.15	1.20%	[0.1000]	mg/L
V 292.402†	24711.5	109.62	0.44%	[0.1000]	mg/L
Zn 213.857†	8012.0	61.97	0.77%	[0.1000]	mg/L

Sequence No.: 3
Sample ID: Calib Std 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/24/2006 5:32:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	45721.9	45910.2	[25.0000]	mg/L	17:34:09
1	Li 670.784†	17322.8	17432.8	[0.5]	mg/L	17:34:09
1	Na 589.592	199745.3	200920.8	[25.000]	mg/L	17:34:09
1	Y 371.029	3215976.1	3215976.1	0.984	mg/L	17:34:23
1	Ag 328.068†	66158.9	69024.1	[0.25]	mg/L	17:34:29
1	Al 237.313†	21157.1	21553.8	[2.5]	mg/L	17:34:29
1	As 188.979†	388.6	390.9	[0.5000]	mg/L	17:34:49
1	B 182.528†	229.0	236.9	[0.5000]	mg/L	17:34:49
1	Ba 233.527†	58525.2	59649.8	[0.5000]	mg/L	17:34:29
1	Be 313.107†	231258.7	233042.8	[0.0500]	mg/L	17:34:23
1	Ca 315.886†	713059.9	723569.1	[5.0000]	mg/L	17:34:23
1	Cd 228.802†	9895.3	9929.6	[0.2500]	mg/L	17:34:49
1	Co 228.616†	18263.2	18713.6	[0.5000]	mg/L	17:34:29
1	Cr 267.716†	75137.8	75157.9	[0.5000]	mg/L	17:34:29
1	Cu 324.752†	132274.9	131266.0	[0.5000]	mg/L	17:34:29
1	Fe 234.349†	127898.3	128603.6	[2.5]	mg/L	17:34:29
1	Fe 238.204†	288272.2	291701.5	[2.5]	mg/L	17:34:29
1	Mg 279.077†	123933.9	125340.0	[5.0000]	mg/L	17:34:29
1	Mn 257.610†	446041.4	451380.7	[0.5000]	mg/L	17:34:23
1	Mo 202.031†	7079.9	7165.5	[0.5000]	mg/L	17:34:49
1	Ni 231.604†	16056.5	16273.9	[0.5000]	mg/L	17:34:29
1	P 214.914†	6791.0	6877.6	[5]	mg/L	17:34:49
1	Pb 220.353†	4056.1	4297.4	[0.5000]	mg/L	17:34:49
1	Sb 206.836†	994.7	1003.0	[0.5000]	mg/L	17:34:49
1	Se 196.026†	802.9	826.2	[1.0000]	mg/L	17:34:49
1	Sn 189.927†	1996.7	1890.2	[0.5000]	mg/L	17:34:49
1	Sr 407.771†	1100698.6	1111700.8	[0.0500]	mg/L	17:34:23
1	Ti 337.279†	348599.0	356529.4	[0.5000]	mg/L	17:34:29
1	Tl 190.801†	531.4	539.2	[0.5000]	mg/L	17:34:49
1	V 292.402†	118842.2	122697.8	[0.5000]	mg/L	17:34:29
1	Zn 213.857†	39267.6	39238.9	[0.5000]	mg/L	17:34:29
2	K 766.490†	45647.3	45484.6	[25.0000]	mg/L	17:34:14
2	Li 670.784†	17252.8	17229.4	[0.5]	mg/L	17:34:14
2	Na 589.592	199343.8	200519.3	[25.000]	mg/L	17:34:14
2	Y 371.029	3240409.5	3240409.5	0.992	mg/L	17:34:56
2	Ag 328.068†	66062.3	68419.7	[0.25]	mg/L	17:35:01
2	Al 237.313†	20979.6	21212.6	[2.5]	mg/L	17:35:01
2	As 188.979†	390.8	390.2	[0.5000]	mg/L	17:35:22
2	B 182.528†	229.3	235.4	[0.5000]	mg/L	17:35:22
2	Ba 233.527†	57995.3	58666.8	[0.5000]	mg/L	17:35:01
2	Be 313.107†	232940.5	232966.9	[0.0500]	mg/L	17:34:56
2	Ca 315.886†	718550.2	723642.5	[5.0000]	mg/L	17:34:56
2	Cd 228.802†	9985.7	9944.9	[0.2500]	mg/L	17:35:22
2	Co 228.616†	18102.7	18411.7	[0.5000]	mg/L	17:35:01

2	Cr 267.716†	74559.6	73999.0	[0.5000]	mg/L	17:35:01
2	Cu 324.752†	132199.1	130176.0	[0.5000]	mg/L	17:35:01
2	Fe 234.349†	126426.8	126139.6	[2.5]	mg/L	17:35:01
2	Fe 238.204†	285592.0	286789.5	[2.5]	mg/L	17:35:01
2	Mg 279.077†	122944.2	123392.2	[5.0000]	mg/L	17:35:01
2	Mn 257.610†	448778.0	450722.9	[0.5000]	mg/L	17:34:56
2	Mo 202.031†	7144.6	7176.5	[0.5000]	mg/L	17:35:22
2	Ni 231.604†	15919.4	16012.5	[0.5000]	mg/L	17:35:01
2	P 214.914†	6842.3	6877.3	[5]	mg/L	17:35:22
2	Pb 220.353†	4099.0	4309.6	[0.5000]	mg/L	17:35:22
2	Sb 206.836†	1010.5	1011.4	[0.5000]	mg/L	17:35:22
2	Se 196.026†	820.4	837.7	[1.0000]	mg/L	17:35:22
2	Sn 189.927†	2002.3	1880.6	[0.5000]	mg/L	17:35:22
2	Sr 407.771†	1107568.5	1110195.4	[0.0500]	mg/L	17:34:56
2	Ti 337.279†	346627.2	351869.6	[0.5000]	mg/L	17:35:01
2	Tl 190.801†	553.1	557.0	[0.5000]	mg/L	17:35:22
2	V 292.402†	117986.5	120924.2	[0.5000]	mg/L	17:35:01
2	Zn 213.857†	38827.6	38494.3	[0.5000]	mg/L	17:35:01

Mean Data: Calib Std 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3228192.8	17276.96	0.54%	0.988	mg/L
Ag 328.068†	68721.9	427.36	0.62%	[0.25]	mg/L
Al 237.313†	21383.2	241.21	1.13%	[2.5]	mg/L
As 188.979†	390.5	0.51	0.13%	[0.5000]	mg/L
B 182.528†	236.2	1.04	0.44%	[0.5000]	mg/L
Ba 233.527†	59158.3	695.03	1.17%	[0.5000]	mg/L
Be 313.107†	233004.8	53.65	0.02%	[0.0500]	mg/L
Ca 315.886†	723605.8	51.92	0.01%	[5.0000]	mg/L
Cd 228.802†	9937.3	10.88	0.11%	[0.2500]	mg/L
Co 228.616†	18562.6	213.41	1.15%	[0.5000]	mg/L
Cr 267.716†	74578.5	819.48	1.10%	[0.5000]	mg/L
Cu 324.752†	130721.0	770.77	0.59%	[0.5000]	mg/L
Fe 234.349†	127371.6	1742.34	1.37%	[2.5]	mg/L
Fe 238.204†	289245.5	3473.31	1.20%	[2.5]	mg/L
K 766.490†	45697.4	300.91	0.66%	[25.0000]	mg/L
Li 670.784†	17331.1	143.81	0.83%	[0.5]	mg/L
Mg 279.077†	124366.1	1377.30	1.11%	[5.0000]	mg/L
Mn 257.610†	451051.8	465.13	0.10%	[0.5000]	mg/L
Mo 202.031†	7171.0	7.77	0.11%	[0.5000]	mg/L
Na 589.592	200720.1	283.92	0.14%	[25.000]	mg/L
Ni 231.604†	16143.2	184.80	1.14%	[0.5000]	mg/L
P 214.914†	6877.4	0.22	0.00%	[5]	mg/L
Pb 220.353†	4303.5	8.65	0.20%	[0.5000]	mg/L
Sb 206.836†	1007.2	5.91	0.59%	[0.5000]	mg/L
Se 196.026†	831.9	8.12	0.98%	[1.0000]	mg/L
Sn 189.927†	1885.4	6.82	0.36%	[0.5000]	mg/L
Sr 407.771†	1110948.1	1064.46	0.10%	[0.0500]	mg/L
Ti 337.279†	354199.5	3294.95	0.93%	[0.5000]	mg/L
Tl 190.801†	548.1	12.62	2.30%	[0.5000]	mg/L
V 292.402†	121811.0	1254.11	1.03%	[0.5000]	mg/L
Zn 213.857†	38866.6	526.52	1.35%	[0.5000]	mg/L

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Sequence No.: 4
Sample ID: Calib Std 3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/24/2006 5:37:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 3

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	90523.6	92284.3	[50.0000]	mg/L	17:38:35
1	Li 670.784†	33959.2	34656.3	[1]	mg/L	17:38:35
1	Na 589.592	398033.3	399208.8	[50.000]	mg/L	17:38:35
1	Y 371.029	3186668.6	3186668.6	0.975	mg/L	17:38:52
1	Ag 328.068†	133843.2	139056.7	[0.5]	mg/L	17:38:58
1	Al 237.313†	42045.1	43173.4	[5]	mg/L	17:38:58

1	As 188.979†	762.0	777.5	[1.0000]	mg/L	17:39:18
1	B 182.528†	461.8	477.8	[1.0000]	mg/L	17:39:18
1	Ba 233.527†	114827.8	117938.3	[1.0000]	mg/L	17:38:58
1	Be 313.107†	464383.3	474287.3	[0.1000]	mg/L	17:38:58
1	Ca 315.886†	1411772.7	1446804.9	[10.0000]	mg/L	17:38:52
1	Cd 228.802†	19505.7	19878.1	[0.5000]	mg/L	17:39:18
1	Co 228.616†	36166.1	37244.7	[1.0000]	mg/L	17:39:18
1	Cr 267.716†	146885.9	149442.0	[1.0000]	mg/L	17:38:58
1	Cu 324.752†	259702.9	263187.3	[1.0000]	mg/L	17:38:58
1	Fe 234.349†	249812.0	254828.7	[5.0]	mg/L	17:38:58
1	Fe 238.204†	562250.6	575376.8	[5.0]	mg/L	17:38:58
1	Mg 279.077†	242073.7	247657.7	[10.0000]	mg/L	17:38:58
1	Mn 257.610†	879661.3	900252.4	[1.0000]	mg/L	17:38:52
1	Mo 202.031†	14034.2	14363.6	[1.0000]	mg/L	17:39:18
1	Ni 231.604†	31313.1	32070.4	[1.0000]	mg/L	17:38:58
1	P 214.914†	13585.2	13908.9	[10]	mg/L	17:39:18
1	Pb 220.353†	8205.5	8590.7	[1.0000]	mg/L	17:39:18
1	Sb 206.836†	1970.6	2013.2	[1.0000]	mg/L	17:39:18
1	Se 196.026†	1612.4	1663.9	[2.0000]	mg/L	17:39:18
1	Sn 189.927†	3745.9	3702.7	[1.0000]	mg/L	17:39:18
1	Sr 407.771†	2162828.1	2211264.8	[0.1000]	mg/L	17:38:52
1	Ti 337.279†	693921.7	713936.4	[1.0000]	mg/L	17:38:58
1	Tl 190.801†	1205.7	1235.7	[1.0000]	mg/L	17:39:18
1	V 292.402†	237001.2	244987.6	[1.0000]	mg/L	17:38:58
1	Zn 213.857†	76309.9	77594.9	[1.0000]	mg/L	17:38:58
2	K 766.490†	91089.0	93321.1	[50.0000]	mg/L	17:38:41
2	Li 670.784†	34339.9	35219.0	[1]	mg/L	17:38:41
2	Na 589.592	399062.2	400237.7	[50.000]	mg/L	17:38:41
2	Y 371.029	3171157.9	3171157.9	0.970	mg/L	17:39:26
2	Ag 328.068†	131800.7	137623.1	[0.5]	mg/L	17:39:32
2	Al 237.313†	41944.4	43280.5	[5]	mg/L	17:39:32
2	As 188.979†	762.6	781.9	[1.0000]	mg/L	17:39:52
2	B 182.528†	458.3	476.6	[1.0000]	mg/L	17:39:52
2	Ba 233.527†	114434.3	118108.8	[1.0000]	mg/L	17:39:32
2	Be 313.107†	460606.6	472724.5	[0.1000]	mg/L	17:39:32
2	Ca 315.886†	1403446.0	1445305.3	[10.0000]	mg/L	17:39:26
2	Cd 228.802†	19561.0	20033.0	[0.5000]	mg/L	17:39:52
2	Co 228.616†	36209.4	37470.8	[1.0000]	mg/L	17:39:52
2	Cr 267.716†	146011.1	149277.3	[1.0000]	mg/L	17:39:32
2	Cu 324.752†	256580.5	261272.1	[1.0000]	mg/L	17:39:32
2	Fe 234.349†	248172.5	254392.2	[5.0]	mg/L	17:39:32
2	Fe 238.204†	560363.1	576252.0	[5.0]	mg/L	17:39:32
2	Mg 279.077†	240549.6	247301.3	[10.0000]	mg/L	17:39:32
2	Mn 257.610†	874482.9	899328.2	[1.0000]	mg/L	17:39:26
2	Mo 202.031†	14065.1	14465.9	[1.0000]	mg/L	17:39:52
2	Ni 231.604†	30903.3	31805.2	[1.0000]	mg/L	17:39:32
2	P 214.914†	13597.9	13990.2	[10]	mg/L	17:39:52
2	Pb 220.353†	8186.3	8612.1	[1.0000]	mg/L	17:39:52
2	Sb 206.836†	1975.1	2027.7	[1.0000]	mg/L	17:39:52
2	Se 196.026†	1614.1	1673.8	[2.0000]	mg/L	17:39:52
2	Sn 189.927†	3737.3	3712.7	[1.0000]	mg/L	17:39:52
2	Sr 407.771†	2155876.9	2214950.3	[0.1000]	mg/L	17:39:26
2	Ti 337.279†	690280.4	713664.7	[1.0000]	mg/L	17:39:32
2	Tl 190.801†	1217.2	1253.5	[1.0000]	mg/L	17:39:52
2	V 292.402†	235964.2	245107.7	[1.0000]	mg/L	17:39:32
2	Zn 213.857†	75989.6	77647.6	[1.0000]	mg/L	17:39:32

Mean Data: Calib Std 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3178913.2	10967.75	0.35%	0.973	mg/L
Ag 328.068†	138339.9	1013.73	0.73%	[0.5]	mg/L
Al 237.313†	43227.0	75.76	0.18%	[5]	mg/L
As 188.979†	779.7	3.09	0.40%	[1.0000]	mg/L
B 182.528†	477.2	0.88	0.18%	[1.0000]	mg/L
Ba 233.527†	118023.6	120.57	0.10%	[1.0000]	mg/L
Be 313.107†	473505.9	1105.01	0.23%	[0.1000]	mg/L
Ca 315.886†	1446055.1	1060.40	0.07%	[10.0000]	mg/L
Cd 228.802†	19955.5	109.50	0.55%	[0.5000]	mg/L
Co 228.616†	37357.8	159.84	0.43%	[1.0000]	mg/L
Cr 267.716†	149359.7	116.46	0.08%	[1.0000]	mg/L

Cu 324.752†	262229.7	1354.24	0.52%	[1.0000]	mg/L
Fe 234.349†	254610.5	308.64	0.12%	[5.0]	mg/L
Fe 238.204†	575814.4	618.82	0.11%	[5.0]	mg/L
K 766.490†	92802.7	733.09	0.79%	[50.0000]	mg/L
Li 670.784†	34937.7	397.88	1.14%	[1]	mg/L
Mg 279.077†	247479.5	252.02	0.10%	[10.0000]	mg/L
Mn 257.610†	899790.3	653.46	0.07%	[1.0000]	mg/L
Mo 202.031†	14414.7	72.28	0.50%	[1.0000]	mg/L
Na 589.592	399723.2	727.56	0.18%	[50.000]	mg/L
Ni 231.604†	31937.8	187.54	0.59%	[1.0000]	mg/L
P 214.914†	13949.6	57.46	0.41%	[10]	mg/L
Pb 220.353†	8601.4	15.16	0.18%	[1.0000]	mg/L
Sb 206.836†	2020.4	10.25	0.51%	[1.0000]	mg/L
Se 196.026†	1668.9	6.97	0.42%	[2.0000]	mg/L
Sn 189.927†	3707.7	7.06	0.19%	[1.0000]	mg/L
Sr 407.771†	2213107.6	2606.04	0.12%	[0.1000]	mg/L
Ti 337.279†	713800.5	192.18	0.03%	[1.0000]	mg/L
Tl 190.801†	1244.6	12.60	1.01%	[1.0000]	mg/L
V 292.402†	245047.7	84.93	0.03%	[1.0000]	mg/L
Zn 213.857†	77621.3	37.26	0.05%	[1.0000]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin, Calc Int	-49.5	276500	0.00000	0.999993	
Al 237.313	3	Lin, Calc Int	-20.0	8633	0.00000	0.999980	
As 188.979	3	Lin, Calc Int	0.4	779.6	0.00000	1.000000	
B 182.528	3	Lin, Calc Int	-1.1	477.5	0.00000	0.999985	
Ba 233.527	3	Lin, Calc Int	163.0	117900	0.00000	0.999997	
Be 313.107	3	Lin, Calc Int	-592.9	4728000	0.00000	0.999961	
Ca 315.886	3	Lin, Calc Int	1082.9	144500	0.00000	0.999999	
Cd 228.802	3	Lin, Calc Int	4.3	39870	0.00000	0.999996	
Co 228.616	3	Lin, Calc Int	32.4	37280	0.00000	0.999986	
Cr 267.716	3	Lin, Calc Int	167.7	149100	0.00000	0.999995	
Cu 324.752	3	Lin, Calc Int	266.1	261800	0.00000	0.999993	
Fe 234.349	3	Lin, Calc Int	374.9	50850	0.00000	0.999995	
Fe 238.204	3	Lin, Calc Int	1270.2	115000	0.00000	0.999992	
K 766.490	3	Lin, Calc Int	-172.4	1855	0.00000	0.999968	
Li 670.784	3	Lin, Calc Int	-16.8	34910	0.00000	0.999990	
Mg 279.077	3	Lin, Calc Int	501.7	24720	0.00000	0.999993	
Mn 257.610	3	Lin, Calc Int	2288.1	897700	0.00000	0.999988	
Mo 202.031	3	Lin, Calc Int	-0.6	14400	0.00000	0.999995	
Na 589.592	3	Lin, Calc Int	1202.7	7974	0.00000	0.999984	
Ni 231.604	3	Lin, Calc Int	100.7	31890	0.00000	0.999980	
P 214.914	3	Lin, Calc Int	-24.9	1394	0.00000	0.999973	
Pb 220.353	3	Lin, Calc Int	13.2	8588	0.00000	0.999995	
Sb 206.836	3	Lin, Calc Int	-1.6	2021	0.00000	0.999999	
Se 196.026	3	Lin, Calc Int	0.3	833.8	0.00000	0.999998	
Sn 189.927	3	Lin, Calc Int	27.7	3689	0.00000	0.999907	
Sr 407.771	3	Lin, Calc Int	4930.7	22090000	0.00000	0.999992	
Ti 337.279	3	Lin, Calc Int	-432.0	713300	0.00000	0.999991	
Tl 190.801	3	Lin, Calc Int	-26.6	1247	0.00000	0.998095	
V 292.402	3	Lin, Calc Int	-40.5	244800	0.00000	0.999994	
Zn 213.857	3	Lin, Calc Int	121.2	77510	0.00000	0.999995	

Sequence No.: 5
Sample ID: STD2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/24/2006 5:41:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: STD2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	45504.6	46127.5	24.96	mg/L	24.96	mg/L	17:43:07
1	Li 670.784†	17313.8	17590.3	0.5044	mg/L	0.5044	mg/L	17:43:07
1	Na 589.592	199482.3	200657.8	25.01	mg/L	25.01	mg/L	17:43:07
1	Y 371.029	3185789.1	3185789.1	0.975	mg/L			17:43:22
1	Ag 328.068†	66232.2	69736.3	0.2529	mg/L	0.2529	mg/L	17:43:27

1	Al 237.313†	21139.2	21739.1	2.511 mg/L	2.511 mg/L	17:43:27
1	As 188.979†	391.4	397.6	0.5084 mg/L	0.5084 mg/L	17:43:47
1	B 182.528†	236.4	246.7	0.5190 mg/L	0.5190 mg/L	17:43:47
1	Ba 233.527†	58165.5	59844.3	0.5061 mg/L	0.5061 mg/L	17:43:27
1	Be 313.107†	230346.1	234333.4	0.0492 mg/L	0.0492 mg/L	17:43:22
1	Ca 315.886†	709511.8	726795.5	5.025 mg/L	5.025 mg/L	17:43:22
1	Cd 228.802†	9963.1	10094.4	0.2528 mg/L	0.2528 mg/L	17:43:47
1	Co 228.616†	18246.9	18872.7	0.5042 mg/L	0.5042 mg/L	17:43:27
1	Cr 267.716†	74849.1	75585.3	0.5053 mg/L	0.5053 mg/L	17:43:27
1	Cu 324.752†	131974.6	132231.6	0.5048 mg/L	0.5048 mg/L	17:43:27
1	Fe 234.349†	127168.2	129086.3	2.526 mg/L	2.526 mg/L	17:43:27
1	Fe 238.204†	286883.2	293052.5	2.538 mg/L	2.538 mg/L	17:43:27
1	Mg 279.077†	123662.0	126254.5	5.092 mg/L	5.092 mg/L	17:43:27
1	Mn 257.610†	444321.3	453911.2	0.5032 mg/L	0.5032 mg/L	17:43:22
1	Mo 202.031†	7200.7	7357.6	0.5109 mg/L	0.5109 mg/L	17:43:47
1	Ni 231.604†	15926.5	16295.1	0.5084 mg/L	0.5084 mg/L	17:43:27
1	P 214.914†	6847.6	7001.1	5.040 mg/L	5.040 mg/L	17:43:47
1	Pb 220.353†	4115.0	4396.9	0.5116 mg/L	0.5116 mg/L	17:43:47
1	Sb 206.836†	999.5	1017.5	0.4935 mg/L	0.4935 mg/L	17:43:47
1	Se 196.026†	809.4	840.6	1.008 mg/L	1.008 mg/L	17:43:47
1	Sn 189.927†	1989.1	1901.6	0.5086 mg/L	0.5086 mg/L	17:43:47
1	Sr 407.771†	1097618.0	1119139.4	0.0504 mg/L	0.0504 mg/L	17:43:22
1	Ti 337.279†	347456.1	358713.7	0.5035 mg/L	0.5035 mg/L	17:43:27
1	Tl 190.801†	619.3	634.4	0.5328 mg/L	0.5328 mg/L	17:43:47
1	V 292.402†	118110.0	123091.1	0.5102 mg/L	0.5102 mg/L	17:43:27
1	Zn 213.857†	39122.1	39467.8	0.5051 mg/L	0.5051 mg/L	17:43:27
2	K 766.490†	45802.3	46468.1	25.15 mg/L	25.15 mg/L	17:43:12
2	Li 670.784†	17427.9	17720.8	0.5082 mg/L	0.5082 mg/L	17:43:12
2	Na 589.592	199696.9	200872.4	25.04 mg/L	25.04 mg/L	17:43:12
2	Y 371.029	3183407.3	3183407.3	0.974 mg/L		17:43:54
2	Ag 328.068†	66640.3	70206.1	0.2546 mg/L	0.2546 mg/L	17:44:00
2	Al 237.313†	21273.2	21893.0	2.529 mg/L	2.529 mg/L	17:44:00
2	As 188.979†	394.6	401.2	0.5130 mg/L	0.5130 mg/L	17:44:20
2	B 182.528†	236.7	247.2	0.5200 mg/L	0.5200 mg/L	17:44:20
2	Ba 233.527†	58672.7	60409.6	0.5109 mg/L	0.5109 mg/L	17:44:00
2	Be 313.107†	229987.0	234141.5	0.0492 mg/L	0.0492 mg/L	17:43:54
2	Ca 315.886†	708842.1	726652.6	5.024 mg/L	5.024 mg/L	17:43:54
2	Cd 228.802†	10039.5	10180.5	0.2550 mg/L	0.2550 mg/L	17:44:20
2	Co 228.616†	18348.0	18990.5	0.5073 mg/L	0.5073 mg/L	17:44:00
2	Cr 267.716†	75651.9	76466.8	0.5112 mg/L	0.5112 mg/L	17:44:00
2	Cu 324.752†	133612.9	134014.8	0.5116 mg/L	0.5116 mg/L	17:44:00
2	Fe 234.349†	128235.8	130279.9	2.549 mg/L	2.549 mg/L	17:44:00
2	Fe 238.204†	289179.2	295629.7	2.561 mg/L	2.561 mg/L	17:44:00
2	Mg 279.077†	124461.8	127170.4	5.129 mg/L	5.129 mg/L	17:44:00
2	Mn 257.610†	443879.9	453799.1	0.5030 mg/L	0.5030 mg/L	17:43:54
2	Mo 202.031†	7236.0	7399.3	0.5138 mg/L	0.5138 mg/L	17:44:20
2	Ni 231.604†	16071.0	16455.6	0.5135 mg/L	0.5135 mg/L	17:44:00
2	P 214.914†	6889.5	7049.4	5.074 mg/L	5.074 mg/L	17:44:20
2	Pb 220.353†	4129.9	4415.3	0.5138 mg/L	0.5138 mg/L	17:44:20
2	Sb 206.836†	1013.4	1032.6	0.5008 mg/L	0.5008 mg/L	17:44:20
2	Se 196.026†	817.0	849.0	1.018 mg/L	1.018 mg/L	17:44:20
2	Sn 189.927†	2002.5	1916.9	0.5128 mg/L	0.5128 mg/L	17:44:20
2	Sr 407.771†	1097367.3	1119724.5	0.0505 mg/L	0.0505 mg/L	17:43:54
2	Ti 337.279†	350231.9	361830.1	0.5079 mg/L	0.5079 mg/L	17:44:00
2	Tl 190.801†	628.6	644.4	0.5408 mg/L	0.5408 mg/L	17:44:20
2	V 292.402†	119370.9	124476.2	0.5159 mg/L	0.5159 mg/L	17:44:00
2	Zn 213.857†	39457.6	39842.2	0.5099 mg/L	0.5099 mg/L	17:44:00

Mean Data: STD2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3184598.2	0.974	mg/L	0.0005				0.05%
Ag 328.068†	69971.2	0.2537	mg/L	0.00120	0.2537	mg/L	0.00120	0.47%
QC value within limits for Ag 328.068 Recovery = 101.50%								
Al 237.313†	21816.0	2.520	mg/L	0.0125	2.520	mg/L	0.0125	0.50%
QC value within limits for Al 237.313 Recovery = 100.81%								
As 188.979†	399.4	0.5107	mg/L	0.00324	0.5107	mg/L	0.00324	0.64%
QC value within limits for As 188.979 Recovery = 102.14%								
B 182.528†	247.0	0.5195	mg/L	0.00069	0.5195	mg/L	0.00069	0.13%
QC value within limits for B 182.528 Recovery = 103.91%								
Ba 233.527†	60126.9	0.5085	mg/L	0.00339	0.5085	mg/L	0.00339	0.67%

QC value within limits for Ba 233.527 Recovery = 101.70%						
Be 313.107†	234237.4	0.0492 mg/L	0.00003	0.0492 mg/L	0.00003	0.06%
QC value within limits for Be 313.107 Recovery = 98.44%						
Ca 315.886†	726724.1	5.024 mg/L	0.0007	5.024 mg/L	0.0007	0.01%
QC value within limits for Ca 315.886 Recovery = 100.48%						
Cd 228.802†	10137.4	0.2539 mg/L	0.00152	0.2539 mg/L	0.00152	0.60%
QC value within limits for Cd 228.802 Recovery = 101.55%						
Co 228.616†	18931.6	0.5058 mg/L	0.00223	0.5058 mg/L	0.00223	0.44%
QC value within limits for Co 228.616 Recovery = 101.15%						
Cr 267.716†	76026.0	0.5082 mg/L	0.00418	0.5082 mg/L	0.00418	0.82%
QC value within limits for Cr 267.716 Recovery = 101.65%						
Cu 324.752†	133123.2	0.5082 mg/L	0.00482	0.5082 mg/L	0.00482	0.95%
QC value within limits for Cu 324.752 Recovery = 101.65%						
Fe 234.349†	129683.1	2.538 mg/L	0.0166	2.538 mg/L	0.0166	0.65%
QC value within limits for Fe 234.349 Recovery = 101.50%						
Fe 238.204†	294341.1	2.549 mg/L	0.0159	2.549 mg/L	0.0159	0.62%
QC value within limits for Fe 238.204 Recovery = 101.98%						
K 766.490†	46297.8	25.06 mg/L	0.130	25.06 mg/L	0.130	0.52%
QC value within limits for K 766.490 Recovery = 100.22%						
Li 670.784†	17655.6	0.5063 mg/L	0.00264	0.5063 mg/L	0.00264	0.52%
QC value within limits for Li 670.784 Recovery = 101.26%						
Mg 279.077†	126712.5	5.111 mg/L	0.0262	5.111 mg/L	0.0262	0.51%
QC value within limits for Mg 279.077 Recovery = 102.21%						
Mn 257.610†	453855.1	0.5031 mg/L	0.00009	0.5031 mg/L	0.00009	0.02%
QC value within limits for Mn 257.610 Recovery = 100.62%						
Mo 202.031†	7378.4	0.5124 mg/L	0.00205	0.5124 mg/L	0.00205	0.40%
QC value within limits for Mo 202.031 Recovery = 102.47%						
Na 589.592	200765.1	25.03 mg/L	0.019	25.03 mg/L	0.019	0.08%
QC value within limits for Na 589.592 Recovery = 100.10%						
Ni 231.604†	16375.4	0.5109 mg/L	0.00356	0.5109 mg/L	0.00356	0.70%
QC value within limits for Ni 231.604 Recovery = 102.19%						
P 214.914†	7025.2	5.057 mg/L	0.0245	5.057 mg/L	0.0245	0.48%
QC value within limits for P 214.914 Recovery = 101.14%						
Pb 220.353†	4406.1	0.5127 mg/L	0.00152	0.5127 mg/L	0.00152	0.30%
QC value within limits for Pb 220.353 Recovery = 102.54%						
Sb 206.836†	1025.1	0.4971 mg/L	0.00519	0.4971 mg/L	0.00519	1.04%
QC value within limits for Sb 206.836 Recovery = 99.43%						
Se 196.026†	844.8	1.013 mg/L	0.0071	1.013 mg/L	0.0071	0.71%
QC value within limits for Se 196.026 Recovery = 101.29%						
Sn 189.927†	1909.2	0.5107 mg/L	0.00295	0.5107 mg/L	0.00295	0.58%
QC value within limits for Sn 189.927 Recovery = 102.13%						
Sr 407.771†	1119431.9	0.0504 mg/L	0.00002	0.0504 mg/L	0.00002	0.04%
QC value within limits for Sr 407.771 Recovery = 100.89%						
Ti 337.279†	360271.9	0.5057 mg/L	0.00309	0.5057 mg/L	0.00309	0.61%
QC value within limits for Ti 337.279 Recovery = 101.14%						
Tl 190.801†	639.4	0.5368 mg/L	0.00564	0.5368 mg/L	0.00564	1.05%
QC value greater than the upper limit for Tl 190.801 Recovery = 107.36% OK 6010 ±10% SD 6/24/06						
V 292.402†	123783.6	0.5130 mg/L	0.00403	0.5130 mg/L	0.00403	0.78%
QC value within limits for V 292.402 Recovery = 102.60%						
Zn 213.857†	39655.0	0.5075 mg/L	0.00340	0.5075 mg/L	0.00340	0.67%
QC value within limits for Zn 213.857 Recovery = 101.50%						

QC Failed. Continue with analysis.

Sequence No.: 6
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/24/2006 5:45:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	46280.7	46730.0	25.29	mg/L	25.29	mg/L	17:47:33
1	Li 670.784†	17225.5	17427.6	0.4998	mg/L	0.4998	mg/L	17:47:33
1	Na 589.592	199710.4	200885.9	25.04	mg/L	25.04	mg/L	17:47:33
1	Y 371.029	3198843.0	3198843.0	0.979	mg/L			17:47:48
1	Ag 328.068†	67214.1	70462.2	0.2555	mg/L	0.2555	mg/L	17:47:53
1	Al 237.313†	20981.0	21489.0	2.482	mg/L	2.482	mg/L	17:47:53
1	As 188.979†	377.2	381.4	0.4877	mg/L	0.4877	mg/L	17:48:14
1	B 182.528†	232.0	241.3	0.5076	mg/L	0.5076	mg/L	17:48:14

1	Ba 233.527†	57196.3	58610.5	0.4957 mg/L	0.4957 mg/L	17:47:5
1	Be 313.107†	233640.6	236734.9	0.0498 mg/L	0.0498 mg/L	17:47:4
1	Ca 315.886†	716893.9	731367.3	5.056 mg/L	5.056 mg/L	17:47:4
1	Cd 228.802†	10034.9	10126.1	0.2537 mg/L	0.2537 mg/L	17:48:1
1	Co 228.616†	17985.0	18528.7	0.4951 mg/L	0.4951 mg/L	17:47:5
1	Cr 267.716†	75013.2	75439.5	0.5043 mg/L	0.5043 mg/L	17:47:5
1	Cu 324.752†	131911.5	131614.7	0.5024 mg/L	0.5024 mg/L	17:47:5
1	Fe 234.349†	128714.6	130133.7	2.546 mg/L	2.546 mg/L	17:47:5
1	Fe 238.204†	289250.3	294269.8	2.549 mg/L	2.549 mg/L	17:47:5
1	Mg 279.077†	120845.2	122859.0	4.955 mg/L	4.955 mg/L	17:47:5
1	Mn 257.610†	445036.7	452782.0	0.5019 mg/L	0.5019 mg/L	17:47:4
1	Mo 202.031†	7202.2	7328.9	0.5089 mg/L	0.5089 mg/L	17:48:1
1	Ni 231.604†	15915.1	16216.8	0.5060 mg/L	0.5060 mg/L	17:47:5
1	P 214.914†	6702.4	6824.1	4.913 mg/L	4.913 mg/L	17:48:1
1	Pb 220.353†	4080.5	4344.4	0.5055 mg/L	0.5055 mg/L	17:48:1
1	Sb 206.836†	979.6	993.1	0.4815 mg/L	0.4815 mg/L	17:48:1
1	Se 196.026†	818.7	846.7	1.015 mg/L	1.015 mg/L	17:48:1
1	Sn 189.927†	2016.5	1921.3	0.5139 mg/L	0.5139 mg/L	17:48:1
1	Sr 407.771†	1098551.5	1115498.2	0.0503 mg/L	0.0503 mg/L	17:47:4
1	Ti 337.279†	291717.8	300313.8	0.4216 mg/L	0.4216 mg/L	17:47:5
1	Tl 190.801†	607.2	619.5	0.5211 mg/L	0.5211 mg/L	17:48:1
1	V 292.402†	117188.4	121655.1	0.5044 mg/L	0.5044 mg/L	17:47:5
1	Zn 213.857†	39092.5	39273.7	0.5026 mg/L	0.5026 mg/L	17:47:5
2	K 766.490†	46403.6	46580.0	25.21 mg/L	25.21 mg/L	17:47:3
2	Li 670.784†	17448.1	17551.4	0.5033 mg/L	0.5033 mg/L	17:47:3
2	Na 589.592	200812.1	201987.6	25.18 mg/L	25.18 mg/L	17:47:3
2	Y 371.029	3217546.8	3217546.8	0.985 mg/L		17:48:2
2	Ag 328.068†	66925.6	69770.0	0.2530 mg/L	0.2530 mg/L	17:48:2
2	Al 237.313†	20971.1	21354.4	2.467 mg/L	2.467 mg/L	17:48:2
2	As 188.979†	381.7	383.8	0.4908 mg/L	0.4908 mg/L	17:48:4
2	B 182.528†	231.9	239.7	0.5044 mg/L	0.5044 mg/L	17:48:4
2	Ba 233.527†	57391.7	58469.4	0.4945 mg/L	0.4945 mg/L	17:48:2
2	Be 313.107†	235286.0	237018.7	0.0499 mg/L	0.0499 mg/L	17:48:2
2	Ca 315.886†	721200.5	731484.0	5.057 mg/L	5.057 mg/L	17:48:2
2	Cd 228.802†	9992.5	10023.4	0.2511 mg/L	0.2511 mg/L	17:48:4
2	Co 228.616†	18004.3	18441.5	0.4928 mg/L	0.4928 mg/L	17:48:2
2	Cr 267.716†	75105.1	75087.4	0.5019 mg/L	0.5019 mg/L	17:48:2
2	Cu 324.752†	131898.7	130818.3	0.4994 mg/L	0.4994 mg/L	17:48:2
2	Fe 234.349†	128264.3	128912.0	2.522 mg/L	2.522 mg/L	17:48:2
2	Fe 238.204†	290129.2	293444.7	2.542 mg/L	2.542 mg/L	17:48:2
2	Mg 279.077†	121157.5	122458.5	4.938 mg/L	4.938 mg/L	17:48:2
2	Mn 257.610†	447522.6	452663.9	0.5018 mg/L	0.5018 mg/L	17:48:2
2	Mo 202.031†	7109.9	7192.4	0.4994 mg/L	0.4994 mg/L	17:48:4
2	Ni 231.604†	15985.6	16193.9	0.5052 mg/L	0.5052 mg/L	17:48:2
2	P 214.914†	6639.1	6720.0	4.838 mg/L	4.838 mg/L	17:48:4
2	Pb 220.353†	4027.9	4266.7	0.4964 mg/L	0.4964 mg/L	17:48:4
2	Sb 206.836†	976.2	983.8	0.4770 mg/L	0.4770 mg/L	17:48:4
2	Se 196.026†	809.0	832.0	0.9975 mg/L	0.9975 mg/L	17:48:4
2	Sn 189.927†	1986.2	1878.5	0.5023 mg/L	0.5023 mg/L	17:48:4
2	Sr 407.771†	1103449.2	1113948.6	0.0502 mg/L	0.0502 mg/L	17:48:2
2	Ti 337.279†	291750.7	298614.7	0.4192 mg/L	0.4192 mg/L	17:48:2
2	Tl 190.801†	612.7	621.5	0.5226 mg/L	0.5226 mg/L	17:48:4
2	V 292.402†	117643.6	121421.4	0.5033 mg/L	0.5033 mg/L	17:48:2
2	Zn 213.857†	39068.4	39017.1	0.4993 mg/L	0.4993 mg/L	17:48:2

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3208194.9	0.982	mg/L	0.0040				0.41%
Ag 328.068†	70116.1	0.2543	mg/L	0.00177	0.2543	mg/L	0.00177	0.70%
QC value within limits for Ag 328.068 Recovery = 101.70%								
Al 237.313†	21421.7	2.475	mg/L	0.0110	2.475	mg/L	0.0110	0.44%
QC value within limits for Al 237.313 Recovery = 98.98%								
As 188.979†	382.6	0.4892	mg/L	0.00215	0.4892	mg/L	0.00215	0.44%
QC value within limits for As 188.979 Recovery = 97.85%								
B 182.528†	240.5	0.5060	mg/L	0.00227	0.5060	mg/L	0.00227	0.45%
QC value within limits for B 182.528 Recovery = 101.20%								
Ba 233.527†	58540.0	0.4951	mg/L	0.00085	0.4951	mg/L	0.00085	0.17%
QC value within limits for Ba 233.527 Recovery = 99.01%								
Be 313.107†	236876.8	0.0499	mg/L	0.00004	0.0499	mg/L	0.00004	0.09%
QC value within limits for Be 313.107 Recovery = 99.74%								

Ca 315.886†	731425.6	5.057 mg/L	0.0006	5.057 mg/L	0.0006	0.01%
QC value within limits for Ca 315.886 Recovery = 101.13%						
Cd 228.802†	10074.7	0.2524 mg/L	0.00184	0.2524 mg/L	0.00184	0.73%
QC value within limits for Cd 228.802 Recovery = 100.95%						
Co 228.616†	18485.1	0.4940 mg/L	0.00165	0.4940 mg/L	0.00165	0.33%
QC value within limits for Co 228.616 Recovery = 98.79%						
Cr 267.716†	75263.5	0.5031 mg/L	0.00167	0.5031 mg/L	0.00167	0.33%
QC value within limits for Cr 267.716 Recovery = 100.62%						
Cu 324.752†	131216.5	0.5009 mg/L	0.00215	0.5009 mg/L	0.00215	0.43%
QC value within limits for Cu 324.752 Recovery = 100.17%						
Fe 234.349†	129522.9	2.534 mg/L	0.0170	2.534 mg/L	0.0170	0.67%
QC value within limits for Fe 234.349 Recovery = 101.38%						
Fe 238.204†	293857.3	2.545 mg/L	0.0051	2.545 mg/L	0.0051	0.20%
QC value within limits for Fe 238.204 Recovery = 101.81%						
K 766.490†	46655.0	25.25 mg/L	0.057	25.25 mg/L	0.057	0.23%
QC value within limits for K 766.490 Recovery = 100.99%						
Li 670.784†	17489.5	0.5015 mg/L	0.00251	0.5015 mg/L	0.00251	0.50%
QC value within limits for Li 670.784 Recovery = 100.31%						
Mg 279.077†	122658.7	4.947 mg/L	0.0115	4.947 mg/L	0.0115	0.23%
QC value within limits for Mg 279.077 Recovery = 98.93%						
Mn 257.610†	452723.0	0.5018 mg/L	0.00009	0.5018 mg/L	0.00009	0.02%
QC value within limits for Mn 257.610 Recovery = 100.37%						
Mo 202.031†	7260.7	0.5042 mg/L	0.00670	0.5042 mg/L	0.00670	1.33%
QC value within limits for Mo 202.031 Recovery = 100.84%						
Na 589.592	201436.7	25.11 mg/L	0.098	25.11 mg/L	0.098	0.39%
QC value within limits for Na 589.592 Recovery = 100.44%						
Ni 231.604†	16205.3	0.5056 mg/L	0.00051	0.5056 mg/L	0.00051	0.10%
QC value within limits for Ni 231.604 Recovery = 101.12%						
P 214.914†	6772.0	4.875 mg/L	0.0528	4.875 mg/L	0.0528	1.08%
QC value within limits for P 214.914 Recovery = 97.51%						
Pb 220.353†	4305.6	0.5010 mg/L	0.00641	0.5010 mg/L	0.00641	1.28%
QC value within limits for Pb 220.353 Recovery = 100.20%						
Sb 206.836†	988.5	0.4792 mg/L	0.00318	0.4792 mg/L	0.00318	0.66%
QC value within limits for Sb 206.836 Recovery = 95.84%						
Se 196.026†	839.4	1.006 mg/L	0.0125	1.006 mg/L	0.0125	1.24%
QC value within limits for Se 196.026 Recovery = 100.63%						
Sn 189.927†	1899.9	0.5081 mg/L	0.00820	0.5081 mg/L	0.00820	1.61%
QC value within limits for Sn 189.927 Recovery = 101.61%						
Sr 407.771†	1114723.4	0.0502 mg/L	0.00005	0.0502 mg/L	0.00005	0.10%
QC value within limits for Sr 407.771 Recovery = 100.46%						
Ti 337.279†	299464.2	0.4204 mg/L	0.00168	0.4204 mg/L	0.00168	0.40%
QC value less than the lower limit for Ti 337.279 Recovery = 84.09%						
Tl 190.801†	620.5	0.5218 mg/L	0.00111	0.5218 mg/L	0.00111	0.21%
QC value within limits for Tl 190.801 Recovery = 104.37%						
V 292.402†	121538.2	0.5038 mg/L	0.00078	0.5038 mg/L	0.00078	0.16%
QC value within limits for V 292.402 Recovery = 100.77%						
Zn 213.857†	39145.4	0.5009 mg/L	0.00234	0.5009 mg/L	0.00234	0.47%
QC value within limits for Zn 213.857 Recovery = 100.19%						

QC Failed. Continue with analysis.

Sequence No.: 7
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/24/2006 5:50:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	758.9	209.6	0.2060	mg/L	0.2060	mg/L	17:51:59
1	Li 670.784†	218.6	48.8	0.0019	mg/L	0.0019	mg/L	17:51:59
1	Na 589.592	-633.6	541.9	-0.0829	mg/L	-0.0829	mg/L	17:51:59
1	Y 371.029	3252343.9	3252343.9	0.995	mg/L			17:52:13
1	Ag 328.068†	-1357.9	428.1	0.0017	mg/L	0.0017	mg/L	17:52:18
1	Al 237.313†	-62.1	-8.8	0.0013	mg/L	0.0013	mg/L	17:52:38
1	As 188.979†	5.1	1.2	0.0010	mg/L	0.0010	mg/L	17:52:38
1	B 182.528†	4.1	8.3	0.0196	mg/L	0.0196	mg/L	17:52:38
1	Ba 233.527†	-170.0	4.8	-0.0013	mg/L	-0.0013	mg/L	17:52:38
1	Be 313.107†	1964.0	8.1	0.0001	mg/L	0.0001	mg/L	17:52:18
1	Ca 315.886†	916.1	-131.4	-0.0084	mg/L	-0.0084	mg/L	17:52:18

1	Cd 228.802†	132.1	6.6	0.0000 mg/L	0.0000 mg/L	17:52:38
1	Co 228.616†	-166.5	-13.0	-0.0012 mg/L	-0.0012 mg/L	17:52:38
1	Cr 267.716†	1279.4	87.4	-0.0005 mg/L	-0.0005 mg/L	17:52:18
1	Cu 324.752†	3330.7	193.3	-0.0003 mg/L	-0.0003 mg/L	17:52:18
1	Fe 234.349†	1337.4	-24.4	-0.0078 mg/L	-0.0078 mg/L	17:52:38
1	Fe 238.204†	1220.3	-18.3	-0.0112 mg/L	-0.0112 mg/L	17:52:38
1	Mg 279.077†	589.8	-10.7	-0.0208 mg/L	-0.0208 mg/L	17:52:18
1	Mn 257.610†	1881.8	-1.6	-0.0026 mg/L	-0.0026 mg/L	17:52:18
1	Mo 202.031†	55.5	26.5	0.0019 mg/L	0.0019 mg/L	17:52:38
1	Ni 231.604†	48.1	5.3	-0.0030 mg/L	-0.0030 mg/L	17:52:38
1	P 214.914†	40.0	16.6	0.0298 mg/L	0.0298 mg/L	17:52:38
1	Pb 220.353†	-157.2	17.5	0.0005 mg/L	0.0005 mg/L	17:52:38
1	Sb 206.836†	4.5	-3.2	-0.0008 mg/L	-0.0008 mg/L	17:52:38
1	Se 196.026†	-5.6	4.7	0.0053 mg/L	0.0053 mg/L	17:52:38
1	Sn 189.927†	118.5	-19.8	-0.0129 mg/L	-0.0129 mg/L	17:52:38
1	Sr 407.771†	6831.5	20.8	-0.0002 mg/L	-0.0002 mg/L	17:52:13
1	Ti 337.279†	-2324.2	-57.0	0.0005 mg/L	0.0005 mg/L	17:52:18
1	Tl 190.801†	43.8	43.2	0.0559 mg/L	0.0559 mg/L	17:52:38
1	V 292.402†	-1886.5	33.1	0.0003 mg/L	0.0003 mg/L	17:52:18
1	Zn 213.857†	663.4	1.2	-0.0015 mg/L	-0.0015 mg/L	17:52:38
2	K 766.490†	745.3	198.6	0.2001 mg/L	0.2001 mg/L	17:52:05
2	Li 670.784†	208.4	39.3	0.0016 mg/L	0.0016 mg/L	17:52:05
2	Na 589.592	-593.8	581.7	-0.0779 mg/L	-0.0779 mg/L	17:52:05
2	Y 371.029	3240258.6	3240258.6	0.991 mg/L		17:52:44
2	Ag 328.068†	-1435.9	344.2	0.0014 mg/L	0.0014 mg/L	17:52:49
2	Al 237.313†	-44.7	8.6	0.0033 mg/L	0.0033 mg/L	17:53:10
2	As 188.979†	8.3	4.4	0.0052 mg/L	0.0052 mg/L	17:53:10
2	B 182.528†	-1.2	3.0	0.0087 mg/L	0.0087 mg/L	17:53:10
2	Ba 233.527†	-174.9	-0.8	-0.0014 mg/L	-0.0014 mg/L	17:53:10
2	Be 313.107†	1949.0	0.3	0.0001 mg/L	0.0001 mg/L	17:52:49
2	Ca 315.886†	863.0	-181.5	-0.0087 mg/L	-0.0087 mg/L	17:52:49
2	Cd 228.802†	127.6	2.6	-0.0001 mg/L	-0.0001 mg/L	17:53:10
2	Co 228.616†	-165.5	-12.6	-0.0012 mg/L	-0.0012 mg/L	17:53:10
2	Cr 267.716†	1277.2	90.0	-0.0005 mg/L	-0.0005 mg/L	17:52:49
2	Cu 324.752†	3346.4	221.6	-0.0002 mg/L	-0.0002 mg/L	17:52:49
2	Fe 234.349†	1361.3	4.8	-0.0072 mg/L	-0.0072 mg/L	17:53:10
2	Fe 238.204†	1200.9	-33.4	-0.0113 mg/L	-0.0113 mg/L	17:53:10
2	Mg 279.077†	544.4	-54.2	-0.0225 mg/L	-0.0225 mg/L	17:52:49
2	Mn 257.610†	1911.1	35.0	-0.0025 mg/L	-0.0025 mg/L	17:52:49
2	Mo 202.031†	52.1	23.2	0.0017 mg/L	0.0017 mg/L	17:53:10
2	Ni 231.604†	49.4	6.8	-0.0029 mg/L	-0.0029 mg/L	17:53:10
2	P 214.914†	12.7	-10.7	0.0102 mg/L	0.0102 mg/L	17:53:10
2	Pb 220.353†	-158.4	15.7	0.0003 mg/L	0.0003 mg/L	17:53:10
2	Sb 206.836†	7.8	0.1	0.0009 mg/L	0.0009 mg/L	17:53:10
2	Se 196.026†	-11.7	-1.5	-0.0021 mg/L	-0.0021 mg/L	17:53:10
2	Sn 189.927†	123.9	-14.0	-0.0113 mg/L	-0.0113 mg/L	17:53:10
2	Sr 407.771†	6827.4	42.3	-0.0002 mg/L	-0.0002 mg/L	17:52:44
2	Ti 337.279†	-2211.8	47.7	0.0007 mg/L	0.0007 mg/L	17:52:49
2	Tl 190.801†	33.9	33.3	0.0480 mg/L	0.0480 mg/L	17:53:10
2	V 292.402†	-1833.8	79.3	0.0005 mg/L	0.0005 mg/L	17:52:49
2	Zn 213.857†	669.7	10.1	-0.0014 mg/L	-0.0014 mg/L	17:53:10

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3246301.3	0.993	mg/L	0.0026				0.26%
Ag 328.068†	386.1	0.0016	mg/L	0.00021	0.0016	mg/L	0.00021	13.60%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	-0.1	0.0023	mg/L	0.00142	0.0023	mg/L	0.00142	60.59%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	2.8	0.0031	mg/L	0.00295	0.0031	mg/L	0.00295	94.50%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	5.7	0.0142	mg/L	0.00776	0.0142	mg/L	0.00776	54.76%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	2.0	-0.0014	mg/L	0.00003	-0.0014	mg/L	0.00003	2.45%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	4.2	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	1.02%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	-156.4	-0.0086	mg/L	0.00024	-0.0086	mg/L	0.00024	2.85%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	4.6	0.0000	mg/L	0.00009	0.0000	mg/L	0.00009	520.51%

	QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-12.8	-0.0012	mg/L	0.00001	-0.0012	mg/L	0.00001	0.63%
	QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	88.7	-0.0005	mg/L	0.00001	-0.0005	mg/L	0.00001	2.30%
	QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	207.5	-0.0002	mg/L	0.00008	-0.0002	mg/L	0.00008	34.07%
	QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	-9.8	-0.0075	mg/L	0.00040	-0.0075	mg/L	0.00040	5.37%
	QC value within limits for Fe 234.349 Recovery = Not calculated						
Fe 238.204†	-25.8	-0.0113	mg/L	0.00009	-0.0113	mg/L	0.00009	0.82%
	QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	204.1	0.2030	mg/L	0.00417	0.2030	mg/L	0.00417	2.05%
	QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li 670.784†	44.1	0.0017	mg/L	0.00019	0.0017	mg/L	0.00019	10.96%
	QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	-32.5	-0.0216	mg/L	0.00125	-0.0216	mg/L	0.00125	5.76%
	QC value less than the lower limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	16.7	-0.0025	mg/L	0.00003	-0.0025	mg/L	0.00003	1.14%
	QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	24.9	0.0018	mg/L	0.00016	0.0018	mg/L	0.00016	9.17%
	QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	561.8	-0.0804	mg/L	0.00352	-0.0804	mg/L	0.00352	4.39%
	QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	6.1	-0.0030	mg/L	0.00003	-0.0030	mg/L	0.00003	1.11%
	QC value less than the lower limit for Ni 231.604 Recovery = Not calculated						
P 214.914†	3.0	0.0200	mg/L	0.01388	0.0200	mg/L	0.01388	69.47%
	QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	16.6	0.0004	mg/L	0.00015	0.0004	mg/L	0.00015	36.96%
	QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-1.6	0.0000	mg/L	0.00117	0.0000	mg/L	0.00117	>999.9%
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	1.6	0.0016	mg/L	0.00525	0.0016	mg/L	0.00525	332.27%
	QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-16.9	-0.0121	mg/L	0.00112	-0.0121	mg/L	0.00112	9.28%
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	31.6	-0.0002	mg/L	0.00000	-0.0002	mg/L	0.00000	0.31%
	QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	-4.7	0.0006	mg/L	0.00010	0.0006	mg/L	0.00010	17.32%
	QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	38.2	0.0519	mg/L	0.00560	0.0519	mg/L	0.00560	10.78%
	QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated						
V 292.402†	56.2	0.0004	mg/L	0.00013	0.0004	mg/L	0.00013	30.65%
	QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	5.7	-0.0015	mg/L	0.00008	-0.0015	mg/L	0.00008	5.53%
	QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.							

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Sequence No.: 8
Sample ID: CRI1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/24/2006 5:54:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRI1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	5280.8	4770.3	2.665	mg/L	2.665	mg/L	17:56:23
1	Li 670.784†	1938.1	1782.8	0.0516	mg/L	0.0516	mg/L	17:56:23
1	Na 589.592	19929.8	21105.3	2.496	mg/L	2.496	mg/L	17:56:23
1	Y 371.029	3242014.0	3242014.0	0.992	mg/L			17:56:37
1	Ag 328.068†	5232.1	7066.7	0.0258	mg/L	0.0258	mg/L	17:56:42
1	Al 237.313†	2133.2	2204.0	0.2567	mg/L	0.2567	mg/L	17:56:42
1	As 188.979†	46.7	43.1	0.0547	mg/L	0.0547	mg/L	17:57:02
1	B 182.528†	27.4	31.9	0.0690	mg/L	0.0690	mg/L	17:57:02
1	Ba 233.527†	5938.9	6162.3	0.0509	mg/L	0.0509	mg/L	17:56:42
1	Be 313.107†	25632.3	23873.3	0.0051	mg/L	0.0051	mg/L	17:56:42
1	Ca 315.886†	76144.4	75705.7	0.5167	mg/L	0.5167	mg/L	17:56:42
1	Cd 228.802†	1134.1	1017.0	0.0254	mg/L	0.0254	mg/L	17:57:02
1	Co 228.616†	1768.6	1937.1	0.0510	mg/L	0.0510	mg/L	17:57:02
1	Cr 267.716†	8986.7	7860.9	0.0515	mg/L	0.0515	mg/L	17:56:42

1	Cu 324.752†	16784.4	13766.0	0.0516 mg/L	0.0516 mg/L	17:56:42
1	Fe 234.349†	14593.6	13342.8	0.2545 mg/L	0.2545 mg/L	17:56:42
1	Fe 238.204†	31186.2	30192.7	0.2516 mg/L	0.2516 mg/L	17:56:42
1	Mg 279.077†	13438.2	12943.1	0.5038 mg/L	0.5038 mg/L	17:56:42
1	Mn 257.610†	49382.6	47887.7	0.0508 mg/L	0.0508 mg/L	17:56:42
1	Mo 202.031†	761.8	738.6	0.0513 mg/L	0.0513 mg/L	17:57:02
1	Ni 231.604†	1726.2	1697.2	0.0501 mg/L	0.0501 mg/L	17:56:42
1	P 214.914†	715.8	698.1	0.5186 mg/L	0.5186 mg/L	17:57:02
1	Pb 220.353†	283.9	461.7	0.0523 mg/L	0.0523 mg/L	17:57:02
1	Sb 206.836†	111.7	104.8	0.0516 mg/L	0.0516 mg/L	17:57:02
1	Se 196.026†	66.7	77.5	0.0927 mg/L	0.0927 mg/L	17:57:02
1	Sn 189.927†	335.7	199.5	0.0466 mg/L	0.0466 mg/L	17:57:02
1	Sr 407.771†	122320.0	116461.1	0.0050 mg/L	0.0050 mg/L	17:56:37
1	Ti 337.279†	33459.0	36006.9	0.0511 mg/L	0.0511 mg/L	17:56:42
1	Tl 190.801†	66.1	65.8	0.0744 mg/L	0.0744 mg/L	17:57:02
1	V 292.402†	10383.4	12395.8	0.0515 mg/L	0.0515 mg/L	17:56:42
1	Zn 213.857†	4687.2	4059.6	0.0506 mg/L	0.0506 mg/L	17:57:02
2	K 766.490†	5333.3	4799.5	2.681 mg/L	2.681 mg/L	17:56:29
2	Li 670.784†	1974.1	1810.3	0.0523 mg/L	0.0523 mg/L	17:56:29
2	Na 589.592	20101.3	21276.7	2.517 mg/L	2.517 mg/L	17:56:29
2	Y 371.029	3256386.6	3256386.6	0.996 mg/L		17:57:08
2	Ag 328.068†	5182.3	6993.5	0.0255 mg/L	0.0255 mg/L	17:57:14
2	Al 237.313†	2111.2	2172.5	0.2530 mg/L	0.2530 mg/L	17:57:14
2	As 188.979†	46.2	42.4	0.0538 mg/L	0.0538 mg/L	17:57:34
2	B 182.528†	23.9	28.2	0.0614 mg/L	0.0614 mg/L	17:57:34
2	Ba 233.527†	5940.9	6138.0	0.0507 mg/L	0.0507 mg/L	17:57:14
2	Be 313.107†	25911.3	24039.2	0.0052 mg/L	0.0052 mg/L	17:57:14
2	Ca 315.886†	77003.0	76228.5	0.5203 mg/L	0.5203 mg/L	17:57:14
2	Cd 228.802†	1132.1	1010.1	0.0252 mg/L	0.0252 mg/L	17:57:34
2	Co 228.616†	1776.2	1936.8	0.0510 mg/L	0.0510 mg/L	17:57:34
2	Cr 267.716†	9052.4	7886.8	0.0517 mg/L	0.0517 mg/L	17:57:14
2	Cu 324.752†	16912.0	13819.4	0.0518 mg/L	0.0518 mg/L	17:57:14
2	Fe 234.349†	14663.1	13347.6	0.2546 mg/L	0.2546 mg/L	17:57:14
2	Fe 238.204†	31491.2	30360.1	0.2531 mg/L	0.2531 mg/L	17:57:14
2	Mg 279.077†	13555.0	13000.5	0.5061 mg/L	0.5061 mg/L	17:57:14
2	Mn 257.610†	49814.0	48101.0	0.0510 mg/L	0.0510 mg/L	17:57:14
2	Mo 202.031†	762.0	735.5	0.0511 mg/L	0.0511 mg/L	17:57:34
2	Ni 231.604†	1751.8	1715.1	0.0507 mg/L	0.0507 mg/L	17:57:14
2	P 214.914†	714.9	694.0	0.5157 mg/L	0.5157 mg/L	17:57:34
2	Pb 220.353†	279.7	456.3	0.0517 mg/L	0.0517 mg/L	17:57:34
2	Sb 206.836†	109.9	102.5	0.0504 mg/L	0.0504 mg/L	17:57:34
2	Se 196.026†	76.4	86.9	0.1039 mg/L	0.1039 mg/L	17:57:34
2	Sn 189.927†	322.8	185.0	0.0427 mg/L	0.0427 mg/L	17:57:34
2	Sr 407.771†	122755.3	116353.7	0.0050 mg/L	0.0050 mg/L	17:57:08
2	Ti 337.279†	33934.4	36335.1	0.0515 mg/L	0.0515 mg/L	17:57:14
2	Tl 190.801†	72.7	72.1	0.0794 mg/L	0.0794 mg/L	17:57:34
2	V 292.402†	10579.6	12546.5	0.0521 mg/L	0.0521 mg/L	17:57:14
2	Zn 213.857†	4679.8	4031.2	0.0502 mg/L	0.0502 mg/L	17:57:34

Mean Data: CRI1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3249200.3	0.994	mg/L	0.0031				0.31%
Ag 328.068†	7030.1	0.0257	mg/L	0.00019	0.0257	mg/L	0.00019	0.73%
QC value within limits for Ag 328.068 Recovery = 102.62%								
Al 237.313†	2188.2	0.2549	mg/L	0.00259	0.2549	mg/L	0.00259	1.02%
QC value within limits for Al 237.313 Recovery = 101.95%								
As 188.979†	42.8	0.0543	mg/L	0.00064	0.0543	mg/L	0.00064	1.17%
QC value within limits for As 188.979 Recovery = 108.57%								
B 182.528†	30.0	0.0652	mg/L	0.00542	0.0652	mg/L	0.00542	8.31%
QC value greater than the upper limit for B 182.528 Recovery = 130.37%								
Ba 233.527†	6150.1	0.0508	mg/L	0.00015	0.0508	mg/L	0.00015	0.29%
QC value within limits for Ba 233.527 Recovery = 101.55%								
Be 313.107†	23956.3	0.0051	mg/L	0.00002	0.0051	mg/L	0.00002	0.48%
QC value within limits for Be 313.107 Recovery = 102.94%								
Ca 315.886†	75967.1	0.5185	mg/L	0.00256	0.5185	mg/L	0.00256	0.49%
QC value within limits for Ca 315.886 Recovery = 103.69%								
Cd 228.802†	1013.5	0.0253	mg/L	0.00012	0.0253	mg/L	0.00012	0.47%
QC value within limits for Cd 228.802 Recovery = 101.08%								
Co 228.616†	1936.9	0.0510	mg/L	0.00001	0.0510	mg/L	0.00001	0.01%
QC value within limits for Co 228.616 Recovery = 101.93%								

Cr 267.716†	7873.9	0.0516 mg/L	0.00012	0.0516 mg/L	0.00012	0.24%
QC value within limits for Cr 267.716 Recovery = 103.26%						
Cu 324.752†	13792.7	0.0517 mg/L	0.00014	0.0517 mg/L	0.00014	0.28%
QC value within limits for Cu 324.752 Recovery = 103.49%						
Fe 234.349†	13345.2	0.2545 mg/L	0.00006	0.2545 mg/L	0.00006	0.02%
QC value within limits for Fe 234.349 Recovery = 101.82%						
Fe 238.204†	30276.4	0.2523 mg/L	0.00103	0.2523 mg/L	0.00103	0.41%
QC value within limits for Fe 238.204 Recovery = 100.93%						
K 766.490†	4784.9	2.673 mg/L	0.0112	2.673 mg/L	0.0112	0.42%
QC value within limits for K 766.490 Recovery = 106.91%						
Li 670.784†	1796.6	0.0519 mg/L	0.00056	0.0519 mg/L	0.00056	1.07%
QC value within limits for Li 670.784 Recovery = 103.90%						
Mg 279.077†	12971.8	0.5050 mg/L	0.00164	0.5050 mg/L	0.00164	0.33%
QC value within limits for Mg 279.077 Recovery = 100.99%						
Mn 257.610†	47994.3	0.0509 mg/L	0.00017	0.0509 mg/L	0.00017	0.33%
QC value within limits for Mn 257.610 Recovery = 101.85%						
Mo 202.031†	737.1	0.0512 mg/L	0.00015	0.0512 mg/L	0.00015	0.30%
QC value within limits for Mo 202.031 Recovery = 102.43%						
Na 589.592	21191.0	2.507 mg/L	0.0152	2.507 mg/L	0.0152	0.61%
QC value within limits for Na 589.592 Recovery = 100.26%						
Ni 231.604†	1706.1	0.0504 mg/L	0.00040	0.0504 mg/L	0.00040	0.79%
QC value within limits for Ni 231.604 Recovery = 100.81%						
P 214.914†	696.1	0.5171 mg/L	0.00207	0.5171 mg/L	0.00207	0.40%
QC value within limits for P 214.914 Recovery = 103.43%						
Pb 220.353†	459.0	0.0520 mg/L	0.00045	0.0520 mg/L	0.00045	0.86%
QC value within limits for Pb 220.353 Recovery = 104.05%						
Sb 206.836†	103.7	0.0510 mg/L	0.00081	0.0510 mg/L	0.00081	1.59%
QC value within limits for Sb 206.836 Recovery = 101.98%						
Se 196.026†	82.2	0.0983 mg/L	0.00796	0.0983 mg/L	0.00796	8.10%
QC value within limits for Se 196.026 Recovery = 98.32%						
Sn 189.927†	192.3	0.0447 mg/L	0.00278	0.0447 mg/L	0.00278	6.22%
QC value within limits for Sn 189.927 Recovery = 89.33%						
Sr 407.771†	116407.4	0.0050 mg/L	0.00000	0.0050 mg/L	0.00000	0.07%
QC value within limits for Sr 407.771 Recovery = 100.91%						
Ti 337.279†	36171.0	0.0513 mg/L	0.00033	0.0513 mg/L	0.00033	0.63%
QC value within limits for Ti 337.279 Recovery = 102.63%						
Tl 190.801†	68.9	0.0769 mg/L	0.00356	0.0769 mg/L	0.00356	4.63%
QC value greater than the upper limit for Tl 190.801 Recovery = 153.73%						
V 292.402†	12471.2	0.0518 mg/L	0.00043	0.0518 mg/L	0.00043	0.83%
QC value within limits for V 292.402 Recovery = 103.66%						
Zn 213.857†	4045.4	0.0504 mg/L	0.00026	0.0504 mg/L	0.00026	0.52%
QC value within limits for Zn 213.857 Recovery = 100.76%						

QC Failed. Continue with analysis.

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Sequence No.: 9
Sample ID: CRI2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 6/24/2006 5:59:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRI2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	2563.9	2044.4	1.195	mg/L	1.195	mg/L	18:00:49
1	Li 670.784†	902.8	743.7	0.0218	mg/L	0.0218	mg/L	18:00:49
1	Na 589.592	7516.0	8691.5	0.9391	mg/L	0.9391	mg/L	18:00:49
1	Y 371.029	3226003.3	3226003.3	0.987	mg/L			18:01:02
1	Ag 328.068†	1027.5	2833.5	0.0104	mg/L	0.0104	mg/L	18:01:08
1	Al 237.313†	843.8	908.4	0.1072	mg/L	0.1072	mg/L	18:01:08
1	As 188.979†	19.1	15.3	0.0191	mg/L	0.0191	mg/L	18:01:28
1	B 182.528†	10.9	15.3	0.0343	mg/L	0.0343	mg/L	18:01:28
1	Ba 233.527†	2274.7	2480.1	0.0197	mg/L	0.0197	mg/L	18:01:28
1	Be 313.107†	11509.3	9694.2	0.0022	mg/L	0.0022	mg/L	18:01:08
1	Ca 315.886†	30860.1	30211.1	0.2017	mg/L	0.2017	mg/L	18:01:08
1	Cd 228.802†	543.4	424.3	0.0105	mg/L	0.0105	mg/L	18:01:28
1	Co 228.616†	610.7	772.9	0.0198	mg/L	0.0198	mg/L	18:01:28
1	Cr 267.716†	4352.8	3211.5	0.0204	mg/L	0.0204	mg/L	18:01:08
1	Cu 324.752†	8453.4	5410.3	0.0197	mg/L	0.0197	mg/L	18:01:08
1	Fe 234.349†	6595.5	5313.3	0.0969	mg/L	0.0969	mg/L	18:01:08
1	Fe 238.204†	13148.1	12075.2	0.0940	mg/L	0.0940	mg/L	18:01:08

1	Mg 279.077†	5668.9	5139.6	0.1878 mg/L	0.1878 mg/L	18:01:08
1	Mn 257.610†	20760.1	19138.6	0.0188 mg/L	0.0188 mg/L	18:01:08
1	Mo 202.031†	332.5	307.5	0.0214 mg/L	0.0214 mg/L	18:01:28
1	Ni 231.604†	721.3	687.7	0.0184 mg/L	0.0184 mg/L	18:01:28
1	P 214.914†	306.7	287.2	0.2238 mg/L	0.2238 mg/L	18:01:28
1	Pb 220.353†	7.6	183.3	0.0199 mg/L	0.0199 mg/L	18:01:28
1	Sb 206.836†	35.1	27.8	0.0141 mg/L	0.0141 mg/L	18:01:28
1	Se 196.026†	25.8	36.5	0.0434 mg/L	0.0434 mg/L	18:01:28
1	Sn 189.927†	207.5	71.3	0.0118 mg/L	0.0118 mg/L	18:01:28
1	Sr 407.771†	53213.4	47064.2	0.0019 mg/L	0.0019 mg/L	18:01:02
1	Ti 337.279†	12097.5	14533.9	0.0210 mg/L	0.0210 mg/L	18:01:08
1	Tl 190.801†	31.4	30.9	0.0462 mg/L	0.0462 mg/L	18:01:28
1	V 292.402†	3026.7	4995.0	0.0209 mg/L	0.0209 mg/L	18:01:08
1	Zn 213.857†	2249.4	1613.4	0.0192 mg/L	0.0192 mg/L	18:01:28
2	K 766.490†	2447.4	1930.9	1.134 mg/L	1.134 mg/L	18:00:54
2	Li 670.784†	911.9	754.6	0.0221 mg/L	0.0221 mg/L	18:00:54
2	Na 589.592	7325.3	8500.8	0.9152 mg/L	0.9152 mg/L	18:00:54
2	Y 371.029	3220068.1	3220068.1	0.985 mg/L		18:01:34
2	Ag 328.068†	853.9	2659.2	0.0098 mg/L	0.0098 mg/L	18:01:39
2	Al 237.313†	828.6	894.6	0.1056 mg/L	0.1056 mg/L	18:01:39
2	As 188.979†	17.9	14.2	0.0177 mg/L	0.0177 mg/L	18:01:59
2	B 182.528†	10.0	14.3	0.0323 mg/L	0.0323 mg/L	18:01:59
2	Ba 233.527†	2285.3	2495.0	0.0198 mg/L	0.0198 mg/L	18:01:59
2	Be 313.107†	11384.0	9588.5	0.0021 mg/L	0.0021 mg/L	18:01:39
2	Ca 315.886†	30963.3	30373.5	0.2028 mg/L	0.2028 mg/L	18:01:39
2	Cd 228.802†	520.7	402.3	0.0100 mg/L	0.0100 mg/L	18:01:59
2	Co 228.616†	611.2	774.6	0.0199 mg/L	0.0199 mg/L	18:01:59
2	Cr 267.716†	4300.4	3166.5	0.0201 mg/L	0.0201 mg/L	18:01:39
2	Cu 324.752†	8410.0	5382.0	0.0196 mg/L	0.0196 mg/L	18:01:39
2	Fe 234.349†	6609.6	5340.0	0.0975 mg/L	0.0975 mg/L	18:01:39
2	Fe 238.204†	13117.2	12068.3	0.0939 mg/L	0.0939 mg/L	18:01:39
2	Mg 279.077†	5675.6	5157.0	0.1885 mg/L	0.1885 mg/L	18:01:39
2	Mn 257.610†	20846.5	19265.0	0.0189 mg/L	0.0189 mg/L	18:01:39
2	Mo 202.031†	311.8	287.2	0.0200 mg/L	0.0200 mg/L	18:01:59
2	Ni 231.604†	716.4	684.1	0.0183 mg/L	0.0183 mg/L	18:01:59
2	P 214.914†	306.4	287.5	0.2240 mg/L	0.2240 mg/L	18:01:59
2	Pb 220.353†	5.4	181.0	0.0196 mg/L	0.0196 mg/L	18:01:59
2	Sb 206.836†	43.7	36.6	0.0185 mg/L	0.0185 mg/L	18:01:59
2	Se 196.026†	21.1	31.7	0.0377 mg/L	0.0377 mg/L	18:01:59
2	Sn 189.927†	193.9	57.9	0.0082 mg/L	0.0082 mg/L	18:01:59
2	Sr 407.771†	53158.8	47108.2	0.0019 mg/L	0.0019 mg/L	18:01:34
2	Ti 337.279†	12099.3	14558.3	0.0210 mg/L	0.0210 mg/L	18:01:39
2	Tl 190.801†	32.2	31.8	0.0469 mg/L	0.0469 mg/L	18:01:59
2	V 292.402†	3009.2	4982.9	0.0208 mg/L	0.0208 mg/L	18:01:39
2	Zn 213.857†	2268.6	1637.0	0.0195 mg/L	0.0195 mg/L	18:01:59

Mean Data: CRI2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3223035.7	0.986	mg/L	0.0013				0.13%
Ag 328.068†	2746.3	0.0101	mg/L	0.00045	0.0101	mg/L	0.00045	4.40%
QC value within limits for Ag 328.068 Recovery = 101.32%								
Al 237.313†	901.5	0.1064	mg/L	0.00113	0.1064	mg/L	0.00113	1.06%
QC value within limits for Al 237.313 Recovery = 106.41%								
As 188.979†	14.8	0.0184	mg/L	0.00102	0.0184	mg/L	0.00102	5.53%
QC value within limits for As 188.979 Recovery = 92.04%								
B 182.528†	14.8	0.0333	mg/L	0.00144	0.0333	mg/L	0.00144	4.33%
QC value greater than the upper limit for B 182.528 Recovery = 166.46%								
Ba 233.527†	2487.5	0.0197	mg/L	0.00009	0.0197	mg/L	0.00009	0.45%
QC value within limits for Ba 233.527 Recovery = 98.57%								
Be 313.107†	9641.3	0.0021	mg/L	0.00002	0.0021	mg/L	0.00002	0.74%
QC value within limits for Be 313.107 Recovery = 107.29%								
Ca 315.886†	30292.3	0.2022	mg/L	0.00080	0.2022	mg/L	0.00080	0.39%
QC value within limits for Ca 315.886 Recovery = 101.12%								
Cd 228.802†	413.3	0.0103	mg/L	0.00038	0.0103	mg/L	0.00038	3.75%
QC value within limits for Cd 228.802 Recovery = 102.57%								
Co 228.616†	773.8	0.0198	mg/L	0.00003	0.0198	mg/L	0.00003	0.16%
QC value within limits for Co 228.616 Recovery = 99.19%								
Cr 267.716†	3189.0	0.0202	mg/L	0.00021	0.0202	mg/L	0.00021	1.05%
QC value within limits for Cr 267.716 Recovery = 101.21%								
Cu 324.752†	5396.1	0.0196	mg/L	0.00008	0.0196	mg/L	0.00008	0.39%

	QC value within limits for Cu 324.752 Recovery = 98.13%					
Fe 234.349†	5326.6	0.0972 mg/L	0.00037	0.0972 mg/L	0.00037	0.38%
	QC value within limits for Fe 234.349 Recovery = 97.19%					
Fe 238.204†	12071.8	0.0940 mg/L	0.00004	0.0940 mg/L	0.00004	0.04%
	QC value within limits for Fe 238.204 Recovery = 93.97%					
K 766.490†	1987.6	1.165 mg/L	0.0433	1.165 mg/L	0.0433	3.72%
	QC value within limits for K 766.490 Recovery = 116.47%					
Li 670.784†	749.1	0.0219 mg/L	0.00022	0.0219 mg/L	0.00022	1.01%
	QC value within limits for Li 670.784 Recovery = 109.71%					
Mg 279.077†	5148.3	0.1882 mg/L	0.00050	0.1882 mg/L	0.00050	0.26%
	QC value within limits for Mg 279.077 Recovery = 94.08%					
Mn 257.610†	19201.8	0.0188 mg/L	0.00010	0.0188 mg/L	0.00010	0.53%
	QC value within limits for Mn 257.610 Recovery = 94.22%					
Mo 202.031†	297.4	0.0207 mg/L	0.00100	0.0207 mg/L	0.00100	4.83%
	QC value within limits for Mo 202.031 Recovery = 103.43%					
Na 589.592	8596.1	0.9271 mg/L	0.01691	0.9271 mg/L	0.01691	1.82%
	QC value within limits for Na 589.592 Recovery = 92.71%					
Ni 231.604†	685.9	0.0184 mg/L	0.00008	0.0184 mg/L	0.00008	0.44%
	QC value within limits for Ni 231.604 Recovery = 91.87%					
P 214.914†	287.3	0.2239 mg/L	0.00015	0.2239 mg/L	0.00015	0.07%
	QC value within limits for P 214.914 Recovery = 111.97%					
Pb 220.353†	182.1	0.0197 mg/L	0.00019	0.0197 mg/L	0.00019	0.94%
	QC value within limits for Pb 220.353 Recovery = 98.61%					
Sb 206.836†	32.2	0.0163 mg/L	0.00310	0.0163 mg/L	0.00310	18.99%
	QC value within limits for Sb 206.836 Recovery = 81.56%					
Se 196.026†	34.1	0.0406 mg/L	0.00401	0.0406 mg/L	0.00401	9.89%
	QC value within limits for Se 196.026 Recovery = 101.42%					
Sn 189.927†	64.6	0.0100 mg/L	0.00257	0.0100 mg/L	0.00257	25.68%
	QC value less than the lower limit for Sn 189.927 Recovery = 50.13%					
Sr 407.771†	47086.2	0.0019 mg/L	0.00000	0.0019 mg/L	0.00000	0.07%
	QC value within limits for Sr 407.771 Recovery = 95.40%					
Ti 337.279†	14546.1	0.0210 mg/L	0.00002	0.0210 mg/L	0.00002	0.12%
	QC value within limits for Ti 337.279 Recovery = 104.99%					
Tl 190.801†	31.4	0.0465 mg/L	0.00048	0.0465 mg/L	0.00048	1.03%
	QC value greater than the upper limit for Tl 190.801 Recovery = 232.70%					
V 292.402†	4988.9	0.0208 mg/L	0.00005	0.0208 mg/L	0.00005	0.25%
	QC value within limits for V 292.402 Recovery = 104.18%					
Zn 213.857†	1625.2	0.0193 mg/L	0.00022	0.0193 mg/L	0.00022	1.12%
	QC value within limits for Zn 213.857 Recovery = 96.59%					

QC Failed. Continue with analysis.

Sequence No.: 10
Sample ID: CRI3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 6/24/2006 6:03:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRI3

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1545.8	1007.5	0.6362	mg/L	0.6362	mg/L	18:05:18
1	Li 670.784†	503.5	337.4	0.0101	mg/L	0.0101	mg/L	18:05:18
1	Na 589.592	3255.7	4431.2	0.4049	mg/L	0.4049	mg/L	18:05:18
1	Y 371.029	3237368.3	3237368.3	0.991	mg/L			18:05:32
1	Ag 328.068†	-450.6	1337.6	0.0050	mg/L	0.0050	mg/L	18:05:37
1	Al 237.313†	402.3	459.7	0.0554	mg/L	0.0554	mg/L	18:05:57
1	As 188.979†	14.1	10.2	0.0126	mg/L	0.0126	mg/L	18:05:57
1	B 182.528†	0.9	5.1	0.0130	mg/L	0.0130	mg/L	18:05:57
1	Ba 233.527†	1052.2	1237.8	0.0091	mg/L	0.0091	mg/L	18:05:57
1	Be 313.107†	6648.8	4746.5	0.0011	mg/L	0.0011	mg/L	18:05:37
1	Ca 315.886†	16045.1	15145.6	0.0974	mg/L	0.0974	mg/L	18:05:37
1	Cd 228.802†	314.6	191.4	0.0047	mg/L	0.0047	mg/L	18:05:57
1	Co 228.616†	216.4	372.7	0.0091	mg/L	0.0091	mg/L	18:05:57
1	Cr 267.716†	2783.3	1611.6	0.0097	mg/L	0.0097	mg/L	18:05:37
1	Cu 324.752†	5655.1	2555.3	0.0088	mg/L	0.0088	mg/L	18:05:37
1	Fe 234.349†	3964.7	2634.1	0.0444	mg/L	0.0444	mg/L	18:05:37
1	Fe 238.204†	6972.1	5793.8	0.0394	mg/L	0.0394	mg/L	18:05:37
1	Mg 279.077†	3112.9	2539.1	0.0825	mg/L	0.0825	mg/L	18:05:37
1	Mn 257.610†	11277.3	9491.9	0.0080	mg/L	0.0080	mg/L	18:05:37
1	Mo 202.031†	161.4	133.6	0.0093	mg/L	0.0093	mg/L	18:05:57

1	Ni 231.604†	377.6	338.2	0.0075 mg/L	0.0075 mg/L	18:05:57
1	P 214.914†	158.6	136.6	0.1158 mg/L	0.1158 mg/L	18:05:57
1	Pb 220.353†	-77.9	96.9	0.0098 mg/L	0.0098 mg/L	18:05:57
1	Sb 206.836†	29.5	22.0	0.0115 mg/L	0.0115 mg/L	18:05:57
1	Se 196.026†	7.8	18.2	0.0215 mg/L	0.0215 mg/L	18:05:57
1	Sn 189.927†	148.8	11.3	-0.0044 mg/L	-0.0044 mg/L	18:05:57
1	Sr 407.771†	30055.3	23497.0	0.0008 mg/L	0.0008 mg/L	18:05:32
1	Ti 337.279†	4893.2	7218.1	0.0107 mg/L	0.0107 mg/L	18:05:37
1	Tl 190.801†	11.3	10.6	0.0298 mg/L	0.0298 mg/L	18:05:57
1	V 292.402†	536.1	2470.0	0.0104 mg/L	0.0104 mg/L	18:05:37
1	Zn 213.857†	1491.6	840.4	0.0092 mg/L	0.0092 mg/L	18:05:57
2	K 766.490†	1491.3	951.8	0.6062 mg/L	0.6062 mg/L	18:05:24
2	Li 670.784†	522.0	355.9	0.0107 mg/L	0.0107 mg/L	18:05:24
2	Na 589.592	3001.6	4177.1	0.3730 mg/L	0.3730 mg/L	18:05:24
2	Y 371.029	3238708.8	3238708.8	0.991 mg/L		18:06:03
2	Ag 328.068†	-474.1	1314.1	0.0049 mg/L	0.0049 mg/L	18:06:08
2	Al 237.313†	360.3	417.2	0.0505 mg/L	0.0505 mg/L	18:06:29
2	As 188.979†	13.6	9.7	0.0119 mg/L	0.0119 mg/L	18:06:29
2	B 182.528†	1.0	5.2	0.0132 mg/L	0.0132 mg/L	18:06:29
2	Ba 233.527†	1057.0	1242.3	0.0092 mg/L	0.0092 mg/L	18:06:29
2	Be 313.107†	6656.4	4751.4	0.0011 mg/L	0.0011 mg/L	18:06:08
2	Ca 315.886†	15985.2	15078.5	0.0969 mg/L	0.0969 mg/L	18:06:08
2	Cd 228.802†	339.1	216.0	0.0053 mg/L	0.0053 mg/L	18:06:29
2	Co 228.616†	222.5	378.7	0.0093 mg/L	0.0093 mg/L	18:06:29
2	Cr 267.716†	2755.8	1582.7	0.0095 mg/L	0.0095 mg/L	18:06:08
2	Cu 324.752†	5695.3	2593.5	0.0089 mg/L	0.0089 mg/L	18:06:08
2	Fe 234.349†	3943.1	2610.6	0.0439 mg/L	0.0439 mg/L	18:06:08
2	Fe 238.204†	7026.9	5846.1	0.0398 mg/L	0.0398 mg/L	18:06:08
2	Mg 279.077†	3074.8	2499.4	0.0809 mg/L	0.0809 mg/L	18:06:08
2	Mn 257.610†	11213.6	9422.8	0.0079 mg/L	0.0079 mg/L	18:06:08
2	Mo 202.031†	171.8	144.1	0.0100 mg/L	0.0100 mg/L	18:06:29
2	Ni 231.604†	386.8	347.3	0.0077 mg/L	0.0077 mg/L	18:06:29
2	P 214.914†	170.6	148.7	0.1245 mg/L	0.1245 mg/L	18:06:29
2	Pb 220.353†	-69.5	105.4	0.0108 mg/L	0.0108 mg/L	18:06:29
2	Sb 206.836†	23.7	16.2	0.0086 mg/L	0.0086 mg/L	18:06:29
2	Se 196.026†	7.8	18.2	0.0215 mg/L	0.0215 mg/L	18:06:29
2	Sn 189.927†	140.1	2.4	-0.0068 mg/L	-0.0068 mg/L	18:06:29
2	Sr 407.771†	29769.0	23195.5	0.0008 mg/L	0.0008 mg/L	18:06:03
2	Ti 337.279†	4801.5	7123.6	0.0106 mg/L	0.0106 mg/L	18:06:08
2	Tl 190.801†	15.3	14.5	0.0330 mg/L	0.0330 mg/L	18:06:29
2	V 292.402†	640.9	2575.5	0.0108 mg/L	0.0108 mg/L	18:06:08
2	Zn 213.857†	1475.0	823.0	0.0090 mg/L	0.0090 mg/L	18:06:29

Mean Data: CRI3

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3238038.6	0.991	mg/L	0.0003				0.03%
Ag 328.068†	1325.8	0.0050	mg/L	0.00006	0.0050	mg/L	0.00006	1.20%
QC value within limits for Ag 328.068 Recovery = 99.67%								
Al 237.313†	438.5	0.0530	mg/L	0.00348	0.0530	mg/L	0.00348	6.58%
QC value within limits for Al 237.313 Recovery = 105.91%								
As 188.979†	10.0	0.0123	mg/L	0.00046	0.0123	mg/L	0.00046	3.76%
QC value within limits for As 188.979 Recovery = 122.73%								
B 182.528†	5.2	0.0131	mg/L	0.00008	0.0131	mg/L	0.00008	0.63%
QC value greater than the upper limit for B 182.528 Recovery = 130.95%								
Ba 233.527†	1240.0	0.0091	mg/L	0.00003	0.0091	mg/L	0.00003	0.30%
QC value within limits for Ba 233.527 Recovery = 91.33%								
Be 313.107†	4749.0	0.0011	mg/L	0.00000	0.0011	mg/L	0.00000	0.07%
QC value within limits for Be 313.107 Recovery = 112.00%								
Ca 315.886†	15112.0	0.0971	mg/L	0.00033	0.0971	mg/L	0.00033	0.34%
QC value within limits for Ca 315.886 Recovery = 97.14%								
Cd 228.802†	203.7	0.0050	mg/L	0.00044	0.0050	mg/L	0.00044	8.84%
QC value within limits for Cd 228.802 Recovery = 99.59%								
Co 228.616†	375.7	0.0092	mg/L	0.00011	0.0092	mg/L	0.00011	1.25%
QC value within limits for Co 228.616 Recovery = 91.84%								
Cr 267.716†	1597.1	0.0096	mg/L	0.00014	0.0096	mg/L	0.00014	1.43%
QC value within limits for Cr 267.716 Recovery = 95.77%								
Cu 324.752†	2574.4	0.0088	mg/L	0.00010	0.0088	mg/L	0.00010	1.17%
QC value within limits for Cu 324.752 Recovery = 88.31%								
Fe 234.349†	2622.3	0.0441	mg/L	0.00033	0.0441	mg/L	0.00033	0.74%
QC value within limits for Fe 234.349 Recovery = 88.24%								

Fe 238.204†	5819.9	0.0396 mg/L	0.00032	0.0396 mg/L	0.00032	0.81%
QC value within limits for Fe 238.204 Recovery = 79.17%						
K 766.490†	979.7	0.6212 mg/L	0.02123	0.6212 mg/L	0.02123	3.42%
QC value within limits for K 766.490 Recovery = 124.24%						
Li 670.784†	346.6	0.0104 mg/L	0.00037	0.0104 mg/L	0.00037	3.58%
QC value within limits for Li 670.784 Recovery = 104.11%						
Mg 279.077†	2519.3	0.0817 mg/L	0.00114	0.0817 mg/L	0.00114	1.39%
QC value within limits for Mg 279.077 Recovery = 81.70%						
Mn 257.610†	9457.4	0.0080 mg/L	0.00005	0.0080 mg/L	0.00005	0.68%
QC value within limits for Mn 257.610 Recovery = 79.88%						
Mo 202.031†	138.9	0.0097 mg/L	0.00051	0.0097 mg/L	0.00051	5.30%
QC value within limits for Mo 202.031 Recovery = 96.81%						
Na 589.592	4304.1	0.3889 mg/L	0.02253	0.3889 mg/L	0.02253	5.79%
QC value within limits for Na 589.592 Recovery = 77.78%						
Ni 231.604†	342.8	0.0076 mg/L	0.00020	0.0076 mg/L	0.00020	2.66%
QC value within limits for Ni 231.604 Recovery = 76.03%						
P 214.914†	142.6	0.1202 mg/L	0.00615	0.1202 mg/L	0.00615	5.12%
QC value within limits for P 214.914 Recovery = 120.16%						
Pb 220.353†	101.2	0.0103 mg/L	0.00070	0.0103 mg/L	0.00070	6.82%
QC value within limits for Pb 220.353 Recovery = 102.67%						
Sb 206.836†	19.1	0.0100 mg/L	0.00203	0.0100 mg/L	0.00203	20.21%
QC value within limits for Sb 206.836 Recovery = 100.35%						
Se 196.026†	18.2	0.0215 mg/L	0.00000	0.0215 mg/L	0.00000	0.01%
QC value within limits for Se 196.026 Recovery = 107.52%						
Sn 189.927†	6.9	-0.0056 mg/L	0.00170	-0.0056 mg/L	0.00170	30.10%
QC value less than the lower limit for Sn 189.927 Recovery = -56.44%						
Sr 407.771†	23346.2	0.0008 mg/L	0.00001	0.0008 mg/L	0.00001	1.16%
QC value within limits for Sr 407.771 Recovery = 83.35%						
Ti 337.279†	7170.9	0.0107 mg/L	0.00009	0.0107 mg/L	0.00009	0.88%
QC value within limits for Ti 337.279 Recovery = 106.59%						
Tl 190.801†	12.5	0.0314 mg/L	0.00226	0.0314 mg/L	0.00226	7.19%
QC value greater than the upper limit for Tl 190.801 Recovery = 313.83%						
V 292.402†	2522.7	0.0106 mg/L	0.00031	0.0106 mg/L	0.00031	2.96%
QC value within limits for V 292.402 Recovery = 106.06%						
Zn 213.857†	831.7	0.0091 mg/L	0.00016	0.0091 mg/L	0.00016	1.75%
QC value within limits for Zn 213.857 Recovery = 91.36%						

QC Failed. Continue with analysis.

Sequence No.: 11
Sample ID: ICSA
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 160
Date Collected: 6/24/2006 6:08:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	K 766.490†	608.3	111.2	0.1529	mg/L	0.1529	mg/L	18:09:44
1	Li 670.784†	167.9	12.4	0.0008	mg/L	0.0008	mg/L	18:09:44
1	Na 589.592	-666.9	508.5	-0.0870	mg/L	-0.0870	mg/L	18:09:44
1	Y 371.029	2993316.0	2993316.0	0.916	mg/L			18:10:09
1	Ag 328.068†	-2173.2	-580.2	0.0017	mg/L	0.0017	mg/L	18:10:14
1	Al 237.313†	1946578.6	2125338.2	245.8	mg/L	245.8	mg/L	18:10:09
1	As 188.979†	12.1	9.3	0.0114	mg/L	0.0114	mg/L	18:10:35
1	B 182.528†	-0.4	3.8	0.0103	mg/L	0.0103	mg/L	18:10:35
1	Ba 233.527†	52.9	233.4	0.0006	mg/L	0.0006	mg/L	18:10:35
1	Be 313.107†	-323.4	-2318.5	0.0002	mg/L	0.0002	mg/L	18:10:14
1	Ca 315.886†	31137688.6	33995238.1	235.2	mg/L	235.2	mg/L	18:10:01
1	Cd 228.802†	104.3	-12.3	0.0001	mg/L	0.0001	mg/L	18:10:35
1	Co 228.616†	-141.6	-0.3	-0.0009	mg/L	-0.0009	mg/L	18:10:35
1	Cr 267.716†	867.3	-251.2	0.0025	mg/L	0.0025	mg/L	18:10:14
1	Cu 324.752†	723.6	-2363.5	0.0061	mg/L	0.0061	mg/L	18:10:14
1	Fe 234.349†	4165423.1	4546462.3	89.41	mg/L	89.41	mg/L	18:10:09
1	Fe 238.204†	9040290.9	9868991.9	85.82	mg/L	85.82	mg/L	18:10:09
1	Mg 279.077†	5206597.9	5683987.3	229.9	mg/L	229.9	mg/L	18:10:09
1	Mn 257.610†	6468.3	5169.6	0.0032	mg/L	0.0032	mg/L	18:10:14
1	Mo 202.031†	209.9	199.9	0.0139	mg/L	0.0139	mg/L	18:10:35
1	Ni 231.604†	84.0	48.7	-0.0016	mg/L	-0.0016	mg/L	18:10:35
1	P 214.914†	-112.3	-146.1	-0.0870	mg/L	-0.0870	mg/L	18:10:35
1	Pb 220.353†	-579.1	-456.8	-0.0099	mg/L	-0.0099	mg/L	18:10:35

1	Sb 206.836†	4.2	-3.2	-0.0007 mg/L	-0.0007 mg/L	18:10:35
1	Se 196.026†	25.6	38.2	0.0455 mg/L	0.0455 mg/L	18:10:35
1	Sn 189.927†	55.9	-77.9	-0.0250 mg/L	-0.0250 mg/L	18:10:35
1	Sr 407.771†	22902.7	18161.4	0.0006 mg/L	0.0006 mg/L	18:10:14
1	Ti 337.279†	1434.6	3844.8	0.0060 mg/L	0.0060 mg/L	18:10:14
1	Tl 190.801†	55.6	59.9	0.0693 mg/L	0.0693 mg/L	18:10:35
1	V 292.402†	583.5	2565.9	-0.0007 mg/L	-0.0007 mg/L	18:10:14
1	Zn 213.857†	2379.2	1932.3	0.0154 mg/L	0.0154 mg/L	18:10:35
2	K 766.490†	701.7	220.0	0.2116 mg/L	0.2116 mg/L	18:09:49
2	Li 670.784†	229.5	81.9	0.0028 mg/L	0.0028 mg/L	18:09:49
2	Na 589.592	-670.7	504.8	-0.0875 mg/L	-0.0875 mg/L	18:09:49
2	Y 371.029	2966790.1	2966790.1	0.908 mg/L		18:10:51
2	Ag 328.068†	-2246.4	-682.1	0.0013 mg/L	0.0013 mg/L	18:10:57
2	Al 237.313†	1941061.8	2138263.2	247.3 mg/L	247.3 mg/L	18:10:51
2	As 188.979†	7.9	4.8	0.0056 mg/L	0.0056 mg/L	18:11:17
2	B 182.528†	1.0	5.3	0.0133 mg/L	0.0133 mg/L	18:11:17
2	Ba 233.527†	52.0	232.9	0.0006 mg/L	0.0006 mg/L	18:11:17
2	Be 313.107†	-413.2	-2420.6	0.0001 mg/L	0.0001 mg/L	18:10:57
2	Ca 315.886†	31111831.1	34270712.9	237.1 mg/L	237.1 mg/L	18:10:44
2	Cd 228.802†	95.2	-21.3	0.0000 mg/L	0.0000 mg/L	18:11:17
2	Co 228.616†	-126.9	14.5	-0.0005 mg/L	-0.0005 mg/L	18:11:17
2	Cr 267.716†	705.4	-421.1	0.0015 mg/L	0.0015 mg/L	18:10:57
2	Cu 324.752†	615.3	-2475.8	0.0057 mg/L	0.0057 mg/L	18:10:57
2	Fe 234.349†	4160189.1	4581358.5	90.10 mg/L	90.10 mg/L	18:10:51
2	Fe 238.204†	9018672.2	9933426.7	86.38 mg/L	86.38 mg/L	18:10:51
2	Mg 279.077†	5171509.4	5696160.5	230.4 mg/L	230.4 mg/L	18:10:51
2	Mn 257.610†	6384.9	5140.9	0.0032 mg/L	0.0032 mg/L	18:10:57
2	Mo 202.031†	208.7	200.6	0.0140 mg/L	0.0140 mg/L	18:11:17
2	Ni 231.604†	64.0	27.6	-0.0023 mg/L	-0.0023 mg/L	18:11:17
2	P 214.914†	-93.7	-126.8	-0.0731 mg/L	-0.0731 mg/L	18:11:17
2	Pb 220.353†	-575.0	-457.9	-0.0098 mg/L	-0.0098 mg/L	18:11:17
2	Sb 206.836†	-5.3	-13.6	-0.0059 mg/L	-0.0059 mg/L	18:11:17
2	Se 196.026†	21.6	34.1	0.0405 mg/L	0.0405 mg/L	18:11:17
2	Sn 189.927†	30.6	-105.2	-0.0324 mg/L	-0.0324 mg/L	18:11:17
2	Sr 407.771†	23297.8	18820.3	0.0006 mg/L	0.0006 mg/L	18:10:57
2	Ti 337.279†	1659.5	4106.5	0.0064 mg/L	0.0064 mg/L	18:10:57
2	Tl 190.801†	56.1	61.0	0.0702 mg/L	0.0702 mg/L	18:11:17
2	V 292.402†	694.4	2693.7	-0.0003 mg/L	-0.0003 mg/L	18:10:57
2	Zn 213.857†	2345.7	1918.6	0.0151 mg/L	0.0151 mg/L	18:11:17

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2980053.0	0.912	mg/L	0.0057				0.63%
Ag 328.068†	-631.1	0.0015	mg/L	0.00024	0.0015	mg/L	0.00024	16.12%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	2131800.7	246.5	mg/L	1.06	246.5	mg/L	1.06	0.43%
QC value within limits for Al 237.313 Recovery = 98.62%								
As 188.979†	7.0	0.0085	mg/L	0.00408	0.0085	mg/L	0.00408	48.03%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	4.5	0.0118	mg/L	0.00217	0.0118	mg/L	0.00217	18.37%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	233.1	0.0006	mg/L	0.00000	0.0006	mg/L	0.00000	0.50%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-2369.5	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	8.36%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	34132975.5	236.2	mg/L	1.35	236.2	mg/L	1.35	0.57%
QC value within limits for Ca 315.886 Recovery = 94.48%								
Cd 228.802†	-16.8	0.0000	mg/L	0.00013	0.0000	mg/L	0.00013	282.51%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	7.1	-0.0007	mg/L	0.00028	-0.0007	mg/L	0.00028	40.60%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-336.1	0.0020	mg/L	0.00078	0.0020	mg/L	0.00078	38.84%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-2419.6	0.0059	mg/L	0.00022	0.0059	mg/L	0.00022	3.66%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	4563910.4	89.75	mg/L	0.485	89.75	mg/L	0.485	0.54%
QC value within limits for Fe 234.349 Recovery = 89.75%								
Fe 238.204†	9901209.3	86.10	mg/L	0.396	86.10	mg/L	0.396	0.46%
QC value within limits for Fe 238.204 Recovery = 86.10%								
K 766.490†	165.6	0.1822	mg/L	0.04149	0.1822	mg/L	0.04149	22.76%

QC value within limits for K 766.490 Recovery = Not calculated

Li 670.784†	47.2	0.0018 mg/L	0.00141	0.0018 mg/L	O.00141	76.84%
QC value within limits for Li 670.784 Recovery = Not calculated							
Mg 279.077†	5690073.9	230.2 mg/L	0.35	230.2 mg/L	0.35	0.15%
QC value within limits for Mg 279.077 Recovery = 92.07%							
Mn 257.610†	5155.2	0.0032 mg/L	0.00002	0.0032 mg/L	O.00002	0.71%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	200.3	0.0139 mg/L	0.00003	0.0139 mg/L	O.00003	0.25%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592	506.7	-0.0873 mg/L	0.00033	-0.0873 mg/L	O.00033	0.38%
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	38.1	-0.0020 mg/L	0.00047	-0.0020 mg/L	O.00047	23.95%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-136.4	-0.0800 mg/L	0.00981	-0.0800 mg/L	O.00981	12.26%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-457.3	-0.0099 mg/L	0.00010	-0.0099 mg/L	O.00010	0.99%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	-8.4	-0.0033 mg/L	0.00362	-0.0033 mg/L	O.00362	109.81%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	36.1	0.0430 mg/L	0.00350	0.0430 mg/L	O.00350	8.13%
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	-91.5	-0.0287 mg/L	0.00523	-0.0287 mg/L	O.00523	18.19%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 407.771†	18490.9	0.0006 mg/L	0.00002	0.0006 mg/L	O.00002	3.44%
QC value within limits for Sr 407.771 Recovery = Not calculated							
Ti 337.279†	3975.7	0.0062 mg/L	0.00026	0.0062 mg/L	O.00026	4.20%
QC value within limits for Ti 337.279 Recovery = Not calculated							
Tl 190.801†	60.4	0.0698 mg/L	0.00062	0.0698 mg/L	O.00062	0.88%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated							
V 292.402†	2629.8	-0.0005 mg/L	0.00031	-0.0005 mg/L	O.00031	57.83%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	1925.4	0.0152 mg/L	0.00016	0.0152 mg/L	O.00016	1.08%
QC value within limits for Zn 213.857 Recovery = Not calculated							

QC Failed. Continue with analysis.

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Sequence No.: 12 **Autosampler Location: 159**
Sample ID: ICSAB **Date Collected: 6/24/2006 6:12:56 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	634.3	140.1	0.1685	mg/L	0.1685	mg/L	18:14:32
1	Li 670.784†	169.5	14.4	0.0009	mg/L	0.0009	mg/L	18:14:32
1	Na 589.592	-643.6	531.9	-0.0841	mg/L	-0.0841	mg/L	18:14:32
1	Y 371.029	2990999.4	2990999.4	0.915	mg/L			18:15:00
1	Ag 328.068†	121204.9	134227.2	0.4894	mg/L	0.4894	mg/L	18:15:05
1	Al 237.313†	1960210.4	2141879.1	247.7	mg/L	247.7	mg/L	18:15:00
1	As 188.979†	12.4	9.5	0.0114	mg/L	0.0114	mg/L	18:15:25
1	B 182.528†	9.7	14.9	0.0334	mg/L	0.0334	mg/L	18:15:25
1	Ba 233.527†	24491.5	26936.3	0.2269	mg/L	0.2269	mg/L	18:15:05
1	Be 313.107†	1024274.0	1117208.4	0.2370	mg/L	0.2370	mg/L	18:15:00
1	Ca 315.886†	31569506.2	34493394.9	238.7	mg/L	238.7	mg/L	18:14:52
1	Cd 228.802†	15722.6	17053.1	0.4293	mg/L	0.4293	mg/L	18:15:05
1	Co 228.616†	6844.7	7633.1	0.2038	mg/L	0.2038	mg/L	18:15:25
1	Cr 267.716†	31738.4	33480.9	0.2285	mg/L	0.2285	mg/L	18:15:05
1	Cu 324.752†	54396.4	56282.8	0.2302	mg/L	0.2302	mg/L	18:15:05
1	Fe 234.349†	4189402.8	4576186.1	89.99	mg/L	89.99	mg/L	18:15:00
1	Fe 238.204†	9057390.4	9895320.4	86.05	mg/L	86.05	mg/L	18:14:52
1	Mg 279.077†	5263812.8	5750906.0	232.6	mg/L	232.6	mg/L	18:15:00
1	Mn 257.610†	189576.8	205248.7	0.2261	mg/L	0.2261	mg/L	18:15:05
1	Mo 202.031†	214.8	205.4	0.0143	mg/L	0.0143	mg/L	18:15:25
1	Ni 231.604†	12177.6	13262.9	0.4129	mg/L	0.4129	mg/L	18:15:05
1	P 214.914†	-65.9	-95.5	-0.0507	mg/L	-0.0507	mg/L	18:15:25
1	Pb 220.353†	2864.6	3305.5	0.4284	mg/L	0.4284	mg/L	18:15:25
1	Sb 206.836†	2.4	-5.2	-0.0054	mg/L	-0.0054	mg/L	18:15:25
1	Se 196.026†	27.4	40.2	0.0479	mg/L	0.0479	mg/L	18:15:25
1	Sn 189.927†	35.7	-100.0	-0.0310	mg/L	-0.0310	mg/L	18:15:25

1	Sr 407.771†	22403.7	17635.6	0.0006 mg/L	0.0006 mg/L	18:15:05
1	Ti 337.279†	1404.9	3813.6	0.0060 mg/L	0.0060 mg/L	18:15:05
1	Tl 190.801†	69.1	74.6	0.0828 mg/L	0.0828 mg/L	18:15:25
1	V 292.402†	52013.8	58761.7	0.2285 mg/L	0.2285 mg/L	18:15:05
1	Zn 213.857†	33813.9	36281.4	0.4561 mg/L	0.4561 mg/L	18:15:05
2	K 766.490†	672.3	184.1	0.1922 mg/L	0.1922 mg/L	18:14:38
2	Li 670.784†	200.6	49.0	0.0019 mg/L	0.0019 mg/L	18:14:38
2	Na 589.592	-662.7	512.8	-0.0865 mg/L	-0.0865 mg/L	18:14:38
2	Y 371.029	2980747.1	2980747.1	0.912 mg/L		18:15:44
2	Ag 328.068†	122603.8	136216.4	0.4965 mg/L	0.4965 mg/L	18:15:50
2	Al 237.313†	1946000.4	2133666.0	246.8 mg/L	246.8 mg/L	18:15:44
2	As 188.979†	7.1	3.8	0.0041 mg/L	0.0041 mg/L	18:16:10
2	B 182.528†	3.7	8.2	0.0195 mg/L	0.0195 mg/L	18:16:10
2	Ba 233.527†	24460.4	26994.3	0.2274 mg/L	0.2274 mg/L	18:15:50
2	Be 313.107†	1018344.8	1114557.0	0.2364 mg/L	0.2364 mg/L	18:15:44
2	Ca 315.886†	31404460.8	34431081.6	238.3 mg/L	238.3 mg/L	18:15:37
2	Cd 228.802†	15751.2	17143.6	0.4316 mg/L	0.4316 mg/L	18:15:50
2	Co 228.616†	6909.2	7729.5	0.2064 mg/L	0.2064 mg/L	18:16:10
2	Cr 267.716†	31727.3	33588.0	0.2293 mg/L	0.2293 mg/L	18:15:50
2	Cu 324.752†	55073.3	57229.4	0.2338 mg/L	0.2338 mg/L	18:15:50
2	Fe 234.349†	4169158.2	4569734.4	89.86 mg/L	89.86 mg/L	18:15:44
2	Fe 238.204†	9009680.7	9877050.5	85.89 mg/L	85.89 mg/L	18:15:37
2	Mg 279.077†	5202023.4	5702942.0	230.7 mg/L	230.7 mg/L	18:15:44
2	Mn 257.610†	189391.9	205758.4	0.2267 mg/L	0.2267 mg/L	18:15:50
2	Mo 202.031†	204.3	194.7	0.0136 mg/L	0.0136 mg/L	18:16:10
2	Ni 231.604†	12072.3	13193.2	0.4107 mg/L	0.4107 mg/L	18:15:50
2	P 214.914†	-59.2	-88.5	-0.0456 mg/L	-0.0456 mg/L	18:16:10
2	Pb 220.353†	2890.2	3344.3	0.4327 mg/L	0.4327 mg/L	18:16:10
2	Sb 206.836†	13.8	7.4	0.0008 mg/L	0.0008 mg/L	18:16:10
2	Se 196.026†	20.1	32.3	0.0384 mg/L	0.0384 mg/L	18:16:10
2	Sn 189.927†	47.9	-86.3	-0.0273 mg/L	-0.0273 mg/L	18:16:10
2	Sr 407.771†	22235.9	17535.8	0.0006 mg/L	0.0006 mg/L	18:15:50
2	Ti 337.279†	1484.7	3906.4	0.0061 mg/L	0.0061 mg/L	18:15:50
2	Tl 190.801†	61.3	66.3	0.0761 mg/L	0.0761 mg/L	18:16:10
2	V 292.402†	51953.4	58891.0	0.2291 mg/L	0.2291 mg/L	18:15:50
2	Zn 213.857†	33728.2	36314.5	0.4565 mg/L	0.4565 mg/L	18:15:50

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2985873.2	0.914	mg/L	0.0022				0.24%
Ag 328.068†	135221.8	0.4930	mg/L	0.00508	0.4930	mg/L	0.00508	1.03%
QC value within limits for Ag 328.068 Recovery = 98.59%								
Al 237.313†	2137772.5	247.2	mg/L	0.67	247.2	mg/L	0.67	0.27%
QC value within limits for Al 237.313 Recovery = 98.89%								
As 188.979†	6.7	0.0077	mg/L	0.00522	0.0077	mg/L	0.00522	67.42%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	11.5	0.0265	mg/L	0.00983	0.0265	mg/L	0.00983	37.15%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	26965.3	0.2272	mg/L	0.00035	0.2272	mg/L	0.00035	0.15%
QC value within limits for Ba 233.527 Recovery = 90.87%								
Be 313.107†	1115882.7	0.2367	mg/L	0.00040	0.2367	mg/L	0.00040	0.17%
QC value within limits for Be 313.107 Recovery = 94.69%								
Ca 315.886†	34462238.2	238.5	mg/L	0.30	238.5	mg/L	0.30	0.13%
QC value within limits for Ca 315.886 Recovery = 95.39%								
Cd 228.802†	17098.4	0.4304	mg/L	0.00164	0.4304	mg/L	0.00164	0.38%
QC value within limits for Cd 228.802 Recovery = 86.08%								
Co 228.616†	7681.3	0.2051	mg/L	0.00183	0.2051	mg/L	0.00183	0.89%
QC value within limits for Co 228.616 Recovery = 82.03%								
Cr 267.716†	33534.4	0.2289	mg/L	0.00050	0.2289	mg/L	0.00050	0.22%
QC value within limits for Cr 267.716 Recovery = 91.56%								
Cu 324.752†	56756.1	0.2320	mg/L	0.00254	0.2320	mg/L	0.00254	1.10%
QC value within limits for Cu 324.752 Recovery = 92.79%								
Fe 234.349†	4572960.2	89.93	mg/L	0.090	89.93	mg/L	0.090	0.10%
QC value within limits for Fe 234.349 Recovery = 89.93%								
Fe 238.204†	9886185.4	85.97	mg/L	0.112	85.97	mg/L	0.112	0.13%
QC value within limits for Fe 238.204 Recovery = 85.97%								
K 766.490†	162.1	0.1804	mg/L	0.01678	0.1804	mg/L	0.01678	9.30%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	31.7	0.0014	mg/L	0.00070	0.0014	mg/L	0.00070	50.55%
QC value within limits for Li 670.784 Recovery = Not calculated								

Mg 279.077†	5726924.0	231.7 mg/L	1.37	231.7 mg/L	1.37	0.59%
QC value within limits for Mg 279.077 Recovery = 92.66%						
Mn 257.610†	205503.6	0.2264 mg/L	0.00040	0.2264 mg/L	0.00040	0.18%
QC value within limits for Mn 257.610 Recovery = 90.57%						
Mo 202.031†	200.0	0.0139 mg/L	0.00053	0.0139 mg/L	0.00053	3.78%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	522.3	-0.0853 mg/L	0.00169	-0.0853 mg/L	0.00169	1.98%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	13228.0	0.4118 mg/L	0.00154	0.4118 mg/L	0.00154	0.37%
QC value within limits for Ni 231.604 Recovery = 82.36%						
P 214.914†	-92.0	-0.0481 mg/L	0.00358	-0.0481 mg/L	0.00358	7.44%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	3324.9	0.4305 mg/L	0.00307	0.4305 mg/L	0.00307	0.71%
QC value within limits for Pb 220.353 Recovery = 86.10%						
Sb 206.836†	1.1	-0.0023 mg/L	0.00438	-0.0023 mg/L	0.00438	194.37%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	36.2	0.0431 mg/L	0.00668	0.0431 mg/L	0.00668	15.48%
QC value greater than the upper limit for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-93.2	-0.0292 mg/L	0.00260	-0.0292 mg/L	0.00260	8.93%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	17585.7	0.0006 mg/L	0.00000	0.0006 mg/L	0.00000	0.56%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	3860.0	0.0060 mg/L	0.00009	0.0060 mg/L	0.00009	1.53%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	70.5	0.0794 mg/L	0.00470	0.0794 mg/L	0.00470	5.92%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated						
V 292.402†	58826.4	0.2288 mg/L	0.00038	0.2288 mg/L	0.00038	0.16%
QC value within limits for V 292.402 Recovery = 91.52%						
Zn 213.857†	36298.0	0.4563 mg/L	0.00032	0.4563 mg/L	0.00032	0.07%
QC value within limits for Zn 213.857 Recovery = 91.26%						

QC Failed. Continue with analysis.

Sequence No.: 13 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 6/24/2006 6:17:49 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	44915.0	45048.2	24.38	mg/L	24.38	mg/L	18:19:25
1	Li 670.784†	17222.3	17314.5	0.4965	mg/L	0.4965	mg/L	18:19:25
1	Na 589.592	199748.1	200923.6	25.05	mg/L	25.05	mg/L	18:19:25
1	Y 371.029	3218941.1	3218941.1	0.985	mg/L			18:19:40
1	Ag 328.068†	66055.8	68857.4	0.2497	mg/L	0.2497	mg/L	18:19:45
1	Al 237.313†	21153.6	21530.4	2.487	mg/L	2.487	mg/L	18:19:45
1	As 188.979†	383.6	385.4	0.4928	mg/L	0.4928	mg/L	18:20:05
1	B 182.528†	222.6	230.3	0.4845	mg/L	0.4845	mg/L	18:20:05
1	Ba 233.527†	58056.5	59119.1	0.5000	mg/L	0.5000	mg/L	18:19:45
1	Be 313.107†	231126.7	232692.3	0.0489	mg/L	0.0489	mg/L	18:19:40
1	Ca 315.886†	713806.4	723659.5	5.003	mg/L	5.003	mg/L	18:19:40
1	Cd 228.802†	9925.7	9951.1	0.2493	mg/L	0.2493	mg/L	18:20:05
1	Co 228.616†	18127.8	18559.0	0.4958	mg/L	0.4958	mg/L	18:19:45
1	Cr 267.716†	74718.6	74662.0	0.4991	mg/L	0.4991	mg/L	18:19:45
1	Cu 324.752†	131970.4	130833.1	0.4995	mg/L	0.4995	mg/L	18:19:45
1	Fe 234.349†	127374.6	127952.3	2.504	mg/L	2.504	mg/L	18:19:45
1	Fe 238.204†	287105.3	290246.9	2.514	mg/L	2.514	mg/L	18:19:45
1	Mg 279.077†	123290.1	124570.4	5.024	mg/L	5.024	mg/L	18:19:45
1	Mn 257.610†	445674.0	450590.1	0.4995	mg/L	0.4995	mg/L	18:19:40
1	Mo 202.031†	7118.2	7197.7	0.4998	mg/L	0.4998	mg/L	18:20:05
1	Ni 231.604†	15917.8	16118.0	0.5029	mg/L	0.5029	mg/L	18:19:45
1	P 214.914†	6784.3	6864.5	4.942	mg/L	4.942	mg/L	18:20:05
1	Pb 220.353†	4082.1	4320.0	0.5027	mg/L	0.5027	mg/L	18:20:05
1	Sb 206.836†	1002.5	1010.1	0.4899	mg/L	0.4899	mg/L	18:20:05
1	Se 196.026†	805.2	827.8	0.9925	mg/L	0.9925	mg/L	18:20:05
1	Sn 189.927†	1980.8	1872.2	0.5006	mg/L	0.5006	mg/L	18:20:05
1	Sr 407.771†	1098394.6	1108331.3	0.0499	mg/L	0.0499	mg/L	18:19:40
1	Ti 337.279†	347471.6	355058.5	0.4984	mg/L	0.4984	mg/L	18:19:45
1	Tl 190.801†	539.3	546.6	0.4624	mg/L	0.4624	mg/L	18:20:05

1	V 292.402†	118215.6	121950.4	0.5053 mg/L	0.5053 mg/L	18:19:45
1	Zn 213.857†	38908.7	38837.8	0.4970 mg/L	0.4970 mg/L	18:19:45
2	K 766.490†	44793.6	45062.6	24.39 mg/L	24.39 mg/L	18:19:30
2	Li 670.784†	17230.1	17375.4	0.4983 mg/L	0.4983 mg/L	18:19:30
2	Na 589.592	197625.9	198801.4	24.78 mg/L	24.78 mg/L	18:19:30
2	Y 371.029	3209226.9	3209226.9	0.982 mg/L		18:20:12
2	Ag 328.068†	65589.5	68585.7	0.2487 mg/L	0.2487 mg/L	18:20:18
2	Al 237.313†	20847.2	21283.4	2.459 mg/L	2.459 mg/L	18:20:18
2	As 188.979†	384.4	387.5	0.4955 mg/L	0.4955 mg/L	18:20:38
2	B 182.528†	225.1	233.4	0.4912 mg/L	0.4912 mg/L	18:20:38
2	Ba 233.527†	57240.6	58466.6	0.4944 mg/L	0.4944 mg/L	18:20:18
2	Be 313.107†	230422.7	232685.7	0.0489 mg/L	0.0489 mg/L	18:20:12
2	Ca 315.886†	708624.2	720576.0	4.981 mg/L	4.981 mg/L	18:20:12
2	Cd 228.802†	9888.5	9943.7	0.2490 mg/L	0.2490 mg/L	18:20:38
2	Co 228.616†	17898.5	18381.2	0.4910 mg/L	0.4910 mg/L	18:20:18
2	Cr 267.716†	73580.8	73732.9	0.4929 mg/L	0.4929 mg/L	18:20:18
2	Cu 324.752†	129996.4	129228.4	0.4933 mg/L	0.4933 mg/L	18:20:18
2	Fe 234.349†	125688.5	126626.7	2.478 mg/L	2.478 mg/L	18:20:18
2	Fe 238.204†	283040.0	286989.4	2.486 mg/L	2.486 mg/L	18:20:18
2	Mg 279.077†	121445.1	123070.4	4.963 mg/L	4.963 mg/L	18:20:18
2	Mn 257.610†	444111.3	450368.4	0.4992 mg/L	0.4992 mg/L	18:20:12
2	Mo 202.031†	7082.9	7183.6	0.4988 mg/L	0.4988 mg/L	18:20:38
2	Ni 231.604†	15622.7	15866.4	0.4950 mg/L	0.4950 mg/L	18:20:18
2	P 214.914†	6729.5	6829.5	4.917 mg/L	4.917 mg/L	18:20:38
2	Pb 220.353†	4071.6	4321.8	0.5029 mg/L	0.5029 mg/L	18:20:38
2	Sb 206.836†	996.2	1006.7	0.4884 mg/L	0.4884 mg/L	18:20:38
2	Se 196.026†	795.2	820.0	0.9832 mg/L	0.9832 mg/L	18:20:38
2	Sn 189.927†	1960.5	1857.6	0.4967 mg/L	0.4967 mg/L	18:20:38
2	Sr 407.771†	1097923.0	1111226.6	0.0501 mg/L	0.0501 mg/L	18:20:12
2	Ti 337.279†	343305.1	351883.4	0.4939 mg/L	0.4939 mg/L	18:20:18
2	Tl 190.801†	559.6	569.0	0.4804 mg/L	0.4804 mg/L	18:20:38
2	V 292.402†	116189.0	120249.9	0.4984 mg/L	0.4984 mg/L	18:20:18
2	Zn 213.857†	38337.5	38375.6	0.4911 mg/L	0.4911 mg/L	18:20:18

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3214084.0	0.983	mg/L	0.0021				0.21%
Ag 328.068†	68721.6	0.2492	mg/L	0.00070	0.2492	mg/L	0.00070	0.28%
QC value within limits for Ag 328.068 Recovery = 99.68%								
Al 237.313†	21406.9	2.473	mg/L	0.0202	2.473	mg/L	0.0202	0.82%
QC value within limits for Al 237.313 Recovery = 98.92%								
As 188.979†	386.5	0.4941	mg/L	0.00188	0.4941	mg/L	0.00188	0.38%
QC value within limits for As 188.979 Recovery = 98.83%								
B 182.528†	231.9	0.4879	mg/L	0.00473	0.4879	mg/L	0.00473	0.97%
QC value within limits for B 182.528 Recovery = 97.57%								
Ba 233.527†	58792.8	0.4972	mg/L	0.00391	0.4972	mg/L	0.00391	0.79%
QC value within limits for Ba 233.527 Recovery = 99.44%								
Be 313.107†	232689.0	0.0489	mg/L	0.00000	0.0489	mg/L	0.00000	0.00%
QC value within limits for Be 313.107 Recovery = 97.80%								
Ca 315.886†	722117.8	4.992	mg/L	0.0151	4.992	mg/L	0.0151	0.30%
QC value within limits for Ca 315.886 Recovery = 99.84%								
Cd 228.802†	9947.4	0.2491	mg/L	0.00016	0.2491	mg/L	0.00016	0.06%
QC value within limits for Cd 228.802 Recovery = 99.66%								
Co 228.616†	18470.1	0.4934	mg/L	0.00336	0.4934	mg/L	0.00336	0.68%
QC value within limits for Co 228.616 Recovery = 98.68%								
Cr 267.716†	74197.5	0.4960	mg/L	0.00440	0.4960	mg/L	0.00440	0.89%
QC value within limits for Cr 267.716 Recovery = 99.19%								
Cu 324.752†	130030.7	0.4964	mg/L	0.00434	0.4964	mg/L	0.00434	0.87%
QC value within limits for Cu 324.752 Recovery = 99.28%								
Fe 234.349†	127289.5	2.491	mg/L	0.0184	2.491	mg/L	0.0184	0.74%
QC value within limits for Fe 234.349 Recovery = 99.62%								
Fe 238.204†	288618.1	2.500	mg/L	0.0200	2.500	mg/L	0.0200	0.80%
QC value within limits for Fe 238.204 Recovery = 99.99%								
K 766.490†	45055.4	24.39	mg/L	0.005	24.39	mg/L	0.005	0.02%
QC value within limits for K 766.490 Recovery = 97.54%								
Li 670.784†	17344.9	0.4974	mg/L	0.00123	0.4974	mg/L	0.00123	0.25%
QC value within limits for Li 670.784 Recovery = 99.48%								
Mg 279.077†	123820.4	4.994	mg/L	0.0429	4.994	mg/L	0.0429	0.86%
QC value within limits for Mg 279.077 Recovery = 99.87%								
Mn 257.610†	450479.3	0.4993	mg/L	0.00018	0.4993	mg/L	0.00018	0.04%

QC value within limits for Mn 257.610 Recovery = 99.87%						
Mo 202.031†	7190.6	0.4993 mg/L	0.00069	0.4993 mg/L	0.00069	0.14%
QC value within limits for Mo 202.031 Recovery = 99.86%						
Na 589.592	199862.5	24.91 mg/L	0.188	24.91 mg/L	0.188	0.76%
QC value within limits for Na 589.592 Recovery = 99.65%						
Ni 231.604†	15992.2	0.4989 mg/L	0.00558	0.4989 mg/L	0.00558	1.12%
QC value within limits for Ni 231.604 Recovery = 99.78%						
P 214.914†	6847.0	4.929 mg/L	0.0178	4.929 mg/L	0.0178	0.36%
QC value within limits for P 214.914 Recovery = 98.58%						
Pb 220.353†	4320.9	0.5028 mg/L	0.00015	0.5028 mg/L	0.00015	0.03%
QC value within limits for Pb 220.353 Recovery = 100.55%						
Sb 206.836†	1008.4	0.4891 mg/L	0.00111	0.4891 mg/L	0.00111	0.23%
QC value within limits for Sb 206.836 Recovery = 97.83%						
Se 196.026†	823.9	0.9878 mg/L	0.00660	0.9878 mg/L	0.00660	0.67%
QC value within limits for Se 196.026 Recovery = 98.78%						
Sn 189.927†	1864.9	0.4986 mg/L	0.00280	0.4986 mg/L	0.00280	0.56%
QC value within limits for Sn 189.927 Recovery = 99.73%						
Sr 407.771†	1109779.0	0.0500 mg/L	0.00009	0.0500 mg/L	0.00009	0.19%
QC value within limits for Sr 407.771 Recovery = 100.02%						
Ti 337.279†	353470.9	0.4962 mg/L	0.00315	0.4962 mg/L	0.00315	0.63%
QC value within limits for Ti 337.279 Recovery = 99.23%						
Tl 190.801†	557.8	0.4714 mg/L	0.01271	0.4714 mg/L	0.01271	2.70%
QC value within limits for Tl 190.801 Recovery = 94.28%						
V 292.402†	121100.2	0.5019 mg/L	0.00491	0.5019 mg/L	0.00491	0.98%
QC value within limits for V 292.402 Recovery = 100.37%						
Zn 213.857†	38606.7	0.4941 mg/L	0.00419	0.4941 mg/L	0.00419	0.85%
QC value within limits for Zn 213.857 Recovery = 98.81%						

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/24/2006 6:22:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490†	648.4	102.3	0.1481	mg/L	0.1481	mg/L	18:23:49
1	Li 670.784†	151.4	-17.9	0.0000	mg/L	0.0000	mg/L	18:23:49
1	Na 589.592	-815.1	360.4	-0.1056	mg/L	-0.1056	mg/L	18:23:49
1	Y 371.029	3233422.1	3233422.1	0.989	mg/L			18:24:02
1	Ag 328.068†	-1359.2	418.7	0.0017	mg/L	0.0017	mg/L	18:24:07
1	Al 237.313†	-56.7	-3.7	0.0019	mg/L	0.0019	mg/L	18:24:28
1	As 188.979†	4.2	0.3	-0.0001	mg/L	-0.0001	mg/L	18:24:28
1	B 182.528†	-1.7	2.5	0.0076	mg/L	0.0076	mg/L	18:24:28
1	Ba 233.527†	-164.9	9.0	-0.0013	mg/L	-0.0013	mg/L	18:24:28
1	Be 313.107†	1930.8	-13.9	0.0001	mg/L	0.0001	mg/L	18:24:07
1	Ca 315.886†	819.6	-223.4	-0.0090	mg/L	-0.0090	mg/L	18:24:07
1	Cd 228.802†	120.0	-4.9	-0.0002	mg/L	-0.0002	mg/L	18:24:28
1	Co 228.616†	-152.2	0.4	-0.0009	mg/L	-0.0009	mg/L	18:24:28
1	Cr 267.716†	1227.5	42.5	-0.0008	mg/L	-0.0008	mg/L	18:24:07
1	Cu 324.752†	3107.5	-12.7	-0.0011	mg/L	-0.0011	mg/L	18:24:07
1	Fe 234.349†	1400.5	47.3	-0.0064	mg/L	-0.0064	mg/L	18:24:28
1	Fe 238.204†	1339.0	108.8	-0.0101	mg/L	-0.0101	mg/L	18:24:28
1	Mg 279.077†	630.7	34.2	-0.0189	mg/L	-0.0189	mg/L	18:24:07
1	Mn 257.610†	1851.1	-21.6	-0.0026	mg/L	-0.0026	mg/L	18:24:07
1	Mo 202.031†	58.3	29.7	0.0021	mg/L	0.0021	mg/L	18:24:28
1	Ni 231.604†	59.8	17.5	-0.0026	mg/L	-0.0026	mg/L	18:24:28
1	P 214.914†	16.8	-6.6	0.0131	mg/L	0.0131	mg/L	18:24:28
1	Pb 220.353†	-162.4	11.4	-0.0002	mg/L	-0.0002	mg/L	18:24:28
1	Sb 206.836†	8.6	0.9	0.0013	mg/L	0.0013	mg/L	18:24:28
1	Se 196.026†	-4.5	5.8	0.0066	mg/L	0.0066	mg/L	18:24:28
1	Sn 189.927†	111.8	-25.9	-0.0145	mg/L	-0.0145	mg/L	18:24:28
1	Sr 407.771†	6637.3	-135.3	-0.0002	mg/L	-0.0002	mg/L	18:24:02
1	Ti 337.279†	-2178.4	76.7	0.0007	mg/L	0.0007	mg/L	18:24:07
1	Tl 190.801†	28.0	27.5	0.0433	mg/L	0.0433	mg/L	18:24:28
1	V 292.402†	-1882.3	26.3	0.0003	mg/L	0.0003	mg/L	18:24:07
1	Zn 213.857†	652.9	-5.4	-0.0016	mg/L	-0.0016	mg/L	18:24:28
2	K 766.490†	640.6	88.8	0.1409	mg/L	0.1409	mg/L	18:23:54

2	Li 670.784†	164.3	-6.3	0.0003 mg/L	0.0003 mg/L	18:23:54
2	Na 589.592	-820.7	354.7	-0.1063 mg/L	-0.1063 mg/L	18:23:54
2	Y 371.029	3261772.7	3261772.7	0.998 mg/L		18:24:33
2	Ag 328.068†	-1585.7	203.7	0.0009 mg/L	0.0009 mg/L	18:24:39
2	Al 237.313†	-57.3	-3.8	0.0019 mg/L	0.0019 mg/L	18:24:59
2	As 188.979†	7.1	3.1	0.0035 mg/L	0.0035 mg/L	18:24:59
2	B 182.528†	0.6	4.8	0.0123 mg/L	0.0123 mg/L	18:24:59
2	Ba 233.527†	-167.5	7.8	-0.0013 mg/L	-0.0013 mg/L	18:24:59
2	Be 313.107†	1782.1	-179.9	0.0001 mg/L	0.0001 mg/L	18:24:39
2	Ca 315.886†	1055.2	5.4	-0.0075 mg/L	-0.0075 mg/L	18:24:39
2	Cd 228.802†	134.3	8.4	0.0001 mg/L	0.0001 mg/L	18:24:59
2	Co 228.616†	-164.1	-10.2	-0.0011 mg/L	-0.0011 mg/L	18:24:59
2	Cr 267.716†	1296.9	101.2	-0.0004 mg/L	-0.0004 mg/L	18:24:39
2	Cu 324.752†	3022.7	-124.9	-0.0015 mg/L	-0.0015 mg/L	18:24:39
2	Fe 234.349†	1353.4	-12.3	-0.0076 mg/L	-0.0076 mg/L	18:24:59
2	Fe 238.204†	1269.0	26.9	-0.0108 mg/L	-0.0108 mg/L	18:24:59
2	Mg 279.077†	613.7	11.6	-0.0199 mg/L	-0.0199 mg/L	18:24:39
2	Mn 257.610†	1820.0	-69.0	-0.0026 mg/L	-0.0026 mg/L	18:24:39
2	Mo 202.031†	40.7	11.6	0.0008 mg/L	0.0008 mg/L	18:24:59
2	Ni 231.604†	44.5	1.6	-0.0031 mg/L	-0.0031 mg/L	18:24:59
2	P 214.914†	20.5	-3.0	0.0157 mg/L	0.0157 mg/L	18:24:59
2	Pb 220.353†	-169.3	5.9	-0.0008 mg/L	-0.0008 mg/L	18:24:59
2	Sb 206.836†	2.6	-5.1	-0.0017 mg/L	-0.0017 mg/L	18:24:59
2	Se 196.026†	-6.9	3.4	0.0037 mg/L	0.0037 mg/L	18:24:59
2	Sn 189.927†	104.8	-33.9	-0.0167 mg/L	-0.0167 mg/L	18:24:59
2	Sr 407.771†	6515.6	-315.5	-0.0002 mg/L	-0.0002 mg/L	18:24:33
2	Ti 337.279†	-2162.2	112.1	0.0008 mg/L	0.0008 mg/L	18:24:39
2	Tl 190.801†	20.7	19.9	0.0372 mg/L	0.0372 mg/L	18:24:59
2	V 292.402†	-1781.4	144.0	0.0008 mg/L	0.0008 mg/L	18:24:39
2	Zn 213.857†	642.1	-22.0	-0.0018 mg/L	-0.0018 mg/L	18:24:59

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3247597.4	0.994	mg/L	0.0061				0.62%
Ag 328.068†	311.2	0.0013	mg/L	0.00055	0.0013	mg/L	0.00055	42.16%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	-3.7	0.0019	mg/L	0.00001	0.0019	mg/L	0.00001	0.53%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	1.7	0.0017	mg/L	0.00254	0.0017	mg/L	0.00254	148.87%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	3.7	0.0100	mg/L	0.00333	0.0100	mg/L	0.00333	33.43%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	8.4	-0.0013	mg/L	0.00001	-0.0013	mg/L	0.00001	0.60%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-96.9	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	23.89%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	-109.0	-0.0082	mg/L	0.00112	-0.0082	mg/L	0.00112	13.61%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	1.7	-0.0001	mg/L	0.00022	-0.0001	mg/L	0.00022	279.95%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-4.9	-0.0010	mg/L	0.00020	-0.0010	mg/L	0.00020	20.15%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	71.9	-0.0006	mg/L	0.00028	-0.0006	mg/L	0.00028	43.40%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-68.8	-0.0013	mg/L	0.00030	-0.0013	mg/L	0.00030	23.66%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	17.5	-0.0070	mg/L	0.00082	-0.0070	mg/L	0.00082	11.78%
QC value within limits for Fe 234.349 Recovery = Not calculated								
Fe 238.204†	67.8	-0.0105	mg/L	0.00050	-0.0105	mg/L	0.00050	4.81%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	95.6	0.1445	mg/L	0.00514	0.1445	mg/L	0.00514	3.56%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated								
Li 670.784†	-12.1	0.0001	mg/L	0.00024	0.0001	mg/L	0.00024	175.67%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	22.9	-0.0194	mg/L	0.00065	-0.0194	mg/L	0.00065	3.33%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-45.3	-0.0026	mg/L	0.00004	-0.0026	mg/L	0.00004	1.44%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	20.6	0.0015	mg/L	0.00089	0.0015	mg/L	0.00089	60.45%
QC value within limits for Mo 202.031 Recovery = Not calculated								

Na 589.592	357.6	-0.1060 mg/L	0.00050	-0.1060 mg/L	0.00050	0.47%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	9.5	-0.0029 mg/L	0.00035	-0.0029 mg/L	0.00035	12.38%
QC value less than the lower limit for Ni 231.604 Recovery = Not calculated						
P 214.914†	-4.8	0.0144 mg/L	0.00181	0.0144 mg/L	0.00181	12.53%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	8.6	-0.0005 mg/L	0.00046	-0.0005 mg/L	0.00046	86.75%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-2.1	-0.0002 mg/L	0.00212	-0.0002 mg/L	0.00212	973.38%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	4.6	0.0052 mg/L	0.00206	0.0052 mg/L	0.00206	39.85%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-29.9	-0.0156 mg/L	0.00154	-0.0156 mg/L	0.00154	9.86%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	-225.4	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	2.47%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	94.4	0.0007 mg/L	0.00004	0.0007 mg/L	0.00004	4.75%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	23.7	0.0403 mg/L	0.00429	0.0403 mg/L	0.00429	10.66%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated						
V 292.402†	85.1	0.0005 mg/L	0.00032	0.0005 mg/L	0.00032	60.27%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-13.7	-0.0017 mg/L	0.00015	-0.0017 mg/L	0.00015	8.62%
QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 15
Sample ID: 0606340-01tclp x10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 6/24/2006 6:26:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606340-01tclp x10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1767.3	1303.0	0.7955	mg/L	0.7955	mg/L	18:28:15
1	Li 670.784†	158.4	-4.6	0.0003	mg/L	0.0003	mg/L	18:28:15
1	Na 589.592	1079048.3	1080223.7	135.3	mg/L	135.3	mg/L	18:28:10
1	Y 371.029	3112018.8	3112018.8	0.952	mg/L			18:28:35
1	Ag 328.068†	-1688.0	19.8	0.0003	mg/L	0.0003	mg/L	18:28:41
1	Al 237.313†	158.8	220.4	0.0270	mg/L	0.0270	mg/L	18:29:01
1	As 188.979†	3.7	-0.1	-0.0006	mg/L	-0.0006	mg/L	18:29:01
1	B 182.528†	2.6	7.0	0.0169	mg/L	0.0169	mg/L	18:29:01
1	Ba 233.527†	6929.6	7452.8	0.0618	mg/L	0.0618	mg/L	18:28:41
1	Be 313.107†	1890.2	19.6	0.0001	mg/L	0.0001	mg/L	18:28:41
1	Ca 315.886†	3737619.3	3924046.7	27.15	mg/L	27.15	mg/L	18:28:35
1	Cd 228.802†	137.0	17.7	0.0003	mg/L	0.0003	mg/L	18:29:01
1	Co 228.616†	-54.1	97.4	0.0017	mg/L	0.0017	mg/L	18:29:01
1	Cr 267.716†	1326.9	195.3	0.0000	mg/L	0.0000	mg/L	18:28:41
1	Cu 324.752†	66040.6	66199.7	0.2519	mg/L	0.2519	mg/L	18:28:41
1	Fe 234.349†	3136.3	1925.3	0.0305	mg/L	0.0305	mg/L	18:28:41
1	Fe 238.204†	3871.7	2821.4	0.0135	mg/L	0.0135	mg/L	18:29:01
1	Mg 279.077†	19403.9	19773.9	0.7822	mg/L	0.7822	mg/L	18:28:41
1	Mn 257.610†	212250.8	221004.8	0.2436	mg/L	0.2436	mg/L	18:28:41
1	Mo 202.031†	87.9	63.1	0.0044	mg/L	0.0044	mg/L	18:29:01
1	Ni 231.604†	150.4	114.9	0.0005	mg/L	0.0005	mg/L	18:29:01
1	P 214.914†	70.1	50.1	0.0538	mg/L	0.0538	mg/L	18:29:01
1	Pb 220.353†	4789.9	5205.7	0.6045	mg/L	0.6045	mg/L	18:28:41
1	Sb 206.836†	50.6	45.4	0.0232	mg/L	0.0232	mg/L	18:29:01
1	Se 196.026†	-9.4	0.4	0.0002	mg/L	0.0002	mg/L	18:29:01
1	Sn 189.927†	134.6	2.4	-0.0069	mg/L	-0.0069	mg/L	18:29:01
1	Sr 407.771†	1717347.7	1796646.1	0.0811	mg/L	0.0811	mg/L	18:28:35
1	Ti 337.279†	-2166.6	3.2	0.0006	mg/L	0.0006	mg/L	18:28:41
1	Tl 190.801†	18.5	18.6	0.0404	mg/L	0.0404	mg/L	18:29:01
1	V 292.402†	-1897.0	-63.3	0.0000	mg/L	0.0000	mg/L	18:28:41
1	Zn 213.857†	14217.2	14265.0	0.1825	mg/L	0.1825	mg/L	18:28:41
2	K 766.490†	1813.3	1333.1	0.8117	mg/L	0.8117	mg/L	18:28:26
2	Li 670.784†	186.5	23.2	0.0011	mg/L	0.0011	mg/L	18:28:26
2	Na 589.592	1081082.6	1082258.0	135.6	mg/L	135.6	mg/L	18:28:21
2	Y 371.029	3141879.8	3141879.8	0.961	mg/L			18:29:08

Zn 213.857†	129568.9	1.670 mg/L	0.0048	1.670 mg/L	0.0048	0.29

Sequence No.: 22
Sample ID: BF62403-blk1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 16
Date Collected: 6/24/2006 6:58:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62403-blk1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	752.9	171.0	0.1852	mg/L	0.1852	mg/L	18:59:5
1	Li 670.784†	160.7	-16.3	0.0000	mg/L	0.0000	mg/L	18:59:5
1	Na 589.592	1026.7	2202.2	0.1253	mg/L	0.1253	mg/L	18:59:5
1	Y 371.029	3398434.9	3398434.9	1.04	mg/L			19:00:1
1	Ag 328.068†	-1834.4	28.5	0.0003	mg/L	0.0003	mg/L	19:00:1
1	Al 237.313†	187.6	234.1	0.0291	mg/L	0.0291	mg/L	19:00:3
1	As 188.979†	7.4	3.1	0.0035	mg/L	0.0035	mg/L	19:00:3
1	B 182.528†	0.1	4.3	0.0113	mg/L	0.0113	mg/L	19:00:3
1	Ba 233.527†	-165.8	16.2	-0.0012	mg/L	-0.0012	mg/L	19:00:3
1	Be 313.107†	1634.4	-393.7	0.0000	mg/L	0.0000	mg/L	19:00:17
1	Ca 315.886†	10163.2	8721.6	0.0529	mg/L	0.0529	mg/L	19:00:17
1	Cd 228.802†	134.6	3.3	0.0000	mg/L	0.0000	mg/L	19:00:37
1	Co 228.616†	-163.6	-3.1	-0.0010	mg/L	-0.0010	mg/L	19:00:37
1	Cr 267.716†	1504.1	248.3	0.0005	mg/L	0.0005	mg/L	19:00:17
1	Cu 324.752†	4482.1	1156.7	0.0034	mg/L	0.0034	mg/L	19:00:17
1	Fe 234.349†	6169.6	4564.8	0.0824	mg/L	0.0824	mg/L	19:00:17
1	Fe 238.204†	12259.9	10545.2	0.0807	mg/L	0.0807	mg/L	19:00:17
1	Mg 279.077†	1138.3	491.4	-0.0004	mg/L	-0.0004	mg/L	19:00:17
1	Mn 257.610†	5340.8	3243.5	0.0011	mg/L	0.0011	mg/L	19:00:17
1	Mo 202.031†	36.0	5.4	0.0004	mg/L	0.0004	mg/L	19:00:37
1	Ni 231.604†	95.6	48.9	-0.0016	mg/L	-0.0016	mg/L	19:00:37
1	P 214.914†	30.8	6.1	0.0223	mg/L	0.0223	mg/L	19:00:37
1	Pb 220.353†	39.7	213.7	0.0233	mg/L	0.0233	mg/L	19:00:37
1	Sb 206.836†	4.2	-3.7	-0.0011	mg/L	-0.0011	mg/L	19:00:37
1	Se 196.026†	-7.2	3.3	0.0037	mg/L	0.0037	mg/L	19:00:37
1	Sn 189.927†	128.1	-15.7	-0.0118	mg/L	-0.0118	mg/L	19:00:37
1	Sr 407.771†	8511.0	1340.8	-0.0002	mg/L	-0.0002	mg/L	19:00:12
1	Ti 337.279†	-2000.5	354.7	0.0011	mg/L	0.0011	mg/L	19:00:17
1	Tl 190.801†	19.9	18.3	0.0360	mg/L	0.0360	mg/L	19:00:37
1	V 292.402†	-1867.6	132.8	0.0007	mg/L	0.0007	mg/L	19:00:17
1	Zn 213.857†	3305.1	2513.0	0.0309	mg/L	0.0309	mg/L	19:00:37
2	K 766.490†	681.6	102.4	0.1482	mg/L	0.1482	mg/L	19:00:04
2	Li 670.784†	200.9	22.3	0.0011	mg/L	0.0011	mg/L	19:00:04
2	Na 589.592	1072.2	2247.7	0.1310	mg/L	0.1310	mg/L	19:00:04
2	Y 371.029	3398337.4	3398337.4	1.04	mg/L			19:00:43
2	Ag 328.068†	-1885.3	-20.5	0.0001	mg/L	0.0001	mg/L	19:00:49
2	Al 237.313†	165.1	212.4	0.0266	mg/L	0.0266	mg/L	19:01:09
2	As 188.979†	6.9	2.6	0.0029	mg/L	0.0029	mg/L	19:01:09
2	B 182.528†	-2.0	2.3	0.0072	mg/L	0.0072	mg/L	19:01:09
2	Ba 233.527†	-172.1	10.1	-0.0013	mg/L	-0.0013	mg/L	19:01:09
2	Be 313.107†	1950.9	-89.3	0.0001	mg/L	0.0001	mg/L	19:00:49
2	Ca 315.886†	9966.8	8533.0	0.0516	mg/L	0.0516	mg/L	19:00:49
2	Cd 228.802†	142.3	10.6	0.0001	mg/L	0.0001	mg/L	19:01:09
2	Co 228.616†	-176.7	-15.6	-0.0013	mg/L	-0.0013	mg/L	19:01:09
2	Cr 267.716†	1579.0	320.4	0.0010	mg/L	0.0010	mg/L	19:00:49
2	Cu 324.752†	4300.5	982.2	0.0028	mg/L	0.0028	mg/L	19:00:49
2	Fe 234.349†	6123.4	4520.5	0.0816	mg/L	0.0816	mg/L	19:00:49
2	Fe 238.204†	12120.2	10411.2	0.0795	mg/L	0.0795	mg/L	19:00:49
2	Mg 279.077†	1083.0	438.2	-0.0026	mg/L	-0.0026	mg/L	19:00:49
2	Mn 257.610†	5305.0	3209.2	0.0010	mg/L	0.0010	mg/L	19:00:49
2	Mo 202.031†	28.6	-1.8	-0.0001	mg/L	-0.0001	mg/L	19:01:09
2	Ni 231.604†	79.0	33.0	-0.0021	mg/L	-0.0021	mg/L	19:01:09
2	P 214.914†	28.1	3.6	0.0204	mg/L	0.0204	mg/L	19:01:09
2	Pb 220.353†	38.5	212.5	0.0232	mg/L	0.0232	mg/L	19:01:09
2	Sb 206.836†	2.0	-5.8	-0.0021	mg/L	-0.0021	mg/L	19:01:09
2	Se 196.026†	-9.2	1.4	0.0014	mg/L	0.0014	mg/L	19:01:09
2	Sn 189.927†	119.7	-23.8	-0.0140	mg/L	-0.0140	mg/L	19:01:09
2	Sr 407.771†	8599.1	1425.7	-0.0002	mg/L	-0.0002	mg/L	19:00:43
2	Ti 337.279†	-2044.0	312.8	0.0010	mg/L	0.0010	mg/L	19:00:49

2	Tl 190.801†	8.6	7.4	0.0273 mg/L	0.0273 mg/L	19:01:09
2	V 292.402†	-1824.4	174.3	0.0009 mg/L	0.0009 mg/L	19:00:49
2	Zn 213.857†	3292.8	2501.3	0.0307 mg/L	0.0307 mg/L	19:01:09

Mean Data: BF62403-blk1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3398386.1	1.04	mg/L	0.000				0.00%
Ag 328.068†	4.0	0.0002	mg/L	0.00013	0.0002	mg/L	0.00013	63.74%
Al 237.313†	223.3	0.0278	mg/L	0.00177	0.0278	mg/L	0.00177	6.36%
As 188.979†	2.9	0.0032	mg/L	0.00044	0.0032	mg/L	0.00044	13.70%
B 182.528†	3.3	0.0092	mg/L	0.00289	0.0092	mg/L	0.00289	31.37%
Ba 233.527†	13.2	-0.0013	mg/L	0.00004	-0.0013	mg/L	0.00004	2.89%
Be 313.107†	-241.5	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	61.90%
Ca 315.886†	8627.3	0.0522	mg/L	0.00092	0.0522	mg/L	0.00092	1.77%
Cd 228.802†	7.0	0.0000	mg/L	0.00013	0.0000	mg/L	0.00013	302.86%
Co 228.616†	-9.4	-0.0011	mg/L	0.00024	-0.0011	mg/L	0.00024	21.15%
Cr 267.716†	284.3	0.0008	mg/L	0.00034	0.0008	mg/L	0.00034	43.50%
Cu 324.752†	1069.5	0.0031	mg/L	0.00047	0.0031	mg/L	0.00047	15.28%
Fe 234.349†	4542.6	0.0820	mg/L	0.00061	0.0820	mg/L	0.00061	0.75%
Fe 238.204†	10478.2	0.0801	mg/L	0.00082	0.0801	mg/L	0.00082	1.03%
K 766.490†	136.7	0.1667	mg/L	0.02613	0.1667	mg/L	0.02613	15.68%
Li 670.784†	3.0	0.0006	mg/L	0.00078	0.0006	mg/L	0.00078	138.20%
Mg 279.077†	464.8	-0.0015	mg/L	0.00152	-0.0015	mg/L	0.00152	100.60%
Mn 257.610†	3226.4	0.0010	mg/L	0.00003	0.0010	mg/L	0.00003	2.58%
Mo 202.031†	1.8	0.0002	mg/L	0.00035	0.0002	mg/L	0.00035	213.33%
Na 589.592	2224.9	0.1282	mg/L	0.00403	0.1282	mg/L	0.00403	3.15%
Ni 231.604†	41.0	-0.0019	mg/L	0.00035	-0.0019	mg/L	0.00035	18.87%
P 214.914†	4.8	0.0213	mg/L	0.00131	0.0213	mg/L	0.00131	6.13%
Pb 220.353†	213.1	0.0233	mg/L	0.00010	0.0233	mg/L	0.00010	0.42%
Sb 206.836†	-4.8	-0.0016	mg/L	0.00074	-0.0016	mg/L	0.00074	47.05%
Se 196.026†	2.4	0.0025	mg/L	0.00160	0.0025	mg/L	0.00160	63.10%
Sn 189.927†	-19.7	-0.0129	mg/L	0.00155	-0.0129	mg/L	0.00155	12.02%
Sr 407.771†	1383.3	-0.0002	mg/L	0.00000	-0.0002	mg/L	0.00000	1.69%
Ti 337.279†	333.7	0.0011	mg/L	0.00004	0.0011	mg/L	0.00004	3.87%
Tl 190.801†	12.9	0.0316	mg/L	0.00616	0.0316	mg/L	0.00616	19.49%
V 292.402†	153.5	0.0008	mg/L	0.00011	0.0008	mg/L	0.00011	14.54%
Zn 213.857†	2507.1	0.0308	mg/L	0.00010	0.0308	mg/L	0.00010	0.34%

Sequence No.: 23
Sample ID: BF62403-bs1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 6/24/2006 7:02:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62403-bs1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	47579.4	46242.2	25.03	mg/L	25.03	mg/L	19:04:26
1	Li 670.784†	18049.8	17581.4	0.5042	mg/L	0.5042	mg/L	19:04:26
1	Na 589.592	205481.8	206657.3	25.76	mg/L	25.76	mg/L	19:04:26
1	Y 371.029	3322886.1	3322886.1	1.02	mg/L			19:04:41
1	Ag 328.068†	69302.0	69952.3	0.2537	mg/L	0.2537	mg/L	19:04:46
1	Al 237.313†	22013.7	21704.5	2.507	mg/L	2.507	mg/L	19:04:46
1	As 188.979†	397.1	386.6	0.4944	mg/L	0.4944	mg/L	19:05:06
1	B 182.528†	234.0	234.3	0.4930	mg/L	0.4930	mg/L	19:05:06
1	Ba 233.527†	59987.8	59174.7	0.5004	mg/L	0.5004	mg/L	19:04:46
1	Be 313.107†	243300.8	237325.3	0.0500	mg/L	0.0500	mg/L	19:04:41
1	Ca 315.886†	757386.8	743851.6	5.143	mg/L	5.143	mg/L	19:04:41
1	Cd 228.802†	10290.2	9994.4	0.2504	mg/L	0.2504	mg/L	19:05:06
1	Co 228.616†	18836.1	18679.9	0.4992	mg/L	0.4992	mg/L	19:04:46
1	Cr 267.716†	78772.3	76275.8	0.5099	mg/L	0.5099	mg/L	19:04:46
1	Cu 324.752†	138112.3	132682.4	0.5065	mg/L	0.5065	mg/L	19:04:46
1	Fe 234.349†	138605.6	134952.8	2.641	mg/L	2.641	mg/L	19:04:46
1	Fe 238.204†	313102.5	306697.3	2.657	mg/L	2.657	mg/L	19:04:46
1	Mg 279.077†	127796.3	125086.6	5.045	mg/L	5.045	mg/L	19:04:46
1	Mn 257.610†	468505.3	458890.8	0.5087	mg/L	0.5087	mg/L	19:04:41
1	Mo 202.031†	7403.1	7251.8	0.5036	mg/L	0.5036	mg/L	19:05:06
1	Ni 231.604†	16742.7	16423.7	0.5124	mg/L	0.5124	mg/L	19:04:46

1	P 214.914†	6941.7	6803.8	4.898 mg/L	4.898 mg/L	19:05:06
1	Pb 220.353†	4484.1	4585.7	0.5336 mg/L	0.5336 mg/L	19:05:06
1	Sb 206.836†	1002.7	978.5	0.4742 mg/L	0.4742 mg/L	19:05:06
1	Se 196.026†	813.0	809.9	0.9710 mg/L	0.9710 mg/L	19:05:06
1	Sn 189.927†	2109.0	1935.3	0.5177 mg/L	0.5177 mg/L	19:05:06
1	Sr 407.771†	1136568.4	1110991.5	0.0501 mg/L	0.0501 mg/L	19:04:41
1	Ti 337.279†	304634.9	301892.4	0.4238 mg/L	0.4238 mg/L	19:04:46
1	Tl 190.801†	614.9	603.9	0.5086 mg/L	0.5086 mg/L	19:05:06
1	V 292.402†	122892.1	122795.4	0.5089 mg/L	0.5089 mg/L	19:04:46
1	Zn 213.857†	42833.7	41462.3	0.5308 mg/L	0.5308 mg/L	19:04:46
2	K 766.490†	47979.7	46595.9	25.22 mg/L	25.22 mg/L	19:04:31
2	Li 670.784†	18204.1	17718.0	0.5081 mg/L	0.5081 mg/L	19:04:31
2	Na 589.592	208193.5	209368.9	26.10 mg/L	26.10 mg/L	19:04:31
2	Y 371.029	3325701.9	3325701.9	1.02 mg/L		19:05:13
2	Ag 328.068†	69668.2	70254.4	0.2548 mg/L	0.2548 mg/L	19:05:19
2	Al 237.313†	21751.6	21428.6	2.475 mg/L	2.475 mg/L	19:05:19
2	As 188.979†	395.1	384.3	0.4914 mg/L	0.4914 mg/L	19:05:39
2	B 182.528†	238.7	238.7	0.5023 mg/L	0.5023 mg/L	19:05:39
2	Ba 233.527†	59518.9	58663.9	0.4961 mg/L	0.4961 mg/L	19:05:19
2	Be 313.107†	243401.5	237221.6	0.0499 mg/L	0.0499 mg/L	19:05:13
2	Ca 315.886†	757634.9	743464.7	5.140 mg/L	5.140 mg/L	19:05:13
2	Cd 228.802†	10341.8	10036.6	0.2514 mg/L	0.2514 mg/L	19:05:39
2	Co 228.616†	18667.7	18498.7	0.4943 mg/L	0.4943 mg/L	19:05:19
2	Cr 267.716†	78303.1	75749.1	0.5064 mg/L	0.5064 mg/L	19:05:19
2	Cu 324.752†	138393.0	132843.3	0.5071 mg/L	0.5071 mg/L	19:05:19
2	Fe 234.349†	137479.2	133730.5	2.617 mg/L	2.617 mg/L	19:05:19
2	Fe 238.204†	310237.4	303621.1	2.630 mg/L	2.630 mg/L	19:05:19
2	Mg 279.077†	126900.8	124100.2	5.005 mg/L	5.005 mg/L	19:05:19
2	Mn 257.610†	468536.1	458531.0	0.5083 mg/L	0.5083 mg/L	19:05:13
2	Mo 202.031†	7488.3	7329.4	0.5089 mg/L	0.5089 mg/L	19:05:39
2	Ni 231.604†	16490.2	16161.7	0.5042 mg/L	0.5042 mg/L	19:05:19
2	P 214.914†	6990.0	6845.4	4.928 mg/L	4.928 mg/L	19:05:39
2	Pb 220.353†	4519.2	4616.5	0.5372 mg/L	0.5372 mg/L	19:05:39
2	Sb 206.836†	1003.9	978.8	0.4743 mg/L	0.4743 mg/L	19:05:39
2	Se 196.026†	819.3	815.4	0.9776 mg/L	0.9776 mg/L	19:05:39
2	Sn 189.927†	2113.7	1938.2	0.5184 mg/L	0.5184 mg/L	19:05:39
2	Sr 407.771†	1137329.1	1110792.6	0.0501 mg/L	0.0501 mg/L	19:05:13
2	Ti 337.279†	302843.4	299878.2	0.4210 mg/L	0.4210 mg/L	19:05:19
2	Tl 190.801†	640.3	628.4	0.5283 mg/L	0.5283 mg/L	19:05:39
2	V 292.402†	121851.7	121670.6	0.5044 mg/L	0.5044 mg/L	19:05:19
2	Zn 213.857†	42473.9	41073.1	0.5258 mg/L	0.5258 mg/L	19:05:19

Mean Data: BF62403-bs1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3324294.0	1.02	mg/L	0.001				0.06%
Ag 328.068†	70103.4	0.2542	mg/L	0.00077	0.2542	mg/L	0.00077	0.30%
Al 237.313†	21566.6	2.491	mg/L	0.0225	2.491	mg/L	0.0225	0.90%
As 188.979†	385.4	0.4929	mg/L	0.00213	0.4929	mg/L	0.00213	0.43%
B 182.528†	236.5	0.4977	mg/L	0.00654	0.4977	mg/L	0.00654	1.31%
Ba 233.527†	58919.3	0.4983	mg/L	0.00306	0.4983	mg/L	0.00306	0.61%
Be 313.107†	237273.5	0.0500	mg/L	0.00001	0.0500	mg/L	0.00001	0.03%
Ca 315.886†	743658.1	5.141	mg/L	0.0019	5.141	mg/L	0.0019	0.04%
Cd 228.802†	10015.5	0.2509	mg/L	0.00074	0.2509	mg/L	0.00074	0.30%
Co 228.616†	18589.3	0.4968	mg/L	0.00343	0.4968	mg/L	0.00343	0.69%
Cr 267.716†	76012.5	0.5081	mg/L	0.00250	0.5081	mg/L	0.00250	0.49%
Cu 324.752†	132762.9	0.5068	mg/L	0.00043	0.5068	mg/L	0.00043	0.08%
Fe 234.349†	134341.6	2.629	mg/L	0.0169	2.629	mg/L	0.0169	0.64%
Fe 238.204†	305159.2	2.644	mg/L	0.0189	2.644	mg/L	0.0189	0.72%
K 766.490†	46419.0	25.12	mg/L	0.135	25.12	mg/L	0.135	0.54%
Li 670.784†	17649.7	0.5061	mg/L	0.00277	0.5061	mg/L	0.00277	0.55%
Mg 279.077†	124593.4	5.025	mg/L	0.0282	5.025	mg/L	0.0282	0.56%
Mn 257.610†	458710.9	0.5085	mg/L	0.00028	0.5085	mg/L	0.00028	0.06%
Mo 202.031†	7290.6	0.5063	mg/L	0.00381	0.5063	mg/L	0.00381	0.75%
Na 589.592	208013.1	25.93	mg/L	0.240	25.93	mg/L	0.240	0.93%
Ni 231.604†	16292.7	0.5083	mg/L	0.00581	0.5083	mg/L	0.00581	1.14%
P 214.914†	6824.6	4.913	mg/L	0.0211	4.913	mg/L	0.0211	0.43%
Pb 220.353†	4601.1	0.5354	mg/L	0.00254	0.5354	mg/L	0.00254	0.47%
Sb 206.836†	978.6	0.4742	mg/L	0.00014	0.4742	mg/L	0.00014	0.03%
Se 196.026†	812.6	0.9743	mg/L	0.00465	0.9743	mg/L	0.00465	0.48%
Sn 189.927†	1936.8	0.5180	mg/L	0.00055	0.5180	mg/L	0.00055	0.11%

Sr 407.771†	1110892.1	0.0501 mg/L	0.00001	0.0501 mg/L	0.00001	0.01%
Ti 337.279†	300885.3	0.4224 mg/L	0.00200	0.4224 mg/L	0.00200	0.47%
Tl 190.801†	616.1	0.5184 mg/L	0.01393	0.5184 mg/L	0.01393	2.69%
V 292.402†	122233.0	0.5067 mg/L	0.00318	0.5067 mg/L	0.00318	0.63%
Zn 213.857†	41267.7	0.5283 mg/L	0.00352	0.5283 mg/L	0.00352	0.67%

Matrix Recovery Check: BF62403-bs1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	25.17	25.12	0.135	mg/L	99.8
Li 670.784	0.5006	0.5061	0.003	mg/L	101.1
Na 589.592	25.13	25.93	0.240	mg/L	103.2
Ag 328.068	0.2502	0.2542	0.001	mg/L	101.6
Al 237.313	2.528	2.491	0.023	mg/L	98.5
As 188.979	0.5032	0.4929	0.002	mg/L	97.9
B 182.528	0.5092	0.4977	0.007	mg/L	97.7
Ba 233.527	0.4987	0.4983	0.003	mg/L	99.9
Be 313.107	0.0501	0.0500	0.000	mg/L	99.8
Ca 315.886	5.052	5.141	0.002	mg/L	101.8
Cd 228.802	0.2500	0.2509	0.001	mg/L	100.3
Co 228.616	0.4989	0.4968	0.003	mg/L	99.6
Cr 267.716	0.5008	0.5081	0.002	mg/L	101.5
Cu 324.752	0.5031	0.5068	0.000	mg/L	100.7
Fe 234.349	2.582	2.629	0.017	mg/L	101.9
Fe 238.204	2.580	2.644	0.019	mg/L	102.5
Mg 279.077	4.998	5.025	0.028	mg/L	100.5
Mn 257.610	0.5010	0.5085	0.000	mg/L	101.5
Mo 202.031	0.5002	0.5063	0.004	mg/L	101.2
Ni 231.604	0.4981	0.5083	0.006	mg/L	102.0
P 214.914	5.021	4.913	0.021	mg/L	97.8
Pb 220.353	0.5233	0.5354	0.003	mg/L	102.4
Sb 206.836	0.4984	0.4742	0.000	mg/L	95.2
Se 196.026	1.003	0.9743	0.005	mg/L	97.2
Sn 189.927	0.4871	0.5180	0.001	mg/L	106.2
Sr 407.771	0.0498	0.0501	0.000	mg/L	100.4
Ti 337.279	0.5011	0.4224	0.002	mg/L	84.3
Tl 190.801	0.5316	0.5184	0.014	mg/L	97.4
V 292.402	0.5008	0.5067	0.003	mg/L	101.2
Zn 213.857	0.5308	0.5283	0.004	mg/L	99.5

Sequence No.: 24
Sample ID: BF62403-bsd1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 6/24/2006 7:07:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62403-bsd1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	46974.8	45214.5	24.47	mg/L	24.47	mg/L	19:08:53
1	Li 670.784†	17854.1	17224.4	0.4939	mg/L	0.4939	mg/L	19:08:53
1	Na 589.592	204352.4	205527.8	25.62	mg/L	25.62	mg/L	19:08:53
1	Y 371.029	3354323.0	3354323.0	1.03	mg/L			19:09:08
1	Ag 328.068†	67975.0	68020.6	0.2467	mg/L	0.2467	mg/L	19:09:13
1	Al 237.313†	21364.3	20868.9	2.410	mg/L	2.410	mg/L	19:09:13
1	As 188.979†	388.7	374.7	0.4791	mg/L	0.4791	mg/L	19:09:33
1	B 182.528†	231.8	230.0	0.4840	mg/L	0.4840	mg/L	19:09:33
1	Ba 233.527†	58747.5	57413.4	0.4855	mg/L	0.4855	mg/L	19:09:13
1	Be 313.107†	243152.4	234938.0	0.0495	mg/L	0.0495	mg/L	19:09:08
1	Ca 315.886†	759884.7	739304.0	5.111	mg/L	5.111	mg/L	19:09:08
1	Cd 228.802†	10114.2	9728.1	0.2437	mg/L	0.2437	mg/L	19:09:33
1	Co 228.616†	18448.7	18128.8	0.4844	mg/L	0.4844	mg/L	19:09:13
1	Cr 267.716†	77292.9	74108.4	0.4954	mg/L	0.4954	mg/L	19:09:13
1	Cu 324.752†	135960.6	129312.9	0.4936	mg/L	0.4936	mg/L	19:09:13
1	Fe 234.349†	134049.2	129235.9	2.529	mg/L	2.529	mg/L	19:09:13
1	Fe 238.204†	302191.4	293180.7	2.539	mg/L	2.539	mg/L	19:09:13
1	Mg 279.077†	125143.7	121324.2	4.893	mg/L	4.893	mg/L	19:09:13
1	Mn 257.610†	464192.7	450370.6	0.4992	mg/L	0.4992	mg/L	19:09:08
1	Mo 202.031†	7298.0	7081.2	0.4917	mg/L	0.4917	mg/L	19:09:33

1	Ni 231.604†	16677.8	16206.2	0.5056 mg/L	0.5056 mg/L	19:09:13
1	P 214.914†	6825.2	6626.3	4.771 mg/L	4.771 mg/L	19:09:33
1	Pb 220.353†	4458.9	4519.9	0.5259 mg/L	0.5259 mg/L	19:09:33
1	Sb 206.836†	983.6	950.6	0.4607 mg/L	0.4607 mg/L	19:09:33
1	Se 196.026†	798.7	788.5	0.9453 mg/L	0.9453 mg/L	19:09:33
1	Sn 189.927†	2060.9	1869.0	0.4997 mg/L	0.4997 mg/L	19:09:33
1	Sr 407.771†	1136763.3	1100705.0	0.0496 mg/L	0.0496 mg/L	19:09:08
1	Ti 337.279†	300185.2	294749.0	0.4138 mg/L	0.4138 mg/L	19:09:13
1	Tl 190.801†	636.1	618.9	0.5207 mg/L	0.5207 mg/L	19:09:33
1	V 292.402†	120783.1	119607.8	0.4957 mg/L	0.4957 mg/L	19:09:13
1	Zn 213.857†	41402.9	39673.5	0.5077 mg/L	0.5077 mg/L	19:09:13
2	K 766.490†	47599.1	46476.9	25.15 mg/L	25.15 mg/L	19:08:58
2	Li 670.784†	18005.9	17619.7	0.5053 mg/L	0.5053 mg/L	19:08:58
2	Na 589.592	205633.2	206808.7	25.78 mg/L	25.78 mg/L	19:08:58
2	Y 371.029	3307671.4	3307671.4	1.01 mg/L		19:09:40
2	Ag 328.068†	68628.6	69600.4	0.2524 mg/L	0.2524 mg/L	19:09:46
2	Al 237.313†	21540.9	21337.0	2.465 mg/L	2.465 mg/L	19:09:46
2	As 188.979†	381.3	372.8	0.4767 mg/L	0.4767 mg/L	19:10:06
2	B 182.528†	229.7	231.2	0.4865 mg/L	0.4865 mg/L	19:10:06
2	Ba 233.527†	59030.0	58499.7	0.4947 mg/L	0.4947 mg/L	19:09:46
2	Be 313.107†	239479.6	234650.5	0.0494 mg/L	0.0494 mg/L	19:09:40
2	Ca 315.886†	747454.0	737464.0	5.098 mg/L	5.098 mg/L	19:09:40
2	Cd 228.802†	10180.0	9932.1	0.2489 mg/L	0.2489 mg/L	19:10:06
2	Co 228.616†	18633.5	18564.9	0.4961 mg/L	0.4961 mg/L	19:09:46
2	Cr 267.716†	77515.1	75390.0	0.5040 mg/L	0.5040 mg/L	19:09:46
2	Cu 324.752†	137306.4	132511.0	0.5058 mg/L	0.5058 mg/L	19:09:46
2	Fe 234.349†	134496.4	131519.8	2.574 mg/L	2.574 mg/L	19:09:46
2	Fe 238.204†	303631.1	298755.7	2.588 mg/L	2.588 mg/L	19:09:46
2	Mg 279.077†	125542.3	123437.7	4.978 mg/L	4.978 mg/L	19:09:46
2	Mn 257.610†	457607.8	450243.1	0.4991 mg/L	0.4991 mg/L	19:09:40
2	Mo 202.031†	7361.8	7244.5	0.5031 mg/L	0.5031 mg/L	19:10:06
2	Ni 231.604†	16381.2	16142.3	0.5036 mg/L	0.5036 mg/L	19:09:46
2	P 214.914†	6879.1	6773.3	4.876 mg/L	4.876 mg/L	19:10:06
2	Pb 220.353†	4470.9	4593.0	0.5344 mg/L	0.5344 mg/L	19:10:06
2	Sb 206.836†	1000.6	980.8	0.4754 mg/L	0.4754 mg/L	19:10:06
2	Se 196.026†	810.6	811.2	0.9726 mg/L	0.9726 mg/L	19:10:06
2	Sn 189.927†	2072.2	1908.5	0.5104 mg/L	0.5104 mg/L	19:10:06
2	Sr 407.771†	1122632.1	1102363.8	0.0497 mg/L	0.0497 mg/L	19:09:40
2	Ti 337.279†	301726.3	300396.7	0.4217 mg/L	0.4217 mg/L	19:09:46
2	Tl 190.801†	631.7	623.3	0.5240 mg/L	0.5240 mg/L	19:10:06
2	V 292.402†	120708.3	121193.7	0.5024 mg/L	0.5024 mg/L	19:09:46
2	Zn 213.857†	41343.0	40183.3	0.5143 mg/L	0.5143 mg/L	19:09:46

Mean Data: BF62403-bsd1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3330997.2	1.02	mg/L	0.010				0.99%
Ag 328.068†	68810.5	0.2495	mg/L	0.00405	0.2495	mg/L	0.00405	1.62%
Al 237.313†	21102.9	2.437	mg/L	0.0383	2.437	mg/L	0.0383	1.57%
As 188.979†	373.7	0.4779	mg/L	0.00174	0.4779	mg/L	0.00174	0.36%
B 182.528†	230.6	0.4852	mg/L	0.00174	0.4852	mg/L	0.00174	0.36%
Ba 233.527†	57956.5	0.4901	mg/L	0.00652	0.4901	mg/L	0.00652	1.33%
Be 313.107†	234794.3	0.0494	mg/L	0.00005	0.0494	mg/L	0.00005	0.10%
Ca 315.886†	738384.0	5.105	mg/L	0.0090	5.105	mg/L	0.0090	0.18%
Cd 228.802†	9830.1	0.2463	mg/L	0.00367	0.2463	mg/L	0.00367	1.49%
Co 228.616†	18346.9	0.4903	mg/L	0.00826	0.4903	mg/L	0.00826	1.68%
Cr 267.716†	74749.2	0.4997	mg/L	0.00608	0.4997	mg/L	0.00608	1.22%
Cu 324.752†	130912.0	0.4997	mg/L	0.00865	0.4997	mg/L	0.00865	1.73%
Fe 234.349†	130377.9	2.551	mg/L	0.0318	2.551	mg/L	0.0318	1.25%
Fe 238.204†	295968.2	2.564	mg/L	0.0343	2.564	mg/L	0.0343	1.34%
K 766.490†	45845.7	24.81	mg/L	0.481	24.81	mg/L	0.481	1.94%
Li 670.784†	17422.1	0.4996	mg/L	0.00801	0.4996	mg/L	0.00801	1.60%
Mg 279.077†	122381.0	4.935	mg/L	0.0605	4.935	mg/L	0.0605	1.22%
Mn 257.610†	450306.8	0.4992	mg/L	0.00010	0.4992	mg/L	0.00010	0.02%
Mo 202.031†	7162.8	0.4974	mg/L	0.00802	0.4974	mg/L	0.00802	1.61%
Na 589.592	206168.3	25.70	mg/L	0.114	25.70	mg/L	0.114	0.44%
Ni 231.604†	16174.3	0.5046	mg/L	0.00141	0.5046	mg/L	0.00141	0.28%
P 214.914†	6699.8	4.824	mg/L	0.0746	4.824	mg/L	0.0746	1.55%
Pb 220.353†	4556.4	0.5302	mg/L	0.00604	0.5302	mg/L	0.00604	1.14%
Sb 206.836†	965.7	0.4680	mg/L	0.01045	0.4680	mg/L	0.01045	2.23%
Se 196.026†	799.8	0.9589	mg/L	0.01932	0.9589	mg/L	0.01932	2.02%

Sn 189.927†	1888.7	0.5050 mg/L	0.00759	0.5050 mg/L	0.00759	1.50%
Sr 407.771†	1101534.4	0.0496 mg/L	0.00005	0.0496 mg/L	0.00005	0.11%
Ti 337.279†	297572.9	0.4178 mg/L	0.00560	0.4178 mg/L	0.00560	1.34%
Tl 190.801†	621.1	0.5223 mg/L	0.00238	0.5223 mg/L	0.00238	0.46%
V 292.402†	120400.7	0.4991 mg/L	0.00470	0.4991 mg/L	0.00470	0.94%
Zn 213.857†	39928.4	0.5110 mg/L	0.00467	0.5110 mg/L	0.00467	0.91%

Duplicate Check: BF62403-bsd1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	25.12	24.81	0.481	mg/L	1.2
Li 670.784	0.5061	0.4996	0.008	mg/L	1.3
Na 589.592	25.93	25.70	0.114	mg/L	0.9
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.2542	0.2495	0.004	mg/L	1.9
Al 237.313	2.491	2.437	0.038	mg/L	2.2
As 188.979	0.4929	0.4779	0.002	mg/L	3.1
B 182.528	0.4977	0.4852	0.002	mg/L	2.5
Ba 233.527	0.4983	0.4901	0.007	mg/L	1.7
Be 313.107	0.0500	0.0494	0.000	mg/L	1.0
Ca 315.886	5.141	5.105	0.009	mg/L	0.7
Cd 228.802	0.2509	0.2463	0.004	mg/L	1.9
Co 228.616	0.4968	0.4903	0.008	mg/L	1.3
Cr 267.716	0.5081	0.4997	0.006	mg/L	1.7
Cu 324.752	0.5068	0.4997	0.009	mg/L	1.4
Fe 234.349	2.629	2.551	0.032	mg/L	3.0
Fe 238.204	2.644	2.564	0.034	mg/L	3.1
Mg 279.077	5.025	4.935	0.060	mg/L	1.8
Mn 257.610	0.5085	0.4992	0.000	mg/L	1.9
Mo 202.031	0.5063	0.4974	0.008	mg/L	1.8
Ni 231.604	0.5083	0.5046	0.001	mg/L	0.7
P 214.914	4.913	4.824	0.075	mg/L	1.8
Pb 220.353	0.5354	0.5302	0.006	mg/L	1.0
Sb 206.836	0.4742	0.4680	0.010	mg/L	1.3
Se 196.026	0.9743	0.9589	0.019	mg/L	1.6
Sn 189.927	0.5180	0.5050	0.008	mg/L	2.5
Sr 407.771	0.0501	0.0496	0.000	mg/L	0.8
Ti 337.279	0.4224	0.4178	0.006	mg/L	1.1
Tl 190.801	0.5184	0.5223	0.002	mg/L	0.8
V 292.402	0.5067	0.4991	0.005	mg/L	1.5
Zn 213.857	0.5283	0.5110	0.005	mg/L	3.3

Sequence No.: 25
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/24/2006 7:11:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	K 766.490†	46718.3	45370.6	24.56	mg/L	24.56	mg/L	19:13:19
1	Li 670.784†	17981.8	17505.0	0.5020	mg/L	0.5020	mg/L	19:13:19
1	Na 589.592	206937.9	208113.4	25.95	mg/L	25.95	mg/L	19:13:19
1	Y 371.029	3324673.1	3324673.1	1.02	mg/L			19:13:34
1	Ag 328.068†	68078.4	68712.8	0.2492	mg/L	0.2492	mg/L	19:13:39
1	Al 237.313†	22027.0	21706.0	2.507	mg/L	2.507	mg/L	19:13:39
1	As 188.979†	407.0	396.1	0.5065	mg/L	0.5065	mg/L	19:14:00
1	B 182.528†	244.4	244.5	0.5143	mg/L	0.5143	mg/L	19:14:00
1	Ba 233.527†	61000.0	60138.0	0.5086	mg/L	0.5086	mg/L	19:13:39
1	Be 313.107†	241583.7	235508.8	0.0495	mg/L	0.0495	mg/L	19:13:34
1	Ca 315.886†	744356.4	730642.4	5.051	mg/L	5.051	mg/L	19:13:34
1	Cd 228.802†	10309.7	10008.2	0.2507	mg/L	0.2507	mg/L	19:14:00
1	Co 228.616†	19063.7	18893.7	0.5048	mg/L	0.5048	mg/L	19:13:39
1	Cr 267.716†	78251.2	75722.0	0.5062	mg/L	0.5062	mg/L	19:13:39
1	Cu 324.752†	137726.8	132230.4	0.5048	mg/L	0.5048	mg/L	19:13:39
1	Fe 234.349†	133045.9	129414.4	2.532	mg/L	2.532	mg/L	19:13:39
1	Fe 238.204†	300529.5	294172.7	2.548	mg/L	2.548	mg/L	19:13:39
1	Mg 279.077†	129535.4	126728.6	5.111	mg/L	5.111	mg/L	19:13:39

1	Mn 257.610†	465622.1	455808.9	0.5053 mg/L	0.5053 mg/L	19:13:34
1	Mo 202.031†	7417.6	7262.1	0.5043 mg/L	0.5043 mg/L	19:14:00
1	Ni 231.604†	16747.8	16420.0	0.5123 mg/L	0.5123 mg/L	19:13:39
1	P 214.914†	7154.3	7009.1	5.045 mg/L	5.045 mg/L	19:14:00
1	Pb 220.353†	4270.2	4373.0	0.5088 mg/L	0.5088 mg/L	19:14:00
1	Sb 206.836†	1043.3	1017.8	0.4936 mg/L	0.4936 mg/L	19:14:00
1	Se 196.026†	844.8	840.7	1.008 mg/L	1.008 mg/L	19:14:00
1	Sn 189.927†	2045.0	1871.3	0.5004 mg/L	0.5004 mg/L	19:14:00
1	Sr 407.771†	1135920.1	1109753.5	0.0500 mg/L	0.0500 mg/L	19:13:34
1	Ti 337.279†	361784.3	357908.5	0.5024 mg/L	0.5024 mg/L	19:13:39
1	Tl 190.801†	605.0	593.8	0.5003 mg/L	0.5003 mg/L	19:14:00
1	V 292.402†	123536.7	123364.1	0.5112 mg/L	0.5112 mg/L	19:13:39
1	Zn 213.857†	40857.2	39496.8	0.5055 mg/L	0.5055 mg/L	19:13:39
2	K 766.490†	47275.5	46107.7	24.95 mg/L	24.95 mg/L	19:13:25
2	Li 670.784†	18064.7	17658.9	0.5064 mg/L	0.5064 mg/L	19:13:25
2	Na 589.592	207271.7	208447.1	25.99 mg/L	25.99 mg/L	19:13:25
2	Y 371.029	3311183.4	3311183.4	1.01 mg/L		19:14:06
2	Ag 328.068†	68826.2	69723.6	0.2528 mg/L	0.2528 mg/L	19:14:12
2	Al 237.313†	22162.3	21927.7	2.533 mg/L	2.533 mg/L	19:14:12
2	As 188.979†	396.9	387.8	0.4958 mg/L	0.4958 mg/L	19:14:32
2	B 182.528†	237.0	238.1	0.5010 mg/L	0.5010 mg/L	19:14:32
2	Ba 233.527†	60832.0	60216.5	0.5093 mg/L	0.5093 mg/L	19:14:12
2	Be 313.107†	240476.5	235383.4	0.0495 mg/L	0.0495 mg/L	19:14:06
2	Ca 315.886†	741026.0	730336.3	5.049 mg/L	5.049 mg/L	19:14:06
2	Cd 228.802†	10296.1	10036.1	0.2514 mg/L	0.2514 mg/L	19:14:32
2	Co 228.616†	19087.0	18993.0	0.5074 mg/L	0.5074 mg/L	19:14:12
2	Cr 267.716†	78139.9	75925.5	0.5076 mg/L	0.5076 mg/L	19:14:12
2	Cu 324.752†	137162.7	132225.2	0.5048 mg/L	0.5048 mg/L	19:14:12
2	Fe 234.349†	133119.6	130020.0	2.544 mg/L	2.544 mg/L	19:14:12
2	Fe 238.204†	300680.2	295525.0	2.560 mg/L	2.560 mg/L	19:14:12
2	Mg 279.077†	129695.1	127405.0	5.139 mg/L	5.139 mg/L	19:14:12
2	Mn 257.610†	463117.8	455201.9	0.5046 mg/L	0.5046 mg/L	19:14:06
2	Mo 202.031†	7402.8	7277.3	0.5053 mg/L	0.5053 mg/L	19:14:32
2	Ni 231.604†	16568.0	16309.5	0.5089 mg/L	0.5089 mg/L	19:14:12
2	P 214.914†	7126.1	7009.9	5.046 mg/L	5.046 mg/L	19:14:32
2	Pb 220.353†	4256.3	4376.5	0.5092 mg/L	0.5092 mg/L	19:14:32
2	Sb 206.836†	1047.4	1026.0	0.4977 mg/L	0.4977 mg/L	19:14:32
2	Se 196.026†	840.1	839.4	1.006 mg/L	1.006 mg/L	19:14:32
2	Sn 189.927†	2031.8	1866.4	0.4991 mg/L	0.4991 mg/L	19:14:32
2	Sr 407.771†	1133268.5	1111685.3	0.0501 mg/L	0.0501 mg/L	19:14:06
2	Ti 337.279†	362601.3	360163.7	0.5055 mg/L	0.5055 mg/L	19:14:12
2	Tl 190.801†	608.0	599.2	0.5046 mg/L	0.5046 mg/L	19:14:32
2	V 292.402†	123068.3	123396.4	0.5113 mg/L	0.5113 mg/L	19:14:12
2	Zn 213.857†	40787.7	39591.8	0.5067 mg/L	0.5067 mg/L	19:14:12

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3317928.2	1.02	mg/L	0.003				0.29%
Ag 328.068†	69218.2	0.2510	mg/L	0.00259	0.2510	mg/L	0.00259	1.03%
QC value within limits for Ag 328.068 Recovery = 100.41%								
Al 237.313†	21816.8	2.520	mg/L	0.0181	2.520	mg/L	0.0181	0.72%
QC value within limits for Al 237.313 Recovery = 100.81%								
As 188.979†	391.9	0.5012	mg/L	0.00759	0.5012	mg/L	0.00759	1.51%
QC value within limits for As 188.979 Recovery = 100.23%								
B 182.528†	241.3	0.5076	mg/L	0.00942	0.5076	mg/L	0.00942	1.86%
QC value within limits for B 182.528 Recovery = 101.52%								
Ba 233.527†	60177.2	0.5089	mg/L	0.00047	0.5089	mg/L	0.00047	0.09%
QC value within limits for Ba 233.527 Recovery = 101.79%								
Be 313.107†	235446.1	0.0495	mg/L	0.00002	0.0495	mg/L	0.00002	0.04%
QC value within limits for Be 313.107 Recovery = 98.95%								
Ca 315.886†	730489.4	5.050	mg/L	0.0015	5.050	mg/L	0.0015	0.03%
QC value within limits for Ca 315.886 Recovery = 101.00%								
Cd 228.802†	10022.1	0.2510	mg/L	0.00055	0.2510	mg/L	0.00055	0.22%
QC value within limits for Cd 228.802 Recovery = 100.42%								
Co 228.616†	18943.4	0.5061	mg/L	0.00188	0.5061	mg/L	0.00188	0.37%
QC value within limits for Co 228.616 Recovery = 101.22%								
Cr 267.716†	75823.7	0.5069	mg/L	0.00097	0.5069	mg/L	0.00097	0.19%
QC value within limits for Cr 267.716 Recovery = 101.37%								
Cu 324.752†	132227.8	0.5048	mg/L	0.00001	0.5048	mg/L	0.00001	0.00%
QC value within limits for Cu 324.752 Recovery = 100.96%								

Fe 234.349†	129717.2	2.538 mg/L	0.0084	2.538 mg/L	0.0084	0.33%
QC value within limits for Fe 234.349 Recovery = 101.53%						
Fe 238.204†	294848.9	2.554 mg/L	0.0083	2.554 mg/L	0.0083	0.33%
QC value within limits for Fe 238.204 Recovery = 102.16%						
K 766.490†	45739.1	24.75 mg/L	0.281	24.75 mg/L	0.281	1.14%
QC value within limits for K 766.490 Recovery = 99.02%						
Li 670.784†	17581.9	0.5042 mg/L	0.00312	0.5042 mg/L	0.00312	0.62%
QC value within limits for Li 670.784 Recovery = 100.84%						
Mg 279.077†	127066.8	5.125 mg/L	0.0193	5.125 mg/L	0.0193	0.38%
QC value within limits for Mg 279.077 Recovery = 102.50%						
Mn 257.610†	455505.4	0.5049 mg/L	0.00048	0.5049 mg/L	0.00048	0.09%
QC value within limits for Mn 257.610 Recovery = 100.99%						
Mo 202.031†	7269.7	0.5048 mg/L	0.00075	0.5048 mg/L	0.00075	0.15%
QC value within limits for Mo 202.031 Recovery = 100.96%						
Na 589.592	208280.3	25.97 mg/L	0.030	25.97 mg/L	0.030	0.11%
QC value within limits for Na 589.592 Recovery = 103.87%						
Ni 231.604†	16364.7	0.5106 mg/L	0.00245	0.5106 mg/L	0.00245	0.48%
QC value within limits for Ni 231.604 Recovery = 102.12%						
P 214.914†	7009.5	5.046 mg/L	0.0004	5.046 mg/L	0.0004	0.01%
QC value within limits for P 214.914 Recovery = 100.91%						
Pb 220.353†	4374.8	0.5090 mg/L	0.00029	0.5090 mg/L	0.00029	0.06%
QC value within limits for Pb 220.353 Recovery = 101.81%						
Sb 206.836†	1021.9	0.4956 mg/L	0.00286	0.4956 mg/L	0.00286	0.58%
QC value within limits for Sb 206.836 Recovery = 99.13%						
Se 196.026†	840.1	1.007 mg/L	0.0011	1.007 mg/L	0.0011	0.11%
QC value within limits for Se 196.026 Recovery = 100.71%						
Sn 189.927†	1868.9	0.4997 mg/L	0.00093	0.4997 mg/L	0.00093	0.19%
QC value within limits for Sn 189.927 Recovery = 99.94%						
Sr 407.771†	1110719.4	0.0501 mg/L	0.00006	0.0501 mg/L	0.00006	0.12%
QC value within limits for Sr 407.771 Recovery = 100.10%						
Ti 337.279†	359036.1	0.5040 mg/L	0.00224	0.5040 mg/L	0.00224	0.44%
QC value within limits for Ti 337.279 Recovery = 100.79%						
Tl 190.801†	596.5	0.5024 mg/L	0.00302	0.5024 mg/L	0.00302	0.60%
QC value within limits for Tl 190.801 Recovery = 100.48%						
V 292.402†	123380.3	0.5113 mg/L	0.00010	0.5113 mg/L	0.00010	0.02%
QC value within limits for V 292.402 Recovery = 102.25%						
Zn 213.857†	39544.3	0.5061 mg/L	0.00088	0.5061 mg/L	0.00088	0.17%
QC value within limits for Zn 213.857 Recovery = 101.22%						

All analyte(s) passed QC.

Sequence No.: 26
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/24/2006 7:16:11 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490†	702.8	138.9	0.1678	mg/L	0.1678	mg/L	19:17:44
1	Li 670.784†	160.6	-12.8	0.0001	mg/L	0.0001	mg/L	19:17:44
1	Na 589.592	-290.5	885.0	-0.0398	mg/L	-0.0398	mg/L	19:17:44
1	Y 371.029	3319878.1	3319878.1	1.02	mg/L			19:17:57
1	Ag 328.068†	-1684.4	134.4	0.0007	mg/L	0.0007	mg/L	19:18:02
1	Al 237.313†	-44.7	9.7	0.0035	mg/L	0.0035	mg/L	19:18:23
1	As 188.979†	5.0	1.0	0.0008	mg/L	0.0008	mg/L	19:18:23
1	B 182.528†	1.3	5.5	0.0137	mg/L	0.0137	mg/L	19:18:23
1	Ba 233.527†	-166.5	11.7	-0.0013	mg/L	-0.0013	mg/L	19:18:23
1	Be 313.107†	1891.5	-103.4	0.0001	mg/L	0.0001	mg/L	19:18:02
1	Ca 315.886†	1139.3	69.7	-0.0070	mg/L	-0.0070	mg/L	19:18:02
1	Cd 228.802†	131.1	2.9	0.0000	mg/L	0.0000	mg/L	19:18:23
1	Co 228.616†	-167.1	-10.3	-0.0011	mg/L	-0.0011	mg/L	19:18:23
1	Cr 267.716†	1293.2	74.9	-0.0006	mg/L	-0.0006	mg/L	19:18:02
1	Cu 324.752†	3201.3	-2.1	-0.0010	mg/L	-0.0010	mg/L	19:18:02
1	Fe 234.349†	1390.9	1.0	-0.0073	mg/L	-0.0073	mg/L	19:18:23
1	Fe 238.204†	1307.4	42.5	-0.0107	mg/L	-0.0107	mg/L	19:18:23
1	Mg 279.077†	560.6	-51.4	-0.0224	mg/L	-0.0224	mg/L	19:18:02
1	Mn 257.610†	1927.3	4.8	-0.0025	mg/L	-0.0025	mg/L	19:18:02
1	Mo 202.031†	62.9	32.6	0.0023	mg/L	0.0023	mg/L	19:18:23
1	Ni 231.604†	67.6	23.5	-0.0024	mg/L	-0.0024	mg/L	19:18:23

1	P 214.914†	33.3	9.3	0.0245 mg/L	0.0245 mg/L	19:18:23
1	Pb 220.353†	-169.8	8.4	-0.0006 mg/L	-0.0006 mg/L	19:18:23
1	Sb 206.836†	3.2	-4.6	-0.0015 mg/L	-0.0015 mg/L	19:18:23
1	Se 196.026†	-7.2	3.2	0.0035 mg/L	0.0035 mg/L	19:18:23
1	Sn 189.927†	112.3	-28.4	-0.0152 mg/L	-0.0152 mg/L	19:18:23
1	Sr 407.771†	6842.5	-108.0	-0.0002 mg/L	-0.0002 mg/L	19:17:57
1	Ti 337.279†	-2160.8	151.3	0.0008 mg/L	0.0008 mg/L	19:18:02
1	Tl 190.801†	29.9	28.6	0.0442 mg/L	0.0442 mg/L	19:18:23
1	V 292.402†	-1969.9	-10.4	0.0002 mg/L	0.0002 mg/L	19:18:02
1	Zn 213.857†	656.9	-18.7	-0.0018 mg/L	-0.0018 mg/L	19:18:23
2	K 766.490†	746.3	170.9	0.1851 mg/L	0.1851 mg/L	19:17:49
2	Li 670.784†	182.3	5.9	0.0006 mg/L	0.0006 mg/L	19:17:49
2	Na 589.592	-264.0	911.5	-0.0365 mg/L	-0.0365 mg/L	19:17:49
2	Y 371.029	3368926.4	3368926.4	1.03 mg/L		19:18:28
2	Ag 328.068†	-1752.0	92.9	0.0005 mg/L	0.0005 mg/L	19:18:34
2	Al 237.313†	-50.2	5.0	0.0029 mg/L	0.0029 mg/L	19:18:54
2	As 188.979†	9.6	5.4	0.0064 mg/L	0.0064 mg/L	19:18:54
2	B 182.528†	-1.1	3.1	0.0088 mg/L	0.0088 mg/L	19:18:54
2	Ba 233.527†	-173.3	7.5	-0.0013 mg/L	-0.0013 mg/L	19:18:54
2	Be 313.107†	1893.9	-128.2	0.0001 mg/L	0.0001 mg/L	19:18:34
2	Ca 315.886†	1069.2	-14.7	-0.0076 mg/L	-0.0076 mg/L	19:18:34
2	Cd 228.802†	110.7	-18.7	-0.0006 mg/L	-0.0006 mg/L	19:18:54
2	Co 228.616†	-178.6	-19.0	-0.0014 mg/L	-0.0014 mg/L	19:18:54
2	Cr 267.716†	1314.5	77.1	-0.0006 mg/L	-0.0006 mg/L	19:18:34
2	Cu 324.752†	3296.9	44.7	-0.0008 mg/L	-0.0008 mg/L	19:18:34
2	Fe 234.349†	1391.6	-18.4	-0.0077 mg/L	-0.0077 mg/L	19:18:54
2	Fe 238.204†	1294.8	11.5	-0.0109 mg/L	-0.0109 mg/L	19:18:54
2	Mg 279.077†	583.9	-36.9	-0.0218 mg/L	-0.0218 mg/L	19:18:34
2	Mn 257.610†	1925.6	-24.5	-0.0026 mg/L	-0.0026 mg/L	19:18:34
2	Mo 202.031†	47.4	16.7	0.0012 mg/L	0.0012 mg/L	19:18:54
2	Ni 231.604†	38.4	-5.7	-0.0033 mg/L	-0.0033 mg/L	19:18:54
2	P 214.914†	27.5	3.1	0.0201 mg/L	0.0201 mg/L	19:18:54
2	Pb 220.353†	-173.9	6.8	-0.0007 mg/L	-0.0007 mg/L	19:18:54
2	Sb 206.836†	15.0	6.8	0.0042 mg/L	0.0042 mg/L	19:18:54
2	Se 196.026†	-3.2	7.1	0.0083 mg/L	0.0083 mg/L	19:18:54
2	Sn 189.927†	109.8	-32.4	-0.0163 mg/L	-0.0163 mg/L	19:18:54
2	Sr 407.771†	6665.6	-377.7	-0.0002 mg/L	-0.0002 mg/L	19:18:28
2	Ti 337.279†	-2108.0	233.6	0.0009 mg/L	0.0009 mg/L	19:18:34
2	Tl 190.801†	16.4	15.1	0.0334 mg/L	0.0334 mg/L	19:18:54
2	V 292.402†	-1855.2	129.1	0.0007 mg/L	0.0007 mg/L	19:18:34
2	Zn 213.857†	655.0	-30.0	-0.0019 mg/L	-0.0019 mg/L	19:18:54

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3344402.2	1.02	mg/L	0.011				1.04%
Ag 328.068†	113.7	0.0006	mg/L	0.00011	0.0006	mg/L	0.00011	18.00%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	7.3	0.0032	mg/L	0.00038	0.0032	mg/L	0.00038	11.95%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	3.2	0.0036	mg/L	0.00400	0.0036	mg/L	0.00400	111.70%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	4.3	0.0113	mg/L	0.00349	0.0113	mg/L	0.00349	30.98%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	9.6	-0.0013	mg/L	0.00003	-0.0013	mg/L	0.00003	2.00%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-115.8	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	3.84%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	27.5	-0.0073	mg/L	0.00041	-0.0073	mg/L	0.00041	5.61%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	-7.9	-0.0003	mg/L	0.00041	-0.0003	mg/L	0.00041	121.80%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-14.7	-0.0013	mg/L	0.00017	-0.0013	mg/L	0.00017	13.12%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	76.0	-0.0006	mg/L	0.00001	-0.0006	mg/L	0.00001	1.65%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	21.3	-0.0009	mg/L	0.00013	-0.0009	mg/L	0.00013	13.53%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	-8.7	-0.0075	mg/L	0.00026	-0.0075	mg/L	0.00026	3.48%
QC value within limits for Fe 234.349 Recovery = Not calculated								
Fe 238.204†	27.0	-0.0108	mg/L	0.00019	-0.0108	mg/L	0.00019	1.76%

QC value within limits for Fe 238.204 Recovery = Not calculated

K 766.490†	154.9	0.1765 mg/L	0.01223	0.1765 mg/L	0.01223	6.93%

QC value greater than the upper limit for K 766.490 Recovery = Not calculated

Li 670.784†	-3.4	0.0004 mg/L	0.00038	0.0004 mg/L	0.00038	99.17%

QC value within limits for Li 670.784 Recovery = Not calculated

Mg 279.077†	-44.2	-0.0221 mg/L	0.00042	-0.0221 mg/L	0.00042	1.88%

QC value less than the lower limit for Mg 279.077 Recovery = Not calculated

Mn 257.610†	-9.9	-0.0026 mg/L	0.00002	-0.0026 mg/L	0.00002	0.90%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031†	24.7	0.0018 mg/L	0.00078	0.0018 mg/L	0.00078	44.56%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592	898.3	-0.0382 mg/L	0.00235	-0.0382 mg/L	0.00235	6.15%

QC value within limits for Na 589.592 Recovery = Not calculated

Ni 231.604†	8.9	-0.0029 mg/L	0.00065	-0.0029 mg/L	0.00065	22.58%

QC value less than the lower limit for Ni 231.604 Recovery = Not calculated

P 214.914†	6.2	0.0223 mg/L	0.00313	0.0223 mg/L	0.00313	14.03%

QC value within limits for P 214.914 Recovery = Not calculated

Pb 220.353†	7.6	-0.0006 mg/L	0.00013	-0.0006 mg/L	0.00013	19.85%

QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.836†	1.1	0.0014 mg/L	0.00400	0.0014 mg/L	0.00400	294.95%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026†	5.2	0.0059 mg/L	0.00339	0.0059 mg/L	0.00339	57.72%

QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.927†	-30.4	-0.0158 mg/L	0.00077	-0.0158 mg/L	0.00077	4.90%

QC value within limits for Sn 189.927 Recovery = Not calculated

Sr 407.771†	-242.9	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	3.69%

QC value within limits for Sr 407.771 Recovery = Not calculated

Ti 337.279†	192.5	0.0009 mg/L	0.00008	0.0009 mg/L	0.00008	9.31%

QC value within limits for Ti 337.279 Recovery = Not calculated

Tl 190.801†	21.8	0.0388 mg/L	0.00764	0.0388 mg/L	0.00764	19.71%

QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated

V 292.402†	59.3	0.0004 mg/L	0.00039	0.0004 mg/L	0.00039	89.00%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857†	-24.3	-0.0019 mg/L	0.00010	-0.0019 mg/L	0.00010	5.27%

QC value within limits for Zn 213.857 Recovery = Not calculated

QC Failed. Continue with analysis.

Sequence No.: 27
Sample ID: 0606378-01
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 6/24/2006 7:20:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606378-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	20336.4	19753.6	10.74	mg/L	10.74	mg/L	19:22:14
1	Li 670.784†	106.6	-64.4	-0.0014	mg/L	-0.0014	mg/L	19:22:14
1	Na 589.592	899360.0	900535.5	112.8	mg/L	112.8	mg/L	19:22:09
1	Y 371.029	3272917.4	3272917.4	1.00	mg/L			19:22:34
1	Ag 328.068†	17764.9	19531.4	0.0708	mg/L	0.0708	mg/L	19:22:39
1	Al 237.313†	10622.0	10660.1	1.236	mg/L	1.236	mg/L	19:22:39
1	As 188.979†	7.3	3.3	0.0037	mg/L	0.0037	mg/L	19:22:59
1	B 182.528†	158.5	162.5	0.3426	mg/L	0.3426	mg/L	19:22:59
1	Ba 233.527†	450.8	625.8	0.0039	mg/L	0.0039	mg/L	19:22:59
1	Be 313.107†	1571.6	-396.1	0.0001	mg/L	0.0001	mg/L	19:22:39
1	Ca 315.886†	949831.3	947386.6	6.548	mg/L	6.548	mg/L	19:22:34
1	Cd 228.802†	536.5	409.6	0.0102	mg/L	0.0102	mg/L	19:22:59
1	Co 228.616†	-143.7	10.7	-0.0006	mg/L	-0.0006	mg/L	19:22:59
1	Cr 267.716†	63351.2	62060.2	0.4150	mg/L	0.4150	mg/L	19:22:39
1	Cu 324.752†	65348.7	62099.4	0.2362	mg/L	0.2362	mg/L	19:22:39
1	Fe 234.349†	18900.4	17504.4	0.3342	mg/L	0.3342	mg/L	19:22:39
1	Fe 238.204†	40540.7	39236.7	0.3302	mg/L	0.3302	mg/L	19:22:39
1	Mg 279.077†	8827.1	8210.9	0.3118	mg/L	0.3118	mg/L	19:22:39
1	Mn 257.610†	5459.3	3558.8	0.0014	mg/L	0.0014	mg/L	19:22:39
1	Mo 202.031†	62.4	33.0	0.0023	mg/L	0.0023	mg/L	19:22:59
1	Ni 231.604†	8106.1	8051.2	0.2493	mg/L	0.2493	mg/L	19:22:39
1	P 214.914†	2266.2	2239.4	1.624	mg/L	1.624	mg/L	19:22:59
1	Pb 220.353†	1194.7	1368.5	0.1581	mg/L	0.1581	mg/L	19:22:59
1	Sb 206.836†	24.0	16.2	0.0005	mg/L	0.0005	mg/L	19:22:59

1	Ni 231.604†	62.2	18.5	-0.0026 mg/L	-0.0026 mg/L	19:32:10
1	P 214.914†	71.3	47.0	0.0516 mg/L	0.0516 mg/L	19:32:10
1	Pb 220.353†	-7.8	167.8	0.0180 mg/L	0.0180 mg/L	19:32:10
1	Sb 206.836†	2.2	-5.6	-0.0020 mg/L	-0.0020 mg/L	19:32:10
1	Se 196.026†	-16.9	-6.4	-0.0080 mg/L	-0.0080 mg/L	19:32:10
1	Sn 189.927†	169.6	28.8	0.0003 mg/L	0.0003 mg/L	19:32:10
1	Sr 407.771†	1624211.6	1598639.7	0.0721 mg/L	0.0721 mg/L	19:31:44
1	Ti 337.279†	-1722.9	575.5	0.0014 mg/L	0.0014 mg/L	19:31:50
1	Tl 190.801†	25.6	24.4	0.0409 mg/L	0.0409 mg/L	19:32:10
1	V 292.402†	-1755.8	193.2	0.0010 mg/L	0.0010 mg/L	19:31:50
1	Zn 213.857†	22321.9	21399.1	0.2745 mg/L	0.2745 mg/L	19:31:50
2	K 766.490†	7966.4	7327.2	4.044 mg/L	4.044 mg/L	19:31:35
2	Li 670.784†	384.0	209.0	0.0065 mg/L	0.0065 mg/L	19:31:35
2	Na 589.592	159224.0	160399.4	19.96 mg/L	19.96 mg/L	19:31:35
2	Y 371.029	3303831.2	3303831.2	1.01 mg/L		19:32:17
2	Ag 328.068†	-2018.1	-203.8	-0.0006 mg/L	-0.0006 mg/L	19:32:22
2	Al 237.313†	38.5	91.7	0.0126 mg/L	0.0126 mg/L	19:32:22
2	As 188.979†	9.0	4.9	0.0058 mg/L	0.0058 mg/L	19:32:42
2	B 182.528†	5.3	9.5	0.0221 mg/L	0.0221 mg/L	19:32:42
2	Ba 233.527†	2818.2	2963.4	0.0238 mg/L	0.0238 mg/L	19:32:42
2	Be 313.107†	1647.5	-335.7	0.0001 mg/L	0.0001 mg/L	19:32:22
2	Ca 315.886†	5080818.5	5024844.7	34.76 mg/L	34.76 mg/L	19:32:17
2	Cd 228.802†	129.8	2.3	-0.0001 mg/L	-0.0001 mg/L	19:32:42
2	Co 228.616†	-160.0	-4.0	-0.0010 mg/L	-0.0010 mg/L	19:32:42
2	Cr 267.716†	1386.0	172.8	0.0000 mg/L	0.0000 mg/L	19:32:22
2	Cu 324.752†	30600.5	27116.2	0.1026 mg/L	0.1026 mg/L	19:32:22
2	Fe 234.349†	6196.8	4761.5	0.0863 mg/L	0.0863 mg/L	19:32:22
2	Fe 238.204†	10665.8	9305.9	0.0699 mg/L	0.0699 mg/L	19:32:22
2	Mg 279.077†	70034.6	68674.2	2.758 mg/L	2.758 mg/L	19:32:22
2	Mn 257.610†	4660.9	2718.0	0.0005 mg/L	0.0005 mg/L	19:32:22
2	Mo 202.031†	114.8	84.3	0.0059 mg/L	0.0059 mg/L	19:32:42
2	Ni 231.604†	61.0	17.3	-0.0026 mg/L	-0.0026 mg/L	19:32:42
2	P 214.914†	59.7	35.6	0.0434 mg/L	0.0434 mg/L	19:32:42
2	Pb 220.353†	9.3	184.7	0.0199 mg/L	0.0199 mg/L	19:32:42
2	Sb 206.836†	2.0	-5.8	-0.0021 mg/L	-0.0021 mg/L	19:32:42
2	Se 196.026†	-15.2	-4.7	-0.0060 mg/L	-0.0060 mg/L	19:32:42
2	Sn 189.927†	170.2	29.4	0.0005 mg/L	0.0005 mg/L	19:32:42
2	Sr 407.771†	1621449.2	1597078.1	0.0721 mg/L	0.0721 mg/L	19:32:17
2	Ti 337.279†	-1719.2	577.9	0.0014 mg/L	0.0014 mg/L	19:32:22
2	Tl 190.801†	25.3	24.2	0.0407 mg/L	0.0407 mg/L	19:32:42
2	V 292.402†	-1799.5	148.8	0.0009 mg/L	0.0009 mg/L	19:32:22
2	Zn 213.857†	22600.5	21690.8	0.2783 mg/L	0.2783 mg/L	19:32:22

Mean Data: 0606383-15

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3305036.0	1.01	mg/L	0.001				0.05%
Ag 328.068†	-182.0	-0.0005	mg/L	0.00011	-0.0005	mg/L	0.00011	23.64%
Al 237.313†	84.6	0.0117	mg/L	0.00116	0.0117	mg/L	0.00116	9.84%
As 188.979†	4.2	0.0049	mg/L	0.00133	0.0049	mg/L	0.00133	27.05%
B 182.528†	12.0	0.0274	mg/L	0.00752	0.0274	mg/L	0.00752	27.43%
Ba 233.527†	2948.7	0.0236	mg/L	0.00018	0.0236	mg/L	0.00018	0.74%
Be 313.107†	-331.7	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	2.15%
Ca 315.886†	5028261.2	34.79	mg/L	0.033	34.79	mg/L	0.033	0.10%
Cd 228.802†	-3.5	-0.0002	mg/L	0.00020	-0.0002	mg/L	0.00020	86.77%
Co 228.616†	-17.1	-0.0013	mg/L	0.00050	-0.0013	mg/L	0.00050	37.34%
Cr 267.716†	160.7	0.0000	mg/L	0.00012	0.0000	mg/L	0.00012	264.87%
Cu 324.752†	26842.5	0.1015	mg/L	0.00148	0.1015	mg/L	0.00148	1.46%
Fe 234.349†	4734.2	0.0858	mg/L	0.00076	0.0858	mg/L	0.00076	0.89%
Fe 238.204†	9206.7	0.0690	mg/L	0.00122	0.0690	mg/L	0.00122	1.77%
K 766.490†	7324.7	4.042	mg/L	0.0020	4.042	mg/L	0.0020	0.05%
Li 670.784†	218.7	0.0067	mg/L	0.00039	0.0067	mg/L	0.00039	5.83%
Mg 279.077†	68117.8	2.736	mg/L	0.0318	2.736	mg/L	0.0318	1.16%
Mn 257.610†	2683.6	0.0004	mg/L	0.00005	0.0004	mg/L	0.00005	12.28%
Mo 202.031†	87.4	0.0061	mg/L	0.00030	0.0061	mg/L	0.00030	4.94%
Na 589.592	159818.7	19.89	mg/L	0.103	19.89	mg/L	0.103	0.52%
Ni 231.604†	17.9	-0.0026	mg/L	0.00003	-0.0026	mg/L	0.00003	1.03%
P 214.914†	41.3	0.0475	mg/L	0.00579	0.0475	mg/L	0.00579	12.20%
Pb 220.353†	176.3	0.0190	mg/L	0.00139	0.0190	mg/L	0.00139	7.35%
Sb 206.836†	-5.7	-0.0021	mg/L	0.00007	-0.0021	mg/L	0.00007	3.51%
Se 196.026†	-5.6	-0.0070	mg/L	0.00145	-0.0070	mg/L	0.00145	20.59%

Sn 189.927†	29.1	0.0004 mg/L	0.00012	0.0004 mg/L	0.00012	32.96%
Sr 407.771†	1597858.9	0.0721 mg/L	0.00005	0.0721 mg/L	0.00005	0.07%
Ti 337.279†	576.7	0.0014 mg/L	0.00000	0.0014 mg/L	0.00000	0.17%
Tl 190.801†	24.3	0.0408 mg/L	0.00013	0.0408 mg/L	0.00013	0.32%
V 292.402†	171.0	0.0010 mg/L	0.00013	0.0010 mg/L	0.00013	14.01%
Zn 213.857†	21545.0	0.2764 mg/L	0.00266	0.2764 mg/L	0.00266	0.96%

Sequence No.: 30
Sample ID: 0606387-02
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 6/24/2006 7:34:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606387-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	43719.4	44339.6	24.00	mg/L	24.00	mg/L	19:36:08
1	Li 670.784†	279.2	115.8	0.0038	mg/L	0.0038	mg/L	19:36:08
1	Na 589.592	2278667.7	2279843.2	285.7	mg/L	285.7	mg/L	19:36:02
1	Y 371.029	3182709.9	3182709.9	0.974	mg/L			19:36:37
1	Ag 328.068†	-1769.6	-24.6	0.0001	mg/L	0.0001	mg/L	19:36:43
1	Al 237.313†	119.0	175.8	0.0224	mg/L	0.0224	mg/L	19:36:43
1	As 188.979†	9.7	6.0	0.0072	mg/L	0.0072	mg/L	19:37:03
1	B 182.528†	102.3	109.2	0.2311	mg/L	0.2311	mg/L	19:37:03
1	Ba 233.527†	539.6	729.7	0.0048	mg/L	0.0048	mg/L	19:37:03
1	Be 313.107†	1672.1	-248.5	0.0001	mg/L	0.0001	mg/L	19:36:43
1	Ca 315.886†	4048613.1	4156205.8	28.75	mg/L	28.75	mg/L	19:36:37
1	Cd 228.802†	133.5	11.0	0.0001	mg/L	0.0001	mg/L	19:37:03
1	Co 228.616†	-165.9	-16.1	-0.0013	mg/L	-0.0013	mg/L	19:37:03
1	Cr 267.716†	1560.3	404.0	0.0016	mg/L	0.0016	mg/L	19:36:43
1	Cu 324.752†	4337.3	1300.2	0.0040	mg/L	0.0040	mg/L	19:36:43
1	Fe 234.349†	5107.5	3876.3	0.0689	mg/L	0.0689	mg/L	19:36:43
1	Fe 238.204†	8415.7	7397.0	0.0533	mg/L	0.0533	mg/L	19:36:43
1	Mg 279.077†	507416.7	520429.9	21.04	mg/L	21.04	mg/L	19:36:37
1	Mn 257.610†	4832.7	3069.8	0.0009	mg/L	0.0009	mg/L	19:36:43
1	Mo 202.031†	98.7	72.1	0.0050	mg/L	0.0050	mg/L	19:37:03
1	Ni 231.604†	64.3	23.0	-0.0024	mg/L	-0.0024	mg/L	19:37:03
1	P 214.914†	127.9	107.8	0.0952	mg/L	0.0952	mg/L	19:37:03
1	Pb 220.353†	-153.7	17.7	0.0005	mg/L	0.0005	mg/L	19:37:03
1	Sb 206.836†	10.0	2.5	0.0020	mg/L	0.0020	mg/L	19:37:03
1	Se 196.026†	-3.9	6.2	0.0072	mg/L	0.0072	mg/L	19:37:03
1	Sn 189.927†	98.0	-38.3	-0.0179	mg/L	-0.0179	mg/L	19:37:03
1	Sr 407.771†	7638720.5	7836861.7	0.3545	mg/L	0.3545	mg/L	19:36:32
1	Ti 337.279†	-2291.3	-74.3	0.0005	mg/L	0.0005	mg/L	19:36:43
1	Tl 190.801†	11.6	11.1	0.0302	mg/L	0.0302	mg/L	19:37:03
1	V 292.402†	-1862.8	15.9	0.0003	mg/L	0.0003	mg/L	19:36:43
1	Zn 213.857†	2312.1	1708.8	0.0205	mg/L	0.0205	mg/L	19:37:03
2	K 766.490†	42631.3	43683.9	23.65	mg/L	23.65	mg/L	19:36:19
2	Li 670.784†	305.0	145.6	0.0047	mg/L	0.0047	mg/L	19:36:19
2	Na 589.592	2259639.5	2260815.0	283.4	mg/L	283.4	mg/L	19:36:14
2	Y 371.029	3149498.3	3149498.3	0.964	mg/L			19:37:19
2	Ag 328.068†	-1853.0	-130.3	-0.0003	mg/L	-0.0003	mg/L	19:37:24
2	Al 237.313†	120.8	179.0	0.0228	mg/L	0.0228	mg/L	19:37:24
2	As 188.979†	8.4	4.7	0.0055	mg/L	0.0055	mg/L	19:37:44
2	B 182.528†	101.7	109.8	0.2322	mg/L	0.2322	mg/L	19:37:44
2	Ba 233.527†	534.6	730.3	0.0048	mg/L	0.0048	mg/L	19:37:44
2	Be 313.107†	1606.4	-298.5	0.0001	mg/L	0.0001	mg/L	19:37:24
2	Ca 315.886†	3980428.9	4129292.0	28.57	mg/L	28.57	mg/L	19:37:19
2	Cd 228.802†	128.8	7.5	0.0000	mg/L	0.0000	mg/L	19:37:44
2	Co 228.616†	-172.0	-24.3	-0.0015	mg/L	-0.0015	mg/L	19:37:44
2	Cr 267.716†	1531.1	390.6	0.0015	mg/L	0.0015	mg/L	19:37:24
2	Cu 324.752†	4250.9	1257.5	0.0038	mg/L	0.0038	mg/L	19:37:24
2	Fe 234.349†	5080.7	3903.7	0.0694	mg/L	0.0694	mg/L	19:37:24
2	Fe 238.204†	8373.6	7444.4	0.0537	mg/L	0.0537	mg/L	19:37:24
2	Mg 279.077†	498193.7	516353.8	20.87	mg/L	20.87	mg/L	19:37:19
2	Mn 257.610†	4833.3	3122.9	0.0009	mg/L	0.0009	mg/L	19:37:24
2	Mo 202.031†	123.3	98.7	0.0069	mg/L	0.0069	mg/L	19:37:44
2	Ni 231.604†	57.5	16.7	-0.0026	mg/L	-0.0026	mg/L	19:37:44
2	P 214.914†	115.8	96.7	0.0872	mg/L	0.0872	mg/L	19:37:44
2	Pb 220.353†	-147.3	22.7	0.0011	mg/L	0.0011	mg/L	19:37:44

1	Na 589.592	209285.9	210461.4	26.24 mg/L	26.24 mg/L	20:08:46
1	Y 371.029	3325426.6	3325426.6	1.02 mg/L		20:09:00
1	Ag 328.068†	68452.9	69065.7	0.2505 mg/L	0.2505 mg/L	20:09:06
1	Al 237.313†	22051.8	21725.4	2.510 mg/L	2.510 mg/L	20:09:06
1	As 188.979†	400.7	389.8	0.4984 mg/L	0.4984 mg/L	20:09:26
1	B 182.528†	255.6	255.4	0.5372 mg/L	0.5372 mg/L	20:09:26
1	Ba 233.527†	60843.4	59970.5	0.5072 mg/L	0.5072 mg/L	20:09:06
1	Be 313.107†	241881.6	235747.7	0.0495 mg/L	0.0495 mg/L	20:09:00
1	Ca 315.886†	746004.0	732095.9	5.061 mg/L	5.061 mg/L	20:09:00
1	Cd 228.802†	10310.0	10006.1	0.2507 mg/L	0.2507 mg/L	20:09:26
1	Co 228.616†	19040.7	18866.9	0.5040 mg/L	0.5040 mg/L	20:09:06
1	Cr 267.716†	78022.1	75479.4	0.5046 mg/L	0.5046 mg/L	20:09:06
1	Cu 324.752†	137477.7	131955.0	0.5038 mg/L	0.5038 mg/L	20:09:06
1	Fe 234.349†	133027.6	129366.8	2.531 mg/L	2.531 mg/L	20:09:06
1	Fe 238.204†	300499.1	294075.9	2.547 mg/L	2.547 mg/L	20:09:06
1	Mg 279.077†	129744.4	126905.2	5.118 mg/L	5.118 mg/L	20:09:06
1	Mn 257.610†	465526.4	455611.2	0.5051 mg/L	0.5051 mg/L	20:09:00
1	Mo 202.031†	7392.1	7235.4	0.5024 mg/L	0.5024 mg/L	20:09:26
1	Ni 231.604†	16602.2	16273.1	0.5077 mg/L	0.5077 mg/L	20:09:06
1	P 214.914†	7148.1	7001.4	5.040 mg/L	5.040 mg/L	20:09:26
1	Pb 220.353†	4283.8	4385.5	0.5103 mg/L	0.5103 mg/L	20:09:26
1	Sb 206.836†	1047.5	1021.7	0.4956 mg/L	0.4956 mg/L	20:09:26
1	Se 196.026†	843.1	838.9	1.006 mg/L	1.006 mg/L	20:09:26
1	Sn 189.927†	2046.8	1872.6	0.5007 mg/L	0.5007 mg/L	20:09:26
1	Sr 407.771†	1139499.0	1113017.6	0.0502 mg/L	0.0502 mg/L	20:09:00
1	Ti 337.279†	362649.0	358677.8	0.5035 mg/L	0.5035 mg/L	20:09:06
1	Tl 190.801†	562.9	552.3	0.4670 mg/L	0.4670 mg/L	20:09:26
1	V 292.402†	123074.0	122881.8	0.5092 mg/L	0.5092 mg/L	20:09:06
1	Zn 213.857†	40709.2	39342.3	0.5035 mg/L	0.5035 mg/L	20:09:06
2	K 766.490†	47603.8	46277.9	25.04 mg/L	25.04 mg/L	20:08:51
2	Li 670.784†	18401.8	17932.2	0.5142 mg/L	0.5142 mg/L	20:08:51
2	Na 589.592	208413.0	209588.4	26.13 mg/L	26.13 mg/L	20:08:51
2	Y 371.029	3322057.5	3322057.5	1.02 mg/L		20:09:33
2	Ag 328.068†	68351.2	69034.0	0.2504 mg/L	0.2504 mg/L	20:09:38
2	Al 237.313†	22077.7	21772.9	2.515 mg/L	2.515 mg/L	20:09:38
2	As 188.979†	403.9	393.4	0.5030 mg/L	0.5030 mg/L	20:09:59
2	B 182.528†	256.1	256.2	0.5388 mg/L	0.5388 mg/L	20:09:59
2	Ba 233.527†	60711.9	59901.7	0.5066 mg/L	0.5066 mg/L	20:09:38
2	Be 313.107†	241775.1	235884.0	0.0496 mg/L	0.0496 mg/L	20:09:33
2	Ca 315.886†	744675.0	731532.0	5.057 mg/L	5.057 mg/L	20:09:33
2	Cd 228.802†	10364.2	10069.7	0.2522 mg/L	0.2522 mg/L	20:09:59
2	Co 228.616†	19063.9	18908.6	0.5052 mg/L	0.5052 mg/L	20:09:38
2	Cr 267.716†	77937.0	75473.4	0.5045 mg/L	0.5045 mg/L	20:09:38
2	Cu 324.752†	137802.4	132411.4	0.5055 mg/L	0.5055 mg/L	20:09:38
2	Fe 234.349†	133298.3	129765.7	2.539 mg/L	2.539 mg/L	20:09:38
2	Fe 238.204†	300288.1	294167.8	2.548 mg/L	2.548 mg/L	20:09:38
2	Mg 279.077†	129200.7	126499.6	5.102 mg/L	5.102 mg/L	20:09:38
2	Mn 257.610†	464877.5	455436.9	0.5049 mg/L	0.5049 mg/L	20:09:33
2	Mo 202.031†	7475.4	7324.7	0.5086 mg/L	0.5086 mg/L	20:09:59
2	Ni 231.604†	16729.4	16414.8	0.5122 mg/L	0.5122 mg/L	20:09:38
2	P 214.914†	7200.7	7060.3	5.082 mg/L	5.082 mg/L	20:09:59
2	Pb 220.353†	4310.3	4415.8	0.5138 mg/L	0.5138 mg/L	20:09:59
2	Sb 206.836†	1058.7	1033.7	0.5015 mg/L	0.5015 mg/L	20:09:59
2	Se 196.026†	850.0	846.5	1.015 mg/L	1.015 mg/L	20:09:59
2	Sn 189.927†	2069.6	1897.1	0.5074 mg/L	0.5074 mg/L	20:09:59
2	Sr 407.771†	1136746.7	1111445.7	0.0501 mg/L	0.0501 mg/L	20:09:33
2	Ti 337.279†	360901.9	357320.5	0.5016 mg/L	0.5016 mg/L	20:09:38
2	Tl 190.801†	572.0	561.8	0.4746 mg/L	0.4746 mg/L	20:09:59
2	V 292.402†	122962.5	122894.8	0.5093 mg/L	0.5093 mg/L	20:09:38
2	Zn 213.857†	40772.9	39445.5	0.5048 mg/L	0.5048 mg/L	20:09:38

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3323742.0	1.02	mg/L	0.001				0.07%
Ag 328.068†	69049.9	0.2504	mg/L	0.00008	0.2504	mg/L	0.00008	0.03%
QC value within limits for Ag 328.068 Recovery = 100.16%								
Al 237.313†	21749.1	2.512	mg/L	0.0039	2.512	mg/L	0.0039	0.15%
QC value within limits for Al 237.313 Recovery = 100.50%								
As 188.979†	391.6	0.5007	mg/L	0.00326	0.5007	mg/L	0.00326	0.65%
QC value within limits for As 188.979 Recovery = 100.14%								

B 182.528†	255.8	0.5380 mg/L	0.00115	0.5380 mg/L	0.00115	0.21%
QC value within limits for B 182.528 Recovery = 107.60%						
Ba 233.527†	59936.1	0.5069 mg/L	0.00041	0.5069 mg/L	0.00041	0.08%
QC value within limits for Ba 233.527 Recovery = 101.38%						
Be 313.107†	235815.9	0.0496 mg/L	0.00002	0.0496 mg/L	0.00002	0.04%
QC value within limits for Be 313.107 Recovery = 99.11%						
Ca 315.886†	731814.0	5.059 mg/L	0.0028	5.059 mg/L	0.0028	0.05%
QC value within limits for Ca 315.886 Recovery = 101.19%						
Cd 228.802†	10037.9	0.2514 mg/L	0.00111	0.2514 mg/L	0.00111	0.44%
QC value within limits for Cd 228.802 Recovery = 100.58%						
Co 228.616†	18887.7	0.5046 mg/L	0.00079	0.5046 mg/L	0.00079	0.16%
QC value within limits for Co 228.616 Recovery = 100.92%						
Cr 267.716†	75476.4	0.5045 mg/L	0.00003	0.5045 mg/L	0.00003	0.01%
QC value within limits for Cr 267.716 Recovery = 100.91%						
Cu 324.752†	132183.2	0.5046 mg/L	0.00123	0.5046 mg/L	0.00123	0.24%
QC value within limits for Cu 324.752 Recovery = 100.93%						
Fe 234.349†	129566.2	2.535 mg/L	0.0055	2.535 mg/L	0.0055	0.22%
QC value within limits for Fe 234.349 Recovery = 101.41%						
Fe 238.204†	294121.8	2.548 mg/L	0.0006	2.548 mg/L	0.0006	0.02%
QC value within limits for Fe 238.204 Recovery = 101.90%						
K 766.490†	46150.4	24.98 mg/L	0.097	24.98 mg/L	0.097	0.39%
QC value within limits for K 766.490 Recovery = 99.90%						
Li 670.784†	17869.7	0.5124 mg/L	0.00253	0.5124 mg/L	0.00253	0.49%
QC value within limits for Li 670.784 Recovery = 102.48%						
Mg 279.077†	126702.4	5.110 mg/L	0.0116	5.110 mg/L	0.0116	0.23%
QC value within limits for Mg 279.077 Recovery = 102.20%						
Mn 257.610†	455524.0	0.5050 mg/L	0.00014	0.5050 mg/L	0.00014	0.03%
QC value within limits for Mn 257.610 Recovery = 100.99%						
Mo 202.031†	7280.1	0.5055 mg/L	0.00438	0.5055 mg/L	0.00438	0.87%
QC value within limits for Mo 202.031 Recovery = 101.11%						
Na 589.592	210024.9	26.19 mg/L	0.077	26.19 mg/L	0.077	0.30%
QC value within limits for Na 589.592 Recovery = 104.75%						
Ni 231.604†	16344.0	0.5099 mg/L	0.00314	0.5099 mg/L	0.00314	0.62%
QC value within limits for Ni 231.604 Recovery = 101.99%						
P 214.914†	7030.8	5.061 mg/L	0.0299	5.061 mg/L	0.0299	0.59%
QC value within limits for P 214.914 Recovery = 101.22%						
Pb 220.353†	4400.7	0.5121 mg/L	0.00250	0.5121 mg/L	0.00250	0.49%
QC value within limits for Pb 220.353 Recovery = 102.41%						
Sb 206.836†	1027.7	0.4985 mg/L	0.00419	0.4985 mg/L	0.00419	0.84%
QC value within limits for Sb 206.836 Recovery = 99.71%						
Se 196.026†	842.7	1.010 mg/L	0.0065	1.010 mg/L	0.0065	0.64%
QC value within limits for Se 196.026 Recovery = 101.03%						
Sn 189.927†	1884.9	0.5041 mg/L	0.00468	0.5041 mg/L	0.00468	0.93%
QC value within limits for Sn 189.927 Recovery = 100.81%						
Sr 407.771†	1112231.7	0.0501 mg/L	0.00005	0.0501 mg/L	0.00005	0.10%
QC value within limits for Sr 407.771 Recovery = 100.24%						
Ti 337.279†	357999.1	0.5025 mg/L	0.00135	0.5025 mg/L	0.00135	0.27%
QC value within limits for Ti 337.279 Recovery = 100.50%						
Tl 190.801†	557.1	0.4708 mg/L	0.00540	0.4708 mg/L	0.00540	1.15%
QC value within limits for Tl 190.801 Recovery = 94.16%						
V 292.402†	122888.3	0.5093 mg/L	0.00011	0.5093 mg/L	0.00011	0.02%
QC value within limits for V 292.402 Recovery = 101.85%						
Zn 213.857†	39393.9	0.5042 mg/L	0.00092	0.5042 mg/L	0.00092	0.18%
QC value within limits for Zn 213.857 Recovery = 100.83%						

All analyte(s) passed QC.

Sequence No.: 38
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/24/2006 8:11:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	676.8	105.6	0.1499	mg/L	0.1499	mg/L	20:13:10
1	Li 670.784†	183.8	7.9	0.0007	mg/L	0.0007	mg/L	20:13:10
1	Na 589.592	-196.3	979.1	-0.0280	mg/L	-0.0280	mg/L	20:13:10
1	Y 371.029	3358062.0	3358062.0	1.03	mg/L			20:13:23
1	Ag 328.068†	-1687.2	150.5	0.0007	mg/L	0.0007	mg/L	20:13:28

1	Al 237.313†	-67.4	-12.0	0.0010 mg/L	0.0010 mg/L	20:13:49
1	As 188.979†	3.0	-1.0	-0.0018 mg/L	-0.0018 mg/L	20:13:49
1	B 182.528†	13.4	17.2	0.0384 mg/L	0.0384 mg/L	20:13:49
1	Ba 233.527†	-160.8	19.1	-0.0012 mg/L	-0.0012 mg/L	20:13:49
1	Be 313.107†	1882.6	-133.3	0.0001 mg/L	0.0001 mg/L	20:13:28
1	Ca 315.886†	1214.7	130.3	-0.0066 mg/L	-0.0066 mg/L	20:13:28
1	Cd 228.802†	139.6	9.7	0.0001 mg/L	0.0001 mg/L	20:13:49
1	Co 228.616†	-175.0	-16.0	-0.0013 mg/L	-0.0013 mg/L	20:13:49
1	Cr 267.716†	1243.5	12.0	-0.0010 mg/L	-0.0010 mg/L	20:13:28
1	Cu 324.752†	3040.1	-194.8	-0.0018 mg/L	-0.0018 mg/L	20:13:28
1	Fe 234.349†	1386.9	-18.6	-0.0077 mg/L	-0.0077 mg/L	20:13:49
1	Fe 238.204†	1355.8	75.0	-0.0104 mg/L	-0.0104 mg/L	20:13:49
1	Mg 279.077†	532.2	-85.4	-0.0238 mg/L	-0.0238 mg/L	20:13:28
1	Mn 257.610†	2025.5	78.7	-0.0025 mg/L	-0.0025 mg/L	20:13:28
1	Mo 202.031†	62.4	31.5	0.0022 mg/L	0.0022 mg/L	20:13:49
1	Ni 231.604†	50.6	6.2	-0.0030 mg/L	-0.0030 mg/L	20:13:49
1	P 214.914†	25.3	1.1	0.0186 mg/L	0.0186 mg/L	20:13:49
1	Pb 220.353†	-183.8	-3.4	-0.0019 mg/L	-0.0019 mg/L	20:13:49
1	Sb 206.836†	4.7	-3.2	-0.0008 mg/L	-0.0008 mg/L	20:13:49
1	Se 196.026†	-5.4	5.0	0.0057 mg/L	0.0057 mg/L	20:13:49
1	Sn 189.927†	106.7	-35.1	-0.0170 mg/L	-0.0170 mg/L	20:13:49
1	Sr 407.771†	6841.6	-185.5	-0.0002 mg/L	-0.0002 mg/L	20:13:23
1	Ti 337.279†	-2230.7	107.5	0.0008 mg/L	0.0008 mg/L	20:13:28
1	Tl 190.801†	18.9	17.5	0.0353 mg/L	0.0353 mg/L	20:13:49
1	V 292.402†	-1990.4	-8.3	0.0002 mg/L	0.0002 mg/L	20:13:28
1	Zn 213.857†	627.4	-54.7	-0.0022 mg/L	-0.0022 mg/L	20:13:49
2	K 766.490†	707.7	131.8	0.1640 mg/L	0.1640 mg/L	20:13:15
2	Li 670.784†	146.8	-28.8	-0.0003 mg/L	-0.0003 mg/L	20:13:15
2	Na 589.592	-309.5	866.0	-0.0422 mg/L	-0.0422 mg/L	20:13:15
2	Y 371.029	3377176.2	3377176.2	1.03 mg/L		20:13:54
2	Ag 328.068†	-1875.2	-22.1	0.0001 mg/L	0.0001 mg/L	20:14:00
2	Al 237.313†	-49.6	5.6	0.0030 mg/L	0.0030 mg/L	20:14:20
2	As 188.979†	8.5	4.2	0.0050 mg/L	0.0050 mg/L	20:14:20
2	B 182.528†	14.3	18.1	0.0402 mg/L	0.0402 mg/L	20:14:20
2	Ba 233.527†	-177.7	3.6	-0.0014 mg/L	-0.0014 mg/L	20:14:20
2	Be 313.107†	1828.9	-195.6	0.0001 mg/L	0.0001 mg/L	20:14:00
2	Ca 315.886†	1164.7	75.2	-0.0070 mg/L	-0.0070 mg/L	20:14:00
2	Cd 228.802†	129.8	-0.5	-0.0002 mg/L	-0.0002 mg/L	20:14:20
2	Co 228.616†	-168.9	-9.2	-0.0011 mg/L	-0.0011 mg/L	20:14:20
2	Cr 267.716†	1302.2	62.0	-0.0007 mg/L	-0.0007 mg/L	20:14:00
2	Cu 324.752†	2965.0	-284.3	-0.0021 mg/L	-0.0021 mg/L	20:14:00
2	Fe 234.349†	1353.2	-58.8	-0.0085 mg/L	-0.0085 mg/L	20:14:20
2	Fe 238.204†	1305.3	18.6	-0.0109 mg/L	-0.0109 mg/L	20:14:20
2	Mg 279.077†	617.5	-5.8	-0.0206 mg/L	-0.0206 mg/L	20:14:00
2	Mn 257.610†	2066.2	106.9	-0.0024 mg/L	-0.0024 mg/L	20:14:00
2	Mo 202.031†	55.6	24.5	0.0017 mg/L	0.0017 mg/L	20:14:20
2	Ni 231.604†	44.5	0.1	-0.0032 mg/L	-0.0032 mg/L	20:14:20
2	P 214.914†	30.8	6.3	0.0224 mg/L	0.0224 mg/L	20:14:20
2	Pb 220.353†	-177.5	3.8	-0.0011 mg/L	-0.0011 mg/L	20:14:20
2	Sb 206.836†	4.2	-3.7	-0.0010 mg/L	-0.0010 mg/L	20:14:20
2	Se 196.026†	-7.9	2.6	0.0028 mg/L	0.0028 mg/L	20:14:20
2	Sn 189.927†	92.7	-49.2	-0.0209 mg/L	-0.0209 mg/L	20:14:20
2	Sr 407.771†	6916.7	-150.5	-0.0002 mg/L	-0.0002 mg/L	20:13:54
2	Ti 337.279†	-2236.3	114.4	0.0008 mg/L	0.0008 mg/L	20:14:00
2	Tl 190.801†	21.5	19.9	0.0372 mg/L	0.0372 mg/L	20:14:20
2	V 292.402†	-1969.6	22.7	0.0003 mg/L	0.0003 mg/L	20:14:00
2	Zn 213.857†	610.8	-74.3	-0.0025 mg/L	-0.0025 mg/L	20:14:20

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3367619.1	1.03	mg/L	0.004				0.40%
Ag 328.068†	64.2	0.0004	mg/L	0.00044	0.0004	mg/L	0.00044	107.26%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	-3.2	0.0020	mg/L	0.00144	0.0020	mg/L	0.00144	72.55%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	1.6	0.0016	mg/L	0.00479	0.0016	mg/L	0.00479	304.65%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	17.7	0.0393	mg/L	0.00127	0.0393	mg/L	0.00127	3.24%
QC value greater than the upper limit for B 182.528 Recovery = Not calculated								
Ba 233.527†	11.4	-0.0013	mg/L	0.00009	-0.0013	mg/L	0.00009	7.26%

QC value within limits for Ba 233.527 Recovery = Not calculated

Be 313.107†	-164.4	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	10.36%

QC value within limits for Be 313.107 Recovery = Not calculated

Ca 315.886†	102.7	-0.0068 mg/L	0.00027	-0.0068 mg/L	0.00027	3.96%

QC value within limits for Ca 315.886 Recovery = Not calculated

Cd 228.802†	4.6	0.0000 mg/L	0.00021	0.0000 mg/L	0.00021	>999.9%

QC value within limits for Cd 228.802 Recovery = Not calculated

Co 228.616†	-12.6	-0.0012 mg/L	0.00013	-0.0012 mg/L	0.00013	10.70%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716†	37.0	-0.0009 mg/L	0.00024	-0.0009 mg/L	0.00024	27.08%

QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 324.752†	-239.5	-0.0019 mg/L	0.00024	-0.0019 mg/L	0.00024	12.50%

QC value within limits for Cu 324.752 Recovery = Not calculated

Fe 234.349†	-38.7	-0.0081 mg/L	0.00056	-0.0081 mg/L	0.00056	6.89%

QC value within limits for Fe 234.349 Recovery = Not calculated

Fe 238.204†	46.8	-0.0106 mg/L	0.00035	-0.0106 mg/L	0.00035	3.26%

QC value within limits for Fe 238.204 Recovery = Not calculated

K 766.490†	118.7	0.1570 mg/L	0.00998	0.1570 mg/L	0.00998	6.36%

QC value greater than the upper limit for K 766.490 Recovery = Not calculated

Li 670.784†	-10.4	0.0002 mg/L	0.00075	0.0002 mg/L	0.00075	411.79%

QC value within limits for Li 670.784 Recovery = Not calculated

Mg 279.077†	-45.6	-0.0222 mg/L	0.00228	-0.0222 mg/L	0.00228	10.28%

QC value less than the lower limit for Mg 279.077 Recovery = Not calculated

Mn 257.610†	92.8	-0.0024 mg/L	0.00002	-0.0024 mg/L	0.00002	0.91%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031†	28.0	0.0020 mg/L	0.00034	0.0020 mg/L	0.00034	17.25%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592	922.6	-0.0351 mg/L	0.01003	-0.0351 mg/L	0.01003	28.56%

QC value within limits for Na 589.592 Recovery = Not calculated

Ni 231.604†	3.2	-0.0031 mg/L	0.00014	-0.0031 mg/L	0.00014	4.42%

QC value less than the lower limit for Ni 231.604 Recovery = Not calculated

P 214.914†	3.7	0.0205 mg/L	0.00264	0.0205 mg/L	0.00264	12.85%

QC value within limits for P 214.914 Recovery = Not calculated

Pb 220.353†	0.2	-0.0015 mg/L	0.00059	-0.0015 mg/L	0.00059	39.04%

QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.836†	-3.5	-0.0009 mg/L	0.00019	-0.0009 mg/L	0.00019	21.62%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026†	3.8	0.0043 mg/L	0.00205	0.0043 mg/L	0.00205	47.92%

QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.927†	-42.1	-0.0189 mg/L	0.00272	-0.0189 mg/L	0.00272	14.36%

QC value within limits for Sn 189.927 Recovery = Not calculated

Sr 407.771†	-168.0	-0.0002 mg/L	0.00000	-0.0002 mg/L	0.00000	0.49%

QC value within limits for Sr 407.771 Recovery = Not calculated

Ti 337.279†	111.0	0.0008 mg/L	0.00001	0.0008 mg/L	0.00001	0.90%

QC value within limits for Ti 337.279 Recovery = Not calculated

Tl 190.801†	18.7	0.0363 mg/L	0.00133	0.0363 mg/L	0.00133	3.67%

QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated

V 292.402†	7.2	0.0002 mg/L	0.00008	0.0002 mg/L	0.00008	36.52%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857†	-64.5	-0.0024 mg/L	0.00018	-0.0024 mg/L	0.00018	7.48%

QC value within limits for Zn 213.857 Recovery = Not calculated

QC Failed. Continue with analysis.

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Sequence No.: 39
Sample ID: BF62403-dup1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 6/24/2006 8:15:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62403-dup1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	4861.0	4242.0	2.380	mg/L	2.380	mg/L	20:17:31
1	Li 670.784†	2279.6	2077.7	0.0600	mg/L	0.0600	mg/L	20:17:31
1	Na 589.592	101676.5	102851.9	12.75	mg/L	12.75	mg/L	20:17:31
1	Y 371.029	3313091.4	3313091.4	1.01	mg/L			20:17:54
1	Ag 328.068†	-2138.2	-316.7	-0.0009	mg/L	-0.0009	mg/L	20:17:59
1	Al 237.313†	6431.0	6397.3	0.7412	mg/L	0.7412	mg/L	20:18:20
1	As 188.979†	7.7	3.7	0.0042	mg/L	0.0042	mg/L	20:18:20
1	B 182.528†	12.6	16.6	0.0371	mg/L	0.0371	mg/L	20:18:20

ANALYSIS SEQUENCE

BPG0234

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0234-CAL1	QC		1		6F21081		
BPG0234-CAL2	QC		2		6F26065		
BPG0234-CAL3	QC		3		6F26066		
BPG0234-CAL4	QC		4		6F26067		
BPG0234-ICV1	QC		5		6F26066		
BPG0234-SCV1	QC		6		6F26070		
BPG0234-ICB1	QC		7				
BPG0234-CRL1	QC		8		6F26071		
BPG0234-CRL2	QC		9		6F26072		
BPG0234-CRL3	QC		10		6F26073		
BPG0234-IFA1	QC		11		6F13074		
BPG0234-CCB1	QC		12				
BPG0234-CCV1	QC		13		6F26066		
BPG0234-IFB1	QC		14		6F13075		
BF62617-BLK1	QC		15				
BF62617-BS1	QC		16				
BF62617-BSD1	QC		17				
BF62617-SRM1	QC		18				
BF62617-DUP1	QC		19				
BF62617-MS1	QC		20				
BF62617-PS1	QC		21				
BF62617-DUP2	QC		22				
BF62617-MS2	QC		23				
BPG0234-CCB2	QC		24				
BPG0234-CCV2	QC		25		6F26066		
BF62617-PS2	QC		26				
0606383-08	Ag: ppm Silver 6010	E	27				MACTEC Engineering & Consulting, In
0606383-08	Cr: ppm Chromium 6010	E	27				MACTEC Engineering & Consulting, In
0606383-08	Se: ppm Selenium 6010	E	27				MACTEC Engineering & Consulting, In
0606383-08	Ba: ppm Barium 6010	E	27				MACTEC Engineering & Consulting, In
0606383-08	Cd: ppm Cadmium 6010	E	27				MACTEC Engineering & Consulting, In
0606383-08	Be: ppm Beryllium 6010	E	27				MACTEC Engineering & Consulting, In
0606383-08	Sb: ppm Antimony 6010	E	27				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0234

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606383-08	Zn: ppm Zinc 6010	E	27				MACTEC Engineering & Consulting, In
0606383-08	Ni: ppm Nickel 6010	E	27				MACTEC Engineering & Consulting, In
0606383-08	Pb: ppm Lead 6010	E	27				MACTEC Engineering & Consulting, In
0606383-08	Cu: ppm Copper 6010	E	27				MACTEC Engineering & Consulting, In
0606383-07	Pb: ppm Lead 6010	G	28				MACTEC Engineering & Consulting, In
0606383-07	Cu: ppm Copper 6010	G	28				MACTEC Engineering & Consulting, In
0606383-07	Cr: ppm Chromium 6010	G	28				MACTEC Engineering & Consulting, In
0606383-07	Ba: ppm Barium 6010	G	28				MACTEC Engineering & Consulting, In
0606383-07	Cd: ppm Cadmium 6010	G	28				MACTEC Engineering & Consulting, In
0606383-07	Zn: ppm Zinc 6010	G	28				MACTEC Engineering & Consulting, In
0606383-07	Sb: ppm Antimony 6010	G	28				MACTEC Engineering & Consulting, In
0606383-07	Ni: ppm Nickel 6010	G	28				MACTEC Engineering & Consulting, In
0606383-07	Se: ppm Selenium 6010	G	28				MACTEC Engineering & Consulting, In
0606383-07	Ag: ppm Silver 6010	G	28				MACTEC Engineering & Consulting, In
0606383-07	Be: ppm Beryllium 6010	G	28				MACTEC Engineering & Consulting, In
0606383-06	Be: ppm Beryllium 6010	E	29				MACTEC Engineering & Consulting, In
0606383-06	Cd: ppm Cadmium 6010	E	29				MACTEC Engineering & Consulting, In
0606383-06	Pb: ppm Lead 6010	E	29				MACTEC Engineering & Consulting, In
0606383-06	Ba: ppm Barium 6010	E	29				MACTEC Engineering & Consulting, In
0606383-06	Cr: ppm Chromium 6010	E	29				MACTEC Engineering & Consulting, In
0606383-06	Ni: ppm Nickel 6010	E	29				MACTEC Engineering & Consulting, In
0606383-06	Se: ppm Selenium 6010	E	29				MACTEC Engineering & Consulting, In
0606383-06	Cu: ppm Copper 6010	E	29				MACTEC Engineering & Consulting, In
0606383-06	Sb: ppm Antimony 6010	E	29				MACTEC Engineering & Consulting, In
0606383-06	Ag: ppm Silver 6010	E	29				MACTEC Engineering & Consulting, In
0606383-06	Zn: ppm Zinc 6010	E	29				MACTEC Engineering & Consulting, In
0606383-05	Ba: ppm Barium 6010	G	30				MACTEC Engineering & Consulting, In
0606383-05	Pb: ppm Lead 6010	G	30				MACTEC Engineering & Consulting, In
0606383-05	Cu: ppm Copper 6010	G	30				MACTEC Engineering & Consulting, In
0606383-05	Zn: ppm Zinc 6010	G	30				MACTEC Engineering & Consulting, In
0606383-05	Cd: ppm Cadmium 6010	G	30				MACTEC Engineering & Consulting, In
0606383-05	Be: ppm Beryllium 6010	G	30				MACTEC Engineering & Consulting, In
0606383-05	Sb: ppm Antimony 6010	G	30				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0234

Instrument: ICP3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606383-05	Ni: ppm Nickel 6010	G	30				MACTEC Engineering & Consulting, In
0606383-05	Ag: ppm Silver 6010	G	30				MACTEC Engineering & Consulting, In
0606383-05	Cr: ppm Chromium 6010	G	30				MACTEC Engineering & Consulting, In
0606383-05	Se: ppm Selenium 6010	G	30				MACTEC Engineering & Consulting, In
0606383-04	Sb: ppm Antimony 6010	E	31				MACTEC Engineering & Consulting, In
0606383-04	Cd: ppm Cadmium 6010	E	31				MACTEC Engineering & Consulting, In
0606383-04	Ni: ppm Nickel 6010	E	31				MACTEC Engineering & Consulting, In
0606383-04	Be: ppm Beryllium 6010	E	31				MACTEC Engineering & Consulting, In
0606383-04	Ba: ppm Barium 6010	E	31				MACTEC Engineering & Consulting, In
0606383-04	Se: ppm Selenium 6010	E	31				MACTEC Engineering & Consulting, In
0606383-04	Pb: ppm Lead 6010	E	31				MACTEC Engineering & Consulting, In
0606383-04	Ag: ppm Silver 6010	E	31				MACTEC Engineering & Consulting, In
0606383-04	Cu: ppm Copper 6010	E	31				MACTEC Engineering & Consulting, In
0606383-04	Cr: ppm Chromium 6010	E	31				MACTEC Engineering & Consulting, In
0606383-04	Zn: ppm Zinc 6010	E	31				MACTEC Engineering & Consulting, In
0606383-03	Ag: ppm Silver 6010	G	32				MACTEC Engineering & Consulting, In
0606383-03	Pb: ppm Lead 6010	G	32				MACTEC Engineering & Consulting, In
0606383-03	Se: ppm Selenium 6010	G	32				MACTEC Engineering & Consulting, In
0606383-03	Sb: ppm Antimony 6010	G	32				MACTEC Engineering & Consulting, In
0606383-03	Zn: ppm Zinc 6010	G	32				MACTEC Engineering & Consulting, In
0606383-03	Cd: ppm Cadmium 6010	G	32				MACTEC Engineering & Consulting, In
0606383-03	Ni: ppm Nickel 6010	G	32				MACTEC Engineering & Consulting, In
0606383-03	Be: ppm Beryllium 6010	G	32				MACTEC Engineering & Consulting, In
0606383-03	Ba: ppm Barium 6010	G	32				MACTEC Engineering & Consulting, In
0606383-03	Cr: ppm Chromium 6010	G	32				MACTEC Engineering & Consulting, In
0606383-03	Cu: ppm Copper 6010	G	32				MACTEC Engineering & Consulting, In
0606383-02	Sb: ppm Antimony 6010	E	33				MACTEC Engineering & Consulting, In
0606383-02	Ni: ppm Nickel 6010	E	33				MACTEC Engineering & Consulting, In
0606383-02	Se: ppm Selenium 6010	E	33				MACTEC Engineering & Consulting, In
0606383-02	Ag: ppm Silver 6010	E	33				MACTEC Engineering & Consulting, In
0606383-02	Zn: ppm Zinc 6010	E	33				MACTEC Engineering & Consulting, In
0606383-02	Cd: ppm Cadmium 6010	E	33				MACTEC Engineering & Consulting, In
0606383-02	Be: ppm Beryllium 6010	E	33				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0234

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606383-02	Ba: ppm Barium 6010	E	33				MACTEC Engineering & Consulting, In
0606383-02	Cu: ppm Copper 6010	E	33				MACTEC Engineering & Consulting, In
0606383-02	Cr: ppm Chromium 6010	E	33				MACTEC Engineering & Consulting, In
0606383-02	Pb: ppm Lead 6010	E	33				MACTEC Engineering & Consulting, In
0606383-01	Se: ppm Selenium 6010	G	34				MACTEC Engineering & Consulting, In
0606383-01	Ag: ppm Silver 6010	G	34				MACTEC Engineering & Consulting, In
0606383-01	Zn: ppm Zinc 6010	G	34				MACTEC Engineering & Consulting, In
0606383-01	Be: ppm Beryllium 6010	G	34				MACTEC Engineering & Consulting, In
0606383-01	Sb: ppm Antimony 6010	G	34				MACTEC Engineering & Consulting, In
0606383-01	Ba: ppm Barium 6010	G	34				MACTEC Engineering & Consulting, In
0606383-01	Ni: ppm Nickel 6010	G	34				MACTEC Engineering & Consulting, In
0606383-01	Cd: ppm Cadmium 6010	G	34				MACTEC Engineering & Consulting, In
0606383-01	Cr: ppm Chromium 6010	G	34				MACTEC Engineering & Consulting, In
0606383-01	Cu: ppm Copper 6010	G	34				MACTEC Engineering & Consulting, In
0606383-01	Pb: ppm Lead 6010	G	34				MACTEC Engineering & Consulting, In
0606383-14	Zn: ppm Zinc 6010	E	35				MACTEC Engineering & Consulting, In
0606383-14	Sb: ppm Antimony 6010	E	35				MACTEC Engineering & Consulting, In
0606383-14	Ba: ppm Barium 6010	E	35				MACTEC Engineering & Consulting, In
0606383-14	Be: ppm Beryllium 6010	E	35				MACTEC Engineering & Consulting, In
0606383-14	Ag: ppm Silver 6010	E	35				MACTEC Engineering & Consulting, In
0606383-14	Cd: ppm Cadmium 6010	E	35				MACTEC Engineering & Consulting, In
0606383-14	Cr: ppm Chromium 6010	E	35				MACTEC Engineering & Consulting, In
0606383-14	Cu: ppm Copper 6010	E	35				MACTEC Engineering & Consulting, In
0606383-14	Pb: ppm Lead 6010	E	35				MACTEC Engineering & Consulting, In
0606383-14	Ni: ppm Nickel 6010	E	35				MACTEC Engineering & Consulting, In
0606383-14	Se: ppm Selenium 6010	E	35				MACTEC Engineering & Consulting, In
BPG0234-CCB3	QC		36				
BPG0234-CCV3	QC		37		6F26066		
0606383-13	Cd: ppm Cadmium 6010	E	38				MACTEC Engineering & Consulting, In
0606383-13	Be: ppm Beryllium 6010	E	38				MACTEC Engineering & Consulting, In
0606383-13	Ba: ppm Barium 6010	E	38				MACTEC Engineering & Consulting, In
0606383-13	Cr: ppm Chromium 6010	E	38				MACTEC Engineering & Consulting, In
0606383-13	Cu: ppm Copper 6010	E	38				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0234

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606383-13	Pb: ppm Lead 6010	E	38				MACTEC Engineering & Consulting, In
0606383-13	Ni: ppm Nickel 6010	E	38				MACTEC Engineering & Consulting, In
0606383-13	Se: ppm Selenium 6010	E	38				MACTEC Engineering & Consulting, In
0606383-13	Ag: ppm Silver 6010	E	38				MACTEC Engineering & Consulting, In
0606383-13	Zn: ppm Zinc 6010	E	38				MACTEC Engineering & Consulting, In
0606383-13	Sb: ppm Antimony 6010	E	38				MACTEC Engineering & Consulting, In
0606383-12	Ag: ppm Silver 6010	E	39				MACTEC Engineering & Consulting, In
0606383-12	Be: ppm Beryllium 6010	E	39				MACTEC Engineering & Consulting, In
0606383-12	Cd: ppm Cadmium 6010	E	39				MACTEC Engineering & Consulting, In
0606383-12	Ba: ppm Barium 6010	E	39				MACTEC Engineering & Consulting, In
0606383-12	Cr: ppm Chromium 6010	E	39				MACTEC Engineering & Consulting, In
0606383-12	Cu: ppm Copper 6010	E	39				MACTEC Engineering & Consulting, In
0606383-12	Sb: ppm Antimony 6010	E	39				MACTEC Engineering & Consulting, In
0606383-12	Pb: ppm Lead 6010	E	39				MACTEC Engineering & Consulting, In
0606383-12	Se: ppm Selenium 6010	E	39				MACTEC Engineering & Consulting, In
0606383-12	Zn: ppm Zinc 6010	E	39				MACTEC Engineering & Consulting, In
0606383-12	Ni: ppm Nickel 6010	E	39				MACTEC Engineering & Consulting, In
0606383-11	Zn: ppm Zinc 6010	E	40				MACTEC Engineering & Consulting, In
0606383-11	Cd: ppm Cadmium 6010	E	40				MACTEC Engineering & Consulting, In
0606383-11	Ba: ppm Barium 6010	E	40				MACTEC Engineering & Consulting, In
0606383-11	Cr: ppm Chromium 6010	E	40				MACTEC Engineering & Consulting, In
0606383-11	Cu: ppm Copper 6010	E	40				MACTEC Engineering & Consulting, In
0606383-11	Pb: ppm Lead 6010	E	40				MACTEC Engineering & Consulting, In
0606383-11	Sb: ppm Antimony 6010	E	40				MACTEC Engineering & Consulting, In
0606383-11	Be: ppm Beryllium 6010	E	40				MACTEC Engineering & Consulting, In
0606383-11	Ni: ppm Nickel 6010	E	40				MACTEC Engineering & Consulting, In
0606383-11	Ag: ppm Silver 6010	E	40				MACTEC Engineering & Consulting, In
0606383-11	Se: ppm Selenium 6010	E	40				MACTEC Engineering & Consulting, In
0606383-10	Zn: ppm Zinc 6010	G	41				MACTEC Engineering & Consulting, In
0606383-10	Ba: ppm Barium 6010	G	41				MACTEC Engineering & Consulting, In
0606383-10	Cr: ppm Chromium 6010	G	41				MACTEC Engineering & Consulting, In
0606383-10	Cu: ppm Copper 6010	G	41				MACTEC Engineering & Consulting, In
0606383-10	Pb: ppm Lead 6010	G	41				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0234

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606383-10	Ni: ppm Nickel 6010	G	41				MACTEC Engineering & Consulting, In
0606383-10	Sb: ppm Antimony 6010	G	41				MACTEC Engineering & Consulting, In
0606383-10	Be: ppm Beryllium 6010	G	41				MACTEC Engineering & Consulting, In
0606383-10	Cd: ppm Cadmium 6010	G	41				MACTEC Engineering & Consulting, In
0606383-10	Ag: ppm Silver 6010	G	41				MACTEC Engineering & Consulting, In
0606383-10	Se: ppm Selenium 6010	G	41				MACTEC Engineering & Consulting, In
0606383-09	Ba: ppm Barium 6010	E	42				MACTEC Engineering & Consulting, In
0606383-09	Ag: ppm Silver 6010	E	42				MACTEC Engineering & Consulting, In
0606383-09	Be: ppm Beryllium 6010	E	42				MACTEC Engineering & Consulting, In
0606383-09	Zn: ppm Zinc 6010	E	42				MACTEC Engineering & Consulting, In
0606383-09	Cr: ppm Chromium 6010	E	42				MACTEC Engineering & Consulting, In
0606383-09	Cd: ppm Cadmium 6010	E	42				MACTEC Engineering & Consulting, In
0606383-09	Sb: ppm Antimony 6010	E	42				MACTEC Engineering & Consulting, In
0606383-09	Se: ppm Selenium 6010	E	42				MACTEC Engineering & Consulting, In
0606383-09	Ni: ppm Nickel 6010	E	42				MACTEC Engineering & Consulting, In
0606383-09	Pb: ppm Lead 6010	E	42				MACTEC Engineering & Consulting, In
0606383-09	Cu: ppm Copper 6010	E	42				MACTEC Engineering & Consulting, In
BPG0234-SRD1	QC		43				
BPG0234-SRD2	QC		44				
BPG0234-CCB4	QC		45				
BPG0234-CCV4	QC		46		6F26066		
BPG0234-IFA2	QC		47		6F13074		
BPG0234-IFB2	QC		48		6F13075		

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ESS Laboratory
ICP Data Review Checklist

SIF: 062606DA	**Date Run:** 6/26/06
Method: Weighting - DV	**Y-IS:** 367 2201.0
Project Number(s): 06383, 394, 405	**SOP NO. 30_6010B**

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the daily standard curve consist of a Calibration Blank and the required minimum number of calibration standards and is $R^2 > 0.995$ for all elements?	X		
2. Is the mid-point initial calibration standard reanalyzed immediately after calibration and results within QC limits? (±5% for 200.7, 10% for 6010B)	X		
3. Are interference check standards analyzed at the beginning of each analytical run and within QC limits?	X		
4. Is the ICV from a second source and is its percent within QC limits (±10% and %RPD< 5)?	X		
5. Is the CRI standard 20% of the true value?	X		
6. Are the CCVs analyzed at required frequency and all parameters within QC limits? (±10%)	X		
7. Are the CCB standards analyzed at required frequency and at the end of the analytical sequence and are all parameters within QC limits? (< MRL)	X		
8. Is the method blank run at the desired frequency and is its concentration for target analytes less than the MRL?	X		
9. Is the Laboratory Control Sample run at the desired frequency and is the percent recovery within QC limits? (±15% for 200.7, ±20% for 6010B)	X		
10. Is the Matrix Duplicate run at the desired frequency and is the RPD within QC limits? (± 20% for aqueous and + 35% for soil samples/ **All USACE/Navy samples ≤25%**)		X	
11. Is the matrix spike run at the desired frequency and is the percent recovery /RPD within QC limits? (75-125%)	X		
12. Is a Serial Dilution Analysis performed at the desired frequency and within QC limits? (± 10%)	X		
13. Are post-digestion spikes analyzed at the desired frequency and within QC limits? (85-115% for 200.7, 75-125% for 6010B)	X		
14. Are all samples with concentrations greater than the linear dynamic range diluted and reanalyzed?			X
15. Are all sample IDs and units checked for transcription errors?	X		
16. Are all nonconformances included and noted?	X		
17. Is the correct methodology used for sample prep and analysis?	X		
18. Are all sample holding times met?	X		
19. Did analyst sign/date the appropriate print outs and report sheets?	X		

Comments on any "No" response:
BF626017 - Dup1 Ag, Cu ; Dup2 Cu
Dilutions 06394-14 x10 Sn

Analyst: [signature] Date: 6/27/06 2nd Level Review: STD Date: 6/27/06

Method : Everything-DV

Seq.	Loc.		Sample ID
1	1		Calib Blank 1
2	2		Calib Std 1
3	3		Calib Std 2
4	4		Calib Std 3
5	3	QC	STD2
6	5	QC	ICV
7	1	QC	ICCB
8	6	QC	CRI1
9	7	QC	CRI2
10	8	QC	CRI3
11	160	QC	ICSA
12	159	QC	ICSAB
13	3	QC	CCV
14	1	QC	ICCB
15	9		BF62617-BLK1
16	10		BF62617-BS1
17	11		BF62617-BSD1
18	12		BF62617-SRM1
19	13		0606383-01
20	14		0606383-02
21	15		0606383-03
22	16		0606383-04
23	17		0606383-05
24	18		0606383-06
25	3	QC	CCV
26	1	QC	ICCB
27	19		0606383-07
28	20		0606383-08
29	21		0606383-09
30	22		0606383-10
31	23		0606383-11
32	24		BF62617-DUP1
33	25		BF62617-MS1
34	26		BF62617-MSD1
35	27		BF62617-SD1
36	28		BF62617-PDS1
37	3	QC	CCV
38	1	QC	ICCB
39	29		0606383-12
40	30		0606383-13
41	31		BD62617-DUP2
42	32		BF62617-MS2
43	33		BF62617-MSD2
44	34		BF62617-SD2
45	35		BF62617-PDS2
46	36		0606383-14
47	37		0606394-08
48	38		0606394-14
49	3	QC	CCV
50	1	QC	ICCB
51	39		0606405-01
52	40		0606405-02
53	41		0606405-03
54	42		0606405-04
55	3	QC	CCV
56	1	QC	ICCB

Ag 0.005

As 0.01

Ba 0.01

Be 0.001

Cd 0.005

Cr 0.01

Cu 0.01

Ni 0.01

Pb 0.01

Sb 0.01

Se 0.02

Tl 0.1

Zn 0.01

Method : Everything-DV

Seq.	Loc.		Sample ID
57	160		ICSA
58	159		ICSAB
59	0		WASH

2	Mg 279.077†	604.9	604.2	[0.00]	mg/L	15:15:31
2	Mn 257.610†	1970.1	1967.7	[0.00]	mg/L	15:15:31
2	Mo 202.031†	21.4	21.4	[0.00]	mg/L	15:15:52
2	Ni 231.604†	46.8	46.7	[0.00]	mg/L	15:15:52
2	P 214.914†	22.1	22.0	[0.00]	mg/L	15:15:52
2	Pb 220.353†	-164.9	-164.7	[0.00]	mg/L	15:15:52
2	Sb 206.836†	9.8	9.8	[0.00]	mg/L	15:15:52
2	Se 196.026†	-2.8	-2.8	[0.00]	mg/L	15:15:52
2	Sn 189.927†	168.2	168.0	[0.00]	mg/L	15:15:52
2	Sr 407.771†	7591.3	7582.0	[0.00]	mg/L	15:15:26
2	Ti 337.279†	-2453.7	-2450.7	[0.00]	mg/L	15:15:31
2	Tl 190.801†	-3.0	-3.0	[0.00]	mg/L	15:15:52
2	V 292.402†	-1705.4	-1703.4	[0.00]	mg/L	15:15:31
2	Zn 213.857†	635.4	634.6	[0.00]	mg/L	15:15:52

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3672201.0	6363.14	0.17%	1.00	mg/L
Ag 328.068†	-1394.8	8.68	0.62%	[0.00]	mg/L
Al 237.313†	-44.4	20.13	45.30%	[0.00]	mg/L
As 188.979†	4.6	2.34	50.82%	[0.00]	mg/L
B 182.528†	-4.0	1.75	44.08%	[0.00]	mg/L
Ba 233.527†	-166.8	3.14	1.89%	[0.00]	mg/L
Be 313.107†	2391.5	14.95	0.63%	[0.00]	mg/L
Ca 315.886†	1218.4	17.87	1.47%	[0.00]	mg/L
Cd 228.802†	126.9	3.53	2.78%	[0.00]	mg/L
Co 228.616†	-168.1	2.50	1.49%	[0.00]	mg/L
Cr 267.716†	1162.1	14.08	1.21%	[0.00]	mg/L
Cu 324.752†	2782.8	16.34	0.59%	[0.00]	mg/L
Fe 234.349†	1292.2	36.30	2.81%	[0.00]	mg/L
Fe 238.204†	1112.8	4.30	0.39%	[0.00]	mg/L
K 766.490†	678.7	43.99	6.48%	[0.00]	mg/L
Li 670.784†	91.7	9.52	10.39%	[0.00]	mg/L
Mg 279.077†	557.1	66.63	11.96%	[0.00]	mg/L
Mn 257.610†	1968.2	0.65	0.03%	[0.00]	mg/L
Mo 202.031†	23.2	2.65	11.40%	[0.00]	mg/L
Na 589.592	7193.4	43.55	0.61%	[0.00]	mg/L
Ni 231.604†	47.2	0.74	1.57%	[0.00]	mg/L
P 214.914†	20.1	2.77	13.77%	[0.00]	mg/L
Pb 220.353†	-160.2	6.41	4.00%	[0.00]	mg/L
Sb 206.836†	0.7	12.88	>999.9%	[0.00]	mg/L
Se 196.026†	-5.4	3.65	67.54%	[0.00]	mg/L
Sn 189.927†	165.1	4.06	2.46%	[0.00]	mg/L
Sr 407.771†	7403.1	252.98	3.42%	[0.00]	mg/L
Ti 337.279†	-2474.6	33.78	1.37%	[0.00]	mg/L
Tl 190.801†	-6.0	4.23	70.96%	[0.00]	mg/L
V 292.402†	-1725.2	30.88	1.79%	[0.00]	mg/L
Zn 213.857†	642.0	10.55	1.64%	[0.00]	mg/L

==========

Sequence No.: 2
Sample ID: Calib Std 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 6/26/2006 3:17:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	8591.4	8008.4	[5.0000]	mg/L	15:19:03
1	Li 670.784†	3438.3	3385.0	[0.1]	mg/L	15:19:03
1	Na 589.592	47571.7	40378.3	[5.0000]	mg/L	15:19:03
1	Y 371.029	3631770.5	3631770.5	0.989	mg/L	15:19:16
1	Ag 328.068†	13119.5	14660.3	[0.05]	mg/L	15:19:22
1	Al 237.313†	4656.9	4753.2	[0.5]	mg/L	15:19:22
1	As 188.979†	86.6	83.0	[0.1000]	mg/L	15:19:42
1	B 182.528†	44.4	48.8	[0.1000]	mg/L	15:19:42
1	Ba 233.527†	12617.9	12925.1	[0.1000]	mg/L	15:19:22
1	Be 313.107†	53506.3	51710.4	[0.0100]	mg/L	15:19:22

1	Ca 315.886†	153967.5	154463.2	[1.0000]	mg/L	15:19:16
1	Cd 228.802†	2250.4	2148.5	[0.0500]	mg/L	15:19:42
1	Co 228.616†	3837.6	4048.4	[0.1000]	mg/L	15:19:42
1	Cr 267.716†	17816.1	16852.3	[0.1000]	mg/L	15:19:22
1	Cu 324.752†	31116.5	28680.0	[0.1000]	mg/L	15:19:22
1	Fe 234.349†	29052.5	28083.8	[0.5]	mg/L	15:19:22
1	Fe 238.204†	63920.2	63519.0	[0.5]	mg/L	15:19:22
1	Mg 279.077†	27913.6	27667.3	[1.0000]	mg/L	15:19:22
1	Mn 257.610†	100915.3	100070.5	[0.1000]	mg/L	15:19:22
1	Mo 202.031†	1551.4	1545.5	[0.1000]	mg/L	15:19:42
1	Ni 231.604†	3541.3	3533.5	[0.1000]	mg/L	15:19:22
1	P 214.914†	1460.0	1456.2	[1]	mg/L	15:19:42
1	Pb 220.353†	771.8	940.6	[0.1000]	mg/L	15:19:42
1	Sb 206.836†	216.6	218.4	[0.1000]	mg/L	15:19:42
1	Se 196.026†	168.3	175.6	[0.2000]	mg/L	15:19:42
1	Sn 189.927†	611.8	453.5	[0.1000]	mg/L	15:19:42
1	Sr 407.771†	245696.7	241028.8	[0.0100]	mg/L	15:19:16
1	Ti 337.279†	75397.1	78711.1	[0.1000]	mg/L	15:19:22
1	Tl 190.801†	102.5	109.6	[0.1000]	mg/L	15:19:42
1	V 292.402†	25253.6	27260.0	[0.1000]	mg/L	15:19:22
1	Zn 213.857†	8947.7	8405.2	[0.1000]	mg/L	15:19:22
2	K 766.490†	8633.3	8011.8	[5.0000]	mg/L	15:19:08
2	Li 670.784†	3466.1	3397.4	[0.1]	mg/L	15:19:08
2	Na 589.592	48206.0	41012.5	[5.0000]	mg/L	15:19:08
2	Y 371.029	3648025.4	3648025.4	0.993	mg/L	15:19:48
2	Ag 328.068†	13253.9	14736.5	[0.05]	mg/L	15:19:53
2	Al 237.313†	4701.1	4776.7	[0.5]	mg/L	15:19:53
2	As 188.979†	91.4	87.4	[0.1000]	mg/L	15:20:14
2	B 182.528†	46.9	51.1	[0.1000]	mg/L	15:20:14
2	Ba 233.527†	12626.9	12877.3	[0.1000]	mg/L	15:19:53
2	Be 313.107†	53509.5	51472.6	[0.0100]	mg/L	15:19:53
2	Ca 315.886†	154981.8	154790.5	[1.0000]	mg/L	15:19:48
2	Cd 228.802†	2241.1	2129.1	[0.0500]	mg/L	15:20:14
2	Co 228.616†	3858.9	4052.6	[0.1000]	mg/L	15:20:14
2	Cr 267.716†	17869.8	16826.1	[0.1000]	mg/L	15:19:53
2	Cu 324.752†	31283.5	28707.9	[0.1000]	mg/L	15:19:53
2	Fe 234.349†	29071.3	27971.8	[0.5]	mg/L	15:19:53
2	Fe 238.204†	64103.2	63415.2	[0.5]	mg/L	15:19:53
2	Mg 279.077†	27931.5	27559.5	[1.0000]	mg/L	15:19:53
2	Mn 257.610†	100915.9	99616.5	[0.1000]	mg/L	15:19:53
2	Mo 202.031†	1575.6	1562.8	[0.1000]	mg/L	15:20:14
2	Ni 231.604†	3563.9	3540.3	[0.1000]	mg/L	15:19:53
2	P 214.914†	1466.6	1456.3	[1]	mg/L	15:20:14
2	Pb 220.353†	774.0	939.4	[0.1000]	mg/L	15:20:14
2	Sb 206.836†	212.6	213.3	[0.1000]	mg/L	15:20:14
2	Se 196.026†	167.9	174.5	[0.2000]	mg/L	15:20:14
2	Sn 189.927†	611.9	450.8	[0.1000]	mg/L	15:20:14
2	Sr 407.771†	247131.7	241366.3	[0.0100]	mg/L	15:19:48
2	Ti 337.279†	75504.1	78479.0	[0.1000]	mg/L	15:19:53
2	Tl 190.801†	99.3	105.9	[0.1000]	mg/L	15:20:14
2	V 292.402†	25448.4	27342.2	[0.1000]	mg/L	15:19:53
2	Zn 213.857†	8965.2	8382.6	[0.1000]	mg/L	15:19:53

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3639897.9	11493.96	0.32%	0.991	mg/L
Ag 328.068†	14698.4	53.88	0.37%	[0.05]	mg/L
Al 237.313†	4765.0	16.61	0.35%	[0.5]	mg/L
As 188.979†	85.2	3.13	3.67%	[0.1000]	mg/L
B 182.528†	50.0	1.64	3.28%	[0.1000]	mg/L
Ba 233.527†	12901.2	33.82	0.26%	[0.1000]	mg/L
Be 313.107†	51591.5	168.17	0.33%	[0.0100]	mg/L
Ca 315.886†	154626.8	231.48	0.15%	[1.0000]	mg/L
Cd 228.802†	2138.8	13.76	0.64%	[0.0500]	mg/L
Co 228.616†	4050.5	2.95	0.07%	[0.1000]	mg/L
Cr 267.716†	16839.2	18.53	0.11%	[0.1000]	mg/L
Cu 324.752†	28694.0	19.75	0.07%	[0.1000]	mg/L
Fe 234.349†	28027.8	79.16	0.28%	[0.5]	mg/L
Fe 238.204†	63467.1	73.38	0.12%	[0.5]	mg/L
K 766.490†	8010.1	2.45	0.03%	[5.0000]	mg/L

Li 670.784†	3391.2	8.83	0.26%	[0.1]	mg/L
Mg 279.077†	27613.4	76.16	0.28%	[1.0000]	mg/L
Mn 257.610†	99843.5	321.07	0.32%	[0.1000]	mg/L
Mo 202.031†	1554.1	12.24	0.79%	[0.1000]	mg/L
Na 589.592	40695.4	448.50	1.10%	[5.0000]	mg/L
Ni 231.604†	3536.9	4.79	0.14%	[0.1000]	mg/L
P 214.914†	1456.2	0.05	0.00%	[1]	mg/L
Pb 220.353†	940.0	0.85	0.09%	[0.1000]	mg/L
Sb 206.836†	215.9	3.58	1.66%	[0.1000]	mg/L
Se 196.026†	175.0	0.82	0.47%	[0.2000]	mg/L
Sn 189.927†	452.2	1.89	0.42%	[0.1000]	mg/L
Sr 407.771†	241197.5	238.66	0.10%	[0.0100]	mg/L
Ti 337.279†	78595.0	164.07	0.21%	[0.1000]	mg/L
Tl 190.801†	107.8	2.64	2.45%	[0.1000]	mg/L
V 292.402†	27301.1	58.15	0.21%	[0.1000]	mg/L
Zn 213.857†	8393.9	16.05	0.19%	[0.1000]	mg/L

Sequence No.: 3
Sample ID: Calib Std 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/26/2006 3:21:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	40731.8	40910.6	[25.0000]	mg/L	15:23:29
1	Li 670.784†	16749.3	17010.2	[0.5]	mg/L	15:23:29
1	Na 589.592	208977.7	201784.3	[25.000]	mg/L	15:23:29
1	Y 371.029	3596494.2	3596494.2	0.979	mg/L	15:23:44
1	Ag 328.068†	71474.2	74373.6	[0.25]	mg/L	15:23:49
1	Al 237.313†	22885.0	23411.2	[2.5]	mg/L	15:23:49
1	As 188.979†	415.9	420.1	[0.5000]	mg/L	15:24:09
1	B 182.528†	236.5	245.5	[0.5000]	mg/L	15:24:09
1	Ba 233.527†	62126.0	63600.6	[0.5000]	mg/L	15:23:49
1	Be 313.107†	251994.5	254907.5	[0.0500]	mg/L	15:23:44
1	Ca 315.886†	759656.8	774429.3	[5.0000]	mg/L	15:23:44
1	Cd 228.802†	10615.9	10712.5	[0.2500]	mg/L	15:24:09
1	Co 228.616†	19278.6	19852.5	[0.5000]	mg/L	15:23:49
1	Cr 267.716†	81969.2	82532.5	[0.5000]	mg/L	15:23:49
1	Cu 324.752†	139824.6	139985.0	[0.5000]	mg/L	15:23:49
1	Fe 234.349†	135886.7	137454.9	[2.5]	mg/L	15:23:49
1	Fe 238.204†	304683.8	309984.7	[2.5]	mg/L	15:23:49
1	Mg 279.077†	133183.8	135430.2	[5.0000]	mg/L	15:23:49
1	Mn 257.610†	473451.9	481450.0	[0.5000]	mg/L	15:23:44
1	Mo 202.031†	7657.2	7795.1	[0.5000]	mg/L	15:24:09
1	Ni 231.604†	16974.6	17284.7	[0.5000]	mg/L	15:23:49
1	P 214.914†	7244.6	7377.0	[5]	mg/L	15:24:09
1	Pb 220.353†	4433.6	4687.1	[0.5000]	mg/L	15:24:09
1	Sb 206.836†	1051.9	1073.4	[0.5000]	mg/L	15:24:09
1	Se 196.026†	845.3	868.5	[1.0000]	mg/L	15:24:09
1	Sn 189.927†	2186.0	2066.9	[0.5000]	mg/L	15:24:09
1	Sr 407.771†	1166642.2	1183797.1	[0.0500]	mg/L	15:23:44
1	Ti 337.279†	381875.9	392389.1	[0.5000]	mg/L	15:23:49
1	Tl 190.801†	542.9	560.3	[0.5000]	mg/L	15:24:09
1	V 292.402†	131208.7	135695.9	[0.5000]	mg/L	15:23:49
1	Zn 213.857†	40842.6	41060.3	[0.5000]	mg/L	15:23:49
2	K 766.490†	41219.0	41629.7	[25.0000]	mg/L	15:23:34
2	Li 670.784†	16904.9	17260.0	[0.5]	mg/L	15:23:34
2	Na 589.592	209503.8	202310.4	[25.000]	mg/L	15:23:34
2	Y 371.029	3577651.9	3577651.9	0.974	mg/L	15:24:16
2	Ag 328.068†	71787.7	75079.7	[0.25]	mg/L	15:24:22
2	Al 237.313†	23081.8	23736.2	[2.5]	mg/L	15:24:22
2	As 188.979†	407.0	413.1	[0.5000]	mg/L	15:24:42
2	B 182.528†	233.3	243.4	[0.5000]	mg/L	15:24:42
2	Ba 233.527†	62847.2	64674.9	[0.5000]	mg/L	15:24:22
2	Be 313.107†	251270.9	255519.9	[0.0500]	mg/L	15:24:16
2	Ca 315.886†	755242.7	773983.7	[5.0000]	mg/L	15:24:16
2	Cd 228.802†	10622.6	10776.4	[0.2500]	mg/L	15:24:42
2	Co 228.616†	19484.6	20167.7	[0.5000]	mg/L	15:24:22

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
2	Cr 267.716†	82875.9	83904.0	[0.5000]	mg/L	15:24:22
2	Cu 324.752†	140910.7	141851.8	[0.5000]	mg/L	15:24:22
2	Fe 234.349†	137296.6	139632.9	[2.5]	mg/L	15:24:22
2	Fe 238.204†	308355.1	315391.4	[2.5]	mg/L	15:24:22
2	Mg 279.077†	134757.6	137761.8	[5.0000]	mg/L	15:24:22
2	Mn 257.610†	471094.0	481575.7	[0.5000]	mg/L	15:24:16
2	Mo 202.031†	7664.9	7844.3	[0.5000]	mg/L	15:24:42
2	Ni 231.604†	17133.6	17539.2	[0.5000]	mg/L	15:24:22
2	P 214.914†	7243.4	7414.8	[5]	mg/L	15:24:42
2	Pb 220.353†	4425.0	4702.2	[0.5000]	mg/L	15:24:42
2	Sb 206.836†	1043.9	1070.8	[0.5000]	mg/L	15:24:42
2	Se 196.026†	842.7	870.4	[1.0000]	mg/L	15:24:42
2	Sn 189.927†	2182.4	2075.0	[0.5000]	mg/L	15:24:42
2	Sr 407.771†	1162817.1	1186144.6	[0.0500]	mg/L	15:24:16
2	Ti 337.279†	384796.9	397440.8	[0.5000]	mg/L	15:24:22
2	Tl 190.801†	559.6	580.4	[0.5000]	mg/L	15:24:42
2	V 292.402†	132571.2	137799.9	[0.5000]	mg/L	15:24:22
2	Zn 213.857†	41434.0	41887.0	[0.5000]	mg/L	15:24:22

Mean Data: Calib Std 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3587073.1	13323.55	0.37%	0.977	mg/L
Ag 328.068†	74726.6	499.29	0.67%	[0.25]	mg/L
Al 237.313†	23573.7	229.82	0.97%	[2.5]	mg/L
As 188.979†	416.6	4.94	1.18%	[0.5000]	mg/L
B 182.528†	244.5	1.43	0.59%	[0.5000]	mg/L
Ba 233.527†	64137.7	759.66	1.18%	[0.5000]	mg/L
Be 313.107†	255213.7	433.03	0.17%	[0.0500]	mg/L
Ca 315.886†	774206.5	315.09	0.04%	[5.0000]	mg/L
Cd 228.802†	10744.4	45.20	0.42%	[0.2500]	mg/L
Co 228.616†	20010.1	222.82	1.11%	[0.5000]	mg/L
Cr 267.716†	83218.3	969.78	1.17%	[0.5000]	mg/L
Cu 324.752†	140918.4	1320.02	0.94%	[0.5000]	mg/L
Fe 234.349†	138543.9	1540.06	1.11%	[2.5]	mg/L
Fe 238.204†	312688.0	3823.10	1.22%	[2.5]	mg/L
K 766.490†	41270.1	508.49	1.23%	[25.0000]	mg/L
Li 670.784†	17135.1	176.67	1.03%	[0.5]	mg/L
Mg 279.077†	136596.0	1648.70	1.21%	[5.0000]	mg/L
Mn 257.610†	481512.9	88.91	0.02%	[0.5000]	mg/L
Mo 202.031†	7819.7	34.74	0.44%	[0.5000]	mg/L
Na 589.592	202047.3	371.99	0.18%	[25.000]	mg/L
Ni 231.604†	17412.0	179.97	1.03%	[0.5000]	mg/L
P 214.914†	7395.9	26.72	0.36%	[5]	mg/L
Pb 220.353†	4694.7	10.62	0.23%	[0.5000]	mg/L
Sb 206.836†	1072.1	1.81	0.17%	[0.5000]	mg/L
Se 196.026†	869.5	1.36	0.16%	[1.0000]	mg/L
Sn 189.927†	2070.9	5.70	0.28%	[0.5000]	mg/L
Sr 407.771†	1184970.9	1659.94	0.14%	[0.0500]	mg/L
Ti 337.279†	394914.9	3572.08	0.90%	[0.5000]	mg/L
Tl 190.801†	570.3	14.18	2.49%	[0.5000]	mg/L
V 292.402†	136747.9	1487.75	1.09%	[0.5000]	mg/L
Zn 213.857†	41473.6	584.54	1.41%	[0.5000]	mg/L

Sequence No.: 4
Sample ID: Calib Std 3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/26/2006 3:26:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 3

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	81368.7	83066.0	[50.0000]	mg/L	15:27:56
1	Li 670.784†	32736.1	33600.3	[1]	mg/L	15:27:56
1	Na 589.592	411208.4	404014.9	[50.000]	mg/L	15:27:56
1	Y 371.029	3568017.3	3568017.3	0.972	mg/L	15:28:14
1	Ag 328.068†	142910.8	148478.6	[0.5]	mg/L	15:28:20
1	Al 237.313†	45775.4	47156.5	[5]	mg/L	15:28:20

1	As 188.979†	802.6	821.4	[1.0000] mg/L	15:28:40
1	B 182.528†	476.6	494.5	[1.0000] mg/L	15:28:40
1	Ba 233.527†	123293.6	127060.5	[1.0000] mg/L	15:28:20
1	Be 313.107†	500336.6	512554.5	[0.1000] mg/L	15:28:14
1	Ca 315.886†	1505135.3	1547865.9	[10.0000] mg/L	15:28:14
1	Cd 228.802†	20806.8	21287.4	[0.5000] mg/L	15:28:40
1	Co 228.616†	38572.6	39867.0	[1.0000] mg/L	15:28:40
1	Cr 267.716†	161191.5	164736.1	[1.0000] mg/L	15:28:20
1	Cu 324.752†	274266.8	279492.4	[1.0000] mg/L	15:28:20
1	Fe 234.349†	267496.7	274015.3	[5.0] mg/L	15:28:20
1	Fe 238.204†	601670.3	618125.8	[5.0] mg/L	15:28:20
1	Mg 279.077†	261840.0	268928.4	[10.0000] mg/L	15:28:20
1	Mn 257.610†	932185.4	957436.4	[1.0000] mg/L	15:28:14
1	Mo 202.031†	15029.2	15444.8	[1.0000] mg/L	15:28:40
1	Ni 231.604†	33144.9	34065.5	[1.0000] mg/L	15:28:20
1	P 214.914†	14446.5	14848.3	[10] mg/L	15:28:40
1	Pb 220.353†	8875.3	9294.7	[1.0000] mg/L	15:28:40
1	Sb 206.836†	2078.1	2138.1	[1.0000] mg/L	15:28:40
1	Se 196.026†	1676.0	1730.3	[2.0000] mg/L	15:28:40
1	Sn 189.927†	4043.0	3996.0	[1.0000] mg/L	15:28:40
1	Sr 407.771†	2281693.9	2340914.8	[0.1000] mg/L	15:28:14
1	Ti 337.279†	762926.8	787678.4	[1.0000] mg/L	15:28:20
1	Tl 190.801†	1223.5	1265.2	[1.0000] mg/L	15:28:40
1	V 292.402†	263106.5	272514.3	[1.0000] mg/L	15:28:20
1	Zn 213.857†	80629.4	82341.7	[1.0000] mg/L	15:28:20
2	K 766.490†	80813.2	82635.2	[50.0000] mg/L	15:28:03
2	Li 670.784†	32322.1	33230.6	[1] mg/L	15:28:03
2	Na 589.592	407042.0	399848.6	[50.000] mg/L	15:28:03
2	Y 371.029	3561981.0	3561981.0	0.970 mg/L	15:28:48
2	Ag 328.068†	144026.2	149877.7	[0.5] mg/L	15:28:54
2	Al 237.313†	45970.1	47437.0	[5] mg/L	15:28:54
2	As 188.979†	810.4	830.9	[1.0000] mg/L	15:29:14
2	B 182.528†	481.0	499.9	[1.0000] mg/L	15:29:14
2	Ba 233.527†	124080.5	128086.8	[1.0000] mg/L	15:28:54
2	Be 313.107†	499376.2	512437.1	[0.1000] mg/L	15:28:48
2	Ca 315.886†	1502742.6	1548024.3	[10.0000] mg/L	15:28:48
2	Cd 228.802†	20839.9	21357.8	[0.5000] mg/L	15:29:14
2	Co 228.616†	38611.3	39974.2	[1.0000] mg/L	15:29:14
2	Cr 267.716†	161960.1	165809.6	[1.0000] mg/L	15:28:54
2	Cu 324.752†	276082.1	281842.2	[1.0000] mg/L	15:28:54
2	Fe 234.349†	268334.1	275345.2	[5.0] mg/L	15:28:54
2	Fe 238.204†	604928.6	622534.4	[5.0] mg/L	15:28:54
2	Mg 279.077†	263726.5	271330.0	[10.0000] mg/L	15:28:54
2	Mn 257.610†	931379.0	958230.9	[1.0000] mg/L	15:28:48
2	Mo 202.031†	15134.7	15579.8	[1.0000] mg/L	15:29:14
2	Ni 231.604†	33601.4	34594.0	[1.0000] mg/L	15:28:54
2	P 214.914†	14458.3	14885.6	[10] mg/L	15:29:14
2	Pb 220.353†	8911.9	9347.9	[1.0000] mg/L	15:29:14
2	Sb 206.836†	2068.7	2132.1	[1.0000] mg/L	15:29:14
2	Se 196.026†	1689.2	1746.9	[2.0000] mg/L	15:29:14
2	Sn 189.927†	4076.2	4037.3	[1.0000] mg/L	15:29:14
2	Sr 407.771†	2281082.3	2344263.8	[0.1000] mg/L	15:28:48
2	Ti 337.279†	764665.1	790801.1	[1.0000] mg/L	15:28:54
2	Tl 190.801†	1252.9	1297.6	[1.0000] mg/L	15:29:14
2	V 292.402†	264334.6	274239.2	[1.0000] mg/L	15:28:54
2	Zn 213.857†	80937.4	82799.8	[1.0000] mg/L	15:28:54

Mean Data: Calib Std 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3564999.1	4268.29	0.12%	0.971	mg/L
Ag 328.068†	149178.1	989.32	0.66%	[0.5]	mg/L
Al 237.313†	47296.8	198.36	0.42%	[5]	mg/L
As 188.979†	826.1	6.71	0.81%	[1.0000]	mg/L
B 182.528†	497.2	3.79	0.76%	[1.0000]	mg/L
Ba 233.527†	127573.6	725.69	0.57%	[1.0000]	mg/L
Be 313.107†	512495.8	83.05	0.02%	[0.1000]	mg/L
Ca 315.886†	1547945.1	112.02	0.01%	[10.0000]	mg/L
Cd 228.802†	21322.6	49.77	0.23%	[0.5000]	mg/L
Co 228.616†	39920.6	75.81	0.19%	[1.0000]	mg/L
Cr 267.716†	165272.9	759.06	0.46%	[1.0000]	mg/L

Cu 324.752†	280667.3	1661.56	0.59%	[1.0000]	mg/L
Fe 234.349†	274680.2	940.38	0.34%	[5.0]	mg/L
Fe 238.204†	620330.1	3117.31	0.50%	[5.0]	mg/L
K 766.490†	82850.6	304.62	0.37%	[50.0000]	mg/L
Li 670.784†	33415.5	261.48	0.78%	[1]	mg/L
Mg 279.077†	270129.2	1698.18	0.63%	[10.0000]	mg/L
Mn 257.610†	957833.6	561.81	0.06%	[1.0000]	mg/L
Mo 202.031†	15512.3	95.44	0.62%	[1.0000]	mg/L
Na 589.592	401931.8	2946.04	0.73%	[50.000]	mg/L
Ni 231.604†	34329.7	373.71	1.09%	[1.0000]	mg/L
P 214.914†	14866.9	26.38	0.18%	[10]	mg/L
Pb 220.353†	9321.3	37.63	0.40%	[1.0000]	mg/L
Sb 206.836†	2135.1	4.26	0.20%	[1.0000]	mg/L
Se 196.026†	1738.6	11.72	0.67%	[2.0000]	mg/L
Sn 189.927†	4016.6	29.22	0.73%	[1.0000]	mg/L
Sr 407.771†	2342589.3	2368.14	0.10%	[0.1000]	mg/L
Ti 337.279†	789239.7	2208.09	0.28%	[1.0000]	mg/L
Tl 190.801†	1281.4	22.98	1.79%	[1.0000]	mg/L
V 292.402†	273376.7	1219.72	0.45%	[1.0000]	mg/L
Zn 213.857†	82570.7	323.95	0.39%	[1.0000]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin, Calc Int	-71.8	298600	0.00000	0.999998	
Al 237.313	3	Lin, Calc Int	1.8	9454	0.00000	0.999998	
As 188.979	3	Lin, Calc Int	1.8	825.5	0.00000	0.999989	
B 182.528	3	Lin, Calc Int	-0.6	496.4	0.00000	0.999957	
Ba 233.527	3	Lin, Calc Int	128.9	127600	0.00000	0.999996	
Be 313.107	3	Lin, Calc Int	-40.2	5122000	0.00000	0.999997	
Ca 315.886	3	Lin, Calc Int	-31.0	154800	0.00000	1.000000	
Cd 228.802	3	Lin, Calc Int	18.3	42670	0.00000	0.999991	
Co 228.616	3	Lin, Calc Int	35.2	39900	0.00000	0.999999	
Cr 267.716	3	Lin, Calc Int	246.3	165200	0.00000	0.999993	
Cu 324.752	3	Lin, Calc Int	386.7	280500	0.00000	0.999997	
Fe 234.349	3	Lin, Calc Int	471.6	54920	0.00000	0.999990	
Fe 238.204	3	Lin, Calc Int	1104.1	124000	0.00000	0.999991	
K 766.490	3	Lin, Calc Int	-150.7	1659	0.00000	0.999995	
Li 670.784	3	Lin, Calc Int	101.3	33460	0.00000	0.999909	
Mg 279.077	3	Lin, Calc Int	550.4	27010	0.00000	0.999983	
Mn 257.610	3	Lin, Calc Int	2282.4	956300	0.00000	0.999991	
Mo 202.031	3	Lin, Calc Int	13.1	15520	0.00000	0.999990	
Na 589.592	3	Lin, Calc Int	423.4	8037	0.00000	0.999996	
Ni 231.604	3	Lin, Calc Int	91.9	34320	0.00000	0.999972	
P 214.914	3	Lin, Calc Int	-20.5	1488	0.00000	0.999996	
Pb 220.353	3	Lin, Calc Int	9.8	9323	0.00000	0.999993	
Sb 206.836	3	Lin, Calc Int	1.9	2135	0.00000	0.999998	
Se 196.026	3	Lin, Calc Int	0.6	869.0	0.00000	1.000000	
Sn 189.927	3	Lin, Calc Int	34.0	4002	0.00000	0.999842	
Sr 407.771	3	Lin, Calc Int	5614.3	23410000	0.00000	0.999981	
Ti 337.279	3	Lin, Calc Int	-91.2	789400	0.00000	1.000000	
Tl 190.801	3	Lin, Calc Int	-22.1	1280	0.00000	0.998376	
V 292.402	3	Lin, Calc Int	-5.2	273400	0.00000	1.000000	
Zn 213.857	3	Lin, Calc Int	95.6	82530	0.00000	0.999997	

Sequence No.: 5
Sample ID: STD2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/26/2006 3:30:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: STD2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	41178.2	41393.7	25.04	mg/L	25.04	mg/L	15:32:28
1	Li 670.784†	16743.3	17015.2	0.5055	mg/L	0.5055	mg/L	15:32:28
1	Na 589.592	208468.3	201274.9	24.99	mg/L	24.99	mg/L	15:32:28
1	Y 371.029	3594151.6	3594151.6	0.979	mg/L			15:32:43
1	Ag 328.068†	71705.1	74657.1	0.2507	mg/L	0.2507	mg/L	15:32:48

1	Al 237.313†	22996.8	23540.7	2.481 mg/L	2.481 mg/L	15:32:48
1	As 188.979†	411.5	415.8	0.5004 mg/L	0.5004 mg/L	15:33:09
1	B 182.528†	239.7	248.8	0.5026 mg/L	0.5026 mg/L	15:33:09
1	Ba 233.527†	62485.6	64009.3	0.5007 mg/L	0.5007 mg/L	15:32:48
1	Be 313.107†	252017.1	255098.3	0.0494 mg/L	0.0494 mg/L	15:32:43
1	Ca 315.886†	759673.9	774952.3	5.009 mg/L	5.009 mg/L	15:32:43
1	Cd 228.802†	10603.6	10706.9	0.2503 mg/L	0.2503 mg/L	15:33:09
1	Co 228.616†	19319.6	19907.2	0.4969 mg/L	0.4969 mg/L	15:32:48
1	Cr 267.716†	82347.0	82973.1	0.5003 mg/L	0.5003 mg/L	15:32:48
1	Cu 324.752†	139680.5	139930.9	0.4983 mg/L	0.4983 mg/L	15:32:48
1	Fe 234.349†	136471.4	138142.8	2.501 mg/L	2.501 mg/L	15:32:48
1	Fe 238.204†	306402.3	311943.2	2.507 mg/L	2.507 mg/L	15:32:48
1	Mg 279.077†	133763.2	136110.8	5.023 mg/L	5.023 mg/L	15:32:48
1	Mn 257.610†	473549.2	481864.5	0.5016 mg/L	0.5016 mg/L	15:32:43
1	Mo 202.031†	7673.7	7817.1	0.5028 mg/L	0.5028 mg/L	15:33:09
1	Ni 231.604†	17108.5	17432.8	0.5059 mg/L	0.5059 mg/L	15:32:48
1	P 214.914†	7229.6	7366.5	4.966 mg/L	4.966 mg/L	15:33:09
1	Pb 220.353†	4437.2	4693.8	0.5036 mg/L	0.5036 mg/L	15:33:09
1	Sb 206.836†	1048.5	1070.6	0.4900 mg/L	0.4900 mg/L	15:33:09
1	Se 196.026†	845.0	868.8	0.9991 mg/L	0.9991 mg/L	15:33:09
1	Sn 189.927†	2159.2	2041.0	0.5021 mg/L	0.5021 mg/L	15:33:09
1	Sr 407.771†	1168271.0	1186237.7	0.0504 mg/L	0.0504 mg/L	15:32:43
1	Ti 337.279†	386450.0	397316.6	0.5034 mg/L	0.5034 mg/L	15:32:48
1	Tl 190.801†	620.0	639.4	0.5194 mg/L	0.5194 mg/L	15:33:09
1	V 292.402†	131892.7	136482.1	0.5063 mg/L	0.5063 mg/L	15:32:48
1	Zn 213.857†	41084.5	41334.7	0.4971 mg/L	0.4971 mg/L	15:32:48
2	K 766.490†	41429.4	41694.8	25.22 mg/L	25.22 mg/L	15:32:34
2	Li 670.784†	16757.4	17047.6	0.5065 mg/L	0.5065 mg/L	15:32:34
2	Na 589.592	209078.7	201885.2	25.07 mg/L	25.07 mg/L	15:32:34
2	Y 371.029	3590389.7	3590389.7	0.978 mg/L		15:33:15
2	Ag 328.068†	71708.6	74737.4	0.2510 mg/L	0.2510 mg/L	15:33:21
2	Al 237.313†	23221.0	23794.6	2.508 mg/L	2.508 mg/L	15:33:21
2	As 188.979†	407.1	411.7	0.4955 mg/L	0.4955 mg/L	15:33:41
2	B 182.528†	237.9	247.3	0.4996 mg/L	0.4996 mg/L	15:33:41
2	Ba 233.527†	62989.0	64591.0	0.5053 mg/L	0.5053 mg/L	15:33:21
2	Be 313.107†	252151.7	255505.8	0.0494 mg/L	0.0494 mg/L	15:33:15
2	Ca 315.886†	757026.7	773058.1	4.997 mg/L	4.997 mg/L	15:33:15
2	Cd 228.802†	10515.9	10628.6	0.2485 mg/L	0.2485 mg/L	15:33:41
2	Co 228.616†	19506.9	20119.5	0.5022 mg/L	0.5022 mg/L	15:33:21
2	Cr 267.716†	82682.2	83404.1	0.5029 mg/L	0.5029 mg/L	15:33:21
2	Cu 324.752†	141126.0	141558.9	0.5041 mg/L	0.5041 mg/L	15:33:21
2	Fe 234.349†	137499.2	139340.1	2.523 mg/L	2.523 mg/L	15:33:21
2	Fe 238.204†	309281.9	315216.4	2.534 mg/L	2.534 mg/L	15:33:21
2	Mg 279.077†	134592.3	137102.1	5.060 mg/L	5.060 mg/L	15:33:21
2	Mn 257.610†	472991.6	481801.1	0.5015 mg/L	0.5015 mg/L	15:33:15
2	Mo 202.031†	7607.7	7757.8	0.4990 mg/L	0.4990 mg/L	15:33:41
2	Ni 231.604†	17248.0	17593.8	0.5106 mg/L	0.5106 mg/L	15:33:21
2	P 214.914†	7162.2	7305.3	4.925 mg/L	4.925 mg/L	15:33:41
2	Pb 220.353†	4379.6	4639.6	0.4978 mg/L	0.4978 mg/L	15:33:41
2	Sb 206.836†	1035.0	1057.9	0.4840 mg/L	0.4840 mg/L	15:33:41
2	Se 196.026†	840.0	864.5	0.9942 mg/L	0.9942 mg/L	15:33:41
2	Sn 189.927†	2143.8	2027.5	0.4987 mg/L	0.4987 mg/L	15:33:41
2	Sr 407.771†	1163779.8	1182894.8	0.0503 mg/L	0.0503 mg/L	15:33:15
2	Ti 337.279†	384339.7	395571.9	0.5012 mg/L	0.5012 mg/L	15:33:21
2	Tl 190.801†	620.9	641.0	0.5206 mg/L	0.5206 mg/L	15:33:41
2	V 292.402†	132412.7	137155.0	0.5087 mg/L	0.5087 mg/L	15:33:21
2	Zn 213.857†	41375.0	41675.8	0.5013 mg/L	0.5013 mg/L	15:33:21

Mean Data: STD2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3592270.7	0.978	mg/L	0.0007				0.07%
Ag 328.068†	74697.2	0.2508	mg/L	0.00019	0.2508	mg/L	0.00019	0.08%
QC value within limits for Ag 328.068 Recovery = 100.34%								
Al 237.313†	23667.6	2.494	mg/L	0.0189	2.494	mg/L	0.0189	0.76%
QC value within limits for Al 237.313 Recovery = 99.77%								
As 188.979†	413.8	0.4980	mg/L	0.00348	0.4980	mg/L	0.00348	0.70%
QC value within limits for As 188.979 Recovery = 99.59%								
B 182.528†	248.1	0.5011	mg/L	0.00214	0.5011	mg/L	0.00214	0.43%
QC value within limits for B 182.528 Recovery = 100.21%								
Ba 233.527†	64300.2	0.5030	mg/L	0.00322	0.5030	mg/L	0.00322	0.64%

	QC value within limits for Ba 233.527 Recovery = 100.60%					
Be 313.107†	255302.1	0.0494 mg/L	0.00006	0.0494 mg/L	0.00006	0.12%
	QC value within limits for Be 313.107 Recovery = 98.82%					
Ca 315.886†	774005.2	5.003 mg/L	0.0086	5.003 mg/L	0.0086	0.17%
	QC value within limits for Ca 315.886 Recovery = 100.05%					
Cd 228.802†	10667.7	0.2494 mg/L	0.00126	0.2494 mg/L	0.00126	0.50%
	QC value within limits for Cd 228.802 Recovery = 99.75%					
Co 228.616†	20013.4	0.4995 mg/L	0.00376	0.4995 mg/L	0.00376	0.75%
	QC value within limits for Co 228.616 Recovery = 99.90%					
Cr 267.716†	83188.6	0.5016 mg/L	0.00185	0.5016 mg/L	0.00185	0.37%
	QC value within limits for Cr 267.716 Recovery = 100.32%					
Cu 324.752†	140744.9	0.5012 mg/L	0.00411	0.5012 mg/L	0.00411	0.82%
	QC value within limits for Cu 324.752 Recovery = 100.24%					
Fe 234.349†	138741.4	2.512 mg/L	0.0154	2.512 mg/L	0.0154	0.61%
	QC value within limits for Fe 234.349 Recovery = 100.48%					
Fe 238.204†	313579.8	2.520 mg/L	0.0187	2.520 mg/L	0.0187	0.74%
	QC value within limits for Fe 238.204 Recovery = 100.82%					
K 766.490†	41544.3	25.13 mg/L	0.128	25.13 mg/L	0.128	0.51%
	QC value within limits for K 766.490 Recovery = 100.52%					
Li 670.784†	17031.4	0.5060 mg/L	0.00069	0.5060 mg/L	0.00069	0.14%
	QC value within limits for Li 670.784 Recovery = 101.20%					
Mg 279.077†	136606.4	5.042 mg/L	0.0259	5.042 mg/L	0.0259	0.51%
	QC value within limits for Mg 279.077 Recovery = 100.83%					
Mn 257.610†	481832.8	0.5016 mg/L	0.00005	0.5016 mg/L	0.00005	0.01%
	QC value within limits for Mn 257.610 Recovery = 100.31%					
Mo 202.031†	7787.5	0.5009 mg/L	0.00270	0.5009 mg/L	0.00270	0.54%
	QC value within limits for Mo 202.031 Recovery = 100.18%					
Na 589.592	201580.1	25.03 mg/L	0.054	25.03 mg/L	0.054	0.21%
	QC value within limits for Na 589.592 Recovery = 100.11%					
Ni 231.604†	17513.3	0.5082 mg/L	0.00332	0.5082 mg/L	0.00332	0.65%
	QC value within limits for Ni 231.604 Recovery = 101.65%					
P 214.914†	7335.9	4.945 mg/L	0.0291	4.945 mg/L	0.0291	0.59%
	QC value within limits for P 214.914 Recovery = 98.91%					
Pb 220.353†	4666.7	0.5007 mg/L	0.00411	0.5007 mg/L	0.00411	0.82%
	QC value within limits for Pb 220.353 Recovery = 100.14%					
Sb 206.836†	1064.3	0.4870 mg/L	0.00422	0.4870 mg/L	0.00422	0.87%
	QC value within limits for Sb 206.836 Recovery = 97.40%					
Se 196.026†	866.7	0.9966 mg/L	0.00343	0.9966 mg/L	0.00343	0.34%
	QC value within limits for Se 196.026 Recovery = 99.66%					
Sn 189.927†	2034.3	0.5004 mg/L	0.00238	0.5004 mg/L	0.00238	0.48%
	QC value within limits for Sn 189.927 Recovery = 100.08%					
Sr 407.771†	1184566.3	0.0504 mg/L	0.00010	0.0504 mg/L	0.00010	0.20%
	QC value within limits for Sr 407.771 Recovery = 100.70%					
Ti 337.279†	396444.3	0.5023 mg/L	0.00156	0.5023 mg/L	0.00156	0.31%
	QC value within limits for Ti 337.279 Recovery = 100.46%					
Tl 190.801†	640.2	0.5200 mg/L	0.00085	0.5200 mg/L	0.00085	0.16%
	QC value within limits for Tl 190.801 Recovery = 104.01%					
V 292.402†	136818.6	0.5075 mg/L	0.00169	0.5075 mg/L	0.00169	0.33%
	QC value within limits for V 292.402 Recovery = 101.51%					
Zn 213.857†	41505.2	0.4992 mg/L	0.00290	0.4992 mg/L	0.00290	0.58%
	QC value within limits for Zn 213.857 Recovery = 99.84%					

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/26/2006 3:35:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	40789.8	40791.4	24.68	mg/L	24.68	mg/L	15:36:55
1	Li 670.784†	16522.4	16706.3	0.4963	mg/L	0.4963	mg/L	15:36:55
1	Na 589.592	204800.6	197607.1	24.53	mg/L	24.53	mg/L	15:36:55
1	Y 371.029	3611960.7	3611960.7	0.984	mg/L			15:37:10
1	Ag 328.068†	70902.1	73479.4	0.2468	mg/L	0.2468	mg/L	15:37:16
1	Al 237.313†	22398.3	22816.3	2.404	mg/L	2.404	mg/L	15:37:16
1	As 188.979†	390.4	392.3	0.4721	mg/L	0.4721	mg/L	15:37:36
1	B 182.528†	234.2	242.1	0.4890	mg/L	0.4890	mg/L	15:37:36

1	Ba 233.527†	60627.6	61805.5	0.4834 mg/L	0.4834 mg/L	15:37:16
1	Be 313.107†	252024.8	253836.5	0.0492 mg/L	0.0492 mg/L	15:37:10
1	Ca 315.886†	753898.3	765253.4	4.946 mg/L	4.946 mg/L	15:37:10
1	Cd 228.802†	10511.4	10559.8	0.2469 mg/L	0.2469 mg/L	15:37:36
1	Co 228.616†	18865.5	19348.2	0.4831 mg/L	0.4831 mg/L	15:37:16
1	Cr 267.716†	81283.0	81476.5	0.4913 mg/L	0.4913 mg/L	15:37:16
1	Cu 324.752†	136316.6	135807.3	0.4835 mg/L	0.4835 mg/L	15:37:16
1	Fe 234.349†	135982.9	136958.6	2.480 mg/L	2.480 mg/L	15:37:16
1	Fe 238.204†	305570.3	309553.8	2.488 mg/L	2.488 mg/L	15:37:16
1	Mg 279.077†	129589.2	131193.4	4.841 mg/L	4.841 mg/L	15:37:16
1	Mn 257.610†	466895.3	472714.0	0.4920 mg/L	0.4920 mg/L	15:37:10
1	Mo 202.031†	7527.8	7630.1	0.4908 mg/L	0.4908 mg/L	15:37:36
1	Ni 231.604†	16729.6	16961.4	0.4921 mg/L	0.4921 mg/L	15:37:16
1	P 214.914†	6978.0	7074.3	4.769 mg/L	4.769 mg/L	15:37:36
1	Pb 220.353†	4316.3	4548.5	0.4880 mg/L	0.4880 mg/L	15:37:36
1	Sb 206.836†	1006.8	1023.0	0.4679 mg/L	0.4679 mg/L	15:37:36
1	Se 196.026†	826.8	846.0	0.9729 mg/L	0.9729 mg/L	15:37:36
1	Sn 189.927†	2128.8	1999.2	0.4915 mg/L	0.4915 mg/L	15:37:36
1	Sr 407.771†	1150884.4	1162675.7	0.0494 mg/L	0.0494 mg/L	15:37:10
1	Ti 337.279†	313463.9	321166.4	0.4069 mg/L	0.4069 mg/L	15:37:16
1	Tl 190.801†	608.4	624.6	0.5080 mg/L	0.5080 mg/L	15:37:36
1	V 292.402†	128900.6	132775.6	0.4927 mg/L	0.4927 mg/L	15:37:16
1	Zn 213.857†	40645.1	40680.9	0.4893 mg/L	0.4893 mg/L	15:37:16
2	K 766.490†	40583.4	40387.1	24.43 mg/L	24.43 mg/L	15:37:01
2	Li 670.784†	16309.9	16412.1	0.4875 mg/L	0.4875 mg/L	15:37:01
2	Na 589.592	204027.1	196833.7	24.44 mg/L	24.44 mg/L	15:37:01
2	Y 371.029	3629067.4	3629067.4	0.988 mg/L		15:37:42
2	Ag 328.068†	71506.0	73750.7	0.2477 mg/L	0.2477 mg/L	15:37:48
2	Al 237.313†	22448.8	22760.1	2.398 mg/L	2.398 mg/L	15:37:48
2	As 188.979†	387.8	387.8	0.4666 mg/L	0.4666 mg/L	15:38:08
2	B 182.528†	233.6	240.3	0.4854 mg/L	0.4854 mg/L	15:38:08
2	Ba 233.527†	60539.6	61426.0	0.4805 mg/L	0.4805 mg/L	15:37:48
2	Be 313.107†	254047.8	254675.8	0.0494 mg/L	0.0494 mg/L	15:37:42
2	Ca 315.886†	758676.8	766475.8	4.954 mg/L	4.954 mg/L	15:37:42
2	Cd 228.802†	10543.1	10541.5	0.2465 mg/L	0.2465 mg/L	15:38:08
2	Co 228.616†	18835.5	19227.4	0.4800 mg/L	0.4800 mg/L	15:37:48
2	Cr 267.716†	81369.9	81174.9	0.4894 mg/L	0.4894 mg/L	15:37:48
2	Cu 324.752†	137580.1	136432.5	0.4857 mg/L	0.4857 mg/L	15:37:48
2	Fe 234.349†	136062.9	136388.0	2.469 mg/L	2.469 mg/L	15:37:48
2	Fe 238.204†	305478.9	307996.9	2.475 mg/L	2.475 mg/L	15:37:48
2	Mg 279.077†	129394.2	130375.1	4.811 mg/L	4.811 mg/L	15:37:48
2	Mn 257.610†	469322.7	472932.7	0.4923 mg/L	0.4923 mg/L	15:37:42
2	Mo 202.031†	7562.6	7629.2	0.4907 mg/L	0.4907 mg/L	15:38:08
2	Ni 231.604†	16749.7	16901.6	0.4904 mg/L	0.4904 mg/L	15:37:48
2	P 214.914†	6998.5	7061.6	4.761 mg/L	4.761 mg/L	15:38:08
2	Pb 220.353†	4327.2	4538.8	0.4869 mg/L	0.4869 mg/L	15:38:08
2	Sb 206.836†	1029.6	1041.2	0.4765 mg/L	0.4765 mg/L	15:38:08
2	Se 196.026†	835.0	850.3	0.9778 mg/L	0.9778 mg/L	15:38:08
2	Sn 189.927†	2147.7	2008.1	0.4938 mg/L	0.4938 mg/L	15:38:08
2	Sr 407.771†	1155849.2	1162184.0	0.0494 mg/L	0.0494 mg/L	15:37:42
2	Ti 337.279†	313827.4	320032.0	0.4055 mg/L	0.4055 mg/L	15:37:48
2	Tl 190.801†	618.3	631.6	0.5135 mg/L	0.5135 mg/L	15:38:08
2	V 292.402†	129051.4	132310.5	0.4910 mg/L	0.4910 mg/L	15:37:48
2	Zn 213.857†	40624.1	40464.9	0.4867 mg/L	0.4867 mg/L	15:37:48

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3620514.0	0.986	mg/L	0.0033				0.33%
Ag 328.068†	73615.0	0.2472	mg/L	0.00064	0.2472	mg/L	0.00064	0.26%
QC value within limits for Ag 328.068 Recovery = 98.89%								
Al 237.313†	22788.2	2.401	mg/L	0.0042	2.401	mg/L	0.0042	0.17%
QC value within limits for Al 237.313 Recovery = 96.06%								
As 188.979†	390.1	0.4693	mg/L	0.00389	0.4693	mg/L	0.00389	0.83%
QC value within limits for As 188.979 Recovery = 93.87%								
B 182.528†	241.2	0.4872	mg/L	0.00255	0.4872	mg/L	0.00255	0.52%
QC value within limits for B 182.528 Recovery = 97.44%								
Ba 233.527†	61615.7	0.4819	mg/L	0.00210	0.4819	mg/L	0.00210	0.44%
QC value within limits for Ba 233.527 Recovery = 96.39%								
Be 313.107†	254256.1	0.0493	mg/L	0.00012	0.0493	mg/L	0.00012	0.24%
QC value within limits for Be 313.107 Recovery = 98.62%								

Ca 315.886†	765864.6	4.950 mg/L	0.0056	4.950 mg/L	0.0056	0.11%
QC value within limits for Ca 315.886 Recovery = 99.00%						
Cd 228.802†	10550.6	0.2467 mg/L	0.00029	0.2467 mg/L	0.00029	0.12%
QC value within limits for Cd 228.802 Recovery = 98.68%						
Co 228.616†	19287.8	0.4815 mg/L	0.00214	0.4815 mg/L	0.00214	0.44%
QC value within limits for Co 228.616 Recovery = 96.31%						
Cr 267.716†	81325.7	0.4903 mg/L	0.00129	0.4903 mg/L	0.00129	0.26%
QC value within limits for Cr 267.716 Recovery = 98.07%						
Cu 324.752†	136119.9	0.4846 mg/L	0.00157	0.4846 mg/L	0.00157	0.32%
QC value within limits for Cu 324.752 Recovery = 96.92%						
Fe 234.349†	136673.3	2.475 mg/L	0.0073	2.475 mg/L	0.0073	0.30%
QC value within limits for Fe 234.349 Recovery = 98.98%						
Fe 238.204†	308775.3	2.482 mg/L	0.0089	2.482 mg/L	0.0089	0.36%
QC value within limits for Fe 238.204 Recovery = 99.27%						
K 766.490†	40589.3	24.55 mg/L	0.172	24.55 mg/L	0.172	0.70%
QC value within limits for K 766.490 Recovery = 98.22%						
Li 670.784†	16559.2	0.4919 mg/L	0.00622	0.4919 mg/L	0.00622	1.26%
QC value within limits for Li 670.784 Recovery = 98.37%						
Mg 279.077†	130784.2	4.826 mg/L	0.0214	4.826 mg/L	0.0214	0.44%
QC value within limits for Mg 279.077 Recovery = 96.52%						
Mn 257.610†	472823.3	0.4921 mg/L	0.00016	0.4921 mg/L	0.00016	0.03%
QC value within limits for Mn 257.610 Recovery = 98.43%						
Mo 202.031†	7629.7	0.4907 mg/L	0.00004	0.4907 mg/L	0.00004	0.01%
QC value within limits for Mo 202.031 Recovery = 98.14%						
Na 589.592	197220.4	24.49 mg/L	0.068	24.49 mg/L	0.068	0.28%
QC value within limits for Na 589.592 Recovery = 97.94%						
Ni 231.604†	16931.5	0.4913 mg/L	0.00123	0.4913 mg/L	0.00123	0.25%
QC value within limits for Ni 231.604 Recovery = 98.25%						
P 214.914†	7067.9	4.765 mg/L	0.0060	4.765 mg/L	0.0060	0.13%
QC value within limits for P 214.914 Recovery = 95.30%						
Pb 220.353†	4543.7	0.4875 mg/L	0.00073	0.4875 mg/L	0.00073	0.15%
QC value within limits for Pb 220.353 Recovery = 97.49%						
Sb 206.836†	1032.1	0.4722 mg/L	0.00605	0.4722 mg/L	0.00605	1.28%
QC value within limits for Sb 206.836 Recovery = 94.44%						
Se 196.026†	848.2	0.9753 mg/L	0.00346	0.9753 mg/L	0.00346	0.35%
QC value within limits for Se 196.026 Recovery = 97.53%						
Sn 189.927†	2003.6	0.4926 mg/L	0.00158	0.4926 mg/L	0.00158	0.32%
QC value within limits for Sn 189.927 Recovery = 98.53%						
Sr 407.771†	1162429.9	0.0494 mg/L	0.00001	0.0494 mg/L	0.00001	0.03%
QC value within limits for Sr 407.771 Recovery = 98.81%						
Ti 337.279†	320599.2	0.4062 mg/L	0.00102	0.4062 mg/L	0.00102	0.25%
QC value less than the lower limit for Ti 337.279 Recovery = 81.24%						
Tl 190.801†	628.1	0.5107 mg/L	0.00390	0.5107 mg/L	0.00390	0.76%
QC value within limits for Tl 190.801 Recovery = 102.15%						
V 292.402†	132543.0	0.4919 mg/L	0.00120	0.4919 mg/L	0.00120	0.24%
QC value within limits for V 292.402 Recovery = 98.37%						
Zn 213.857†	40572.9	0.4880 mg/L	0.00184	0.4880 mg/L	0.00184	0.38%
QC value within limits for Zn 213.857 Recovery = 97.59%						

QC Failed. Continue with analysis.

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Sequence No.: 7
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/26/2006 3:39:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	736.7	62.4	0.1285	mg/L	0.1285	mg/L	15:41:21
1	Li 670.784†	188.9	98.4	-0.0001	mg/L	-0.0001	mg/L	15:41:21
1	Na 589.592	5250.3	-1943.1	-0.2944	mg/L	-0.2944	mg/L	15:41:21
1	Y 371.029	3650306.4	3650306.4	0.994	mg/L			15:41:34
1	Ag 328.068†	-1251.4	135.9	0.0007	mg/L	0.0007	mg/L	15:41:39
1	Al 237.313†	-62.7	-18.6	-0.0021	mg/L	-0.0021	mg/L	15:42:00
1	As 188.979†	7.2	2.7	0.0011	mg/L	0.0011	mg/L	15:42:00
1	B 182.528†	2.6	6.6	0.0147	mg/L	0.0147	mg/L	15:42:00
1	Ba 233.527†	-170.4	-4.7	-0.0010	mg/L	-0.0010	mg/L	15:42:00
1	Be 313.107†	2401.9	24.7	0.0000	mg/L	0.0000	mg/L	15:41:39
1	Ca 315.886†	1354.5	144.3	0.0011	mg/L	0.0011	mg/L	15:41:39

1	Cd 228.802†	127.8	1.6	-0.0004 mg/L	-0.0004 mg/L	15:42:00
1	Co 228.616†	-153.2	14.0	-0.0005 mg/L	-0.0005 mg/L	15:42:00
1	Cr 267.716†	1101.5	-54.0	-0.0018 mg/L	-0.0018 mg/L	15:41:39
1	Cu 324.752†	2768.2	2.0	-0.0014 mg/L	-0.0014 mg/L	15:41:39
1	Fe 234.349†	1365.6	81.6	-0.0071 mg/L	-0.0071 mg/L	15:42:00
1	Fe 238.204†	1262.8	157.6	-0.0076 mg/L	-0.0076 mg/L	15:42:00
1	Mg 279.077†	524.1	-29.9	-0.0215 mg/L	-0.0215 mg/L	15:41:39
1	Mn 257.610†	1935.1	-21.5	-0.0024 mg/L	-0.0024 mg/L	15:41:39
1	Mo 202.031†	35.3	12.3	0.0000 mg/L	0.0000 mg/L	15:42:00
1	Ni 231.604†	46.0	-0.9	-0.0027 mg/L	-0.0027 mg/L	15:42:00
1	P 214.914†	24.3	4.4	0.0167 mg/L	0.0167 mg/L	15:42:00
1	Pb 220.353†	-150.7	8.6	-0.0001 mg/L	-0.0001 mg/L	15:42:00
1	Sb 206.836†	8.8	8.2	0.0030 mg/L	0.0030 mg/L	15:42:00
1	Se 196.026†	-8.0	-2.7	-0.0037 mg/L	-0.0037 mg/L	15:42:00
1	Sn 189.927†	147.6	-16.6	-0.0126 mg/L	-0.0126 mg/L	15:42:00
1	Sr 407.771†	7508.5	150.4	-0.0002 mg/L	-0.0002 mg/L	15:41:34
1	Ti 337.279†	-2234.6	226.6	0.0004 mg/L	0.0004 mg/L	15:41:39
1	Tl 190.801†	40.9	47.1	0.0540 mg/L	0.0540 mg/L	15:42:00
1	V 292.402†	-1622.2	93.3	0.0004 mg/L	0.0004 mg/L	15:41:39
1	Zn 213.857†	639.7	1.5	-0.0011 mg/L	-0.0011 mg/L	15:42:00
2	K 766.490†	835.0	162.7	0.1889 mg/L	0.1889 mg/L	15:41:26
2	Li 670.784†	151.0	60.5	-0.0012 mg/L	-0.0012 mg/L	15:41:26
2	Na 589.592	5297.3	-1896.1	-0.2886 mg/L	-0.2886 mg/L	15:41:26
2	Y 371.029	3644311.2	3644311.2	0.992 mg/L		15:42:05
2	Ag 328.068†	-1357.5	26.9	0.0003 mg/L	0.0003 mg/L	15:42:11
2	Al 237.313†	-35.6	8.5	0.0007 mg/L	0.0007 mg/L	15:42:31
2	As 188.979†	0.8	-3.8	-0.0068 mg/L	-0.0068 mg/L	15:42:31
2	B 182.528†	2.0	6.0	0.0133 mg/L	0.0133 mg/L	15:42:31
2	Ba 233.527†	-143.1	22.6	-0.0008 mg/L	-0.0008 mg/L	15:42:31
2	Be 313.107†	2496.9	124.4	0.0000 mg/L	0.0000 mg/L	15:42:11
2	Ca 315.886†	1378.9	171.0	0.0013 mg/L	0.0013 mg/L	15:42:11
2	Cd 228.802†	124.4	-1.6	-0.0004 mg/L	-0.0004 mg/L	15:42:31
2	Co 228.616†	-165.4	1.5	-0.0008 mg/L	-0.0008 mg/L	15:42:31
2	Cr 267.716†	1090.0	-63.8	-0.0019 mg/L	-0.0019 mg/L	15:42:11
2	Cu 324.752†	2748.4	-13.5	-0.0014 mg/L	-0.0014 mg/L	15:42:11
2	Fe 234.349†	1339.0	57.1	-0.0075 mg/L	-0.0075 mg/L	15:42:31
2	Fe 238.204†	1263.4	160.2	-0.0076 mg/L	-0.0076 mg/L	15:42:31
2	Mg 279.077†	539.0	-14.0	-0.0209 mg/L	-0.0209 mg/L	15:42:11
2	Mn 257.610†	1952.0	-1.2	-0.0024 mg/L	-0.0024 mg/L	15:42:11
2	Mo 202.031†	35.4	12.5	0.0000 mg/L	0.0000 mg/L	15:42:31
2	Ni 231.604†	57.0	10.2	-0.0024 mg/L	-0.0024 mg/L	15:42:31
2	P 214.914†	21.0	1.0	0.0145 mg/L	0.0145 mg/L	15:42:31
2	Pb 220.353†	-176.5	-17.6	-0.0029 mg/L	-0.0029 mg/L	15:42:31
2	Sb 206.836†	2.6	1.9	0.0001 mg/L	0.0001 mg/L	15:42:31
2	Se 196.026†	-12.6	-7.3	-0.0091 mg/L	-0.0091 mg/L	15:42:31
2	Sn 189.927†	149.5	-14.5	-0.0121 mg/L	-0.0121 mg/L	15:42:31
2	Sr 407.771†	6963.5	-386.3	-0.0003 mg/L	-0.0003 mg/L	15:42:05
2	Ti 337.279†	-2354.1	102.5	0.0002 mg/L	0.0002 mg/L	15:42:11
2	Tl 190.801†	40.2	46.5	0.0535 mg/L	0.0535 mg/L	15:42:31
2	V 292.402†	-1649.3	63.3	0.0003 mg/L	0.0003 mg/L	15:42:11
2	Zn 213.857†	667.4	30.5	-0.0008 mg/L	-0.0008 mg/L	15:42:31

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3647308.8	0.993	mg/L	0.0012				0.12%
Ag 328.068†	81.4	0.0005	mg/L	0.00026	0.0005	mg/L	0.00026	50.32%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	-5.0	-0.0007	mg/L	0.00203	-0.0007	mg/L	0.00203	294.03%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	-0.6	-0.0029	mg/L	0.00555	-0.0029	mg/L	0.00555	194.49%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	6.3	0.0140	mg/L	0.00093	0.0140	mg/L	0.00093	6.66%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	9.0	-0.0009	mg/L	0.00015	-0.0009	mg/L	0.00015	16.06%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	74.6	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	64.55%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	157.6	0.0012	mg/L	0.00012	0.0012	mg/L	0.00012	9.98%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	0.0	-0.0004	mg/L	0.00002	-0.0004	mg/L	0.00002	5.21%

QC value within limits for Cd 228.802 Recovery = Not calculated

Co 228.616†	7.7	-0.0007 mg/L	0.00022	-0.0007 mg/L	0.00022	32.15%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716†	-58.9	-0.0018 mg/L	0.00004	-0.0018 mg/L	0.00004	2.26%

QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 324.752†	-5.8	-0.0014 mg/L	0.00004	-0.0014 mg/L	0.00004	2.79%

QC value within limits for Cu 324.752 Recovery = Not calculated

Fe 234.349†	69.4	-0.0073 mg/L	0.00032	-0.0073 mg/L	0.00032	4.37%

QC value within limits for Fe 234.349 Recovery = Not calculated

Fe 238.204†	158.9	-0.0076 mg/L	0.00002	-0.0076 mg/L	0.00002	0.20%

QC value within limits for Fe 238.204 Recovery = Not calculated

K 766.490†	112.6	0.1587 mg/L	0.04273	0.1587 mg/L	0.04273	26.93%

QC value greater than the upper limit for K 766.490 Recovery = Not calculated

Li 670.784†	79.4	-0.0007 mg/L	0.00080	-0.0007 mg/L	0.00080	122.58%

QC value within limits for Li 670.784 Recovery = Not calculated

Mg 279.077†	-21.9	-0.0212 mg/L	0.00042	-0.0212 mg/L	0.00042	1.96%

QC value less than the lower limit for Mg 279.077 Recovery = Not calculated

Mn 257.610†	-11.4	-0.0024 mg/L	0.00001	-0.0024 mg/L	0.00001	0.62%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031†	12.4	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	16.49%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592	-1919.6	-0.2915 mg/L	0.00414	-0.2915 mg/L	0.00414	1.42%

QC value within limits for Na 589.592 Recovery = Not calculated

Ni 231.604†	4.6	-0.0025 mg/L	0.00023	-0.0025 mg/L	0.00023	9.02%

QC value less than the lower limit for Ni 231.604 Recovery = Not calculated

P 214.914†	2.7	0.0156 mg/L	0.00160	0.0156 mg/L	0.00160	10.24%

QC value within limits for P 214.914 Recovery = Not calculated

Pb 220.353†	-4.5	-0.0015 mg/L	0.00199	-0.0015 mg/L	0.00199	129.49%

QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.836†	5.0	0.0015 mg/L	0.00206	0.0015 mg/L	0.00206	135.91%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026†	-5.0	-0.0064 mg/L	0.00378	-0.0064 mg/L	0.00378	59.08%

QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.927†	-15.5	-0.0124 mg/L	0.00038	-0.0124 mg/L	0.00038	3.03%

QC value within limits for Sn 189.927 Recovery = Not calculated

Sr 407.771†	-118.0	-0.0002 mg/L	0.00002	-0.0002 mg/L	0.00002	6.62%

QC value within limits for Sr 407.771 Recovery = Not calculated

Ti 337.279†	164.6	0.0003 mg/L	0.00011	0.0003 mg/L	0.00011	34.33%

QC value within limits for Ti 337.279 Recovery = Not calculated

Tl 190.801†	46.8	0.0538 mg/L	0.00035	0.0538 mg/L	0.00035	0.65%

QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated

V 292.402†	78.3	0.0003 mg/L	0.00008	0.0003 mg/L	0.00008	25.19%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857†	16.0	-0.0009 mg/L	0.00025	-0.0009 mg/L	0.00025	26.09%

QC value within limits for Zn 213.857 Recovery = Not calculated

QC Failed. Continue with analysis.

Sequence No.: 8
Sample ID: CRI1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/26/2006 3:44:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRI1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	4794.7	4205.4	2.626	mg/L	2.626	mg/L	15:45:44
1	Li 670.784†	1812.6	1754.7	0.0494	mg/L	0.0494	mg/L	15:45:44
1	Na 589.592	25178.5	17985.1	2.185	mg/L	2.185	mg/L	15:45:44
1	Y 371.029	3604977.2	3604977.2	0.982	mg/L			15:45:58
1	Ag 328.068†	5747.0	7249.0	0.0246	mg/L	0.0246	mg/L	15:46:03
1	Al 237.313†	2313.0	2400.5	0.2528	mg/L	0.2528	mg/L	15:46:03
1	As 188.979†	49.9	46.2	0.0537	mg/L	0.0537	mg/L	15:46:23
1	B 182.528†	23.5	27.9	0.0575	mg/L	0.0575	mg/L	15:46:23
1	Ba 233.527†	6286.1	6570.1	0.0505	mg/L	0.0505	mg/L	15:46:03
1	Be 313.107†	28125.0	26257.9	0.0051	mg/L	0.0051	mg/L	15:46:03
1	Ca 315.886†	80295.1	80574.0	0.5209	mg/L	0.5209	mg/L	15:46:03
1	Cd 228.802†	1187.6	1082.8	0.0249	mg/L	0.0249	mg/L	15:46:23
1	Co 228.616†	1857.1	2059.8	0.0506	mg/L	0.0506	mg/L	15:46:23
1	Cr 267.716†	9569.7	8586.1	0.0504	mg/L	0.0504	mg/L	15:46:03

1	Cu 324.752†	16728.8	14257.9	0.0495 mg/L	0.0495 mg/L	15:46:03
1	Fe 234.349†	15214.6	14206.1	0.2495 mg/L	0.2495 mg/L	15:46:03
1	Fe 238.204†	32763.2	32261.3	0.2513 mg/L	0.2513 mg/L	15:46:03
1	Mg 279.077†	14376.1	14087.1	0.5016 mg/L	0.5016 mg/L	15:46:03
1	Mn 257.610†	51598.3	50592.3	0.0505 mg/L	0.0505 mg/L	15:46:03
1	Mo 202.031†	810.0	801.8	0.0508 mg/L	0.0508 mg/L	15:46:23
1	Ni 231.604†	1835.6	1822.6	0.0505 mg/L	0.0505 mg/L	15:46:03
1	P 214.914†	740.9	734.6	0.5076 mg/L	0.5076 mg/L	15:46:23
1	Pb 220.353†	309.4	475.4	0.0501 mg/L	0.0501 mg/L	15:46:23
1	Sb 206.836†	117.1	118.6	0.0536 mg/L	0.0536 mg/L	15:46:23
1	Se 196.026†	85.5	92.5	0.1059 mg/L	0.1059 mg/L	15:46:23
1	Sn 189.927†	333.7	174.8	0.0352 mg/L	0.0352 mg/L	15:46:23
1	Sr 407.771†	126708.8	121668.5	0.0050 mg/L	0.0050 mg/L	15:45:58
1	Ti 337.279†	36597.2	39754.2	0.0505 mg/L	0.0505 mg/L	15:46:03
1	Tl 190.801†	66.6	73.8	0.0752 mg/L	0.0752 mg/L	15:46:23
1	V 292.402†	11887.9	13834.7	0.0513 mg/L	0.0513 mg/L	15:46:03
1	Zn 213.857†	4795.3	4242.6	0.0500 mg/L	0.0500 mg/L	15:46:23
2	K 766.490†	4899.4	4267.5	2.663 mg/L	2.663 mg/L	15:45:49
2	Li 670.784†	1868.8	1795.0	0.0506 mg/L	0.0506 mg/L	15:45:49
2	Na 589.592	25893.9	18700.4	2.274 mg/L	2.274 mg/L	15:45:49
2	Y 371.029	3637473.3	3637473.3	0.991 mg/L		15:46:29
2	Ag 328.068†	5684.0	7133.1	0.0242 mg/L	0.0242 mg/L	15:46:34
2	Al 237.313†	2355.6	2422.5	0.2552 mg/L	0.2552 mg/L	15:46:34
2	As 188.979†	46.8	42.6	0.0493 mg/L	0.0493 mg/L	15:46:55
2	B 182.528†	26.2	30.4	0.0626 mg/L	0.0626 mg/L	15:46:55
2	Ba 233.527†	6286.7	6513.5	0.0500 mg/L	0.0500 mg/L	15:46:34
2	Be 313.107†	28169.2	26046.7	0.0050 mg/L	0.0050 mg/L	15:46:34
2	Ca 315.886†	80664.6	80216.4	0.5186 mg/L	0.5186 mg/L	15:46:34
2	Cd 228.802†	1187.0	1071.4	0.0247 mg/L	0.0247 mg/L	15:46:55
2	Co 228.616†	1855.4	2041.2	0.0502 mg/L	0.0502 mg/L	15:46:55
2	Cr 267.716†	9584.4	8513.8	0.0500 mg/L	0.0500 mg/L	15:46:34
2	Cu 324.752†	16823.2	14201.0	0.0493 mg/L	0.0493 mg/L	15:46:34
2	Fe 234.349†	15329.4	14183.6	0.2491 mg/L	0.2491 mg/L	15:46:34
2	Fe 238.204†	32888.3	32089.4	0.2499 mg/L	0.2499 mg/L	15:46:34
2	Mg 279.077†	14304.4	13883.9	0.4941 mg/L	0.4941 mg/L	15:46:34
2	Mn 257.610†	51874.3	50401.4	0.0503 mg/L	0.0503 mg/L	15:46:34
2	Mo 202.031†	812.6	797.1	0.0505 mg/L	0.0505 mg/L	15:46:55
2	Ni 231.604†	1803.9	1773.9	0.0491 mg/L	0.0491 mg/L	15:46:34
2	P 214.914†	755.2	742.3	0.5128 mg/L	0.5128 mg/L	15:46:55
2	Pb 220.353†	323.7	487.0	0.0513 mg/L	0.0513 mg/L	15:46:55
2	Sb 206.836†	116.2	116.6	0.0527 mg/L	0.0527 mg/L	15:46:55
2	Se 196.026†	79.9	86.1	0.0984 mg/L	0.0984 mg/L	15:46:55
2	Sn 189.927†	343.3	181.5	0.0369 mg/L	0.0369 mg/L	15:46:55
2	Sr 407.771†	127769.9	121586.6	0.0050 mg/L	0.0050 mg/L	15:46:29
2	Ti 337.279†	36731.5	39556.7	0.0502 mg/L	0.0502 mg/L	15:46:34
2	Tl 190.801†	77.1	83.8	0.0830 mg/L	0.0830 mg/L	15:46:55
2	V 292.402†	11854.0	13692.4	0.0508 mg/L	0.0508 mg/L	15:46:34
2	Zn 213.857†	4822.8	4226.8	0.0498 mg/L	0.0498 mg/L	15:46:55

Mean Data: CRI1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3621225.2	0.986	mg/L	0.0063				0.63%
Ag 328.068†	7191.0	0.0244	mg/L	0.00027	0.0244	mg/L	0.00027	1.13%
QC value within limits for Ag 328.068 Recovery = 97.47%								
Al 237.313†	2411.5	0.2540	mg/L	0.00164	0.2540	mg/L	0.00164	0.65%
QC value within limits for Al 237.313 Recovery = 101.60%								
As 188.979†	44.4	0.0515	mg/L	0.00307	0.0515	mg/L	0.00307	5.97%
QC value within limits for As 188.979 Recovery = 103.00%								
B 182.528†	29.2	0.0601	mg/L	0.00360	0.0601	mg/L	0.00360	6.00%
QC value within limits for B 182.528 Recovery = 120.12%								
Ba 233.527†	6541.8	0.0503	mg/L	0.00031	0.0503	mg/L	0.00031	0.62%
QC value within limits for Ba 233.527 Recovery = 100.53%								
Be 313.107†	26152.3	0.0051	mg/L	0.00003	0.0051	mg/L	0.00003	0.57%
QC value within limits for Be 313.107 Recovery = 101.38%								
Ca 315.886†	80395.2	0.5198	mg/L	0.00164	0.5198	mg/L	0.00164	0.31%
QC value within limits for Ca 315.886 Recovery = 103.96%								
Cd 228.802†	1077.1	0.0248	mg/L	0.00017	0.0248	mg/L	0.00017	0.70%
QC value within limits for Cd 228.802 Recovery = 99.14%								
Co 228.616†	2050.5	0.0504	mg/L	0.00033	0.0504	mg/L	0.00033	0.65%
QC value within limits for Co 228.616 Recovery = 100.78%								

Cr 267.716†	8550.0	0.0502 mg/L	0.00031	0.0502 mg/L	0.00031	0.62%
QC value within limits for Cr 267.716 Recovery = 100.44%						
Cu 324.752†	14229.4	0.0494 mg/L	0.00014	0.0494 mg/L	0.00014	0.29%
QC value within limits for Cu 324.752 Recovery = 98.86%						
Fe 234.349†	14194.8	0.2493 mg/L	0.00028	0.2493 mg/L	0.00028	0.11%
QC value within limits for Fe 234.349 Recovery = 99.73%						
Fe 238.204†	32175.4	0.2506 mg/L	0.00098	0.2506 mg/L	0.00098	0.39%
QC value within limits for Fe 238.204 Recovery = 100.25%						
K 766.490†	4236.5	2.644 mg/L	0.0265	2.644 mg/L	0.0265	1.00%
QC value within limits for K 766.490 Recovery = 105.77%						
Li 670.784†	1774.9	0.0500 mg/L	0.00085	0.0500 mg/L	0.00085	1.70%
QC value within limits for Li 670.784 Recovery = 100.03%						
Mg 279.077†	13985.5	0.4979 mg/L	0.00532	0.4979 mg/L	0.00532	1.07%
QC value within limits for Mg 279.077 Recovery = 99.57%						
Mn 257.610†	50496.9	0.0504 mg/L	0.00014	0.0504 mg/L	0.00014	0.28%
QC value within limits for Mn 257.610 Recovery = 100.85%						
Mo 202.031†	799.5	0.0507 mg/L	0.00021	0.0507 mg/L	0.00021	0.42%
QC value within limits for Mo 202.031 Recovery = 101.34%						
Na 589.592	18342.8	2.230 mg/L	0.0629	2.230 mg/L	0.0629	2.82%
QC value within limits for Na 589.592 Recovery = 89.18%						
Ni 231.604†	1798.3	0.0498 mg/L	0.00100	0.0498 mg/L	0.00100	2.02%
QC value within limits for Ni 231.604 Recovery = 99.56%						
P 214.914†	738.5	0.5102 mg/L	0.00365	0.5102 mg/L	0.00365	0.72%
QC value within limits for P 214.914 Recovery = 102.04%						
Pb 220.353†	481.2	0.0507 mg/L	0.00088	0.0507 mg/L	0.00088	1.73%
QC value within limits for Pb 220.353 Recovery = 101.37%						
Sb 206.836†	117.6	0.0532 mg/L	0.00066	0.0532 mg/L	0.00066	1.24%
QC value within limits for Sb 206.836 Recovery = 106.32%						
Se 196.026†	89.3	0.1021 mg/L	0.00527	0.1021 mg/L	0.00527	5.16%
QC value within limits for Se 196.026 Recovery = 102.13%						
Sn 189.927†	178.2	0.0361 mg/L	0.00117	0.0361 mg/L	0.00117	3.26%
QC value within limits for Sn 189.927 Recovery = 72.15%						
Sr 407.771†	121627.5	0.0050 mg/L	0.00000	0.0050 mg/L	0.00000	0.05%
QC value within limits for Sr 407.771 Recovery = 99.10%						
Ti 337.279†	39655.5	0.0503 mg/L	0.00018	0.0503 mg/L	0.00018	0.35%
QC value within limits for Ti 337.279 Recovery = 100.69%						
Tl 190.801†	78.8	0.0791 mg/L	0.00548	0.0791 mg/L	0.00548	6.93%
QC value greater than the upper limit for Tl 190.801 Recovery = 158.17%						
V 292.402†	13763.6	0.0511 mg/L	0.00037	0.0511 mg/L	0.00037	0.73%
QC value within limits for V 292.402 Recovery = 102.16%						
Zn 213.857†	4234.7	0.0499 mg/L	0.00013	0.0499 mg/L	0.00013	0.26%
QC value within limits for Zn 213.857 Recovery = 99.81%						

QC Failed. Continue with analysis.

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Sequence No.: 9
Sample ID: CRI2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 6/26/2006 3:48:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRI2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	2351.9	1665.9	1.095	mg/L	1.095	mg/L	15:50:12
1	Li 670.784†	829.2	735.0	0.0189	mg/L	0.0189	mg/L	15:50:12
1	Na 589.592	13218.7	6025.3	0.6970	mg/L	0.6970	mg/L	15:50:12
1	Y 371.029	3683695.2	3683695.2	1.00	mg/L			15:50:26
1	Ag 328.068†	1083.4	2474.8	0.0085	mg/L	0.0085	mg/L	15:50:31
1	Al 237.313†	861.4	903.2	0.0950	mg/L	0.0950	mg/L	15:50:31
1	As 188.979†	19.1	14.4	0.0152	mg/L	0.0152	mg/L	15:50:51
1	B 182.528†	6.0	9.9	0.0213	mg/L	0.0213	mg/L	15:50:51
1	Ba 233.527†	2344.0	2503.5	0.0186	mg/L	0.0186	mg/L	15:50:51
1	Be 313.107†	12392.8	9962.6	0.0019	mg/L	0.0019	mg/L	15:50:31
1	Ca 315.886†	32014.9	30696.7	0.1986	mg/L	0.1986	mg/L	15:50:31
1	Cd 228.802†	543.8	415.2	0.0093	mg/L	0.0093	mg/L	15:50:51
1	Co 228.616†	638.4	804.5	0.0192	mg/L	0.0192	mg/L	15:50:51
1	Cr 267.716†	4363.7	3188.0	0.0178	mg/L	0.0178	mg/L	15:50:31
1	Cu 324.752†	8065.3	5257.3	0.0174	mg/L	0.0174	mg/L	15:50:31
1	Fe 234.349†	6709.2	5396.1	0.0895	mg/L	0.0895	mg/L	15:50:31
1	Fe 238.204†	13413.6	12259.0	0.0900	mg/L	0.0900	mg/L	15:50:31

1	Mg 279.077†	6043.8	5467.8	0.1822 mg/L	0.1822 mg/L	15:50:31
1	Mn 257.610†	21140.0	19105.9	0.0176 mg/L	0.0176 mg/L	15:50:31
1	Mo 202.031†	340.9	316.6	0.0196 mg/L	0.0196 mg/L	15:50:51
1	Ni 231.604†	734.8	685.3	0.0173 mg/L	0.0173 mg/L	15:50:51
1	P 214.914†	311.1	290.1	0.2088 mg/L	0.2088 mg/L	15:50:51
1	Pb 220.353†	16.9	177.0	0.0180 mg/L	0.0180 mg/L	15:50:51
1	Sb 206.836†	44.5	43.6	0.0192 mg/L	0.0192 mg/L	15:50:51
1	Se 196.026†	22.8	28.2	0.0318 mg/L	0.0318 mg/L	15:50:51
1	Sn 189.927†	216.6	50.8	0.0042 mg/L	0.0042 mg/L	15:50:51
1	Sr 407.771†	54231.0	46658.7	0.0018 mg/L	0.0018 mg/L	15:50:26
1	Ti 337.279†	12713.8	15148.7	0.0193 mg/L	0.0193 mg/L	15:50:31
1	Tl 190.801†	33.1	39.0	0.0478 mg/L	0.0478 mg/L	15:50:51
1	V 292.402†	3536.2	5250.4	0.0195 mg/L	0.0195 mg/L	15:50:31
1	Zn 213.857†	2252.7	1603.6	0.0182 mg/L	0.0182 mg/L	15:50:51
2	K 766.490†	2351.8	1668.3	1.096 mg/L	1.096 mg/L	15:50:18
2	Li 670.784†	858.0	764.6	0.0198 mg/L	0.0198 mg/L	15:50:18
2	Na 589.592	13169.6	5976.2	0.6909 mg/L	0.6909 mg/L	15:50:18
2	Y 371.029	3679684.9	3679684.9	1.00 mg/L		15:50:57
2	Ag 328.068†	1169.0	2561.5	0.0088 mg/L	0.0088 mg/L	15:51:02
2	Al 237.313†	831.6	874.3	0.0920 mg/L	0.0920 mg/L	15:51:02
2	As 188.979†	20.9	16.3	0.0175 mg/L	0.0175 mg/L	15:51:23
2	B 182.528†	7.7	11.7	0.0248 mg/L	0.0248 mg/L	15:51:23
2	Ba 233.527†	2369.7	2531.6	0.0188 mg/L	0.0188 mg/L	15:51:23
2	Be 313.107†	12356.0	9939.4	0.0019 mg/L	0.0019 mg/L	15:51:02
2	Ca 315.886†	32032.3	30748.8	0.1989 mg/L	0.1989 mg/L	15:51:02
2	Cd 228.802†	546.8	418.7	0.0094 mg/L	0.0094 mg/L	15:51:23
2	Co 228.616†	631.1	798.0	0.0191 mg/L	0.0191 mg/L	15:51:23
2	Cr 267.716†	4415.4	3244.3	0.0181 mg/L	0.0181 mg/L	15:51:02
2	Cu 324.752†	8063.9	5264.7	0.0174 mg/L	0.0174 mg/L	15:51:02
2	Fe 234.349†	6683.6	5377.8	0.0891 mg/L	0.0891 mg/L	15:51:02
2	Fe 238.204†	13376.4	12236.4	0.0898 mg/L	0.0898 mg/L	15:51:02
2	Mg 279.077†	5979.8	5410.5	0.1801 mg/L	0.1801 mg/L	15:51:02
2	Mn 257.610†	21062.9	19051.9	0.0175 mg/L	0.0175 mg/L	15:51:02
2	Mo 202.031†	329.2	305.3	0.0188 mg/L	0.0188 mg/L	15:51:23
2	Ni 231.604†	747.2	698.5	0.0177 mg/L	0.0177 mg/L	15:51:23
2	P 214.914†	313.7	293.0	0.2107 mg/L	0.2107 mg/L	15:51:23
2	Pb 220.353†	26.3	186.5	0.0190 mg/L	0.0190 mg/L	15:51:23
2	Sb 206.836†	51.7	51.0	0.0226 mg/L	0.0226 mg/L	15:51:23
2	Se 196.026†	22.8	28.1	0.0317 mg/L	0.0317 mg/L	15:51:23
2	Sn 189.927†	220.0	54.5	0.0051 mg/L	0.0051 mg/L	15:51:23
2	Sr 407.771†	54676.6	47162.3	0.0018 mg/L	0.0018 mg/L	15:50:57
2	Ti 337.279†	12674.5	15123.3	0.0193 mg/L	0.0193 mg/L	15:51:02
2	Tl 190.801†	31.7	37.6	0.0467 mg/L	0.0467 mg/L	15:51:23
2	V 292.402†	3558.6	5276.6	0.0196 mg/L	0.0196 mg/L	15:51:02
2	Zn 213.857†	2272.2	1625.5	0.0185 mg/L	0.0185 mg/L	15:51:23

Mean Data: CRI2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3681690.0	1.00	mg/L	0.001				0.08%
Ag 328.068†	2518.1	0.0087	mg/L	0.00020	0.0087	mg/L	0.00020	2.36%
QC value within limits for Ag 328.068 Recovery = 86.91%								
Al 237.313†	888.7	0.0935	mg/L	0.00216	0.0935	mg/L	0.00216	2.31%
QC value within limits for Al 237.313 Recovery = 93.51%								
As 188.979†	15.3	0.0164	mg/L	0.00162	0.0164	mg/L	0.00162	9.90%
QC value within limits for As 188.979 Recovery = 81.89%								
B 182.528†	10.8	0.0231	mg/L	0.00251	0.0231	mg/L	0.00251	10.87%
QC value within limits for B 182.528 Recovery = 115.37%								
Ba 233.527†	2517.5	0.0187	mg/L	0.00016	0.0187	mg/L	0.00016	0.83%
QC value within limits for Ba 233.527 Recovery = 93.61%								
Be 313.107†	9951.0	0.0019	mg/L	0.00000	0.0019	mg/L	0.00000	0.16%
QC value within limits for Be 313.107 Recovery = 96.66%								
Ca 315.886†	30722.7	0.1988	mg/L	0.00024	0.1988	mg/L	0.00024	0.12%
QC value within limits for Ca 315.886 Recovery = 99.38%								
Cd 228.802†	417.0	0.0093	mg/L	0.00005	0.0093	mg/L	0.00005	0.53%
QC value within limits for Cd 228.802 Recovery = 93.50%								
Co 228.616†	801.2	0.0192	mg/L	0.00012	0.0192	mg/L	0.00012	0.61%
QC value within limits for Co 228.616 Recovery = 95.77%								
Cr 267.716†	3216.1	0.0180	mg/L	0.00024	0.0180	mg/L	0.00024	1.34%
QC value within limits for Cr 267.716 Recovery = 89.80%								
Cu 324.752†	5261.0	0.0174	mg/L	0.00002	0.0174	mg/L	0.00002	0.11%

QC value within limits for Cu 324.752 Recovery = 87.03%						
Fe 234.349†	5387.0	0.0893 mg/L	0.00024	0.0893 mg/L	0.00024	0.27%
QC value within limits for Fe 234.349 Recovery = 89.31%						
Fe 238.204†	12247.7	0.0899 mg/L	0.00013	0.0899 mg/L	0.00013	0.14%
QC value within limits for Fe 238.204 Recovery = 89.89%						
K 766.490†	1667.1	1.096 mg/L	0.0010	1.096 mg/L	0.0010	0.10%
QC value within limits for K 766.490 Recovery = 109.56%						
Li 670.784†	749.8	0.0194 mg/L	0.00063	0.0194 mg/L	0.00063	3.23%
QC value within limits for Li 670.784 Recovery = 96.90%						
Mg 279.077†	5439.2	0.1812 mg/L	0.00150	0.1812 mg/L	0.00150	0.83%
QC value within limits for Mg 279.077 Recovery = 90.58%						
Mn 257.610†	19078.9	0.0176 mg/L	0.00004	0.0176 mg/L	0.00004	0.23%
QC value within limits for Mn 257.610 Recovery = 87.84%						
Mo 202.031†	310.9	0.0192 mg/L	0.00052	0.0192 mg/L	0.00052	2.70%
QC value within limits for Mo 202.031 Recovery = 95.96%						
Na 589.592	6000.7	0.6939 mg/L	0.00432	0.6939 mg/L	0.00432	0.62%
QC value less than the lower limit for Na 589.592 Recovery = 69.39%						
Ni 231.604†	691.9	0.0175 mg/L	0.00027	0.0175 mg/L	0.00027	1.56%
QC value within limits for Ni 231.604 Recovery = 87.52%						
P 214.914†	291.5	0.2097 mg/L	0.00138	0.2097 mg/L	0.00138	0.66%
QC value within limits for P 214.914 Recovery = 104.87%						
Pb 220.353†	181.7	0.0185 mg/L	0.00071	0.0185 mg/L	0.00071	3.87%
QC value within limits for Pb 220.353 Recovery = 92.45%						
Sb 206.836†	47.3	0.0209 mg/L	0.00242	0.0209 mg/L	0.00242	11.57%
QC value within limits for Sb 206.836 Recovery = 104.47%						
Se 196.026†	28.1	0.0318 mg/L	0.00006	0.0318 mg/L	0.00006	0.18%
QC value within limits for Se 196.026 Recovery = 79.38%						
Sn 189.927†	52.6	0.0047 mg/L	0.00065	0.0047 mg/L	0.00065	13.80%
QC value less than the lower limit for Sn 189.927 Recovery = 23.37%						
Sr 407.771†	46910.5	0.0018 mg/L	0.00002	0.0018 mg/L	0.00002	0.86%
QC value within limits for Sr 407.771 Recovery = 88.19%						
Ti 337.279†	15136.0	0.0193 mg/L	0.00002	0.0193 mg/L	0.00002	0.12%
QC value within limits for Ti 337.279 Recovery = 96.44%						
Tl 190.801†	38.3	0.0472 mg/L	0.00077	0.0472 mg/L	0.00077	1.63%
QC value greater than the upper limit for Tl 190.801 Recovery = 236.21%						
V 292.402†	5263.5	0.0195 mg/L	0.00006	0.0195 mg/L	0.00006	0.30%
QC value within limits for V 292.402 Recovery = 97.72%						
Zn 213.857†	1614.6	0.0183 mg/L	0.00019	0.0183 mg/L	0.00019	1.02%
QC value within limits for Zn 213.857 Recovery = 91.61%						

QC Failed. Continue with analysis.

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Sequence No.: 10 **Autosampler Location: 8**
Sample ID: CRI3 **Date Collected: 6/26/2006 3:53:03 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CRI3

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1529.4	852.2	0.6045	mg/L	0.6045	mg/L	15:54:39
1	Li 670.784†	463.3	372.1	0.0081	mg/L	0.0081	mg/L	15:54:39
1	Na 589.592	9034.2	1840.8	0.1764	mg/L	0.1764	mg/L	15:54:39
1	Y 371.029	3668540.7	3668540.7	0.999	mg/L			15:54:52
1	Ag 328.068†	-335.9	1058.6	0.0038	mg/L	0.0038	mg/L	15:54:58
1	Al 237.313†	431.3	476.2	0.0500	mg/L	0.0500	mg/L	15:54:58
1	As 188.979†	14.8	10.2	0.0102	mg/L	0.0102	mg/L	15:55:18
1	B 182.528†	3.2	7.1	0.0157	mg/L	0.0157	mg/L	15:55:18
1	Ba 233.527†	1099.2	1267.0	0.0089	mg/L	0.0089	mg/L	15:55:18
1	Be 313.107†	7377.0	4992.9	0.0010	mg/L	0.0010	mg/L	15:54:58
1	Ca 315.886†	16643.7	15442.0	0.1000	mg/L	0.1000	mg/L	15:54:58
1	Cd 228.802†	332.6	206.0	0.0044	mg/L	0.0044	mg/L	15:55:18
1	Co 228.616†	226.0	394.3	0.0090	mg/L	0.0090	mg/L	15:55:18
1	Cr 267.716†	2751.7	1592.3	0.0081	mg/L	0.0081	mg/L	15:54:58
1	Cu 324.752†	5265.4	2487.8	0.0075	mg/L	0.0075	mg/L	15:54:58
1	Fe 234.349†	3948.3	2660.1	0.0398	mg/L	0.0398	mg/L	15:54:58
1	Fe 238.204†	7158.4	6052.7	0.0399	mg/L	0.0399	mg/L	15:54:58
1	Mg 279.077†	3223.2	2669.4	0.0785	mg/L	0.0785	mg/L	15:54:58
1	Mn 257.610†	11408.8	9452.0	0.0075	mg/L	0.0075	mg/L	15:54:58
1	Mo 202.031†	176.4	153.3	0.0090	mg/L	0.0090	mg/L	15:55:18

1	Ni 231.604†	387.1	340.2	0.0072 mg/L	0.0072 mg/L	15:55:18
1	P 214.914†	159.7	139.8	0.1077 mg/L	0.1077 mg/L	15:55:18
1	Pb 220.353†	-69.8	90.4	0.0087 mg/L	0.0087 mg/L	15:55:18
1	Sb 206.836†	30.8	30.2	0.0131 mg/L	0.0131 mg/L	15:55:18
1	Se 196.026†	8.5	13.9	0.0154 mg/L	0.0154 mg/L	15:55:18
1	Sn 189.927†	161.2	-3.8	-0.0094 mg/L	-0.0094 mg/L	15:55:18
1	Sr 407.771†	30794.4	23422.0	0.0008 mg/L	0.0008 mg/L	15:54:52
1	Ti 337.279†	5133.6	7613.4	0.0098 mg/L	0.0098 mg/L	15:54:58
1	Tl 190.801†	22.3	28.3	0.0394 mg/L	0.0394 mg/L	15:55:18
1	V 292.402†	876.0	2602.1	0.0097 mg/L	0.0097 mg/L	15:54:58
1	Zn 213.857†	1460.3	819.7	0.0087 mg/L	0.0087 mg/L	15:55:18
2	K 766.490†	1474.0	789.1	0.5665 mg/L	0.5665 mg/L	15:54:44
2	Li 670.784†	442.7	349.2	0.0074 mg/L	0.0074 mg/L	15:54:44
2	Na 589.592	9169.9	1976.5	0.1932 mg/L	0.1932 mg/L	15:54:44
2	Y 371.029	3687752.7	3687752.7	1.00 mg/L		15:55:24
2	Ag 328.068†	-341.2	1055.1	0.0038 mg/L	0.0038 mg/L	15:55:29
2	Al 237.313†	459.1	501.7	0.0527 mg/L	0.0527 mg/L	15:55:29
2	As 188.979†	14.7	10.0	0.0099 mg/L	0.0099 mg/L	15:55:49
2	B 182.528†	-0.7	3.3	0.0079 mg/L	0.0079 mg/L	15:55:49
2	Ba 233.527†	1087.1	1249.3	0.0088 mg/L	0.0088 mg/L	15:55:49
2	Be 313.107†	7344.0	4921.5	0.0010 mg/L	0.0010 mg/L	15:55:29
2	Ca 315.886†	16782.5	15493.4	0.1003 mg/L	0.1003 mg/L	15:55:29
2	Cd 228.802†	338.3	209.9	0.0045 mg/L	0.0045 mg/L	15:55:49
2	Co 228.616†	237.1	404.2	0.0092 mg/L	0.0092 mg/L	15:55:49
2	Cr 267.716†	2814.0	1640.1	0.0084 mg/L	0.0084 mg/L	15:55:29
2	Cu 324.752†	5370.1	2564.6	0.0078 mg/L	0.0078 mg/L	15:55:29
2	Fe 234.349†	3997.5	2688.5	0.0403 mg/L	0.0403 mg/L	15:55:29
2	Fe 238.204†	7231.1	6087.8	0.0402 mg/L	0.0402 mg/L	15:55:29
2	Mg 279.077†	3218.9	2648.2	0.0777 mg/L	0.0777 mg/L	15:55:29
2	Mn 257.610†	11628.9	9611.7	0.0077 mg/L	0.0077 mg/L	15:55:29
2	Mo 202.031†	183.9	159.8	0.0095 mg/L	0.0095 mg/L	15:55:49
2	Ni 231.604†	402.8	353.9	0.0076 mg/L	0.0076 mg/L	15:55:49
2	P 214.914†	172.5	151.7	0.1158 mg/L	0.1158 mg/L	15:55:49
2	Pb 220.353†	-78.6	81.9	0.0078 mg/L	0.0078 mg/L	15:55:49
2	Sb 206.836†	26.4	25.7	0.0110 mg/L	0.0110 mg/L	15:55:49
2	Se 196.026†	7.8	13.2	0.0146 mg/L	0.0146 mg/L	15:55:49
2	Sn 189.927†	168.6	2.8	-0.0078 mg/L	-0.0078 mg/L	15:55:49
2	Sr 407.771†	31016.9	23483.0	0.0008 mg/L	0.0008 mg/L	15:55:24
2	Ti 337.279†	5370.4	7822.4	0.0100 mg/L	0.0100 mg/L	15:55:29
2	Tl 190.801†	17.8	23.7	0.0358 mg/L	0.0358 mg/L	15:55:49
2	V 292.402†	938.9	2660.1	0.0099 mg/L	0.0099 mg/L	15:55:29
2	Zn 213.857†	1449.5	801.3	0.0085 mg/L	0.0085 mg/L	15:55:49

Mean Data: CRI3

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3678146.7	1.00	mg/L	0.004				0.37%
Ag 328.068†	1056.9	0.0038	mg/L	0.00001	0.0038	mg/L	0.00001	0.22%
QC value within limits for Ag 328.068 Recovery = 75.76%								
Al 237.313†	488.9	0.0514	mg/L	0.00190	0.0514	mg/L	0.00190	3.70%
QC value within limits for Al 237.313 Recovery = 102.78%								
As 188.979†	10.1	0.0100	mg/L	0.00017	0.0100	mg/L	0.00017	1.71%
QC value within limits for As 188.979 Recovery = 100.44%								
B 182.528†	5.2	0.0118	mg/L	0.00550	0.0118	mg/L	0.00550	46.65%
QC value within limits for B 182.528 Recovery = 117.79%								
Ba 233.527†	1258.2	0.0089	mg/L	0.00010	0.0089	mg/L	0.00010	1.11%
QC value within limits for Ba 233.527 Recovery = 88.51%								
Be 313.107†	4957.2	0.0010	mg/L	0.00001	0.0010	mg/L	0.00001	1.04%
QC value within limits for Be 313.107 Recovery = 96.65%								
Ca 315.886†	15467.7	0.1002	mg/L	0.00024	0.1002	mg/L	0.00024	0.24%
QC value within limits for Ca 315.886 Recovery = 100.17%								
Cd 228.802†	208.0	0.0044	mg/L	0.00007	0.0044	mg/L	0.00007	1.49%
QC value within limits for Cd 228.802 Recovery = 88.71%								
Co 228.616†	399.3	0.0091	mg/L	0.00017	0.0091	mg/L	0.00017	1.91%
QC value within limits for Co 228.616 Recovery = 91.02%								
Cr 267.716†	1616.2	0.0083	mg/L	0.00020	0.0083	mg/L	0.00020	2.46%
QC value within limits for Cr 267.716 Recovery = 82.85%								
Cu 324.752†	2526.2	0.0076	mg/L	0.00019	0.0076	mg/L	0.00019	2.54%
QC value within limits for Cu 324.752 Recovery = 76.42%								
Fe 234.349†	2674.3	0.0400	mg/L	0.00036	0.0400	mg/L	0.00036	0.91%
QC value within limits for Fe 234.349 Recovery = 80.05%								

Fe 238.204†	6070.2	0.0401 mg/L	0.00020	0.0401 mg/L	0.00020	0.50%
QC value within limits for Fe 238.204 Recovery = 80.12%						
K 766.490†	820.7	0.5855 mg/L	0.02689	0.5855 mg/L	0.02689	4.59%
QC value within limits for K 766.490 Recovery = 117.10%						
Li 670.784†	360.6	0.0078 mg/L	0.00048	0.0078 mg/L	0.00048	6.25%
QC value within limits for Li 670.784 Recovery = 77.50%						
Mg 279.077†	2658.8	0.0781 mg/L	0.00055	0.0781 mg/L	0.00055	0.71%
QC value within limits for Mg 279.077 Recovery = 78.13%						
Mn 257.610†	9531.9	0.0076 mg/L	0.00012	0.0076 mg/L	0.00012	1.56%
QC value within limits for Mn 257.610 Recovery = 75.83%						
Mo 202.031†	156.6	0.0092 mg/L	0.00030	0.0092 mg/L	0.00030	3.20%
QC value within limits for Mo 202.031 Recovery = 92.47%						
Na 589.592	1908.6	0.1848 mg/L	0.01194	0.1848 mg/L	0.01194	6.46%
QC value less than the lower limit for Na 589.592 Recovery = 36.96%						
Ni 231.604†	347.1	0.0074 mg/L	0.00028	0.0074 mg/L	0.00028	3.78%
QC value within limits for Ni 231.604 Recovery = 74.46%						
P 214.914†	145.7	0.1117 mg/L	0.00568	0.1117 mg/L	0.00568	5.08%
QC value within limits for P 214.914 Recovery = 111.74%						
Pb 220.353†	86.2	0.0082 mg/L	0.00064	0.0082 mg/L	0.00064	7.75%
QC value within limits for Pb 220.353 Recovery = 82.15%						
Sb 206.836†	27.9	0.0120 mg/L	0.00151	0.0120 mg/L	0.00151	12.52%
QC value within limits for Sb 206.836 Recovery = 120.21%						
Se 196.026†	13.6	0.0150 mg/L	0.00059	0.0150 mg/L	0.00059	3.96%
QC value within limits for Se 196.026 Recovery = 74.85%						
Sn 189.927†	-0.5	-0.0086 mg/L	0.00116	-0.0086 mg/L	0.00116	13.43%
QC value less than the lower limit for Sn 189.927 Recovery = -86.07%						
Sr 407.771†	23452.5	0.0008 mg/L	0.00000	0.0008 mg/L	0.00000	0.24%
QC value within limits for Sr 407.771 Recovery = 76.18%						
Ti 337.279†	7717.9	0.0099 mg/L	0.00019	0.0099 mg/L	0.00019	1.89%
QC value within limits for Ti 337.279 Recovery = 98.92%						
Tl 190.801†	26.0	0.0376 mg/L	0.00256	0.0376 mg/L	0.00256	6.82%
QC value greater than the upper limit for Tl 190.801 Recovery = 375.91%						
V 292.402†	2631.1	0.0098 mg/L	0.00015	0.0098 mg/L	0.00015	1.58%
QC value within limits for V 292.402 Recovery = 97.74%						
Zn 213.857†	810.5	0.0086 mg/L	0.00016	0.0086 mg/L	0.00016	1.85%
QC value within limits for Zn 213.857 Recovery = 86.31%						

QC Failed. Continue with analysis.

Sequence No.: 11 **Autosampler Location: 160**
Sample ID: ICSA **Date Collected: 6/26/2006 3:57:30 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	915.9	327.1	0.2880	mg/L	0.2880	mg/L	15:59:05
1	Li 670.784†	183.2	109.5	0.0002	mg/L	0.0002	mg/L	15:59:05
1	Na 589.592	6157.1	-1036.3	-0.1816	mg/L	-0.1816	mg/L	15:59:05
1	Y 371.029	3343931.0	3343931.0	0.911	mg/L			15:59:31
1	Ag 328.068†	-2028.0	-832.3	0.0011	mg/L	0.0011	mg/L	15:59:37
1	Al 237.313†	2155662.0	2367325.4	250.0	mg/L	250.0	mg/L	15:59:31
1	As 188.979†	13.7	10.4	0.0105	mg/L	0.0105	mg/L	15:59:57
1	B 182.528†	3.3	7.6	0.0166	mg/L	0.0166	mg/L	15:59:57
1	Ba 233.527†	87.1	262.5	0.0010	mg/L	0.0010	mg/L	15:59:57
1	Be 313.107†	-184.4	-2594.0	0.0000	mg/L	0.0000	mg/L	15:59:37
1	Ca 315.886†	33846130.0	37167548.5	240.1	mg/L	240.1	mg/L	15:59:24
1	Cd 228.802†	98.1	-19.2	-0.0003	mg/L	-0.0003	mg/L	15:59:57
1	Co 228.616†	-131.6	23.6	-0.0003	mg/L	-0.0003	mg/L	15:59:57
1	Cr 267.716†	686.6	-408.1	0.0015	mg/L	0.0015	mg/L	15:59:57
1	Cu 324.752†	161.2	-2605.8	0.0058	mg/L	0.0058	mg/L	15:59:37
1	Fe 234.349†	4581593.5	5030071.3	91.58	mg/L	91.58	mg/L	15:59:31
1	Fe 238.204†	9739889.1	10694930.3	86.23	mg/L	86.23	mg/L	15:59:24
1	Mg 279.077†	5803077.3	6372201.9	235.9	mg/L	235.9	mg/L	15:59:31
1	Mn 257.610†	7062.5	5787.7	0.0037	mg/L	0.0037	mg/L	15:59:37
1	Mo 202.031†	242.1	242.6	0.0148	mg/L	0.0148	mg/L	15:59:57
1	Ni 231.604†	87.0	48.3	-0.0013	mg/L	-0.0013	mg/L	15:59:57
1	P 214.914†	-117.2	-148.8	-0.0862	mg/L	-0.0862	mg/L	15:59:57
1	Pb 220.353†	-660.1	-564.6	-0.0161	mg/L	-0.0161	mg/L	15:59:57

1	Sb 206.836†	2.2	1.7	0.0000 mg/L	0.0000 mg/L	15:59:57
1	Se 196.026†	24.0	31.7	0.0359 mg/L	0.0359 mg/L	15:59:57
1	Sn 189.927†	23.9	-138.8	-0.0395 mg/L	-0.0395 mg/L	15:59:57
1	Sr 407.771†	25282.6	20361.5	0.0006 mg/L	0.0006 mg/L	15:59:37
1	Ti 337.279†	1955.0	4621.5	0.0060 mg/L	0.0060 mg/L	15:59:37
1	Tl 190.801†	85.7	100.0	0.0954 mg/L	0.0954 mg/L	15:59:57
1	V 292.402†	1238.0	3084.7	-0.0004 mg/L	-0.0004 mg/L	15:59:57
1	Zn 213.857†	2524.4	2130.2	0.0164 mg/L	0.0164 mg/L	15:59:57
2	K 766.490†	804.6	209.3	0.2170 mg/L	0.2170 mg/L	15:59:10
2	Li 670.784†	167.1	92.7	-0.0003 mg/L	-0.0003 mg/L	15:59:10
2	Na 589.592	6215.9	-977.5	-0.1743 mg/L	-0.1743 mg/L	15:59:10
2	Y 371.029	3327570.8	3327570.8	0.906 mg/L		16:00:16
2	Ag 328.068†	-2052.6	-870.4	0.0010 mg/L	0.0010 mg/L	16:00:21
2	Al 237.313†	2139331.4	2360942.4	249.3 mg/L	249.3 mg/L	16:00:16
2	As 188.979†	12.2	8.9	0.0085 mg/L	0.0085 mg/L	16:00:41
2	B 182.528†	-1.2	2.6	0.0066 mg/L	0.0066 mg/L	16:00:41
2	Ba 233.527†	53.2	225.5	0.0008 mg/L	0.0008 mg/L	16:00:41
2	Be 313.107†	-158.5	-2566.4	0.0000 mg/L	0.0000 mg/L	16:00:21
2	Ca 315.886†	33971639.9	37488800.0	242.2 mg/L	242.2 mg/L	16:00:08
2	Cd 228.802†	116.3	1.4	0.0002 mg/L	0.0002 mg/L	16:00:41
2	Co 228.616†	-142.1	11.3	-0.0006 mg/L	-0.0006 mg/L	16:00:41
2	Cr 267.716†	707.3	-381.6	0.0017 mg/L	0.0017 mg/L	16:00:41
2	Cu 324.752†	131.1	-2638.2	0.0056 mg/L	0.0056 mg/L	16:00:21
2	Fe 234.349†	4535333.9	5003757.7	91.10 mg/L	91.10 mg/L	16:00:16
2	Fe 238.204†	9748895.1	10757456.9	86.74 mg/L	86.74 mg/L	16:00:08
2	Mg 279.077†	5766301.3	6362949.1	235.5 mg/L	235.5 mg/L	16:00:16
2	Mn 257.610†	6960.9	5713.7	0.0036 mg/L	0.0036 mg/L	16:00:21
2	Mo 202.031†	215.6	214.7	0.0130 mg/L	0.0130 mg/L	16:00:41
2	Ni 231.604†	73.9	34.3	-0.0017 mg/L	-0.0017 mg/L	16:00:41
2	P 214.914†	-106.7	-137.9	-0.0789 mg/L	-0.0789 mg/L	16:00:41
2	Pb 220.353†	-660.7	-568.9	-0.0166 mg/L	-0.0166 mg/L	16:00:41
2	Sb 206.836†	2.1	1.7	0.0000 mg/L	0.0000 mg/L	16:00:41
2	Se 196.026†	26.0	34.1	0.0386 mg/L	0.0386 mg/L	16:00:41
2	Sn 189.927†	31.0	-130.9	-0.0375 mg/L	-0.0375 mg/L	16:00:41
2	Sr 407.771†	24803.7	19969.4	0.0006 mg/L	0.0006 mg/L	16:00:21
2	Ti 337.279†	1794.5	4454.9	0.0058 mg/L	0.0058 mg/L	16:00:21
2	Tl 190.801†	66.6	79.5	0.0794 mg/L	0.0794 mg/L	16:00:41
2	V 292.402†	1195.1	3044.1	-0.0005 mg/L	-0.0005 mg/L	16:00:41
2	Zn 213.857†	2544.2	2165.6	0.0169 mg/L	0.0169 mg/L	16:00:41

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3335750.9	0.908	mg/L	0.0032				0.35%
Ag 328.068†	-851.3	0.0011	mg/L	0.00010	0.0011	mg/L	0.00010	9.93%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	2364133.9	249.7	mg/L	0.48	249.7	mg/L	0.48	0.19%
QC value within limits for Al 237.313 Recovery = 99.87%								
As 188.979†	9.6	0.0095	mg/L	0.00135	0.0095	mg/L	0.00135	14.23%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	5.1	0.0116	mg/L	0.00705	0.0116	mg/L	0.00705	60.73%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	244.0	0.0009	mg/L	0.00021	0.0009	mg/L	0.00021	22.78%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-2580.2	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	4.52%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	37328174.2	241.1	mg/L	1.47	241.1	mg/L	1.47	0.61%
QC value within limits for Ca 315.886 Recovery = 96.45%								
Cd 228.802†	-8.9	-0.0001	mg/L	0.00035	-0.0001	mg/L	0.00035	599.03%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	17.4	-0.0005	mg/L	0.00022	-0.0005	mg/L	0.00022	47.48%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-394.8	0.0016	mg/L	0.00009	0.0016	mg/L	0.00009	5.88%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-2622.0	0.0057	mg/L	0.00014	0.0057	mg/L	0.00014	2.49%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	5016914.5	91.34	mg/L	0.339	91.34	mg/L	0.339	0.37%
QC value within limits for Fe 234.349 Recovery = 91.34%								
Fe 238.204†	10726193.6	86.49	mg/L	0.357	86.49	mg/L	0.357	0.41%
QC value within limits for Fe 238.204 Recovery = 86.49%								
K 766.490†	268.2	0.2525	mg/L	0.05023	0.2525	mg/L	0.05023	19.89%

QC value within limits for K 766.490 Recovery = Not calculated

Li 670.784†	101.1	0.0000 mg/L	0.00035	0.0000 mg/L	0.00035	>999.9%
QC value within limits for Li 670.784 Recovery = Not calculated							
Mg 279.077†	6367575.5	235.7 mg/L	0.24	235.7 mg/L	0.24	0.10%
QC value within limits for Mg 279.077 Recovery = 94.28%							
Mn 257.610†	5750.7	0.0036 mg/L	0.00005	0.0036 mg/L	0.00005	1.51%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	228.7	0.0139 mg/L	0.00127	0.0139 mg/L	0.00127	9.14%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592	-1006.9	-0.1780 mg/L	0.00517	-0.1780 mg/L	0.00517	2.91%
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	41.3	-0.0015 mg/L	0.00029	-0.0015 mg/L	0.00029	19.61%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-143.3	-0.0826 mg/L	0.00517	-0.0826 mg/L	0.00517	6.26%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-566.8	-0.0164 mg/L	0.00040	-0.0164 mg/L	0.00040	2.46%
QC value less than the lower limit for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	1.7	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	101.83%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	32.9	0.0373 mg/L	0.00196	0.0373 mg/L	0.00196	5.25%
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	-134.8	-0.0385 mg/L	0.00139	-0.0385 mg/L	0.00139	3.61%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 407.771†	20165.4	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	1.91%
QC value within limits for Sr 407.771 Recovery = Not calculated							
Ti 337.279†	4538.2	0.0059 mg/L	0.00015	0.0059 mg/L	0.00015	2.54%
QC value within limits for Ti 337.279 Recovery = Not calculated							
Tl 190.801†	89.8	0.0874 mg/L	0.01136	0.0874 mg/L	0.01136	13.00%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated							
V 292.402†	3064.4	-0.0004 mg/L	0.00008	-0.0004 mg/L	0.00008	19.79%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	2147.9	0.0167 mg/L	0.00034	0.0167 mg/L	0.00034	2.01%
QC value within limits for Zn 213.857 Recovery = Not calculated							

QC Failed. Continue with analysis.

Sequence No.: 12
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 159
Date Collected: 6/26/2006 4:02:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	X 766.490†	827.9	236.0	0.2331	mg/L	0.2331	mg/L	16:03:54
1	Li 670.784†	130.8	52.8	-0.0014	mg/L	-0.0014	mg/L	16:03:54
1	Na 589.592	6161.6	-1031.8	-0.1811	mg/L	-0.1811	mg/L	16:03:54
1	Y 371.029	3323737.7	3323737.7	0.905	mg/L			16:04:20
1	Ag 328.068†	131267.9	146424.9	0.4943	mg/L	0.4943	mg/L	16:04:26
1	Al 237.313†	2139607.6	2363970.2	249.7	mg/L	249.7	mg/L	16:04:20
1	As 188.979†	6.3	2.3	0.0003	mg/L	0.0003	mg/L	16:04:46
1	B 182.528†	8.1	13.0	0.0274	mg/L	0.0274	mg/L	16:04:46
1	Ba 233.527†	26726.8	29695.6	0.2316	mg/L	0.2316	mg/L	16:04:46
1	Be 313.107†	1121231.6	1236390.9	0.2420	mg/L	0.2420	mg/L	16:04:20
1	Ca 315.886†	33788090.3	37329242.8	241.1	mg/L	241.1	mg/L	16:04:12
1	Cd 228.802†	17015.2	18672.2	0.4390	mg/L	0.4390	mg/L	16:04:46
1	Co 228.616†	7409.7	8354.7	0.2084	mg/L	0.2084	mg/L	16:04:46
1	Cr 267.716†	34800.6	37287.0	0.2294	mg/L	0.2294	mg/L	16:04:26
1	Cu 324.752†	57239.9	60458.2	0.2306	mg/L	0.2306	mg/L	16:04:26
1	Fe 234.349†	4536772.3	5011119.1	91.23	mg/L	91.23	mg/L	16:04:20
1	Fe 238.204†	9830789.4	10860344.5	87.57	mg/L	87.57	mg/L	16:04:20
1	Mg 279.077†	5765223.8	6369097.4	235.8	mg/L	235.8	mg/L	16:04:20
1	Mn 257.610†	202891.5	222194.6	0.2300	mg/L	0.2300	mg/L	16:04:26
1	Mo 202.031†	242.4	244.6	0.0149	mg/L	0.0149	mg/L	16:04:46
1	Ni 231.604†	13175.5	14509.7	0.4203	mg/L	0.4203	mg/L	16:04:46
1	P 214.914†	-81.0	-109.6	-0.0599	mg/L	-0.0599	mg/L	16:04:46
1	Pb 220.353†	3149.1	3639.5	0.4346	mg/L	0.4346	mg/L	16:04:46
1	Sb 206.836†	-7.8	-9.3	-0.0088	mg/L	-0.0088	mg/L	16:04:46
1	Se 196.026†	28.5	36.9	0.0418	mg/L	0.0418	mg/L	16:04:46
1	Sn 189.927†	30.1	-131.8	-0.0378	mg/L	-0.0378	mg/L	16:04:46

1	Sr 407.771†	24103.5	19227.4	0.0006 mg/L	0.0006 mg/L	16:04:26
1	Ti 337.279†	1739.3	4396.2	0.0057 mg/L	0.0057 mg/L	16:04:26
1	Tl 190.801†	76.9	90.9	0.0899 mg/L	0.0899 mg/L	16:04:46
1	V 292.402†	57984.7	65789.1	0.2289 mg/L	0.2289 mg/L	16:04:26
1	Zn 213.857†	35961.5	39089.7	0.4618 mg/L	0.4618 mg/L	16:04:46
2	K 766.490†	830.0	240.1	0.2356 mg/L	0.2356 mg/L	16:04:00
2	Li 670.784†	201.1	131.0	0.0009 mg/L	0.0009 mg/L	16:04:00
2	Na 589.592	6252.3	-941.1	-0.1698 mg/L	-0.1698 mg/L	16:04:00
2	Y 371.029	3317462.6	3317462.6	0.903 mg/L		16:05:03
2	Ag 328.068†	132688.3	148271.5	0.5005 mg/L	0.5005 mg/L	16:05:09
2	Al 237.313†	2138339.9	2367038.5	250.0 mg/L	250.0 mg/L	16:05:03
2	As 188.979†	11.8	8.5	0.0078 mg/L	0.0078 mg/L	16:05:29
2	B 182.528†	6.7	11.3	0.0241 mg/L	0.0241 mg/L	16:05:29
2	Ba 233.527†	26961.1	30010.8	0.2341 mg/L	0.2341 mg/L	16:05:29
2	Be 313.107†	1119306.1	1236602.7	0.2420 mg/L	0.2420 mg/L	16:05:03
2	Ca 315.886†	33800611.0	37413714.0	241.7 mg/L	241.7 mg/L	16:04:55
2	Cd 228.802†	17144.3	18850.6	0.4431 mg/L	0.4431 mg/L	16:05:29
2	Co 228.616†	7490.4	8459.5	0.2110 mg/L	0.2110 mg/L	16:05:29
2	Cr 267.716†	35068.9	37656.7	0.2317 mg/L	0.2317 mg/L	16:05:09
2	Cu 324.752†	57909.1	61318.5	0.2337 mg/L	0.2337 mg/L	16:05:09
2	Fe 234.349†	4540883.6	5025151.1	91.49 mg/L	91.49 mg/L	16:05:03
2	Fe 238.204†	9819244.7	10868110.1	87.63 mg/L	87.63 mg/L	16:05:03
2	Mg 279.077†	5752360.4	6366907.0	235.7 mg/L	235.7 mg/L	16:05:03
2	Mn 257.610†	204534.7	224437.5	0.2324 mg/L	0.2324 mg/L	16:05:09
2	Mo 202.031†	201.4	199.7	0.0120 mg/L	0.0120 mg/L	16:05:29
2	Ni 231.604†	13206.7	14571.7	0.4221 mg/L	0.4221 mg/L	16:05:29
2	P 214.914†	-72.6	-100.5	-0.0538 mg/L	-0.0538 mg/L	16:05:29
2	Pb 220.353†	3145.2	3641.7	0.4349 mg/L	0.4349 mg/L	16:05:29
2	Sb 206.836†	-0.7	-1.4	-0.0052 mg/L	-0.0052 mg/L	16:05:29
2	Se 196.026†	18.4	25.8	0.0291 mg/L	0.0291 mg/L	16:05:29
2	Sn 189.927†	38.3	-122.7	-0.0355 mg/L	-0.0355 mg/L	16:05:29
2	Sr 407.771†	24167.7	19348.9	0.0006 mg/L	0.0006 mg/L	16:05:09
2	Ti 337.279†	1815.1	4483.8	0.0058 mg/L	0.0058 mg/L	16:05:09
2	Tl 190.801†	73.3	87.1	0.0870 mg/L	0.0870 mg/L	16:05:29
2	V 292.402†	58393.9	66363.2	0.2309 mg/L	0.2309 mg/L	16:05:09
2	Zn 213.857†	36277.7	39514.8	0.4670 mg/L	0.4670 mg/L	16:05:29

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3320600.1	0.904	mg/L	0.0012				0.13%
Ag 328.068†	147348.2	0.4974	mg/L	0.00438	0.4974	mg/L	0.00438	0.88%
QC value within limits for Ag 328.068 Recovery = 99.48%								
Al 237.313†	2365504.3	249.8	mg/L	0.23	249.8	mg/L	0.23	0.09%
QC value within limits for Al 237.313 Recovery = 99.93%								
As 188.979†	5.4	0.0040	mg/L	0.00526	0.0040	mg/L	0.00526	130.08%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	12.1	0.0258	mg/L	0.00233	0.0258	mg/L	0.00233	9.04%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	29853.2	0.2329	mg/L	0.00175	0.2329	mg/L	0.00175	0.75%
QC value within limits for Ba 233.527 Recovery = 93.14%								
Be 313.107†	1236496.8	0.2420	mg/L	0.00003	0.2420	mg/L	0.00003	0.01%
QC value within limits for Be 313.107 Recovery = 96.81%								
Ca 315.886†	37371478.4	241.4	mg/L	0.39	241.4	mg/L	0.39	0.16%
QC value within limits for Ca 315.886 Recovery = 96.56%								
Cd 228.802†	18761.4	0.4411	mg/L	0.00294	0.4411	mg/L	0.00294	0.67%
QC value within limits for Cd 228.802 Recovery = 88.21%								
Co 228.616†	8407.1	0.2097	mg/L	0.00186	0.2097	mg/L	0.00186	0.89%
QC value within limits for Co 228.616 Recovery = 83.89%								
Cr 267.716†	37471.9	0.2306	mg/L	0.00159	0.2306	mg/L	0.00159	0.69%
QC value within limits for Cr 267.716 Recovery = 92.23%								
Cu 324.752†	60888.4	0.2322	mg/L	0.00220	0.2322	mg/L	0.00220	0.95%
QC value within limits for Cu 324.752 Recovery = 92.87%								
Fe 234.349†	5018135.1	91.36	mg/L	0.181	91.36	mg/L	0.181	0.20%
QC value within limits for Fe 234.349 Recovery = 91.36%								
Fe 238.204†	10864227.3	87.60	mg/L	0.044	87.60	mg/L	0.044	0.05%
QC value within limits for Fe 238.204 Recovery = 87.60%								
K 766.490†	238.1	0.2343	mg/L	0.00172	0.2343	mg/L	0.00172	0.73%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	91.9	-0.0003	mg/L	0.00165	-0.0003	mg/L	0.00165	587.35%
QC value within limits for Li 670.784 Recovery = Not calculated								

Mg 279.077†	6368002.2	235.7 mg/L	0.06	235.7 mg/L	0.06	0.02%
QC value within limits for Mg 279.077 Recovery = 94.29%						
Mn 257.610†	223316.1	0.2312 mg/L	0.00166	0.2312 mg/L	0.00166	0.72%
QC value within limits for Mn 257.610 Recovery = 92.47%						
Mo 202.031†	222.1	0.0135 mg/L	0.00205	0.0135 mg/L	0.00205	15.20%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	-986.4	-0.1754 mg/L	0.00798	-0.1754 mg/L	0.00798	4.55%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	14540.7	0.4212 mg/L	0.00128	0.4212 mg/L	0.00128	0.30%
QC value within limits for Ni 231.604 Recovery = 84.24%						
P 214.914†	-105.0	-0.0569 mg/L	0.00433	-0.0569 mg/L	0.00433	7.62%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	3640.6	0.4348 mg/L	0.00020	0.4348 mg/L	0.00020	0.05%
QC value within limits for Pb 220.353 Recovery = 86.96%						
Sb 206.836†	-5.3	-0.0070 mg/L	0.00259	-0.0070 mg/L	0.00259	36.95%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	31.4	0.0354 mg/L	0.00903	0.0354 mg/L	0.00903	25.46%
QC value greater than the upper limit for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-127.3	-0.0366 mg/L	0.00162	-0.0366 mg/L	0.00162	4.43%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	19288.1	0.0006 mg/L	0.00000	0.0006 mg/L	0.00000	0.63%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	4440.0	0.0057 mg/L	0.00008	0.0057 mg/L	0.00008	1.37%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	89.0	0.0885 mg/L	0.00206	0.0885 mg/L	0.00206	2.33%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated						
V 292.402†	66076.2	0.2299 mg/L	0.00143	0.2299 mg/L	0.00143	0.62%
QC value within limits for V 292.402 Recovery = 91.94%						
Zn 213.857†	39302.3	0.4644 mg/L	0.00362	0.4644 mg/L	0.00362	0.78%
QC value within limits for Zn 213.857 Recovery = 92.88%						

QC Failed. Continue with analysis.

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Sequence No.: 13
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/26/2006 4:07:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	40990.7	40878.7	24.73	mg/L	24.73	mg/L	16:08:46
1	Li 670.784†	16799.1	16939.7	0.5032	mg/L	0.5032	mg/L	16:08:46
1	Na 589.592	208869.1	201675.7	25.04	mg/L	25.04	mg/L	16:08:46
1	Y 371.029	3622126.9	3622126.9	0.986	mg/L			16:09:01
1	Ag 328.068†	72028.2	74418.7	0.2499	mg/L	0.2499	mg/L	16:09:06
1	Al 237.313†	23168.8	23533.5	2.480	mg/L	2.480	mg/L	16:09:06
1	As 188.979†	414.2	415.3	0.4998	mg/L	0.4998	mg/L	16:09:26
1	B 182.528†	235.6	242.9	0.4906	mg/L	0.4906	mg/L	16:09:26
1	Ba 233.527†	63004.9	64042.7	0.5010	mg/L	0.5010	mg/L	16:09:06
1	Be 313.107†	254725.2	255855.1	0.0495	mg/L	0.0495	mg/L	16:09:01
1	Ca 315.886†	769946.3	779372.0	5.037	mg/L	5.037	mg/L	16:09:01
1	Cd 228.802†	10708.8	10729.9	0.2508	mg/L	0.2508	mg/L	16:09:26
1	Co 228.616†	19512.1	19949.9	0.4979	mg/L	0.4979	mg/L	16:09:06
1	Cr 267.716†	83042.7	83028.6	0.5006	mg/L	0.5006	mg/L	16:09:06
1	Cu 324.752†	139912.1	139063.5	0.4952	mg/L	0.4952	mg/L	16:09:06
1	Fe 234.349†	138491.5	139113.9	2.519	mg/L	2.519	mg/L	16:09:06
1	Fe 238.204†	310274.9	313451.5	2.519	mg/L	2.519	mg/L	16:09:06
1	Mg 279.077†	135738.7	137058.1	5.058	mg/L	5.058	mg/L	16:09:06
1	Mn 257.610†	478513.9	483161.0	0.5029	mg/L	0.5029	mg/L	16:09:01
1	Mo 202.031†	7695.1	7778.2	0.5003	mg/L	0.5003	mg/L	16:09:26
1	Ni 231.604†	17286.1	17477.9	0.5072	mg/L	0.5072	mg/L	16:09:06
1	P 214.914†	7329.6	7410.8	4.996	mg/L	4.996	mg/L	16:09:26
1	Pb 220.353†	4496.3	4718.7	0.5062	mg/L	0.5062	mg/L	16:09:26
1	Sb 206.836†	1050.8	1064.6	0.4872	mg/L	0.4872	mg/L	16:09:26
1	Se 196.026†	851.3	868.5	0.9987	mg/L	0.9987	mg/L	16:09:26
1	Sn 189.927†	2158.8	2023.5	0.4977	mg/L	0.4977	mg/L	16:09:26
1	Sr 407.771†	1171628.9	1180423.0	0.0502	mg/L	0.0502	mg/L	16:09:01
1	Ti 337.279†	384575.2	392366.3	0.4971	mg/L	0.4971	mg/L	16:09:06
1	Tl 190.801†	580.2	594.2	0.4842	mg/L	0.4842	mg/L	16:09:26

1	V 292.402†	132716.0	136275.9	0.5056 mg/L	0.5056 mg/L	16:09:06
1	Zn 213.857†	41625.3	41558.7	0.4998 mg/L	0.4998 mg/L	16:09:06
2	K 766.490†	41051.1	40832.6	24.70 mg/L	24.70 mg/L	16:08:51
2	Li 670.784†	16846.6	16943.8	0.5034 mg/L	0.5034 mg/L	16:08:51
2	Na 589.592	208874.4	201681.0	25.04 mg/L	25.04 mg/L	16:08:51
2	Y 371.029	3631494.1	3631494.1	0.989 mg/L		16:09:33
2	Ag 328.068†	72208.8	74413.0	0.2499 mg/L	0.2499 mg/L	16:09:39
2	Al 237.313†	23394.9	23701.6	2.498 mg/L	2.498 mg/L	16:09:39
2	As 188.979†	411.4	411.4	0.4951 mg/L	0.4951 mg/L	16:09:59
2	B 182.528†	237.8	244.4	0.4937 mg/L	0.4937 mg/L	16:09:59
2	Ba 233.527†	63705.6	64586.4	0.5052 mg/L	0.5052 mg/L	16:09:39
2	Be 313.107†	254586.2	255048.5	0.0494 mg/L	0.0494 mg/L	16:09:33
2	Ca 315.886†	771547.2	778977.4	5.035 mg/L	5.035 mg/L	16:09:33
2	Cd 228.802†	10719.2	10712.4	0.2505 mg/L	0.2505 mg/L	16:09:59
2	Co 228.616†	19670.1	20058.7	0.5007 mg/L	0.5007 mg/L	16:09:39
2	Cr 267.716†	83648.0	83423.5	0.5030 mg/L	0.5030 mg/L	16:09:39
2	Cu 324.752†	140083.9	138871.3	0.4945 mg/L	0.4945 mg/L	16:09:39
2	Fe 234.349†	139567.3	139839.6	2.532 mg/L	2.532 mg/L	16:09:39
2	Fe 238.204†	313093.3	315490.0	2.536 mg/L	2.536 mg/L	16:09:39
2	Mg 279.077†	137049.6	138028.7	5.094 mg/L	5.094 mg/L	16:09:39
2	Mn 257.610†	478478.3	481873.6	0.5016 mg/L	0.5016 mg/L	16:09:33
2	Mo 202.031†	7753.3	7817.0	0.5028 mg/L	0.5028 mg/L	16:09:59
2	Ni 231.604†	17395.7	17543.5	0.5091 mg/L	0.5091 mg/L	16:09:39
2	P 214.914†	7345.5	7407.7	4.994 mg/L	4.994 mg/L	16:09:59
2	Pb 220.353†	4532.0	4743.0	0.5089 mg/L	0.5089 mg/L	16:09:59
2	Sb 206.836†	1060.1	1071.4	0.4903 mg/L	0.4903 mg/L	16:09:59
2	Se 196.026†	849.3	864.3	0.9939 mg/L	0.9939 mg/L	16:09:59
2	Sn 189.927†	2153.5	2012.5	0.4950 mg/L	0.4950 mg/L	16:09:59
2	Sr 407.771†	1172026.9	1177761.5	0.0501 mg/L	0.0501 mg/L	16:09:33
2	Ti 337.279†	387381.3	394198.2	0.4995 mg/L	0.4995 mg/L	16:09:39
2	Tl 190.801†	584.3	596.8	0.4862 mg/L	0.4862 mg/L	16:09:59
2	V 292.402†	133567.1	136789.5	0.5075 mg/L	0.5075 mg/L	16:09:39
2	Zn 213.857†	42015.2	41844.1	0.5033 mg/L	0.5033 mg/L	16:09:39

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3626810.5	0.988	mg/L	0.0018				0.18%
Ag 328.068†	74415.9	0.2499	mg/L	0.00001	0.2499	mg/L	0.00001	0.00%
QC value within limits for Ag 328.068 Recovery = 99.96%								
Al 237.313†	23617.5	2.489	mg/L	0.0125	2.489	mg/L	0.0125	0.50%
QC value within limits for Al 237.313 Recovery = 99.56%								
As 188.979†	413.4	0.4975	mg/L	0.00337	0.4975	mg/L	0.00337	0.68%
QC value within limits for As 188.979 Recovery = 99.49%								
B 182.528†	243.6	0.4921	mg/L	0.00216	0.4921	mg/L	0.00216	0.44%
QC value within limits for B 182.528 Recovery = 98.43%								
Ba 233.527†	64314.6	0.5031	mg/L	0.00301	0.5031	mg/L	0.00301	0.60%
QC value within limits for Ba 233.527 Recovery = 100.62%								
Be 313.107†	255451.8	0.0494	mg/L	0.00011	0.0494	mg/L	0.00011	0.23%
QC value within limits for Be 313.107 Recovery = 98.89%								
Ca 315.886†	779174.7	5.036	mg/L	0.0018	5.036	mg/L	0.0018	0.04%
QC value within limits for Ca 315.886 Recovery = 100.72%								
Cd 228.802†	10721.2	0.2506	mg/L	0.00026	0.2506	mg/L	0.00026	0.10%
QC value within limits for Cd 228.802 Recovery = 100.26%								
Co 228.616†	20004.3	0.4993	mg/L	0.00192	0.4993	mg/L	0.00192	0.39%
QC value within limits for Co 228.616 Recovery = 99.86%								
Cr 267.716†	83226.0	0.5018	mg/L	0.00169	0.5018	mg/L	0.00169	0.34%
QC value within limits for Cr 267.716 Recovery = 100.37%								
Cu 324.752†	138967.4	0.4949	mg/L	0.00048	0.4949	mg/L	0.00048	0.10%
QC value within limits for Cu 324.752 Recovery = 98.97%								
Fe 234.349†	139476.7	2.525	mg/L	0.0093	2.525	mg/L	0.0093	0.37%
QC value within limits for Fe 234.349 Recovery = 101.02%								
Fe 238.204†	314470.8	2.528	mg/L	0.0116	2.528	mg/L	0.0116	0.46%
QC value within limits for Fe 238.204 Recovery = 101.10%								
K 766.490†	40855.7	24.71	mg/L	0.020	24.71	mg/L	0.020	0.08%
QC value within limits for K 766.490 Recovery = 98.86%								
Li 670.784†	16941.8	0.5033	mg/L	0.00009	0.5033	mg/L	0.00009	0.02%
QC value within limits for Li 670.784 Recovery = 100.66%								
Mg 279.077†	137543.4	5.076	mg/L	0.0254	5.076	mg/L	0.0254	0.50%
QC value within limits for Mg 279.077 Recovery = 101.53%								
Mn 257.610†	482517.3	0.5023	mg/L	0.00095	0.5023	mg/L	0.00095	0.19%

	QC value within limits for Mn 257.610 Recovery = 100.46%					
Mo 202.031†	7797.6	0.5015 mg/L	0.00177	0.5015 mg/L	0.00177	0.35%
	QC value within limits for Mo 202.031 Recovery = 100.31%					
Na 589.592	201678.4	25.04 mg/L	0.000	25.04 mg/L	0.000	0.00%
	QC value within limits for Na 589.592 Recovery = 100.16%					
Ni 231.604†	17510.7	0.5082 mg/L	0.00135	0.5082 mg/L	0.00135	0.27%
	QC value within limits for Ni 231.604 Recovery = 101.63%					
P 214.914†	7409.2	4.995 mg/L	0.0015	4.995 mg/L	0.0015	0.03%
	QC value within limits for P 214.914 Recovery = 99.89%					
Pb 220.353†	4730.8	0.5076 mg/L	0.00185	0.5076 mg/L	0.00185	0.36%
	QC value within limits for Pb 220.353 Recovery = 101.51%					
Sb 206.836†	1068.0	0.4887 mg/L	0.00218	0.4887 mg/L	0.00218	0.45%
	QC value within limits for Sb 206.836 Recovery = 97.75%					
Se 196.026†	866.4	0.9963 mg/L	0.00342	0.9963 mg/L	0.00342	0.34%
	QC value within limits for Se 196.026 Recovery = 99.63%					
Sn 189.927†	2018.0	0.4963 mg/L	0.00194	0.4963 mg/L	0.00194	0.39%
	QC value within limits for Sn 189.927 Recovery = 99.27%					
Sr 407.771†	1179092.2	0.0501 mg/L	0.00008	0.0501 mg/L	0.00008	0.16%
	QC value within limits for Sr 407.771 Recovery = 100.24%					
Ti 337.279†	393282.3	0.4983 mg/L	0.00164	0.4983 mg/L	0.00164	0.33%
	QC value within limits for Ti 337.279 Recovery = 99.66%					
Tl 190.801†	595.5	0.4852 mg/L	0.00141	0.4852 mg/L	0.00141	0.29%
	QC value within limits for Tl 190.801 Recovery = 97.03%					
V 292.402†	136532.7	0.5065 mg/L	0.00135	0.5065 mg/L	0.00135	0.27%
	QC value within limits for V 292.402 Recovery = 101.30%					
Zn 213.857†	41701.4	0.5016 mg/L	0.00244	0.5016 mg/L	0.00244	0.49%
	QC value within limits for Zn 213.857 Recovery = 100.31%					

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/26/2006 4:11:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	725.1	52.4	0.1225	mg/L	0.1225	mg/L	16:13:16
1	Li 670.784†	165.8	75.6	-0.0008	mg/L	-0.0008	mg/L	16:13:16
1	Na 589.592	4418.0	-2775.4	-0.3980	mg/L	-0.3980	mg/L	16:13:16
1	Y 371.029	3642065.9	3642065.9	0.992	mg/L			16:13:30
1	Ag 328.068†	-1351.3	32.3	0.0003	mg/L	0.0003	mg/L	16:13:35
1	Al 237.313†	-47.8	-3.7	-0.0006	mg/L	-0.0006	mg/L	16:13:55
1	As 188.979†	6.1	1.6	-0.0003	mg/L	-0.0003	mg/L	16:13:55
1	B 182.528†	1.6	5.5	0.0125	mg/L	0.0125	mg/L	16:13:55
1	Ba 233.527†	-170.1	-4.7	-0.0010	mg/L	-0.0010	mg/L	16:13:55
1	Be 313.107†	2439.6	68.2	0.0000	mg/L	0.0000	mg/L	16:13:35
1	Ca 315.886†	1847.4	644.3	0.0044	mg/L	0.0044	mg/L	16:13:35
1	Cd 228.802†	124.9	-1.0	-0.0005	mg/L	-0.0005	mg/L	16:13:55
1	Co 228.616†	-175.3	-8.6	-0.0011	mg/L	-0.0011	mg/L	16:13:55
1	Cr 267.716†	1188.5	36.2	-0.0013	mg/L	-0.0013	mg/L	16:13:35
1	Cu 324.752†	2663.0	-97.8	-0.0017	mg/L	-0.0017	mg/L	16:13:35
1	Fe 234.349†	1414.1	133.6	-0.0061	mg/L	-0.0061	mg/L	16:13:55
1	Fe 238.204†	1396.2	294.9	-0.0065	mg/L	-0.0065	mg/L	16:13:55
1	Mg 279.077†	556.3	3.8	-0.0203	mg/L	-0.0203	mg/L	16:13:35
1	Mn 257.610†	1990.7	39.0	-0.0023	mg/L	-0.0023	mg/L	16:13:35
1	Mo 202.031†	47.2	24.3	0.0007	mg/L	0.0007	mg/L	16:13:55
1	Ni 231.604†	44.2	-2.7	-0.0028	mg/L	-0.0028	mg/L	16:13:55
1	P 214.914†	27.8	8.0	0.0191	mg/L	0.0191	mg/L	16:13:55
1	Pb 220.353†	-164.5	-5.6	-0.0017	mg/L	-0.0017	mg/L	16:13:55
1	Sb 206.836†	5.7	5.1	0.0015	mg/L	0.0015	mg/L	16:13:55
1	Se 196.026†	-7.4	-2.1	-0.0030	mg/L	-0.0030	mg/L	16:13:55
1	Sn 189.927†	134.4	-29.6	-0.0159	mg/L	-0.0159	mg/L	16:13:55
1	Sr 407.771†	7510.5	169.6	-0.0002	mg/L	-0.0002	mg/L	16:13:30
1	Ti 337.279†	-2384.1	70.7	0.0002	mg/L	0.0002	mg/L	16:13:35
1	Tl 190.801†	17.7	23.8	0.0359	mg/L	0.0359	mg/L	16:13:55
1	V 292.402†	-1645.4	66.2	0.0003	mg/L	0.0003	mg/L	16:13:35
1	Zn 213.857†	673.4	36.9	-0.0007	mg/L	-0.0007	mg/L	16:13:55
2	K 766.490†	632.2	-37.5	0.0682	mg/L	0.0682	mg/L	16:13:22

2	Li 670.784†	144.1	54.4	-0.0014 mg/L	-0.0014 mg/L	16:13:22
2	Na 589.592	4351.8	-2841.6	-0.4062 mg/L	-0.4062 mg/L	16:13:22
2	Y 371.029	3621312.7	3621312.7	0.986 mg/L		16:14:01
2	Ag 328.068†	-1429.7	-54.9	0.0001 mg/L	0.0001 mg/L	16:14:06
2	Al 237.313†	-49.4	-5.6	-0.0008 mg/L	-0.0008 mg/L	16:14:27
2	As 188.979†	6.9	2.4	0.0007 mg/L	0.0007 mg/L	16:14:27
2	B 182.528†	-1.8	2.1	0.0055 mg/L	0.0055 mg/L	16:14:27
2	Ba 233.527†	-156.7	7.8	-0.0009 mg/L	-0.0009 mg/L	16:14:27
2	Be 313.107†	2382.7	24.7	0.0000 mg/L	0.0000 mg/L	16:14:06
2	Ca 315.886†	1676.0	481.2	0.0033 mg/L	0.0033 mg/L	16:14:06
2	Cd 228.802†	124.1	-1.1	-0.0005 mg/L	-0.0005 mg/L	16:14:27
2	Co 228.616†	-173.8	-8.2	-0.0011 mg/L	-0.0011 mg/L	16:14:27
2	Cr 267.716†	1235.1	90.3	-0.0009 mg/L	-0.0009 mg/L	16:14:06
2	Cu 324.752†	2723.1	-21.5	-0.0015 mg/L	-0.0015 mg/L	16:14:06
2	Fe 234.349†	1415.7	143.5	-0.0059 mg/L	-0.0059 mg/L	16:14:27
2	Fe 238.204†	1404.1	311.0	-0.0064 mg/L	-0.0064 mg/L	16:14:27
2	Mg 279.077†	475.3	-75.1	-0.0232 mg/L	-0.0232 mg/L	16:14:06
2	Mn 257.610†	2044.5	105.0	-0.0023 mg/L	-0.0023 mg/L	16:14:06
2	Mo 202.031†	32.3	9.5	-0.0002 mg/L	-0.0002 mg/L	16:14:27
2	Ni 231.604†	41.7	-4.9	-0.0028 mg/L	-0.0028 mg/L	16:14:27
2	P 214.914†	24.4	4.7	0.0169 mg/L	0.0169 mg/L	16:14:27
2	Pb 220.353†	-174.5	-16.8	-0.0028 mg/L	-0.0028 mg/L	16:14:27
2	Sb 206.836†	5.7	5.1	0.0015 mg/L	0.0015 mg/L	16:14:27
2	Se 196.026†	-5.0	0.4	-0.0002 mg/L	-0.0002 mg/L	16:14:27
2	Sn 189.927†	136.1	-27.1	-0.0153 mg/L	-0.0153 mg/L	16:14:27
2	Sr 407.771†	7473.0	174.9	-0.0002 mg/L	-0.0002 mg/L	16:14:01
2	Ti 337.279†	-2328.2	113.7	0.0003 mg/L	0.0003 mg/L	16:14:06
2	Tl 190.801†	21.5	27.8	0.0389 mg/L	0.0389 mg/L	16:14:27
2	V 292.402†	-1667.8	34.0	0.0001 mg/L	0.0001 mg/L	16:14:06
2	Zn 213.857†	660.2	27.4	-0.0008 mg/L	-0.0008 mg/L	16:14:27

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3631689.3	0.989	mg/L	0.0040				0.40%
Ag 328.068†	-11.3	0.0002	mg/L	0.00021	0.0002	mg/L	0.00021	102.25%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	-4.7	-0.0007	mg/L	0.00014	-0.0007	mg/L	0.00014	21.74%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	2.0	0.0002	mg/L	0.00069	0.0002	mg/L	0.00069	346.61%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	3.8	0.0090	mg/L	0.00492	0.0090	mg/L	0.00492	54.58%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	1.5	-0.0010	mg/L	0.00007	-0.0010	mg/L	0.00007	6.95%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	46.4	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	36.71%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	562.7	0.0038	mg/L	0.00075	0.0038	mg/L	0.00075	19.43%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	-1.0	-0.0005	mg/L	0.00001	-0.0005	mg/L	0.00001	1.12%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-8.4	-0.0011	mg/L	0.00001	-0.0011	mg/L	0.00001	0.74%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	63.3	-0.0011	mg/L	0.00023	-0.0011	mg/L	0.00023	20.95%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-59.6	-0.0016	mg/L	0.00019	-0.0016	mg/L	0.00019	12.10%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	138.5	-0.0060	mg/L	0.00013	-0.0060	mg/L	0.00013	2.11%
QC value within limits for Fe 234.349 Recovery = Not calculated								
Fe 238.204†	302.9	-0.0065	mg/L	0.00009	-0.0065	mg/L	0.00009	1.42%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	7.4	0.0953	mg/L	0.03835	0.0953	mg/L	0.03835	40.22%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated								
Li 670.784†	65.0	-0.0011	mg/L	0.00045	-0.0011	mg/L	0.00045	41.12%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	-35.6	-0.0217	mg/L	0.00206	-0.0217	mg/L	0.00206	9.51%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	72.0	-0.0023	mg/L	0.00005	-0.0023	mg/L	0.00005	2.11%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	16.9	0.0002	mg/L	0.00068	0.0002	mg/L	0.00068	274.62%
QC value within limits for Mo 202.031 Recovery = Not calculated								

Na 589.592	-2808.5	-0.4021 mg/L	0.00583	-0.4021 mg/L	0.00583	1.45%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-3.8	-0.0028 mg/L	0.00005	-0.0028 mg/L	0.00005	1.67%
QC value less than the lower limit for Ni 231.604 Recovery = Not calculated						
P 214.914†	6.3	0.0180 mg/L	0.00155	0.0180 mg/L	0.00155	8.62%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-11.2	-0.0022 mg/L	0.00085	-0.0022 mg/L	0.00085	37.61%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	5.1	0.0015 mg/L	0.00001	0.0015 mg/L	0.00001	0.33%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-0.9	-0.0016 mg/L	0.00197	-0.0016 mg/L	0.00197	122.05%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-28.3	-0.0156 mg/L	0.00043	-0.0156 mg/L	0.00043	2.78%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	172.2	-0.0002 mg/L	0.00000	-0.0002 mg/L	0.00000	0.07%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	92.2	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	16.57%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	25.8	0.0374 mg/L	0.00218	0.0374 mg/L	0.00218	5.83%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated						
V 292.402†	50.1	0.0002 mg/L	0.00009	0.0002 mg/L	0.00009	45.72%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	32.2	-0.0007 mg/L	0.00008	-0.0007 mg/L	0.00008	10.85%
QC value within limits for Zn 213.857 Recovery = Not calculated						

QC Failed. Continue with analysis.

Sequence No.: 15
Sample ID: BF62617-BLK1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 6/26/2006 4:16:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62617-BLK1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490†	704.3	30.4	0.1092	mg/L	0.1092	mg/L	16:17:37
1	Li 670.784†	138.6	47.9	-0.0016	mg/L	-0.0016	mg/L	16:17:37
1	Na 589.592	16734.5	9541.1	1.134	mg/L	1.134	mg/L	16:17:37
1	Y 371.029	3647206.8	3647206.8	0.993	mg/L			16:17:50
1	Ag 328.068†	-1794.3	-411.8	-0.0011	mg/L	-0.0011	mg/L	16:17:55
1	Al 237.313†	-30.1	14.2	0.0013	mg/L	0.0013	mg/L	16:18:16
1	As 188.979†	8.1	3.5	0.0021	mg/L	0.0021	mg/L	16:18:16
1	B 182.528†	-3.2	0.8	0.0028	mg/L	0.0028	mg/L	16:18:16
1	Ba 233.527†	-137.1	28.7	-0.0008	mg/L	-0.0008	mg/L	16:18:16
1	Be 313.107†	2309.5	-66.2	0.0000	mg/L	0.0000	mg/L	16:17:55
1	Ca 315.886†	6189.0	5013.0	0.0326	mg/L	0.0326	mg/L	16:17:55
1	Cd 228.802†	130.9	4.9	-0.0003	mg/L	-0.0003	mg/L	16:18:16
1	Co 228.616†	-174.5	-7.6	-0.0011	mg/L	-0.0011	mg/L	16:18:16
1	Cr 267.716†	2109.5	961.8	0.0043	mg/L	0.0043	mg/L	16:17:55
1	Cu 324.752†	3071.7	309.9	-0.0003	mg/L	-0.0003	mg/L	16:17:55
1	Fe 234.349†	2547.6	1272.9	0.0146	mg/L	0.0146	mg/L	16:17:55
1	Fe 238.204†	3891.3	2805.1	0.0137	mg/L	0.0137	mg/L	16:18:16
1	Mg 279.077†	708.0	155.8	-0.0146	mg/L	-0.0146	mg/L	16:17:55
1	Mn 257.610†	3113.2	1166.4	-0.0012	mg/L	-0.0012	mg/L	16:17:55
1	Mo 202.031†	39.0	16.0	0.0002	mg/L	0.0002	mg/L	16:18:16
1	Ni 231.604†	143.2	96.9	0.0001	mg/L	0.0001	mg/L	16:18:16
1	P 214.914†	1491.3	1481.4	1.010	mg/L	1.010	mg/L	16:18:16
1	Pb 220.353†	-147.3	11.9	0.0002	mg/L	0.0002	mg/L	16:18:16
1	Sb 206.836†	1.6	0.9	-0.0005	mg/L	-0.0005	mg/L	16:18:16
1	Se 196.026†	-5.0	0.4	-0.0002	mg/L	-0.0002	mg/L	16:18:16
1	Sn 189.927†	196.3	32.6	-0.0004	mg/L	-0.0004	mg/L	16:18:16
1	Sr 407.771†	7960.0	611.4	-0.0002	mg/L	-0.0002	mg/L	16:17:50
1	Ti 337.279†	-2218.2	241.2	0.0004	mg/L	0.0004	mg/L	16:17:55
1	Tl 190.801†	25.8	31.9	0.0422	mg/L	0.0422	mg/L	16:18:16
1	V 292.402†	-1721.8	-8.4	0.0000	mg/L	0.0000	mg/L	16:17:55
1	Zn 213.857†	1502.9	871.2	0.0094	mg/L	0.0094	mg/L	16:18:16
2	K 766.490†	702.1	28.9	0.1083	mg/L	0.1083	mg/L	16:17:42
2	Li 670.784†	107.2	16.3	-0.0025	mg/L	-0.0025	mg/L	16:17:42
2	Na 589.592	16769.5	9576.0	1.139	mg/L	1.139	mg/L	16:17:42
2	Y 371.029	3643788.2	3643788.2	0.992	mg/L			16:18:21

2	Ag 328.068†	-1845.0	-464.6	-0.0013 mg/L	-0.0013 mg/L	16:18:27
2	Al 237.313†	-12.2	32.1	0.0032 mg/L	0.0032 mg/L	16:18:47
2	As 188.979†	8.4	3.9	0.0026 mg/L	0.0026 mg/L	16:18:47
2	B 182.528†	-2.5	1.5	0.0043 mg/L	0.0043 mg/L	16:18:47
2	Ba 233.527†	-136.2	29.5	-0.0008 mg/L	-0.0008 mg/L	16:18:47
2	Be 313.107†	2508.6	136.6	0.0000 mg/L	0.0000 mg/L	16:18:27
2	Ca 315.886†	6226.1	5056.3	0.0329 mg/L	0.0329 mg/L	16:18:27
2	Cd 228.802†	150.7	25.0	0.0001 mg/L	0.0001 mg/L	16:18:47
2	Co 228.616†	-182.9	-16.3	-0.0013 mg/L	-0.0013 mg/L	16:18:47
2	Cr 267.716†	2183.7	1038.6	0.0048 mg/L	0.0048 mg/L	16:18:27
2	Cu 324.752†	2970.3	210.6	-0.0006 mg/L	-0.0006 mg/L	16:18:27
2	Fe 234.349†	2498.6	1225.9	0.0137 mg/L	0.0137 mg/L	16:18:27
2	Fe 238.204†	3860.1	2777.4	0.0135 mg/L	0.0135 mg/L	16:18:47
2	Mg 279.077†	748.3	197.0	-0.0131 mg/L	-0.0131 mg/L	16:18:27
2	Mn 257.610†	3079.4	1135.3	-0.0012 mg/L	-0.0012 mg/L	16:18:27
2	Mo 202.031†	50.9	28.1	0.0010 mg/L	0.0010 mg/L	16:18:47
2	Ni 231.604†	139.1	93.0	0.0000 mg/L	0.0000 mg/L	16:18:47
2	P 214.914†	1475.6	1467.0	0.9999 mg/L	0.9999 mg/L	16:18:47
2	Pb 220.353†	-150.2	8.8	-0.0001 mg/L	-0.0001 mg/L	16:18:47
2	Sb 206.836†	8.6	8.0	0.0028 mg/L	0.0028 mg/L	16:18:47
2	Se 196.026†	-9.1	-3.8	-0.0050 mg/L	-0.0050 mg/L	16:18:47
2	Sn 189.927†	192.2	28.6	-0.0013 mg/L	-0.0013 mg/L	16:18:47
2	Sr 407.771†	8055.5	715.2	-0.0002 mg/L	-0.0002 mg/L	16:18:21
2	Ti 337.279†	-2075.1	383.3	0.0006 mg/L	0.0006 mg/L	16:18:27
2	Tl 190.801†	16.7	22.8	0.0351 mg/L	0.0351 mg/L	16:18:47
2	V 292.402†	-1787.8	-76.5	-0.0003 mg/L	-0.0003 mg/L	16:18:27
2	Zn 213.857†	1500.7	870.3	0.0094 mg/L	0.0094 mg/L	16:18:47

Mean Data: BF62617-BLK1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3645497.5	0.993	mg/L	0.0007				0.07%
Ag 328.068†	-438.2	-0.0012	mg/L	0.00012	-0.0012	mg/L	0.00012	10.18%
Al 237.313†	23.1	0.0022	mg/L	0.00134	0.0022	mg/L	0.00134	61.06%
As 188.979†	3.7	0.0023	mg/L	0.00032	0.0023	mg/L	0.00032	13.86%
B 182.528†	1.1	0.0035	mg/L	0.00103	0.0035	mg/L	0.00103	28.96%
Ba 233.527†	29.1	-0.0008	mg/L	0.00000	-0.0008	mg/L	0.00000	0.63%
Be 313.107†	35.2	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	181.20%
Ca 315.886†	5034.6	0.0327	mg/L	0.00020	0.0327	mg/L	0.00020	0.60%
Cd 228.802†	14.9	-0.0001	mg/L	0.00033	-0.0001	mg/L	0.00033	334.98%
Co 228.616†	-11.9	-0.0012	mg/L	0.00015	-0.0012	mg/L	0.00015	13.07%
Cr 267.716†	1000.2	0.0046	mg/L	0.00033	0.0046	mg/L	0.00033	7.20%
Cu 324.752†	260.3	-0.0004	mg/L	0.00025	-0.0004	mg/L	0.00025	55.93%
Fe 234.349†	1249.4	0.0142	mg/L	0.00060	0.0142	mg/L	0.00060	4.27%
Fe 238.204†	2791.3	0.0136	mg/L	0.00016	0.0136	mg/L	0.00016	1.16%
K 766.490†	29.7	0.1087	mg/L	0.00066	0.1087	mg/L	0.00066	0.60%
Li 670.784†	32.1	-0.0021	mg/L	0.00067	-0.0021	mg/L	0.00067	32.26%
Mg 279.077†	176.4	-0.0139	mg/L	0.00108	-0.0139	mg/L	0.00108	7.79%
Mn 257.610†	1150.8	-0.0012	mg/L	0.00002	-0.0012	mg/L	0.00002	1.95%
Mo 202.031†	22.0	0.0006	mg/L	0.00055	0.0006	mg/L	0.00055	95.46%
Na 589.592	9558.6	1.137	mg/L	0.0031	1.137	mg/L	0.0031	0.27%
Ni 231.604†	95.0	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	93.69%
P 214.914†	1474.2	1.005	mg/L	0.0069	1.005	mg/L	0.0069	0.68%
Pb 220.353†	10.4	0.0001	mg/L	0.00023	0.0001	mg/L	0.00023	345.50%
Sb 206.836†	4.5	0.0011	mg/L	0.00233	0.0011	mg/L	0.00233	209.39%
Se 196.026†	-1.7	-0.0026	mg/L	0.00342	-0.0026	mg/L	0.00342	130.87%
Sn 189.927†	30.6	-0.0008	mg/L	0.00070	-0.0008	mg/L	0.00070	82.58%
Sr 407.771†	663.3	-0.0002	mg/L	0.00000	-0.0002	mg/L	0.00000	1.48%
Ti 337.279†	312.2	0.0005	mg/L	0.00013	0.0005	mg/L	0.00013	24.91%
Tl 190.801†	27.4	0.0386	mg/L	0.00501	0.0386	mg/L	0.00501	12.98%
V 292.402†	-42.5	-0.0001	mg/L	0.00017	-0.0001	mg/L	0.00017	125.82%
Zn 213.857†	870.7	0.0094	mg/L	0.00001	0.0094	mg/L	0.00001	0.07%

Sequence No.: 16
Sample ID: BF62617-BS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 6/26/2006 4:20:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62617-BS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	38729.7	39440.1	23.86	mg/L	23.86	mg/L	16:21:59
1	Li 670.784†	15731.1	16203.7	0.4812	mg/L	0.4812	mg/L	16:21:59
1	Na 589.592	194283.6	187090.1	23.23	mg/L	23.23	mg/L	16:21:59
1	Y 371.029	3545048.8	3545048.8	0.965	mg/L			16:22:14
1	Ag 328.068†	67982.3	71815.5	0.2412	mg/L	0.2412	mg/L	16:22:19
1	Al 237.313†	21586.1	22404.8	2.361	mg/L	2.361	mg/L	16:22:19
1	As 188.979†	364.2	372.6	0.4482	mg/L	0.4482	mg/L	16:22:39
1	B 182.528†	211.4	223.0	0.4505	mg/L	0.4505	mg/L	16:22:39
1	Ba 233.527†	59718.5	62027.3	0.4852	mg/L	0.4852	mg/L	16:22:19
1	Be 313.107†	239061.2	245244.2	0.0475	mg/L	0.0475	mg/L	16:22:14
1	Ca 315.886†	742692.3	768112.5	4.965	mg/L	4.965	mg/L	16:22:14
1	Cd 228.802†	9826.9	10052.4	0.2351	mg/L	0.2351	mg/L	16:22:39
1	Co 228.616†	18400.6	19228.7	0.4800	mg/L	0.4800	mg/L	16:22:19
1	Cr 267.716†	80463.8	82187.7	0.4956	mg/L	0.4956	mg/L	16:22:19
1	Cu 324.752†	135580.5	137660.6	0.4901	mg/L	0.4901	mg/L	16:22:19
1	Fe 234.349†	133652.5	137154.1	2.483	mg/L	2.483	mg/L	16:22:19
1	Fe 238.204†	300710.6	310383.5	2.495	mg/L	2.495	mg/L	16:22:19
1	Mg 279.077†	125310.2	129247.7	4.769	mg/L	4.769	mg/L	16:22:19
1	Mn 257.610†	457819.5	472272.2	0.4916	mg/L	0.4916	mg/L	16:22:14
1	Mo 202.031†	7446.9	7690.7	0.4947	mg/L	0.4947	mg/L	16:22:39
1	Ni 231.604†	16291.5	16828.6	0.4883	mg/L	0.4883	mg/L	16:22:19
1	P 214.914†	6557.0	6772.1	4.566	mg/L	4.566	mg/L	16:22:39
1	Pb 220.353†	4151.5	4460.6	0.4785	mg/L	0.4785	mg/L	16:22:39
1	Sb 206.836†	957.9	991.6	0.4531	mg/L	0.4531	mg/L	16:22:39
1	Se 196.026†	740.9	772.9	0.8888	mg/L	0.8888	mg/L	16:22:39
1	Sn 189.927†	2116.2	2027.1	0.4985	mg/L	0.4985	mg/L	16:22:39
1	Sr 407.771†	1128674.1	1161753.7	0.0494	mg/L	0.0494	mg/L	16:22:14
1	Ti 337.279†	316869.9	330709.8	0.4190	mg/L	0.4190	mg/L	16:22:19
1	Tl 190.801†	623.6	651.9	0.5294	mg/L	0.5294	mg/L	16:22:39
1	V 292.402†	127449.2	133745.7	0.4963	mg/L	0.4963	mg/L	16:22:19
1	Zn 213.857†	38853.8	39605.4	0.4763	mg/L	0.4763	mg/L	16:22:19
2	K 766.490†	38846.5	39490.2	23.89	mg/L	23.89	mg/L	16:22:04
2	Li 670.784†	15769.0	16214.2	0.4816	mg/L	0.4816	mg/L	16:22:04
2	Na 589.592	192902.4	185709.0	23.05	mg/L	23.05	mg/L	16:22:04
2	Y 371.029	3551305.4	3551305.4	0.967	mg/L			16:22:46
2	Ag 328.068†	67584.1	71279.6	0.2394	mg/L	0.2394	mg/L	16:22:52
2	Al 237.313†	21623.4	22404.0	2.361	mg/L	2.361	mg/L	16:22:52
2	As 188.979†	377.9	386.1	0.4646	mg/L	0.4646	mg/L	16:23:12
2	B 182.528†	209.8	220.9	0.4464	mg/L	0.4464	mg/L	16:23:12
2	Ba 233.527†	59515.8	61708.6	0.4827	mg/L	0.4827	mg/L	16:22:52
2	Be 313.107†	238807.6	244545.8	0.0474	mg/L	0.0474	mg/L	16:22:46
2	Ca 315.886†	745240.4	769391.9	4.973	mg/L	4.973	mg/L	16:22:46
2	Cd 228.802†	9908.1	10118.5	0.2366	mg/L	0.2366	mg/L	16:23:12
2	Co 228.616†	18389.8	19183.9	0.4789	mg/L	0.4789	mg/L	16:22:52
2	Cr 267.716†	80580.2	82161.3	0.4954	mg/L	0.4954	mg/L	16:22:52
2	Cu 324.752†	135608.8	137442.5	0.4893	mg/L	0.4893	mg/L	16:22:52
2	Fe 234.349†	133859.2	137124.0	2.483	mg/L	2.483	mg/L	16:22:52
2	Fe 238.204†	300233.5	309341.4	2.486	mg/L	2.486	mg/L	16:22:52
2	Mg 279.077†	125136.9	128839.8	4.754	mg/L	4.754	mg/L	16:22:52
2	Mn 257.610†	459121.2	472782.7	0.4921	mg/L	0.4921	mg/L	16:22:46
2	Mo 202.031†	7492.6	7724.5	0.4968	mg/L	0.4968	mg/L	16:23:12
2	Ni 231.604†	16352.9	16862.4	0.4893	mg/L	0.4893	mg/L	16:22:52
2	P 214.914†	6624.2	6829.6	4.605	mg/L	4.605	mg/L	16:23:12
2	Pb 220.353†	4128.1	4428.9	0.4751	mg/L	0.4751	mg/L	16:23:12
2	Sb 206.836†	963.8	995.9	0.4552	mg/L	0.4552	mg/L	16:23:12
2	Se 196.026†	751.5	782.4	0.8997	mg/L	0.8997	mg/L	16:23:12
2	Sn 189.927†	2154.5	2062.7	0.5074	mg/L	0.5074	mg/L	16:23:12
2	Sr 407.771†	1133673.6	1164863.7	0.0495	mg/L	0.0495	mg/L	16:22:46
2	Ti 337.279†	316442.0	329689.1	0.4177	mg/L	0.4177	mg/L	16:22:52
2	Tl 190.801†	637.0	664.7	0.5393	mg/L	0.5393	mg/L	16:23:12
2	V 292.402†	127483.6	133548.7	0.4956	mg/L	0.4956	mg/L	16:22:52
2	Zn 213.857†	38992.7	39678.1	0.4771	mg/L	0.4771	mg/L	16:22:52

Mean Data: BF62617-BS1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3548177.1	0.966	mg/L	0.0012				0.12%
Ag 328.068†	71547.6	0.2403	mg/L	0.00127	0.2403	mg/L	0.00127	0.53%

Al 237.313†	22404.4	2.361 mg/L	0.0001	2.361 mg/L	0.0001	0.00%
As 188.979†	379.4	0.4564 mg/L	0.01158	0.4564 mg/L	0.01158	2.54%
B 182.528†	222.0	0.4484 mg/L	0.00287	0.4484 mg/L	0.00287	0.64%
Ba 233.527†	61867.9	0.4839 mg/L	0.00177	0.4839 mg/L	0.00177	0.36%
Be 313.107†	244895.0	0.0475 mg/L	0.00010	0.0475 mg/L	0.00010	0.20%
Ca 315.886†	768752.2	4.969 mg/L	0.0058	4.969 mg/L	0.0058	0.12%
Cd 228.802†	10085.5	0.2359 mg/L	0.00103	0.2359 mg/L	0.00103	0.43%
Co 228.616†	19206.3	0.4795 mg/L	0.00079	0.4795 mg/L	0.00079	0.17%
Cr 267.716†	82174.5	0.4955 mg/L	0.00011	0.4955 mg/L	0.00011	0.02%
Cu 324.752†	137551.5	0.4897 mg/L	0.00055	0.4897 mg/L	0.00055	0.11%
Fe 234.349†	137139.0	2.483 mg/L	0.0004	2.483 mg/L	0.0004	0.02%
Fe 238.204†	309862.4	2.490 mg/L	0.0059	2.490 mg/L	0.0059	0.24%
K 766.490†	39465.2	23.88 mg/L	0.021	23.88 mg/L	0.021	0.09%
Li 670.784†	16208.9	0.4814 mg/L	0.00022	0.4814 mg/L	0.00022	0.05%
Mg 279.077†	129043.7	4.762 mg/L	0.0107	4.762 mg/L	0.0107	0.22%
Mn 257.610†	472527.5	0.4918 mg/L	0.00038	0.4918 mg/L	0.00038	0.08%
Mo 202.031†	7707.6	0.4957 mg/L	0.00154	0.4957 mg/L	0.00154	0.31%
Na 589.592	186399.6	23.14 mg/L	0.122	23.14 mg/L	0.122	0.53%
Ni 231.604†	16845.5	0.4888 mg/L	0.00070	0.4888 mg/L	0.00070	0.14%
P 214.914†	6800.9	4.586 mg/L	0.0273	4.586 mg/L	0.0273	0.60%
Pb 220.353†	4444.7	0.4768 mg/L	0.00240	0.4768 mg/L	0.00240	0.50%
Sb 206.836†	993.7	0.4541 mg/L	0.00144	0.4541 mg/L	0.00144	0.32%
Se 196.026†	777.7	0.8942 mg/L	0.00775	0.8942 mg/L	0.00775	0.87%
Sn 189.927†	2044.9	0.5030 mg/L	0.00630	0.5030 mg/L	0.00630	1.25%
Sr 407.771†	1163308.7	0.0494 mg/L	0.00009	0.0494 mg/L	0.00009	0.19%
Ti 337.279†	330199.4	0.4184 mg/L	0.00091	0.4184 mg/L	0.00091	0.22%
Tl 190.801†	658.3	0.5343 mg/L	0.00705	0.5343 mg/L	0.00705	1.32%
V 292.402†	133647.2	0.4960 mg/L	0.00048	0.4960 mg/L	0.00048	0.10%
Zn 213.857†	39641.7	0.4767 mg/L	0.00062	0.4767 mg/L	0.00062	0.13%

Sequence No.: 17
Sample ID: BF62617-BSD1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 6/26/2006 4:24:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62617-BSD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	K 766.490†	38603.4	39013.1	23.60	mg/L	23.60	mg/L	16:26:23
1	Li 670.784†	15845.3	16200.3	0.4811	mg/L	0.4811	mg/L	16:26:23
1	Na 589.592	196778.8	189585.4	23.54	mg/L	23.54	mg/L	16:26:23
1	Y 371.029	3571507.8	3571507.8	0.973	mg/L			16:26:38
1	Ag 328.068†	68012.9	71325.2	0.2396	mg/L	0.2396	mg/L	16:26:43
1	Al 237.313†	21534.0	22185.5	2.338	mg/L	2.338	mg/L	16:26:43
1	As 188.979†	373.3	379.2	0.4562	mg/L	0.4562	mg/L	16:27:03
1	B 182.528†	218.1	228.2	0.4611	mg/L	0.4611	mg/L	16:27:03
1	Ba 233.527†	59664.1	61513.0	0.4811	mg/L	0.4811	mg/L	16:26:43
1	Be 313.107†	241526.4	245944.4	0.0477	mg/L	0.0477	mg/L	16:26:38
1	Ca 315.886†	751037.2	770993.1	4.983	mg/L	4.983	mg/L	16:26:38
1	Cd 228.802†	9932.4	10085.5	0.2359	mg/L	0.2359	mg/L	16:27:03
1	Co 228.616†	18427.9	19115.5	0.4772	mg/L	0.4772	mg/L	16:26:43
1	Cr 267.716†	80506.9	81614.6	0.4921	mg/L	0.4921	mg/L	16:26:43
1	Cu 324.752†	135587.8	136627.7	0.4864	mg/L	0.4864	mg/L	16:26:43
1	Fe 234.349†	134226.0	136718.2	2.475	mg/L	2.475	mg/L	16:26:43
1	Fe 238.204†	301273.0	308654.1	2.481	mg/L	2.481	mg/L	16:26:43
1	Mg 279.077†	125383.8	128361.7	4.736	mg/L	4.736	mg/L	16:26:43
1	Mn 257.610†	464143.5	475261.1	0.4947	mg/L	0.4947	mg/L	16:26:38
1	Mo 202.031†	7533.9	7723.1	0.4967	mg/L	0.4967	mg/L	16:27:03
1	Ni 231.604†	16335.0	16748.4	0.4859	mg/L	0.4859	mg/L	16:26:43
1	P 214.914†	6640.5	6807.7	4.590	mg/L	4.590	mg/L	16:27:03
1	Pb 220.353†	4173.5	4451.3	0.4776	mg/L	0.4776	mg/L	16:27:03
1	Sb 206.836†	964.7	991.3	0.4530	mg/L	0.4530	mg/L	16:27:03
1	Se 196.026†	750.0	776.5	0.8929	mg/L	0.8929	mg/L	16:27:03
1	Sn 189.927†	2154.8	2050.5	0.5044	mg/L	0.5044	mg/L	16:27:03
1	Sr 407.771†	1143780.9	1168625.0	0.0497	mg/L	0.0497	mg/L	16:26:38
1	Ti 337.279†	318031.6	329472.6	0.4175	mg/L	0.4175	mg/L	16:26:43
1	Tl 190.801†	634.0	657.8	0.5340	mg/L	0.5340	mg/L	16:27:03
1	V 292.402†	127563.1	132884.8	0.4932	mg/L	0.4932	mg/L	16:26:43
1	Zn 213.857†	38974.0	39430.8	0.4742	mg/L	0.4742	mg/L	16:26:43

2	K 766.490†	39083.3	39572.5	23.94 mg/L	23.94 mg/L	16:26:28
2	Li 670.784†	15951.7	16336.7	0.4852 mg/L	0.4852 mg/L	16:26:28
2	Na 589.592	195243.7	188050.3	23.34 mg/L	23.34 mg/L	16:26:28
2	Y 371.029	3565655.4	3565655.4	0.971 mg/L		16:27:10
2	Ag 328.068†	68043.5	71471.6	0.2400 mg/L	0.2400 mg/L	16:27:16
2	Al 237.313†	21634.1	22325.0	2.352 mg/L	2.352 mg/L	16:27:16
2	As 188.979†	375.6	382.2	0.4598 mg/L	0.4598 mg/L	16:27:36
2	B 182.528†	218.3	228.8	0.4622 mg/L	0.4622 mg/L	16:27:36
2	Ba 233.527†	59565.4	61512.0	0.4811 mg/L	0.4811 mg/L	16:27:16
2	Be 313.107†	240882.0	245688.3	0.0476 mg/L	0.0476 mg/L	16:27:10
2	Ca 315.886†	747541.3	768660.3	4.968 mg/L	4.968 mg/L	16:27:10
2	Cd 228.802†	9920.6	10090.1	0.2359 mg/L	0.2359 mg/L	16:27:36
2	Co 228.616†	18371.8	19088.8	0.4765 mg/L	0.4765 mg/L	16:27:16
2	Cr 267.716†	80349.8	81588.6	0.4919 mg/L	0.4919 mg/L	16:27:16
2	Cu 324.752†	135013.6	136265.1	0.4851 mg/L	0.4851 mg/L	16:27:16
2	Fe 234.349†	133516.3	136213.7	2.466 mg/L	2.466 mg/L	16:27:16
2	Fe 238.204†	300263.4	308122.8	2.476 mg/L	2.476 mg/L	16:27:16
2	Mg 279.077†	125002.7	128180.8	4.730 mg/L	4.730 mg/L	16:27:16
2	Mn 257.610†	462094.2	473933.9	0.4933 mg/L	0.4933 mg/L	16:27:10
2	Mo 202.031†	7526.7	7728.4	0.4971 mg/L	0.4971 mg/L	16:27:36
2	Ni 231.604†	16222.1	16659.7	0.4833 mg/L	0.4833 mg/L	16:27:16
2	P 214.914†	6631.1	6809.1	4.591 mg/L	4.591 mg/L	16:27:36
2	Pb 220.353†	4142.8	4426.8	0.4749 mg/L	0.4749 mg/L	16:27:36
2	Sb 206.836†	968.0	996.3	0.4554 mg/L	0.4554 mg/L	16:27:36
2	Se 196.026†	755.3	783.3	0.9007 mg/L	0.9007 mg/L	16:27:36
2	Sn 189.927†	2164.6	2064.2	0.5078 mg/L	0.5078 mg/L	16:27:36
2	Sr 407.771†	1141922.6	1168641.3	0.0497 mg/L	0.0497 mg/L	16:27:10
2	Ti 337.279†	317502.8	329464.8	0.4175 mg/L	0.4175 mg/L	16:27:16
2	Tl 190.801†	639.7	664.7	0.5394 mg/L	0.5394 mg/L	16:27:36
2	V 292.402†	127318.0	132847.6	0.4931 mg/L	0.4931 mg/L	16:27:16
2	Zn 213.857†	38720.4	39235.4	0.4718 mg/L	0.4718 mg/L	16:27:16

Mean Data: BF62617-BSD1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3568581.6	0.972	mg/L	0.0011				0.12%
Ag 328.068†	71398.4	0.2398	mg/L	0.00035	0.2398	mg/L	0.00035	0.14%
Al 237.313†	22255.3	2.345	mg/L	0.0105	2.345	mg/L	0.0105	0.45%
As 188.979†	380.7	0.4580	mg/L	0.00252	0.4580	mg/L	0.00252	0.55%
B 182.528†	228.5	0.4616	mg/L	0.00078	0.4616	mg/L	0.00078	0.17%
Ba 233.527†	61512.5	0.4811	mg/L	0.00001	0.4811	mg/L	0.00001	0.00%
Be 313.107†	245816.3	0.0476	mg/L	0.00004	0.0476	mg/L	0.00004	0.07%
Ca 315.886†	769826.7	4.976	mg/L	0.0107	4.976	mg/L	0.0107	0.21%
Cd 228.802†	10087.8	0.2359	mg/L	0.00006	0.2359	mg/L	0.00006	0.03%
Co 228.616†	19102.2	0.4769	mg/L	0.00047	0.4769	mg/L	0.00047	0.10%
Cr 267.716†	81601.6	0.4920	mg/L	0.00011	0.4920	mg/L	0.00011	0.02%
Cu 324.752†	136446.4	0.4858	mg/L	0.00092	0.4858	mg/L	0.00092	0.19%
Fe 234.349†	136466.0	2.471	mg/L	0.0065	2.471	mg/L	0.0065	0.26%
Fe 238.204†	308388.4	2.479	mg/L	0.0030	2.479	mg/L	0.0030	0.12%
K 766.490†	39292.8	23.77	mg/L	0.238	23.77	mg/L	0.238	1.00%
Li 670.784†	16268.5	0.4832	mg/L	0.00288	0.4832	mg/L	0.00288	0.60%
Mg 279.077†	128271.2	4.733	mg/L	0.0047	4.733	mg/L	0.0047	0.10%
Mn 257.610†	474597.5	0.4940	mg/L	0.00098	0.4940	mg/L	0.00098	0.20%
Mo 202.031†	7725.7	0.4969	mg/L	0.00024	0.4969	mg/L	0.00024	0.05%
Na 589.592	188817.8	23.44	mg/L	0.135	23.44	mg/L	0.135	0.58%
Ni 231.604†	16704.0	0.4846	mg/L	0.00183	0.4846	mg/L	0.00183	0.38%
P 214.914†	6808.4	4.591	mg/L	0.0007	4.591	mg/L	0.0007	0.02%
Pb 220.353†	4439.1	0.4762	mg/L	0.00186	0.4762	mg/L	0.00186	0.39%
Sb 206.836†	993.8	0.4542	mg/L	0.00167	0.4542	mg/L	0.00167	0.37%
Se 196.026†	779.9	0.8968	mg/L	0.00550	0.8968	mg/L	0.00550	0.61%
Sn 189.927†	2057.3	0.5061	mg/L	0.00243	0.5061	mg/L	0.00243	0.48%
Sr 407.771†	1168633.1	0.0497	mg/L	0.00000	0.0497	mg/L	0.00000	0.00%
Ti 337.279†	329468.7	0.4175	mg/L	0.00001	0.4175	mg/L	0.00001	0.00%
Tl 190.801†	661.3	0.5367	mg/L	0.00381	0.5367	mg/L	0.00381	0.71%
V 292.402†	132866.2	0.4931	mg/L	0.00009	0.4931	mg/L	0.00009	0.02%
Zn 213.857†	39333.1	0.4730	mg/L	0.00166	0.4730	mg/L	0.00166	0.35%

Duplicate Check: BF62617-BSD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)

K 766.490	23.88	23.77	0.238	mg/L	0.4
Li 670.784	0.4814	0.4832	0.003	mg/L	0.4
Na 589.592	23.14	23.44	0.135	mg/L	1.3
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.2403	0.2398	0.000	mg/L	0.2
Al 237.313	2.361	2.345	0.010	mg/L	0.7
As 188.979	0.4564	0.4580	0.003	mg/L	0.4
B 182.528	0.4484	0.4616	0.001	mg/L	2.9
Ba 233.527	0.4839	0.4811	0.000	mg/L	0.6
Be 313.107	0.0475	0.0476	0.000	mg/L	0.4
Ca 315.886	4.969	4.976	0.011	mg/L	0.1
Cd 228.802	0.2359	0.2359	0.000	mg/L	0.0
Co 228.616	0.4795	0.4769	0.000	mg/L	0.5
Cr 267.716	0.4955	0.4920	0.000	mg/L	0.7
Cu 324.752	0.4897	0.4858	0.001	mg/L	0.8
Fe 234.349	2.483	2.471	0.006	mg/L	0.5
Fe 238.204	2.490	2.479	0.003	mg/L	0.5
Mg 279.077	4.762	4.733	0.005	mg/L	0.6
Mn 257.610	0.4918	0.4940	0.001	mg/L	0.4
Mo 202.031	0.4957	0.4969	0.000	mg/L	0.2
Ni 231.604	0.4888	0.4846	0.002	mg/L	0.8
P 214.914	4.586	4.591	0.001	mg/L	0.1
Pb 220.353	0.4768	0.4762	0.002	mg/L	0.1
Sb 206.836	0.4541	0.4542	0.002	mg/L	0.0
Se 196.026	0.8942	0.8968	0.006	mg/L	0.3
Sn 189.927	0.5030	0.5061	0.002	mg/L	0.6
Sr 407.771	0.0494	0.0497	0.000	mg/L	0.5
Ti 337.279	0.4184	0.4175	0.000	mg/L	0.2
Tl 190.801	0.5343	0.5367	0.004	mg/L	0.4
V 292.402	0.4960	0.4931	0.000	mg/L	0.6
Zn 213.857	0.4767	0.4730	0.002	mg/L	0.8

Sequence No.: 18
Sample ID: BF62617-SRM1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 6/26/2006 4:29:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62617-SRM1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	34379.4	33357.5	20.20	mg/L	20.20	mg/L	16:30:47
1	Li 670.784†	1975.7	1864.3	0.0527	mg/L	0.0527	mg/L	16:30:47
1	Na 589.592	96080.3	88886.8	11.01	mg/L	11.01	mg/L	16:30:47
1	Y 371.029	3709232.7	3709232.7	1.01	mg/L			16:31:16
1	Ag 328.068†	269229.3	267936.2	0.9013	mg/L	0.9013	mg/L	16:31:22
1	Al 237.313†	460643.5	456089.0	47.87	mg/L	47.87	mg/L	16:31:22
1	As 188.979†	1139.4	1123.4	1.355	mg/L	1.355	mg/L	16:31:42
1	B 182.528†	433.2	432.9	0.8734	mg/L	0.8734	mg/L	16:31:42
1	Ba 233.527†	428534.5	424422.9	3.325	mg/L	3.325	mg/L	16:31:22
1	Be 313.107†	3129993.4	3096353.1	0.6035	mg/L	0.6035	mg/L	16:31:16
1	Ca 315.886†	5852680.9	5793031.4	37.43	mg/L	37.43	mg/L	16:31:16
1	Cd 228.802†	36992.0	36495.7	0.8506	mg/L	0.8506	mg/L	16:31:42
1	Co 228.616†	22037.9	21986.0	0.5463	mg/L	0.5463	mg/L	16:31:42
1	Cr 267.716†	279772.1	275816.9	1.671	mg/L	1.671	mg/L	16:31:22
1	Cu 324.752†	186360.8	181717.4	0.6633	mg/L	0.6633	mg/L	16:31:22
1	Fe 234.349†	4735515.7	4686945.7	85.32	mg/L	85.32	mg/L	16:31:16
1	Fe 238.204†	10214551.2	10111459.8	81.53	mg/L	81.53	mg/L	16:31:07
1	Mg 279.077†	505787.3	500180.6	18.48	mg/L	18.48	mg/L	16:31:22
1	Mn 257.610†	1832056.7	1811797.8	1.892	mg/L	1.892	mg/L	16:31:16
1	Mo 202.031†	4097.5	4033.4	0.2590	mg/L	0.2590	mg/L	16:31:42
1	Ni 231.604†	27683.4	27359.8	0.7951	mg/L	0.7951	mg/L	16:31:22
1	P 214.914†	14334.6	14171.4	9.540	mg/L	9.540	mg/L	16:31:42
1	Pb 220.353†	5769.3	5871.9	0.6349	mg/L	0.6349	mg/L	16:31:42
1	Sb 206.836†	1370.8	1356.5	0.6033	mg/L	0.6033	mg/L	16:31:42
1	Se 196.026†	579.3	578.9	0.6655	mg/L	0.6655	mg/L	16:31:42
1	Sn 189.927†	3988.4	3783.5	0.9420	mg/L	0.9420	mg/L	16:31:42
1	Sr 407.771†	7426598.9	7345051.1	0.3135	mg/L	0.3135	mg/L	16:31:07
1	Ti 337.279†	1367898.0	1356716.0	1.719	mg/L	1.719	mg/L	16:31:16
1	Tl 190.801†	1034.8	1030.4	0.8430	mg/L	0.8430	mg/L	16:31:42

1	V 292.402†	359413.2	357550.2	1.298 mg/L	1.298 mg/L	16:31:22
1	Zn 213.857†	306786.0	303081.1	3.661 mg/L	3.661 mg/L	16:31:22
2	K 766.490†	34816.1	33736.5	20.42 mg/L	20.42 mg/L	16:30:52
2	Li 670.784†	1961.2	1846.9	0.0522 mg/L	0.0522 mg/L	16:30:52
2	Na 589.592	96717.1	89523.7	11.09 mg/L	11.09 mg/L	16:30:52
2	Y 371.029	3714986.0	3714986.0	1.01 mg/L		16:32:02
2	Ag 328.068†	269611.2	267901.0	0.9012 mg/L	0.9012 mg/L	16:32:08
2	Al 237.313†	461842.1	456567.6	47.92 mg/L	47.92 mg/L	16:32:08
2	As 188.979†	1139.6	1121.8	1.354 mg/L	1.354 mg/L	16:32:28
2	B 182.528†	438.2	437.1	0.8820 mg/L	0.8820 mg/L	16:32:28
2	Ba 233.527†	430130.1	425343.2	3.333 mg/L	3.333 mg/L	16:32:08
2	Be 313.107†	3129386.7	3090954.4	0.6025 mg/L	0.6025 mg/L	16:32:02
2	Ca 315.886†	5848462.9	5779888.6	37.34 mg/L	37.34 mg/L	16:32:02
2	Cd 228.802†	36927.5	36375.3	0.8478 mg/L	0.8478 mg/L	16:32:28
2	Co 228.616†	21962.1	21877.3	0.5436 mg/L	0.5436 mg/L	16:32:28
2	Cr 267.716†	281335.4	276933.2	1.678 mg/L	1.678 mg/L	16:32:08
2	Cu 324.752†	186613.0	181681.0	0.6632 mg/L	0.6632 mg/L	16:32:08
2	Fe 234.349†	4737613.2	4681758.6	85.23 mg/L	85.23 mg/L	16:32:02
2	Fe 238.204†	10196579.2	10078033.8	81.26 mg/L	81.26 mg/L	16:31:54
2	Mg 279.077†	507013.8	500617.5	18.50 mg/L	18.50 mg/L	16:32:08
2	Mn 257.610†	1830321.6	1807273.9	1.888 mg/L	1.888 mg/L	16:32:02
2	Mo 202.031†	4069.3	3999.2	0.2568 mg/L	0.2568 mg/L	16:32:28
2	Ni 231.604†	27716.1	27349.7	0.7948 mg/L	0.7948 mg/L	16:32:08
2	P 214.914†	14330.4	14145.3	9.523 mg/L	9.523 mg/L	16:32:28
2	Pb 220.353†	5706.5	5801.0	0.6273 mg/L	0.6273 mg/L	16:32:28
2	Sb 206.836†	1340.9	1324.8	0.5883 mg/L	0.5883 mg/L	16:32:28
2	Se 196.026†	582.3	581.0	0.6680 mg/L	0.6680 mg/L	16:32:28
2	Sn 189.927†	4005.9	3794.6	0.9448 mg/L	0.9448 mg/L	16:32:28
2	Sr 407.771†	7427474.2	7334529.9	0.3130 mg/L	0.3130 mg/L	16:31:54
2	Ti 337.279†	1368439.3	1355153.7	1.717 mg/L	1.717 mg/L	16:32:02
2	Tl 190.801†	1045.6	1039.5	0.8500 mg/L	0.8500 mg/L	16:32:28
2	V 292.402†	362018.1	359574.0	1.305 mg/L	1.305 mg/L	16:32:08
2	Zn 213.857†	308135.4	303944.6	3.672 mg/L	3.672 mg/L	16:32:08

Mean Data: BF62617-SRM1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3712109.4	1.01	mg/L	0.001				0.11%
Ag 328.068†	267918.6	0.9013	mg/L	0.00009	0.9013	mg/L	0.00009	0.01%
Al 237.313†	456328.3	47.90	mg/L	0.036	47.90	mg/L	0.036	0.08%
As 188.979†	1122.6	1.354	mg/L	0.0014	1.354	mg/L	0.0014	0.10%
B 182.528†	435.0	0.8777	mg/L	0.00607	0.8777	mg/L	0.00607	0.69%
Ba 233.527†	424883.0	3.329	mg/L	0.0051	3.329	mg/L	0.0051	0.15%
Be 313.107†	3093653.8	0.6030	mg/L	0.00074	0.6030	mg/L	0.00074	0.12%
Ca 315.886†	5786460.0	37.39	mg/L	0.060	37.39	mg/L	0.060	0.16%
Cd 228.802†	36435.5	0.8492	mg/L	0.00200	0.8492	mg/L	0.00200	0.24%
Co 228.616†	21931.7	0.5449	mg/L	0.00192	0.5449	mg/L	0.00192	0.35%
Cr 267.716†	276375.0	1.675	mg/L	0.0048	1.675	mg/L	0.0048	0.29%
Cu 324.752†	181699.2	0.6632	mg/L	0.00010	0.6632	mg/L	0.00010	0.02%
Fe 234.349†	4684352.1	85.28	mg/L	0.067	85.28	mg/L	0.067	0.08%
Fe 238.204†	10094746.8	81.40	mg/L	0.191	81.40	mg/L	0.191	0.23%
K 766.490†	33547.0	20.31	mg/L	0.162	20.31	mg/L	0.162	0.80%
Li 670.784†	1855.6	0.0524	mg/L	0.00037	0.0524	mg/L	0.00037	0.70%
Mg 279.077†	500399.1	18.49	mg/L	0.011	18.49	mg/L	0.011	0.06%
Mn 257.610†	1809535.9	1.890	mg/L	0.0033	1.890	mg/L	0.0033	0.18%
Mo 202.031†	4016.3	0.2579	mg/L	0.00156	0.2579	mg/L	0.00156	0.60%
Na 589.592	89205.3	11.05	mg/L	0.056	11.05	mg/L	0.056	0.51%
Ni 231.604†	27354.8	0.7949	mg/L	0.00021	0.7949	mg/L	0.00021	0.03%
P 214.914†	14158.3	9.532	mg/L	0.0124	9.532	mg/L	0.0124	0.13%
Pb 220.353†	5836.5	0.6311	mg/L	0.00537	0.6311	mg/L	0.00537	0.85%
Sb 206.836†	1340.6	0.5958	mg/L	0.01057	0.5958	mg/L	0.01057	1.77%
Se 196.026†	580.0	0.6667	mg/L	0.00174	0.6667	mg/L	0.00174	0.26%
Sn 189.927†	3789.0	0.9434	mg/L	0.00197	0.9434	mg/L	0.00197	0.21%
Sr 407.771†	7339790.5	0.3132	mg/L	0.00032	0.3132	mg/L	0.00032	0.10%
Ti 337.279†	1355934.9	1.718	mg/L	0.0014	1.718	mg/L	0.0014	0.08%
Tl 190.801†	1034.9	0.8465	mg/L	0.00497	0.8465	mg/L	0.00497	0.59%
V 292.402†	358562.1	1.301	mg/L	0.0052	1.301	mg/L	0.0052	0.40%
Zn 213.857†	303512.9	3.666	mg/L	0.0074	3.666	mg/L	0.0074	0.20%

Sequence No.: 19 **Autosampler Location: 13**

Sample ID: 0606383-01
Analyst:
Initial Sample Wt:
Dilution:

Date Collected: 6/26/2006 4:34:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606383-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	9000.8	8415.4	5.163	mg/L	5.163	mg/L	16:35:43
1	Li 670.784†	2008.2	1937.3	0.0549	mg/L	0.0549	mg/L	16:35:43
1	Na 589.592	49836.5	42643.1	5.253	mg/L	5.253	mg/L	16:35:43
1	Y 371.029	3634538.1	3634538.1	0.990	mg/L			16:36:10
1	Ag 328.068†	320274.6	324988.2	1.094	mg/L	1.094	mg/L	16:36:10
1	Al 237.313†	490254.9	495379.6	51.86	mg/L	51.86	mg/L	16:36:10
1	As 188.979†	86.2	82.5	0.0945	mg/L	0.0945	mg/L	16:36:35
1	B 182.528†	4.8	8.9	0.0192	mg/L	0.0192	mg/L	16:36:35
1	Ba 233.527†	105682.2	106944.1	0.8371	mg/L	0.8371	mg/L	16:36:15
1	Be 313.107†	22718.8	20562.7	0.0029	mg/L	0.0029	mg/L	16:36:15
1	Ca 315.886†	3055420.0	3085863.4	19.94	mg/L	19.94	mg/L	16:36:10
1	Cd 228.802†	1346.0	1233.0	0.0292	mg/L	0.0292	mg/L	16:36:35
1	Co 228.616†	2280.6	2472.3	0.0547	mg/L	0.0547	mg/L	16:36:35
1	Cr 267.716†	884259.7	892260.7	5.403	mg/L	5.403	mg/L	16:36:10
1	Cu 324.752†	5406702.1	5459946.3	19.49	mg/L	19.49	mg/L	16:36:03
1	Fe 234.349†	6674228.5	6742098.1	122.7	mg/L	122.7	mg/L	16:36:03
1	Fe 238.204†	14211533.7	14357688.1	115.8	mg/L	115.8	mg/L	16:36:03
1	Mg 279.077†	338725.8	341678.8	12.63	mg/L	12.63	mg/L	16:36:15
1	Mn 257.610†	4823957.5	4871977.6	5.092	mg/L	5.092	mg/L	16:36:03
1	Mo 202.031†	719.0	703.2	0.0445	mg/L	0.0445	mg/L	16:36:35
1	Ni 231.604†	19263.7	19416.1	0.5631	mg/L	0.5631	mg/L	16:36:15
1	P 214.914†	18959.0	19135.4	12.88	mg/L	12.88	mg/L	16:36:15
1	Pb 220.353†	48467.9	49130.3	5.267	mg/L	5.267	mg/L	16:36:15
1	Sb 206.836†	306.4	308.9	0.0335	mg/L	0.0335	mg/L	16:36:35
1	Se 196.026†	8.8	14.3	0.0158	mg/L	0.0158	mg/L	16:36:35
1	Sn 189.927†	6508.0	6410.3	1.601	mg/L	1.601	mg/L	16:36:35
1	Sr 407.771†	3097267.8	3121960.1	0.1331	mg/L	0.1331	mg/L	16:36:03
1	Ti 337.279†	2290546.6	2316757.0	2.935	mg/L	2.935	mg/L	16:36:10
1	Tl 190.801†	-65.1	-59.9	0.0505	mg/L	0.0505	mg/L	16:36:35
1	V 292.402†	112763.2	115656.9	0.3998	mg/L	0.3998	mg/L	16:36:15
1	Zn 213.857†	1597179.2	1613087.9	19.53	mg/L	19.53	mg/L	16:36:10
2	K 766.490†	9120.3	8553.4	5.246	mg/L	5.246	mg/L	16:35:48
2	Li 670.784†	2023.3	1956.4	0.0554	mg/L	0.0554	mg/L	16:35:48
2	Na 589.592	50155.4	42962.0	5.293	mg/L	5.293	mg/L	16:35:48
2	Y 371.029	3627743.3	3627743.3	0.988	mg/L			16:36:53
2	Ag 328.068†	317302.4	322585.7	1.086	mg/L	1.086	mg/L	16:36:53
2	Al 237.313†	488532.6	494564.0	51.77	mg/L	51.77	mg/L	16:36:53
2	As 188.979†	86.4	82.8	0.0949	mg/L	0.0949	mg/L	16:37:19
2	B 182.528†	5.0	9.0	0.0195	mg/L	0.0195	mg/L	16:37:19
2	Ba 233.527†	105506.6	106966.4	0.8373	mg/L	0.8373	mg/L	16:36:58
2	Be 313.107†	22653.5	20539.6	0.0029	mg/L	0.0029	mg/L	16:36:58
2	Ca 315.886†	3042421.6	3078487.9	19.89	mg/L	19.89	mg/L	16:36:53
2	Cd 228.802†	1340.3	1229.8	0.0291	mg/L	0.0291	mg/L	16:37:19
2	Co 228.616†	2278.2	2474.3	0.0548	mg/L	0.0548	mg/L	16:37:19
2	Cr 267.716†	882431.0	892083.0	5.402	mg/L	5.402	mg/L	16:36:53
2	Cu 324.752†	5441513.0	5505415.5	19.65	mg/L	19.65	mg/L	16:36:46
2	Fe 234.349†	6721094.3	6802168.6	123.8	mg/L	123.8	mg/L	16:36:46
2	Fe 238.204†	14300377.6	14474514.8	116.7	mg/L	116.7	mg/L	16:36:46
2	Mg 279.077†	337712.9	341294.5	12.62	mg/L	12.62	mg/L	16:36:58
2	Mn 257.610†	4859910.3	4917499.9	5.140	mg/L	5.140	mg/L	16:36:46
2	Mo 202.031†	710.4	695.8	0.0440	mg/L	0.0440	mg/L	16:37:19
2	Ni 231.604†	19325.6	19515.2	0.5660	mg/L	0.5660	mg/L	16:36:58
2	P 214.914†	19024.3	19237.3	12.95	mg/L	12.95	mg/L	16:36:58
2	Pb 220.353†	48596.8	49352.6	5.291	mg/L	5.291	mg/L	16:36:58
2	Sb 206.836†	295.2	298.2	0.0285	mg/L	0.0285	mg/L	16:37:19
2	Se 196.026†	4.9	10.4	0.0113	mg/L	0.0113	mg/L	16:37:19
2	Sn 189.927†	6476.0	6390.3	1.596	mg/L	1.596	mg/L	16:37:19
2	Sr 407.771†	3123766.6	3154645.0	0.1345	mg/L	0.1345	mg/L	16:36:46
2	Ti 337.279†	2286913.1	2317413.6	2.936	mg/L	2.936	mg/L	16:36:53
2	Tl 190.801†	-67.2	-62.1	0.0496	mg/L	0.0496	mg/L	16:37:19
2	V 292.402†	112958.2	116067.7	0.4011	mg/L	0.4011	mg/L	16:36:58
2	Zn 213.857†	1591108.4	1609965.2	19.49	mg/L	19.49	mg/L	16:36:53

Mean Data: 0606383-01

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3631140.7	0.989	mg/L	0.0013				0.13%
Ag 328.068†	323787.0	1.090	mg/L	0.0057	1.090	mg/L	0.0057	0.52%
Al 237.313†	494971.8	51.81	mg/L	0.064	51.81	mg/L	0.064	0.12%
As 188.979†	82.7	0.0947	mg/L	0.00025	0.0947	mg/L	0.00025	0.27%
B 182.528†	9.0	0.0193	mg/L	0.00027	0.0193	mg/L	0.00027	1.39%
Ba 233.527†	106955.3	0.8372	mg/L	0.00012	0.8372	mg/L	0.00012	0.01%
Be 313.107†	20551.2	0.0029	mg/L	0.00000	0.0029	mg/L	0.00000	0.02%
Ca 315.886†	3082175.7	19.91	mg/L	0.034	19.91	mg/L	0.034	0.17%
Cd 228.802†	1231.4	0.0291	mg/L	0.00005	0.0291	mg/L	0.00005	0.17%
Co 228.616†	2473.3	0.0547	mg/L	0.00003	0.0547	mg/L	0.00003	0.06%
Cr 267.716†	892171.8	5.402	mg/L	0.0007	5.402	mg/L	0.0007	0.01%
Cu 324.752†	5482680.9	19.57	mg/L	0.115	19.57	mg/L	0.115	0.59%
Fe 234.349†	6772133.3	123.3	mg/L	0.77	123.3	mg/L	0.77	0.63%
Fe 238.204†	14416101.5	116.2	mg/L	0.67	116.2	mg/L	0.67	0.57%
K 766.490†	8484.4	5.204	mg/L	0.0588	5.204	mg/L	0.0588	1.13%
Li 670.784†	1946.9	0.0552	mg/L	0.00040	0.0552	mg/L	0.00040	0.73%
Mg 279.077†	341486.6	12.63	mg/L	0.010	12.63	mg/L	0.010	0.08%
Mn 257.610†	4894738.8	5.116	mg/L	0.0337	5.116	mg/L	0.0337	0.66%
Mo 202.031†	699.5	0.0442	mg/L	0.00033	0.0442	mg/L	0.00033	0.76%
Na 589.592	42802.5	5.273	mg/L	0.0281	5.273	mg/L	0.0281	0.53%
Ni 231.604†	19465.7	0.5646	mg/L	0.00204	0.5646	mg/L	0.00204	0.36%
P 214.914†	19186.3	12.91	mg/L	0.048	12.91	mg/L	0.048	0.38%
Pb 220.353†	49241.5	5.279	mg/L	0.0168	5.279	mg/L	0.0168	0.32%
Sb 206.836†	303.5	0.0310	mg/L	0.00353	0.0310	mg/L	0.00353	11.39%
Se 196.026†	12.3	0.0136	mg/L	0.00313	0.0136	mg/L	0.00313	23.12%
Sn 189.927†	6400.3	1.599	mg/L	0.0035	1.599	mg/L	0.0035	0.22%
Sr 407.771†	3138302.6	0.1338	mg/L	0.00099	0.1338	mg/L	0.00099	0.74%
Ti 337.279†	2317085.3	2.935	mg/L	0.0006	2.935	mg/L	0.0006	0.02%
Tl 190.801†	-61.0	0.0501	mg/L	0.00065	0.0501	mg/L	0.00065	1.31%
V 292.402†	115862.3	0.4004	mg/L	0.00096	0.4004	mg/L	0.00096	0.24%
Zn 213.857†	1611526.6	19.51	mg/L	0.027	19.51	mg/L	0.027	0.14%

Sequence No.: 20
Sample ID: 0606383-02
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 6/26/2006 4:38:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606383-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	3363.1	2701.8	1.719	mg/L	1.719	mg/L	16:40:31
1	Li 670.784†	986.8	900.2	0.0239	mg/L	0.0239	mg/L	16:40:31
1	Na 589.592	48834.2	41640.8	5.128	mg/L	5.128	mg/L	16:40:31
1	Y 371.029	3653361.6	3653361.6	0.995	mg/L			16:40:55
1	Ag 328.068†	35428.4	37005.9	0.1264	mg/L	0.1264	mg/L	16:41:00
1	Al 237.313†	311843.5	313496.1	32.89	mg/L	32.89	mg/L	16:41:00
1	As 188.979†	65.1	60.8	0.0699	mg/L	0.0699	mg/L	16:41:21
1	B 182.528†	6.3	10.3	0.0220	mg/L	0.0220	mg/L	16:41:21
1	Ba 233.527†	37114.6	37472.7	0.2927	mg/L	0.2927	mg/L	16:41:00
1	Be 313.107†	18436.3	16139.9	0.0016	mg/L	0.0016	mg/L	16:41:00
1	Ca 315.886†	5298440.8	5324545.2	34.40	mg/L	34.40	mg/L	16:40:49
1	Cd 228.802†	285.6	160.1	0.0034	mg/L	0.0034	mg/L	16:41:21
1	Co 228.616†	932.9	1105.8	0.0232	mg/L	0.0232	mg/L	16:41:21
1	Cr 267.716†	24452.2	23416.1	0.1360	mg/L	0.1360	mg/L	16:41:00
1	Cu 324.752†	221498.2	219857.6	0.7938	mg/L	0.7938	mg/L	16:41:00
1	Fe 234.349†	2988341.2	3002459.1	54.66	mg/L	54.66	mg/L	16:40:55
1	Fe 238.204†	6603377.1	6636316.2	53.51	mg/L	53.51	mg/L	16:40:49
1	Mg 279.077†	171918.7	172248.1	6.454	mg/L	6.454	mg/L	16:41:00
1	Mn 257.610†	11016730.3	11071572.6	11.58	mg/L	11.58	mg/L	16:40:49
1	Mo 202.031†	253.2	231.2	0.0141	mg/L	0.0141	mg/L	16:41:21
1	Ni 231.604†	2331.1	2295.9	0.0642	mg/L	0.0642	mg/L	16:41:21
1	P 214.914†	7326.0	7343.7	4.950	mg/L	4.950	mg/L	16:41:21
1	Pb 220.353†	2632.4	2806.2	0.3036	mg/L	0.3036	mg/L	16:41:21
1	Sb 206.836†	17.3	16.7	0.0024	mg/L	0.0024	mg/L	16:41:21
1	Se 196.026†	2.6	8.0	0.0085	mg/L	0.0085	mg/L	16:41:21

1	Sn 189.927†	419.2	256.3	0.0595 mg/L	0.0595 mg/L	16:41:21
1	Sr 407.771†	4387883.9	4403108.0	0.1878 mg/L	0.1878 mg/L	16:40:49
1	Ti 337.279†	1344712.6	1354121.5	1.715 mg/L	1.715 mg/L	16:40:55
1	Tl 190.801†	-191.2	-186.3	0.0667 mg/L	0.0667 mg/L	16:41:21
1	V 292.402†	16346.9	18156.4	0.0573 mg/L	0.0573 mg/L	16:41:00
1	Zn 213.857†	52360.1	51988.1	0.6241 mg/L	0.6241 mg/L	16:41:00
2	K 766.490†	3425.8	2764.2	1.757 mg/L	1.757 mg/L	16:40:36
2	Li 670.784†	1066.5	980.2	0.0263 mg/L	0.0263 mg/L	16:40:36
2	Na 589.592	48912.6	41719.1	5.138 mg/L	5.138 mg/L	16:40:36
2	Y 371.029	3653999.6	3653999.6	0.995 mg/L		16:41:37
2	Ag 328.068†	35284.8	36855.4	0.1259 mg/L	0.1259 mg/L	16:41:42
2	Al 237.313†	309610.7	311197.4	32.65 mg/L	32.65 mg/L	16:41:42
2	As 188.979†	68.7	64.5	0.0742 mg/L	0.0742 mg/L	16:42:02
2	B 182.528†	4.2	8.2	0.0178 mg/L	0.0178 mg/L	16:42:02
2	Ba 233.527†	36819.6	37169.8	0.2903 mg/L	0.2903 mg/L	16:41:42
2	Be 313.107†	18410.9	16111.1	0.0016 mg/L	0.0016 mg/L	16:41:42
2	Ca 315.886†	5275093.8	5300151.9	34.24 mg/L	34.24 mg/L	16:41:31
2	Cd 228.802†	268.2	142.6	0.0030 mg/L	0.0030 mg/L	16:42:02
2	Co 228.616†	928.6	1101.3	0.0231 mg/L	0.0231 mg/L	16:42:02
2	Cr 267.716†	24255.9	23214.6	0.1348 mg/L	0.1348 mg/L	16:41:42
2	Cu 324.752†	219713.3	218024.9	0.7873 mg/L	0.7873 mg/L	16:41:42
2	Fe 234.349†	2984489.7	2998064.0	54.58 mg/L	54.58 mg/L	16:41:37
2	Fe 238.204†	6577307.4	6608957.7	53.29 mg/L	53.29 mg/L	16:41:31
2	Mg 279.077†	170610.3	170903.0	6.404 mg/L	6.404 mg/L	16:41:42
2	Mn 257.610†	10970356.2	11023033.9	11.52 mg/L	11.52 mg/L	16:41:31
2	Mo 202.031†	226.6	204.5	0.0123 mg/L	0.0123 mg/L	16:42:02
2	Ni 231.604†	2348.4	2312.9	0.0647 mg/L	0.0647 mg/L	16:42:02
2	P 214.914†	7311.5	7327.8	4.940 mg/L	4.940 mg/L	16:42:02
2	Pb 220.353†	2600.7	2773.8	0.3001 mg/L	0.3001 mg/L	16:42:02
2	Sb 206.836†	12.9	12.3	0.0004 mg/L	0.0004 mg/L	16:42:02
2	Se 196.026†	1.8	7.2	0.0076 mg/L	0.0076 mg/L	16:42:02
2	Sn 189.927†	409.3	246.2	0.0570 mg/L	0.0570 mg/L	16:42:02
2	Sr 407.771†	4372804.8	4387183.6	0.1871 mg/L	0.1871 mg/L	16:41:31
2	Ti 337.279†	1343059.8	1352224.5	1.713 mg/L	1.713 mg/L	16:41:37
2	Tl 190.801†	-185.2	-180.2	0.0705 mg/L	0.0705 mg/L	16:42:02
2	V 292.402†	16451.8	18258.9	0.0576 mg/L	0.0576 mg/L	16:41:42
2	Zn 213.857†	51926.7	51543.4	0.6188 mg/L	0.6188 mg/L	16:41:42

Mean Data: 0606383-02

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3653680.6	0.995	mg/L	0.0001				0.01%
Ag 328.068†	36930.7	0.1261	mg/L	0.00036	0.1261	mg/L	0.00036	0.28%
Al 237.313†	312346.7	32.77	mg/L	0.172	32.77	mg/L	0.172	0.52%
As 188.979†	62.7	0.0720	mg/L	0.00311	0.0720	mg/L	0.00311	4.31%
B 182.528†	9.2	0.0199	mg/L	0.00300	0.0199	mg/L	0.00300	15.08%
Ba 233.527†	37321.3	0.2915	mg/L	0.00168	0.2915	mg/L	0.00168	0.58%
Be 313.107†	16125.5	0.0016	mg/L	0.00000	0.0016	mg/L	0.00000	0.17%
Ca 315.886†	5312348.6	34.32	mg/L	0.111	34.32	mg/L	0.111	0.32%
Cd 228.802†	151.3	0.0032	mg/L	0.00031	0.0032	mg/L	0.00031	9.60%
Co 228.616†	1103.5	0.0231	mg/L	0.00007	0.0231	mg/L	0.00007	0.32%
Cr 267.716†	23315.4	0.1354	mg/L	0.00084	0.1354	mg/L	0.00084	0.62%
Cu 324.752†	218941.2	0.7906	mg/L	0.00463	0.7906	mg/L	0.00463	0.59%
Fe 234.349†	3000261.6	54.62	mg/L	0.057	54.62	mg/L	0.057	0.10%
Fe 238.204†	6622637.0	53.40	mg/L	0.156	53.40	mg/L	0.156	0.29%
K 766.490†	2733.0	1.738	mg/L	0.0266	1.738	mg/L	0.0266	1.53%
Li 670.784†	940.2	0.0251	mg/L	0.00169	0.0251	mg/L	0.00169	6.74%
Mg 279.077†	171575.6	6.429	mg/L	0.0356	6.429	mg/L	0.0356	0.55%
Mn 257.610†	11047303.3	11.55	mg/L	0.036	11.55	mg/L	0.036	0.31%
Mo 202.031†	217.9	0.0132	mg/L	0.00122	0.0132	mg/L	0.00122	9.22%
Na 589.592	41680.0	5.133	mg/L	0.0069	5.133	mg/L	0.0069	0.13%
Ni 231.604†	2304.4	0.0645	mg/L	0.00035	0.0645	mg/L	0.00035	0.54%
P 214.914†	7335.7	4.945	mg/L	0.0075	4.945	mg/L	0.0075	0.15%
Pb 220.353†	2790.0	0.3018	mg/L	0.00248	0.3018	mg/L	0.00248	0.82%
Sb 206.836†	14.5	0.0014	mg/L	0.00143	0.0014	mg/L	0.00143	101.47%
Se 196.026†	7.6	0.0081	mg/L	0.00066	0.0081	mg/L	0.00066	8.15%
Sn 189.927†	251.3	0.0583	mg/L	0.00179	0.0583	mg/L	0.00179	3.07%
Sr 407.771†	4395145.8	0.1875	mg/L	0.00048	0.1875	mg/L	0.00048	0.26%
Ti 337.279†	1353173.0	1.714	mg/L	0.0017	1.714	mg/L	0.0017	0.10%
Tl 190.801†	-183.2	0.0686	mg/L	0.00275	0.0686	mg/L	0.00275	4.01%
V 292.402†	18207.6	0.0574	mg/L	0.00025	0.0574	mg/L	0.00025	0.44%

Zn 213.857†	51765.7	0.6214 mg/L	0.00381	0.6214 mg/L	0.00381	0.61%

Sequence No.: 21
Sample ID: 0606383-03
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 6/26/2006 4:43:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606383-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	5172.7	4628.2	2.880	mg/L	2.880	mg/L	16:45:18
1	Li 670.784†	1453.1	1399.1	0.0388	mg/L	0.0388	mg/L	16:45:18
1	Na 589.592	48346.9	41153.5	5.068	mg/L	5.068	mg/L	16:45:18
1	Y 371.029	3579356.4	3579356.4	0.975	mg/L			16:45:44
1	Ag 328.068†	298245.9	307376.9	1.034	mg/L	1.034	mg/L	16:45:49
1	Al 237.313†	363247.1	372713.8	38.96	mg/L	38.96	mg/L	16:45:44
1	As 188.979†	71.4	68.6	0.0785	mg/L	0.0785	mg/L	16:46:09
1	B 182.528†	3.1	7.1	0.0157	mg/L	0.0157	mg/L	16:46:09
1	Ba 233.527†	98130.0	100842.2	0.7892	mg/L	0.7892	mg/L	16:45:49
1	Be 313.107†	15645.1	13659.4	0.0020	mg/L	0.0020	mg/L	16:45:49
1	Ca 315.886†	2720900.8	2790259.6	18.03	mg/L	18.03	mg/L	16:45:44
1	Cd 228.802†	844.9	739.9	0.0175	mg/L	0.0175	mg/L	16:46:09
1	Co 228.616†	1882.7	2099.6	0.0473	mg/L	0.0473	mg/L	16:46:09
1	Cr 267.716†	625593.6	640658.7	3.881	mg/L	3.881	mg/L	16:45:44
1	Cu 324.752†	3417247.9	3503104.8	12.51	mg/L	12.51	mg/L	16:45:37
1	Fe 234.349†	5652929.7	5798268.4	105.6	mg/L	105.6	mg/L	16:45:37
1	Fe 238.204†	12127418.3	12440877.5	100.3	mg/L	100.3	mg/L	16:45:37
1	Mg 279.077†	204758.2	209512.3	7.722	mg/L	7.722	mg/L	16:45:49
1	Mn 257.610†	2418177.2	2478933.9	2.590	mg/L	2.590	mg/L	16:45:44
1	Mo 202.031†	558.6	549.8	0.0346	mg/L	0.0346	mg/L	16:46:09
1	Ni 231.604†	18338.5	18767.0	0.5442	mg/L	0.5442	mg/L	16:45:49
1	P 214.914†	18152.5	18603.3	12.52	mg/L	12.52	mg/L	16:45:49
1	Pb 220.353†	24353.6	25145.5	2.695	mg/L	2.695	mg/L	16:45:49
1	Sb 206.836†	200.2	204.8	0.0164	mg/L	0.0164	mg/L	16:46:09
1	Se 196.026†	-0.4	5.0	0.0051	mg/L	0.0051	mg/L	16:46:09
1	Sn 189.927†	3092.7	3007.8	0.7493	mg/L	0.7493	mg/L	16:46:09
1	Sr 407.771†	3404061.8	3484956.3	0.1486	mg/L	0.1486	mg/L	16:45:37
1	Ti 337.279†	1551174.2	1593884.5	2.019	mg/L	2.019	mg/L	16:45:44
1	Tl 190.801†	-33.6	-28.5	0.0338	mg/L	0.0338	mg/L	16:46:09
1	V 292.402†	111573.6	116192.9	0.4062	mg/L	0.4062	mg/L	16:45:49
1	Zn 213.857†	692471.7	709791.6	8.587	mg/L	8.587	mg/L	16:45:44
2	K 766.490†	5168.9	4571.3	2.846	mg/L	2.846	mg/L	16:45:24
2	Li 670.784†	1472.0	1403.4	0.0389	mg/L	0.0389	mg/L	16:45:24
2	Na 589.592	48293.7	41100.3	5.061	mg/L	5.061	mg/L	16:45:24
2	Y 371.029	3615496.3	3615496.3	0.985	mg/L			16:46:26
2	Ag 328.068†	298460.7	304536.5	1.024	mg/L	1.024	mg/L	16:46:31
2	Al 237.313†	365383.7	371158.8	38.80	mg/L	38.80	mg/L	16:46:26
2	As 188.979†	69.6	66.0	0.0754	mg/L	0.0754	mg/L	16:46:51
2	B 182.528†	1.8	5.8	0.0130	mg/L	0.0130	mg/L	16:46:51
2	Ba 233.527†	98428.5	100139.0	0.7837	mg/L	0.7837	mg/L	16:46:31
2	Be 313.107†	15639.7	13493.5	0.0020	mg/L	0.0020	mg/L	16:46:31
2	Ca 315.886†	2737770.3	2779490.5	17.96	mg/L	17.96	mg/L	16:46:26
2	Cd 228.802†	862.4	749.0	0.0177	mg/L	0.0177	mg/L	16:46:51
2	Co 228.616†	1862.0	2059.3	0.0463	mg/L	0.0463	mg/L	16:46:51
2	Cr 267.716†	631311.1	640050.4	3.877	mg/L	3.877	mg/L	16:46:26
2	Cu 324.752†	3406511.2	3457155.3	12.35	mg/L	12.35	mg/L	16:46:19
2	Fe 234.349†	5637963.3	5725095.8	104.2	mg/L	104.2	mg/L	16:46:19
2	Fe 238.204†	12082965.4	12271359.3	98.95	mg/L	98.95	mg/L	16:46:19
2	Mg 279.077†	205857.4	208528.9	7.686	mg/L	7.686	mg/L	16:46:31
2	Mn 257.610†	2432941.0	2469130.6	2.580	mg/L	2.580	mg/L	16:46:26
2	Mo 202.031†	573.5	559.3	0.0352	mg/L	0.0352	mg/L	16:46:51
2	Ni 231.604†	18366.5	18607.4	0.5396	mg/L	0.5396	mg/L	16:46:31
2	P 214.914†	18218.1	18483.8	12.44	mg/L	12.44	mg/L	16:46:31
2	Pb 220.353†	24368.5	24910.9	2.670	mg/L	2.670	mg/L	16:46:31
2	Sb 206.836†	204.2	206.8	0.0174	mg/L	0.0174	mg/L	16:46:51
2	Se 196.026†	0.1	5.5	0.0057	mg/L	0.0057	mg/L	16:46:51
2	Sn 189.927†	3113.4	2997.1	0.7466	mg/L	0.7466	mg/L	16:46:51
2	Sr 407.771†	3400768.1	3446701.9	0.1470	mg/L	0.1470	mg/L	16:46:19
2	Ti 337.279†	1566453.8	1593496.3	2.019	mg/L	2.019	mg/L	16:46:26

2	Tl 190.801†	-38.7	-33.3	0.0299 mg/L	0.0299 mg/L	16:46:51
2	V 292.402†	111828.4	115307.5	0.4031 mg/L	0.4031 mg/L	16:46:31
2	Zn 213.857†	696577.1	706860.1	8.552 mg/L	8.552 mg/L	16:46:26

Mean Data: 0606383-03

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3597426.4	0.980	mg/L	0.0070				0.71%
Ag 328.068†	305956.7	1.029	mg/L	0.0068	1.029	mg/L	0.0068	0.66%
Al 237.313†	371936.3	38.88	mg/L	0.112	38.88	mg/L	0.112	0.29%
As 188.979†	67.3	0.0770	mg/L	0.00219	0.0770	mg/L	0.00219	2.85%
B 182.528†	6.5	0.0143	mg/L	0.00189	0.0143	mg/L	0.00189	13.21%
Ba 233.527†	100490.6	0.7865	mg/L	0.00390	0.7865	mg/L	0.00390	0.50%
Be 313.107†	13576.4	0.0020	mg/L	0.00003	0.0020	mg/L	0.00003	1.42%
Ca 315.886†	2784875.1	17.99	mg/L	0.049	17.99	mg/L	0.049	0.27%
Cd 228.802†	744.4	0.0176	mg/L	0.00015	0.0176	mg/L	0.00015	0.87%
Co 228.616†	2079.5	0.0468	mg/L	0.00071	0.0468	mg/L	0.00071	1.52%
Cr 267.716†	640354.5	3.879	mg/L	0.0027	3.879	mg/L	0.0027	0.07%
Cu 324.752†	3480130.1	12.43	mg/L	0.116	12.43	mg/L	0.116	0.93%
Fe 234.349†	5761682.1	104.9	mg/L	0.94	104.9	mg/L	0.94	0.90%
Fe 238.204†	12356118.4	99.63	mg/L	0.967	99.63	mg/L	0.967	0.97%
K 766.490†	4599.8	2.863	mg/L	0.0242	2.863	mg/L	0.0242	0.85%
Li 670.784†	1401.3	0.0389	mg/L	0.00009	0.0389	mg/L	0.00009	0.23%
Mg 279.077†	209020.6	7.704	mg/L	0.0255	7.704	mg/L	0.0255	0.33%
Mn 257.610†	2474032.2	2.585	mg/L	0.0072	2.585	mg/L	0.0072	0.28%
Mo 202.031†	554.5	0.0349	mg/L	0.00043	0.0349	mg/L	0.00043	1.23%
Na 589.592	41126.9	5.064	mg/L	0.0047	5.064	mg/L	0.0047	0.09%
Ni 231.604†	18687.2	0.5419	mg/L	0.00329	0.5419	mg/L	0.00329	0.61%
P 214.914†	18543.5	12.48	mg/L	0.057	12.48	mg/L	0.057	0.46%
Pb 220.353†	25028.2	2.683	mg/L	0.0177	2.683	mg/L	0.0177	0.66%
Sb 206.836†	205.8	0.0169	mg/L	0.00071	0.0169	mg/L	0.00071	4.17%
Se 196.026†	5.2	0.0054	mg/L	0.00042	0.0054	mg/L	0.00042	7.86%
Sn 189.927†	3002.5	0.7480	mg/L	0.00194	0.7480	mg/L	0.00194	0.26%
Sr 407.771†	3465829.1	0.1478	mg/L	0.00116	0.1478	mg/L	0.00116	0.78%
Ti 337.279†	1593690.4	2.019	mg/L	0.0003	2.019	mg/L	0.0003	0.02%
Tl 190.801†	-30.9	0.0319	mg/L	0.00279	0.0319	mg/L	0.00279	8.76%
V 292.402†	115750.2	0.4047	mg/L	0.00216	0.4047	mg/L	0.00216	0.53%
Zn 213.857†	708325.9	8.569	mg/L	0.0250	8.569	mg/L	0.0250	0.29%

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Sequence No.: 22
Sample ID: 0606383-04
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 16
Date Collected: 6/26/2006 4:48:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606383-04

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1622.3	1023.9	0.7080	mg/L	0.7080	mg/L	16:50:06
1	Li 670.784†	151.5	67.3	-0.0010	mg/L	-0.0010	mg/L	16:50:06
1	Na 589.592	49958.4	42765.0	5.268	mg/L	5.268	mg/L	16:50:06
1	Y 371.029	3499092.5	3499092.5	0.953	mg/L			16:50:23
1	Ag 328.068†	29.7	1426.0	0.0054	mg/L	0.0054	mg/L	16:50:28
1	Al 237.313†	214838.4	225511.4	23.82	mg/L	23.82	mg/L	16:50:28
1	As 188.979†	23.7	20.2	0.0217	mg/L	0.0217	mg/L	16:50:49
1	B 182.528†	5.5	9.7	0.0209	mg/L	0.0209	mg/L	16:50:49
1	Ba 233.527†	14844.3	15745.5	0.1224	mg/L	0.1224	mg/L	16:50:28
1	Be 313.107†	26003.2	24898.1	0.0043	mg/L	0.0043	mg/L	16:50:28
1	Ca 315.886†	2487228.6	2609059.3	16.85	mg/L	16.85	mg/L	16:50:23
1	Cd 228.802†	185.9	68.1	0.0011	mg/L	0.0011	mg/L	16:50:49
1	Co 228.616†	-40.2	125.9	0.0010	mg/L	0.0010	mg/L	16:50:49
1	Cr 267.716†	10601.0	9963.3	0.0587	mg/L	0.0587	mg/L	16:50:28
1	Cu 324.752†	47167.7	46718.4	0.1671	mg/L	0.1671	mg/L	16:50:28
1	Fe 234.349†	422196.5	441791.5	8.035	mg/L	8.035	mg/L	16:50:28
1	Fe 238.204†	937731.6	983010.6	7.918	mg/L	7.918	mg/L	16:50:23
1	Mg 279.077†	83608.6	87187.8	3.213	mg/L	3.213	mg/L	16:50:28
1	Mn 257.610†	783989.3	820807.0	0.8559	mg/L	0.8559	mg/L	16:50:23
1	Mo 202.031†	236.9	225.4	0.0137	mg/L	0.0137	mg/L	16:50:49
1	Ni 231.604†	815.2	808.3	0.0209	mg/L	0.0209	mg/L	16:50:49

1	P 214.914†	5574.9	5830.6	3.933 mg/L	3.933 mg/L	16:50:49
1	Pb 220.353†	166.0	334.4	0.0392 mg/L	0.0392 mg/L	16:50:49
1	Sb 206.836†	1.6	1.1	-0.0021 mg/L	-0.0021 mg/L	16:50:49
1	Se 196.026†	-1.9	3.4	0.0033 mg/L	0.0033 mg/L	16:50:49
1	Sn 189.927†	291.9	141.3	0.0277 mg/L	0.0277 mg/L	16:50:49
1	Sr 407.771†	2794784.4	2925646.0	0.1247 mg/L	0.1247 mg/L	16:50:23
1	Ti 337.279†	445217.1	469717.6	0.5951 mg/L	0.5951 mg/L	16:50:23
1	Tl 190.801†	9.7	16.2	0.0433 mg/L	0.0433 mg/L	16:50:49
1	V 292.402†	12699.5	15052.9	0.0535 mg/L	0.0535 mg/L	16:50:28
1	Zn 213.857†	11425.9	11349.1	0.1358 mg/L	0.1358 mg/L	16:50:28
2	K 766.490†	1648.5	1044.9	0.7206 mg/L	0.7206 mg/L	16:50:12
2	Li 670.784†	93.1	5.6	-0.0029 mg/L	-0.0029 mg/L	16:50:12
2	Na 589.592	50033.3	42839.9	5.277 mg/L	5.277 mg/L	16:50:12
2	Y 371.029	3512352.0	3512352.0	0.956 mg/L		16:50:57
2	Ag 328.068†	-14.5	1379.6	0.0052 mg/L	0.0052 mg/L	16:51:03
2	Al 237.313†	214120.5	223909.7	23.65 mg/L	23.65 mg/L	16:51:03
2	As 188.979†	27.9	24.6	0.0270 mg/L	0.0270 mg/L	16:51:23
2	B 182.528†	6.2	10.5	0.0224 mg/L	0.0224 mg/L	16:51:23
2	Ba 233.527†	14731.9	15569.1	0.1210 mg/L	0.1210 mg/L	16:51:03
2	Be 313.107†	25956.2	24745.9	0.0042 mg/L	0.0042 mg/L	16:51:03
2	Ca 315.886†	2498243.6	2610721.6	16.86 mg/L	16.86 mg/L	16:50:57
2	Cd 228.802†	182.3	63.7	0.0010 mg/L	0.0010 mg/L	16:51:23
2	Co 228.616†	-42.1	124.1	0.0010 mg/L	0.0010 mg/L	16:51:23
2	Cr 267.716†	10610.4	9931.2	0.0585 mg/L	0.0585 mg/L	16:51:03
2	Cu 324.752†	47018.9	46375.9	0.1659 mg/L	0.1659 mg/L	16:51:03
2	Fe 234.349†	420348.6	438186.8	7.970 mg/L	7.970 mg/L	16:51:03
2	Fe 238.204†	939581.8	981229.9	7.904 mg/L	7.904 mg/L	16:50:57
2	Mg 279.077†	83587.7	86834.7	3.200 mg/L	3.200 mg/L	16:51:03
2	Mn 257.610†	785832.7	819628.2	0.8547 mg/L	0.8547 mg/L	16:50:57
2	Mo 202.031†	253.0	241.3	0.0147 mg/L	0.0147 mg/L	16:51:23
2	Ni 231.604†	805.6	795.1	0.0205 mg/L	0.0205 mg/L	16:51:23
2	P 214.914†	5548.8	5781.3	3.900 mg/L	3.900 mg/L	16:51:23
2	Pb 220.353†	164.6	332.3	0.0389 mg/L	0.0389 mg/L	16:51:23
2	Sb 206.836†	24.4	24.8	0.0091 mg/L	0.0091 mg/L	16:51:23
2	Se 196.026†	4.6	10.3	0.0112 mg/L	0.0112 mg/L	16:51:23
2	Sn 189.927†	307.1	155.9	0.0314 mg/L	0.0314 mg/L	16:51:23
2	Sr 407.771†	2806088.5	2926392.0	0.1247 mg/L	0.1247 mg/L	16:50:57
2	Ti 337.279†	446720.8	469525.9	0.5949 mg/L	0.5949 mg/L	16:50:57
2	Tl 190.801†	-5.2	0.6	0.0311 mg/L	0.0311 mg/L	16:51:23
2	V 292.402†	12788.0	15095.2	0.0536 mg/L	0.0536 mg/L	16:51:03
2	Zn 213.857†	11322.5	11195.7	0.1340 mg/L	0.1340 mg/L	16:51:03

Mean Data: 0606383-04

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3505722.3	0.955	mg/L	0.0026				0.27%
Ag 328.068†	1402.8	0.0053	mg/L	0.00011	0.0053	mg/L	0.00011	2.11%
Al 237.313†	224710.5	23.73	mg/L	0.120	23.73	mg/L	0.120	0.50%
As 188.979†	22.4	0.0243	mg/L	0.00374	0.0243	mg/L	0.00374	15.38%
B 182.528†	10.1	0.0217	mg/L	0.00104	0.0217	mg/L	0.00104	4.81%
Ba 233.527†	15657.3	0.1217	mg/L	0.00098	0.1217	mg/L	0.00098	0.80%
Be 313.107†	24822.0	0.0043	mg/L	0.00002	0.0043	mg/L	0.00002	0.50%
Ca 315.886†	2609890.5	16.86	mg/L	0.008	16.86	mg/L	0.008	0.05%
Cd 228.802†	65.9	0.0010	mg/L	0.00010	0.0010	mg/L	0.00010	9.21%
Co 228.616†	125.0	0.0010	mg/L	0.00003	0.0010	mg/L	0.00003	3.22%
Cr 267.716†	9947.3	0.0586	mg/L	0.00014	0.0586	mg/L	0.00014	0.24%
Cu 324.752†	46547.1	0.1665	mg/L	0.00087	0.1665	mg/L	0.00087	0.52%
Fe 234.349†	439989.1	8.003	mg/L	0.0464	8.003	mg/L	0.0464	0.58%
Fe 238.204†	982120.3	7.911	mg/L	0.0102	7.911	mg/L	0.0102	0.13%
K 766.490†	1034.4	0.7143	mg/L	0.00892	0.7143	mg/L	0.00892	1.25%
Li 670.784†	36.5	-0.0019	mg/L	0.00130	-0.0019	mg/L	0.00130	67.28%
Mg 279.077†	87011.3	3.207	mg/L	0.0092	3.207	mg/L	0.0092	0.29%
Mn 257.610†	820217.6	0.8553	mg/L	0.00087	0.8553	mg/L	0.00087	0.10%
Mo 202.031†	233.3	0.0142	mg/L	0.00072	0.0142	mg/L	0.00072	5.09%
Na 589.592	42802.5	5.273	mg/L	0.0066	5.273	mg/L	0.0066	0.13%
Ni 231.604†	801.7	0.0207	mg/L	0.00027	0.0207	mg/L	0.00027	1.32%
P 214.914†	5805.9	3.917	mg/L	0.0234	3.917	mg/L	0.0234	0.60%
Pb 220.353†	333.4	0.0390	mg/L	0.00017	0.0390	mg/L	0.00017	0.45%
Sb 206.836†	12.9	0.0035	mg/L	0.00787	0.0035	mg/L	0.00787	225.10%
Se 196.026†	6.8	0.0072	mg/L	0.00554	0.0072	mg/L	0.00554	76.45%
Sn 189.927†	148.6	0.0296	mg/L	0.00259	0.0296	mg/L	0.00259	8.77%

Sr 407.771†	2926019.0	0.1247 mg/L	0.00002	0.1247 mg/L	0.00002	0.02%
Ti 337.279†	469621.8	0.5950 mg/L	0.00017	0.5950 mg/L	0.00017	0.03%
Tl 190.801†	8.4	0.0372 mg/L	0.00864	0.0372 mg/L	0.00864	23.23%
V 292.402†	15074.1	0.0535 mg/L	0.00013	0.0535 mg/L	0.00013	0.24%
Zn 213.857†	11272.4	0.1349 mg/L	0.00131	0.1349 mg/L	0.00131	0.97%

Sequence No.: 23
Sample ID: 0606383-05
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 6/26/2006 4:53:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606383-05

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	8072.8	7656.6	4.706	mg/L	4.706	mg/L	16:54:36
1	Li 670.784†	2885.0	2887.2	0.0833	mg/L	0.0833	mg/L	16:54:36
1	Na 589.592	55971.7	48778.3	6.016	mg/L	6.016	mg/L	16:54:36
1	Y 371.029	3556552.3	3556552.3	0.969	mg/L			16:55:08
1	Ag 328.068†	133251.6	138979.3	0.4744	mg/L	0.4744	mg/L	16:55:13
1	Al 237.313†	525428.4	542558.2	56.44	mg/L	56.44	mg/L	16:55:08
1	As 188.979†	169.2	170.1	0.2003	mg/L	0.2003	mg/L	16:55:33
1	B 182.528†	-41.6	-39.0	-0.0772	mg/L	-0.0772	mg/L	16:55:13
1	Ba 233.527†	92037.3	95196.9	0.7449	mg/L	0.7449	mg/L	16:55:13
1	Be 313.107†	37921.0	36762.6	0.0052	mg/L	0.0052	mg/L	16:55:13
1	Ca 315.886†	4122639.4	4255477.2	27.49	mg/L	27.49	mg/L	16:55:08
1	Cd 228.802†	1082.6	990.9	0.0264	mg/L	0.0264	mg/L	16:55:33
1	Co 228.616†	15535.7	16209.0	0.3975	mg/L	0.3975	mg/L	16:55:13
1	Cr 267.716†	143099.4	146590.4	0.8957	mg/L	0.8957	mg/L	16:55:13
1	Cu 324.752†	1454932.1	1499459.4	5.386	mg/L	5.386	mg/L	16:55:08
1	Fe 234.349†	11444655.5	11815510.2	215.1	mg/L	215.1	mg/L	16:54:59
1	Fe 238.204†	23019070.3	23766470.6	191.6	mg/L	191.6	mg/L	16:54:59
1	Mg 279.077†	345917.5	356608.7	13.14	mg/L	13.14	mg/L	16:55:13
1	Mn 257.610†	3990837.8	4118640.0	4.305	mg/L	4.305	mg/L	16:55:08
1	Mo 202.031†	365.5	354.1	0.0220	mg/L	0.0220	mg/L	16:55:13
1	Ni 231.604†	171648.7	177183.0	5.160	mg/L	5.160	mg/L	16:55:13
1	P 214.914†	15254.3	15730.2	10.59	mg/L	10.59	mg/L	16:55:13
1	Pb 220.353†	27683.2	28743.6	3.080	mg/L	3.080	mg/L	16:55:13
1	Sb 206.836†	32.9	33.3	-0.0044	mg/L	-0.0044	mg/L	16:55:33
1	Se 196.026†	28.8	35.1	0.0397	mg/L	0.0397	mg/L	16:55:33
1	Sn 189.927†	1438.8	1320.5	0.3333	mg/L	0.3333	mg/L	16:55:33
1	Sr 407.771†	5325962.1	5491743.7	0.2343	mg/L	0.2343	mg/L	16:54:59
1	Ti 337.279†	2398441.5	2478906.4	3.140	mg/L	3.140	mg/L	16:55:08
1	Tl 190.801†	-53.1	-48.9	0.0426	mg/L	0.0426	mg/L	16:55:33
1	V 292.402†	148781.6	155344.7	0.5359	mg/L	0.5359	mg/L	16:55:13
1	Zn 213.857†	632653.0	652583.0	7.853	mg/L	7.853	mg/L	16:55:08
2	K 766.490†	8045.8	7610.4	4.678	mg/L	4.678	mg/L	16:54:42
2	Li 670.784†	2923.9	2920.7	0.0843	mg/L	0.0843	mg/L	16:54:42
2	Na 589.592	56601.1	49407.7	6.095	mg/L	6.095	mg/L	16:54:42
2	Y 371.029	3564420.2	3564420.2	0.971	mg/L			16:55:56
2	Ag 328.068†	132729.8	138138.1	0.4716	mg/L	0.4716	mg/L	16:56:01
2	Al 237.313†	523807.6	539690.9	56.14	mg/L	56.14	mg/L	16:55:56
2	As 188.979†	170.6	171.1	0.2015	mg/L	0.2015	mg/L	16:56:22
2	B 182.528†	-33.2	-30.2	-0.0596	mg/L	-0.0596	mg/L	16:56:01
2	Ba 233.527†	92002.5	94951.2	0.7430	mg/L	0.7430	mg/L	16:56:01
2	Be 313.107†	37505.3	36247.9	0.0051	mg/L	0.0051	mg/L	16:56:01
2	Ca 315.886†	4106411.7	4229362.9	27.32	mg/L	27.32	mg/L	16:55:56
2	Cd 228.802†	1095.2	1001.4	0.0267	mg/L	0.0267	mg/L	16:56:22
2	Co 228.616†	15541.6	16179.7	0.3968	mg/L	0.3968	mg/L	16:56:01
2	Cr 267.716†	142760.5	145915.2	0.8917	mg/L	0.8917	mg/L	16:56:01
2	Cu 324.752†	1458294.6	1499607.6	5.387	mg/L	5.387	mg/L	16:55:56
2	Fe 234.349†	11512312.1	11859128.9	215.9	mg/L	215.9	mg/L	16:55:47
2	Fe 238.204†	23183852.9	23883772.8	192.6	mg/L	192.6	mg/L	16:55:47
2	Mg 279.077†	344131.0	353979.7	13.05	mg/L	13.05	mg/L	16:56:01
2	Mn 257.610†	3979714.2	4098084.6	4.283	mg/L	4.283	mg/L	16:55:56
2	Mo 202.031†	371.3	359.3	0.0223	mg/L	0.0223	mg/L	16:56:01
2	Ni 231.604†	171355.3	176489.6	5.140	mg/L	5.140	mg/L	16:56:01
2	P 214.914†	15269.9	15711.5	10.58	mg/L	10.58	mg/L	16:56:01
2	Pb 220.353†	27442.3	28432.3	3.046	mg/L	3.046	mg/L	16:56:01
2	Sb 206.836†	43.8	44.5	0.0009	mg/L	0.0009	mg/L	16:56:22

2	Se 196.026†	21.6	27.7	0.0312 mg/L	0.0312 mg/L	16:56:22
2	Sn 189.927†	1421.5	1299.4	0.3281 mg/L	0.3281 mg/L	16:56:22
2	Sr 407.771†	5367215.1	5522105.6	0.2356 mg/L	0.2356 mg/L	16:55:47
2	Ti 337.279†	2400243.3	2475296.4	3.136 mg/L	3.136 mg/L	16:55:56
2	Tl 190.801†	-61.8	-57.7	0.0353 mg/L	0.0353 mg/L	16:56:22
2	V 292.402†	148507.2	154722.9	0.5335 mg/L	0.5335 mg/L	16:56:01
2	Zn 213.857†	629737.2	648137.1	7.799 mg/L	7.799 mg/L	16:55:56

Mean Data: 0606383-05

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3560486.3	0.970	mg/L	0.0015				0.16%
Ag 328.068†	138558.7	0.4730	mg/L	0.00197	0.4730	mg/L	0.00197	0.42%
Al 237.313†	541124.6	56.29	mg/L	0.217	56.29	mg/L	0.217	0.39%
As 188.979†	170.6	0.2009	mg/L	0.00085	0.2009	mg/L	0.00085	0.43%
B 182.528†	-34.6	-0.0684	mg/L	0.01242	-0.0684	mg/L	0.01242	18.15%
Ba 233.527†	95074.1	0.7439	mg/L	0.00136	0.7439	mg/L	0.00136	0.18%
Be 313.107†	36505.2	0.0051	mg/L	0.00006	0.0051	mg/L	0.00006	1.26%
Ca 315.886†	4242420.1	27.41	mg/L	0.119	27.41	mg/L	0.119	0.44%
Cd 228.802†	996.1	0.0265	mg/L	0.00017	0.0265	mg/L	0.00017	0.63%
Co 228.616†	16194.4	0.3972	mg/L	0.00051	0.3972	mg/L	0.00051	0.13%
Cr 267.716†	146252.8	0.8937	mg/L	0.00285	0.8937	mg/L	0.00285	0.32%
Cu 324.752†	1499533.5	5.387	mg/L	0.0005	5.387	mg/L	0.0005	0.01%
Fe 234.349†	11837319.6	215.5	mg/L	0.56	215.5	mg/L	0.56	0.26%
Fe 238.204†	23825121.7	192.1	mg/L	0.67	192.1	mg/L	0.67	0.35%
K 766.490†	7633.5	4.692	mg/L	0.0197	4.692	mg/L	0.0197	0.42%
Li 670.784†	2903.9	0.0838	mg/L	0.00071	0.0838	mg/L	0.00071	0.84%
Mg 279.077†	355294.2	13.09	mg/L	0.069	13.09	mg/L	0.069	0.53%
Mn 257.610†	4108362.3	4.294	mg/L	0.0152	4.294	mg/L	0.0152	0.35%
Mo 202.031†	356.7	0.0221	mg/L	0.00023	0.0221	mg/L	0.00023	1.06%
Na 589.592	49093.0	6.055	mg/L	0.0554	6.055	mg/L	0.0554	0.91%
Ni 231.604†	176836.3	5.150	mg/L	0.0143	5.150	mg/L	0.0143	0.28%
P 214.914†	15720.9	10.58	mg/L	0.009	10.58	mg/L	0.009	0.08%
Pb 220.353†	28587.9	3.063	mg/L	0.0237	3.063	mg/L	0.0237	0.77%
Sb 206.836†	38.9	-0.0018	mg/L	0.00376	-0.0018	mg/L	0.00376	213.94%
Se 196.026†	31.4	0.0355	mg/L	0.00604	0.0355	mg/L	0.00604	17.03%
Sn 189.927†	1309.9	0.3307	mg/L	0.00371	0.3307	mg/L	0.00371	1.12%
Sr 407.771†	5506924.7	0.2350	mg/L	0.00092	0.2350	mg/L	0.00092	0.39%
Ti 337.279†	2477101.4	3.138	mg/L	0.0032	3.138	mg/L	0.0032	0.10%
Tl 190.801†	-53.3	0.0389	mg/L	0.00514	0.0389	mg/L	0.00514	13.21%
V 292.402†	155033.8	0.5347	mg/L	0.00167	0.5347	mg/L	0.00167	0.31%
Zn 213.857†	650360.1	7.826	mg/L	0.0380	7.826	mg/L	0.0380	0.49%

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Sequence No.: 24
Sample ID: 0606383-06
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 6/26/2006 4:58:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606383-06

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	7036.7	6113.9	3.776	mg/L	3.776	mg/L	16:59:39
1	Li 670.784†	2135.7	1969.9	0.0558	mg/L	0.0558	mg/L	16:59:39
1	Na 589.592	45879.0	38685.5	4.761	mg/L	4.761	mg/L	16:59:39
1	Y 371.029	3804157.8	3804157.8	1.04	mg/L			16:59:57
1	Ag 328.068†	-2130.1	-661.4	-0.0004	mg/L	-0.0004	mg/L	17:00:02
1	Al 237.313†	271528.8	262154.6	27.56	mg/L	27.56	mg/L	17:00:02
1	As 188.979†	60.0	53.3	0.0603	mg/L	0.0603	mg/L	17:00:23
1	B 182.528†	2.6	6.5	0.0144	mg/L	0.0144	mg/L	17:00:23
1	Ba 233.527†	25906.5	25174.6	0.1963	mg/L	0.1963	mg/L	17:00:02
1	Be 313.107†	16692.3	13721.7	0.0005	mg/L	0.0005	mg/L	17:00:02
1	Ca 315.886†	1327025.6	1279776.0	8.268	mg/L	8.268	mg/L	16:59:57
1	Cd 228.802†	202.8	68.9	0.0015	mg/L	0.0015	mg/L	17:00:23
1	Co 228.616†	2237.1	2327.6	0.0528	mg/L	0.0528	mg/L	17:00:23
1	Cr 267.716†	12033.6	10454.0	0.0635	mg/L	0.0635	mg/L	17:00:02
1	Cu 324.752†	1825107.9	1759016.6	6.279	mg/L	6.279	mg/L	16:59:57
1	Fe 234.349†	2244020.7	2164889.1	39.41	mg/L	39.41	mg/L	16:59:57
1	Fe 238.204†	4984536.6	4810522.6	38.78	mg/L	38.78	mg/L	16:59:57

1	Mg 279.077†	244319.6	235287.6	8.685 mg/L	8.685 mg/L	17:00:02
1	Mn 257.610†	887510.7	854756.9	0.8915 mg/L	0.8915 mg/L	16:59:57
1	Mo 202.031†	125.1	97.5	0.0054 mg/L	0.0054 mg/L	17:00:23
1	Ni 231.604†	9252.1	8883.9	0.2562 mg/L	0.2562 mg/L	17:00:02
1	P 214.914†	8217.5	7912.4	5.333 mg/L	5.333 mg/L	17:00:02
1	Pb 220.353†	107.8	264.2	0.0281 mg/L	0.0281 mg/L	17:00:23
1	Sb 206.836†	19.4	18.1	0.0042 mg/L	0.0042 mg/L	17:00:23
1	Se 196.026†	0.8	6.2	0.0065 mg/L	0.0065 mg/L	17:00:23
1	Sn 189.927†	216.0	43.4	0.0062 mg/L	0.0062 mg/L	17:00:23
1	Sr 407.771†	976021.0	934762.1	0.0397 mg/L	0.0397 mg/L	16:59:57
1	Ti 337.279†	1768526.3	1709655.1	2.166 mg/L	2.166 mg/L	16:59:57
1	Tl 190.801†	-12.4	-6.0	0.0235 mg/L	0.0235 mg/L	17:00:23
1	V 292.402†	17189.2	18318.1	0.0592 mg/L	0.0592 mg/L	17:00:02
1	Zn 213.857†	29841.9	28164.7	0.3357 mg/L	0.3357 mg/L	17:00:02
2	K 766.490†	7053.6	6093.5	3.763 mg/L	3.763 mg/L	16:59:45
2	Li 670.784†	2149.1	1971.7	0.0559 mg/L	0.0559 mg/L	16:59:45
2	Na 589.592	46031.0	38837.5	4.780 mg/L	4.780 mg/L	16:59:45
2	Y 371.029	3824844.5	3824844.5	1.04 mg/L		17:00:32
2	Ag 328.068†	-2181.7	-699.8	-0.0005 mg/L	-0.0005 mg/L	17:00:37
2	Al 237.313†	273286.9	262424.9	27.58 mg/L	27.58 mg/L	17:00:37
2	As 188.979†	60.9	53.8	0.0609 mg/L	0.0609 mg/L	17:00:58
2	B 182.528†	-5.7	-1.5	-0.0017 mg/L	-0.0017 mg/L	17:00:58
2	Ba 233.527†	26045.8	25173.1	0.1963 mg/L	0.1963 mg/L	17:00:37
2	Be 313.107†	16807.5	13745.3	0.0005 mg/L	0.0005 mg/L	17:00:37
2	Ca 315.886†	1330207.8	1275902.9	8.243 mg/L	8.243 mg/L	17:00:32
2	Cd 228.802†	196.9	62.1	0.0013 mg/L	0.0013 mg/L	17:00:58
2	Co 228.616†	2229.3	2308.4	0.0523 mg/L	0.0523 mg/L	17:00:58
2	Cr 267.716†	12051.8	10408.7	0.0633 mg/L	0.0633 mg/L	17:00:37
2	Cu 324.752†	1837086.1	1760988.1	6.287 mg/L	6.287 mg/L	17:00:32
2	Fe 234.349†	2253024.5	2161817.7	39.35 mg/L	39.35 mg/L	17:00:32
2	Fe 238.204†	4996079.4	4795581.1	38.66 mg/L	38.66 mg/L	17:00:32
2	Mg 279.077†	245829.9	235462.1	8.691 mg/L	8.691 mg/L	17:00:37
2	Mn 257.610†	889605.9	852135.0	0.8887 mg/L	0.8887 mg/L	17:00:32
2	Mo 202.031†	113.1	85.3	0.0047 mg/L	0.0047 mg/L	17:00:58
2	Ni 231.604†	9380.7	8959.1	0.2584 mg/L	0.2584 mg/L	17:00:37
2	P 214.914†	8271.3	7921.1	5.339 mg/L	5.339 mg/L	17:00:37
2	Pb 220.353†	103.7	259.8	0.0276 mg/L	0.0276 mg/L	17:00:58
2	Sb 206.836†	18.4	17.0	0.0037 mg/L	0.0037 mg/L	17:00:58
2	Se 196.026†	-5.3	0.3	-0.0003 mg/L	-0.0003 mg/L	17:00:58
2	Sn 189.927†	211.7	38.2	0.0049 mg/L	0.0049 mg/L	17:00:58
2	Sr 407.771†	978925.2	932454.7	0.0396 mg/L	0.0396 mg/L	17:00:32
2	Ti 337.279†	1776266.7	1707853.3	2.163 mg/L	2.163 mg/L	17:00:32
2	Tl 190.801†	-3.4	2.7	0.0302 mg/L	0.0302 mg/L	17:00:58
2	V 292.402†	17248.1	18284.9	0.0590 mg/L	0.0590 mg/L	17:00:37
2	Zn 213.857†	30077.6	28235.3	0.3366 mg/L	0.3366 mg/L	17:00:37

Mean Data: 0606383-06

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3814501.1	1.04	mg/L	0.004				0.38%
Ag 328.068†	-680.6	-0.0004	mg/L	0.00009	-0.0004	mg/L	0.00009	20.79%
Al 237.313†	262289.7	27.57	mg/L	0.020	27.57	mg/L	0.020	0.07%
As 188.979†	53.5	0.0606	mg/L	0.00047	0.0606	mg/L	0.00047	0.78%
B 182.528†	2.5	0.0063	mg/L	0.01143	0.0063	mg/L	0.01143	180.45%
Ba 233.527†	25173.9	0.1963	mg/L	0.00001	0.1963	mg/L	0.00001	0.00%
Be 313.107†	13733.5	0.0005	mg/L	0.00000	0.0005	mg/L	0.00000	0.89%
Ca 315.886†	1277839.4	8.255	mg/L	0.0177	8.255	mg/L	0.0177	0.21%
Cd 228.802†	65.5	0.0014	mg/L	0.00012	0.0014	mg/L	0.00012	8.53%
Co 228.616†	2318.0	0.0525	mg/L	0.00034	0.0525	mg/L	0.00034	0.64%
Cr 267.716†	10431.4	0.0634	mg/L	0.00020	0.0634	mg/L	0.00020	0.31%
Cu 324.752†	1760002.4	6.283	mg/L	0.0050	6.283	mg/L	0.0050	0.08%
Fe 234.349†	2163353.4	39.38	mg/L	0.040	39.38	mg/L	0.040	0.10%
Fe 238.204†	4803051.8	38.72	mg/L	0.085	38.72	mg/L	0.085	0.22%
K 766.490†	6103.7	3.770	mg/L	0.0087	3.770	mg/L	0.0087	0.23%
Li 670.784†	1970.8	0.0559	mg/L	0.00004	0.0559	mg/L	0.00004	0.07%
Mg 279.077†	235374.9	8.688	mg/L	0.0046	8.688	mg/L	0.0046	0.05%
Mn 257.610†	853446.0	0.8901	mg/L	0.00194	0.8901	mg/L	0.00194	0.22%
Mo 202.031†	91.4	0.0050	mg/L	0.00056	0.0050	mg/L	0.00056	11.05%
Na 589.592	38761.5	4.770	mg/L	0.0134	4.770	mg/L	0.0134	0.28%
Ni 231.604†	8921.5	0.2573	mg/L	0.00155	0.2573	mg/L	0.00155	0.60%
P 214.914†	7916.8	5.336	mg/L	0.0041	5.336	mg/L	0.0041	0.08%

Pb 220.353†	262.0	0.0278 mg/L	0.00034	0.0278 mg/L	0.00034	1.21%
Sb 206.836†	17.5	0.0039 mg/L	0.00037	0.0039 mg/L	0.00037	9.54%
Se 196.026†	3.2	0.0031 mg/L	0.00479	0.0031 mg/L	0.00479	155.48%
Sn 189.927†	40.8	0.0055 mg/L	0.00093	0.0055 mg/L	0.00093	16.75%
Sr 407.771†	933608.4	0.0396 mg/L	0.00007	0.0396 mg/L	0.00007	0.18%
Ti 337.279†	1708754.2	2.165 mg/L	0.0016	2.165 mg/L	0.0016	0.07%
Tl 190.801†	-1.6	0.0269 mg/L	0.00479	0.0269 mg/L	0.00479	17.83%
V 292.402†	18301.5	0.0591 mg/L	0.00009	0.0591 mg/L	0.00009	0.15%
Zn 213.857†	28200.0	0.3361 mg/L	0.00060	0.3361 mg/L	0.00060	0.18%

Sequence No.: 25
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/26/2006 5:02:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	40513.7	40157.4	24.29	mg/L	24.29	mg/L	17:04:12
1	Li 670.784†	16834.6	16876.8	0.5014	mg/L	0.5014	mg/L	17:04:12
1	Na 589.592	203588.0	196394.6	24.38	mg/L	24.38	mg/L	17:04:12
1	Y 371.029	3643216.3	3643216.3	0.992	mg/L			17:04:27
1	Ag 328.068†	71115.9	73076.5	0.2454	mg/L	0.2454	mg/L	17:04:32
1	Al 237.313†	23003.9	23231.3	2.448	mg/L	2.448	mg/L	17:04:32
1	As 188.979†	406.3	404.9	0.4873	mg/L	0.4873	mg/L	17:04:52
1	B 182.528†	233.5	239.3	0.4834	mg/L	0.4834	mg/L	17:04:52
1	Ba 233.527†	62513.9	63178.0	0.4942	mg/L	0.4942	mg/L	17:04:32
1	Be 313.107†	251945.1	251558.0	0.0487	mg/L	0.0487	mg/L	17:04:27
1	Ca 315.886†	759046.5	763866.9	4.937	mg/L	4.937	mg/L	17:04:27
1	Cd 228.802†	10532.2	10489.0	0.2452	mg/L	0.2452	mg/L	17:04:52
1	Co 228.616†	19301.6	19623.3	0.4898	mg/L	0.4898	mg/L	17:04:32
1	Cr 267.716†	82261.8	81754.2	0.4929	mg/L	0.4929	mg/L	17:04:32
1	Cu 324.752†	140527.0	138862.1	0.4945	mg/L	0.4945	mg/L	17:04:32
1	Fe 234.349†	136921.3	136718.4	2.475	mg/L	2.475	mg/L	17:04:32
1	Fe 238.204†	307009.8	308339.5	2.478	mg/L	2.478	mg/L	17:04:32
1	Mg 279.077†	133854.8	134362.6	4.959	mg/L	4.959	mg/L	17:04:32
1	Mn 257.610†	474182.0	475986.3	0.4954	mg/L	0.4954	mg/L	17:04:27
1	Mo 202.031†	7574.7	7611.7	0.4896	mg/L	0.4896	mg/L	17:04:52
1	Ni 231.604†	16934.3	17021.8	0.4939	mg/L	0.4939	mg/L	17:04:32
1	P 214.914†	7184.5	7221.5	4.868	mg/L	4.868	mg/L	17:04:52
1	Pb 220.353†	4409.3	4604.6	0.4940	mg/L	0.4940	mg/L	17:04:52
1	Sb 206.836†	1043.8	1051.4	0.4812	mg/L	0.4812	mg/L	17:04:52
1	Se 196.026†	839.9	852.0	0.9798	mg/L	0.9798	mg/L	17:04:52
1	Sn 189.927†	2097.9	1949.5	0.4792	mg/L	0.4792	mg/L	17:04:52
1	Sr 407.771†	1167596.3	1169482.4	0.0497	mg/L	0.0497	mg/L	17:04:27
1	Ti 337.279†	382621.9	388140.6	0.4918	mg/L	0.4918	mg/L	17:04:32
1	Tl 190.801†	674.9	686.2	0.5560	mg/L	0.5560	mg/L	17:04:52
1	V 292.402†	131615.0	134387.3	0.4985	mg/L	0.4985	mg/L	17:04:32
1	Zn 213.857†	41229.1	40915.1	0.4921	mg/L	0.4921	mg/L	17:04:32
2	K 766.490†	40541.4	40605.2	24.56	mg/L	24.56	mg/L	17:04:17
2	Li 670.784†	16701.9	16916.1	0.5025	mg/L	0.5025	mg/L	17:04:17
2	Na 589.592	202259.7	195066.3	24.22	mg/L	24.22	mg/L	17:04:17
2	Y 371.029	3606162.3	3606162.3	0.982	mg/L			17:04:59
2	Ag 328.068†	70644.1	73332.6	0.2463	mg/L	0.2463	mg/L	17:05:05
2	Al 237.313†	22663.5	23123.0	2.437	mg/L	2.437	mg/L	17:05:05
2	As 188.979†	404.5	407.3	0.4901	mg/L	0.4901	mg/L	17:05:25
2	B 182.528†	230.3	238.5	0.4818	mg/L	0.4818	mg/L	17:05:25
2	Ba 233.527†	61849.3	63148.7	0.4940	mg/L	0.4940	mg/L	17:05:05
2	Be 313.107†	249337.0	251511.5	0.0487	mg/L	0.0487	mg/L	17:04:59
2	Ca 315.886†	750709.5	763238.7	4.933	mg/L	4.933	mg/L	17:04:59
2	Cd 228.802†	10512.6	10578.2	0.2473	mg/L	0.2473	mg/L	17:05:25
2	Co 228.616†	19117.2	19635.3	0.4901	mg/L	0.4901	mg/L	17:05:05
2	Cr 267.716†	81445.5	81774.9	0.4931	mg/L	0.4931	mg/L	17:05:05
2	Cu 324.752†	139531.0	139303.4	0.4960	mg/L	0.4960	mg/L	17:05:05
2	Fe 234.349†	135165.2	136348.3	2.469	mg/L	2.469	mg/L	17:05:05
2	Fe 238.204†	303745.0	308194.5	2.477	mg/L	2.477	mg/L	17:05:05
2	Mg 279.077†	132058.6	133919.9	4.942	mg/L	4.942	mg/L	17:05:05
2	Mn 257.610†	468852.5	475470.3	0.4949	mg/L	0.4949	mg/L	17:04:59
2	Mo 202.031†	7622.8	7739.1	0.4978	mg/L	0.4978	mg/L	17:05:25

2	Ni 231.604†	16877.9	17139.8	0.4973 mg/L	0.4973 mg/L	17:05:05
2	P 214.914†	7177.9	7289.2	4.914 mg/L	4.914 mg/L	17:05:25
2	Pb 220.353†	4411.8	4652.8	0.4992 mg/L	0.4992 mg/L	17:05:25
2	Sb 206.836†	1043.6	1062.0	0.4861 mg/L	0.4861 mg/L	17:05:25
2	Se 196.026†	833.1	853.8	0.9818 mg/L	0.9818 mg/L	17:05:25
2	Sn 189.927†	2098.7	1972.1	0.4848 mg/L	0.4848 mg/L	17:05:25
2	Sr 407.771†	1156011.3	1169777.9	0.0497 mg/L	0.0497 mg/L	17:04:59
2	Ti 337.279†	380641.8	390087.0	0.4942 mg/L	0.4942 mg/L	17:05:05
2	Tl 190.801†	683.1	701.5	0.5680 mg/L	0.5680 mg/L	17:05:25
2	V 292.402†	130592.9	134709.6	0.4998 mg/L	0.4998 mg/L	17:05:05
2	Zn 213.857†	40840.7	40946.5	0.4925 mg/L	0.4925 mg/L	17:05:05

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3624689.3	0.987	mg/L	0.0071				0.72%
Ag 328.068†	73204.6	0.2458	mg/L	0.00061	0.2458	mg/L	0.00061	0.25%
QC value within limits for Ag 328.068 Recovery = 98.34%								
Al 237.313†	23177.1	2.443	mg/L	0.0081	2.443	mg/L	0.0081	0.33%
QC value within limits for Al 237.313 Recovery = 97.70%								
As 188.979†	406.1	0.4887	mg/L	0.00197	0.4887	mg/L	0.00197	0.40%
QC value within limits for As 188.979 Recovery = 97.74%								
B 182.528†	238.9	0.4826	mg/L	0.00115	0.4826	mg/L	0.00115	0.24%
QC value within limits for B 182.528 Recovery = 96.53%								
Ba 233.527†	63163.4	0.4941	mg/L	0.00016	0.4941	mg/L	0.00016	0.03%
QC value within limits for Ba 233.527 Recovery = 98.81%								
Be 313.107†	251534.8	0.0487	mg/L	0.00001	0.0487	mg/L	0.00001	0.02%
QC value within limits for Be 313.107 Recovery = 97.36%								
Ca 315.886†	763552.8	4.935	mg/L	0.0029	4.935	mg/L	0.0029	0.06%
QC value within limits for Ca 315.886 Recovery = 98.70%								
Cd 228.802†	10533.6	0.2462	mg/L	0.00147	0.2462	mg/L	0.00147	0.60%
QC value within limits for Cd 228.802 Recovery = 98.50%								
Co 228.616†	19629.3	0.4899	mg/L	0.00021	0.4899	mg/L	0.00021	0.04%
QC value within limits for Co 228.616 Recovery = 97.98%								
Cr 267.716†	81764.5	0.4930	mg/L	0.00009	0.4930	mg/L	0.00009	0.02%
QC value within limits for Cr 267.716 Recovery = 98.60%								
Cu 324.752†	139082.8	0.4953	mg/L	0.00111	0.4953	mg/L	0.00111	0.22%
QC value within limits for Cu 324.752 Recovery = 99.05%								
Fe 234.349†	136533.4	2.472	mg/L	0.0048	2.472	mg/L	0.0048	0.19%
QC value within limits for Fe 234.349 Recovery = 98.88%								
Fe 238.204†	308267.0	2.478	mg/L	0.0008	2.478	mg/L	0.0008	0.03%
QC value within limits for Fe 238.204 Recovery = 99.10%								
K 766.490†	40381.3	24.43	mg/L	0.191	24.43	mg/L	0.191	0.78%
QC value within limits for K 766.490 Recovery = 97.72%								
Li 670.784†	16896.5	0.5019	mg/L	0.00083	0.5019	mg/L	0.00083	0.17%
QC value within limits for Li 670.784 Recovery = 100.39%								
Mg 279.077†	134141.3	4.950	mg/L	0.0116	4.950	mg/L	0.0116	0.23%
QC value within limits for Mg 279.077 Recovery = 99.01%								
Mn 257.610†	475728.3	0.4952	mg/L	0.00038	0.4952	mg/L	0.00038	0.08%
QC value within limits for Mn 257.610 Recovery = 99.04%								
Mo 202.031†	7675.4	0.4937	mg/L	0.00580	0.4937	mg/L	0.00580	1.18%
QC value within limits for Mo 202.031 Recovery = 98.73%								
Na 589.592	195730.5	24.30	mg/L	0.117	24.30	mg/L	0.117	0.48%
QC value within limits for Na 589.592 Recovery = 97.20%								
Ni 231.604†	17080.8	0.4956	mg/L	0.00243	0.4956	mg/L	0.00243	0.49%
QC value within limits for Ni 231.604 Recovery = 99.12%								
P 214.914†	7255.4	4.891	mg/L	0.0322	4.891	mg/L	0.0322	0.66%
QC value within limits for P 214.914 Recovery = 97.82%								
Pb 220.353†	4628.7	0.4966	mg/L	0.00367	0.4966	mg/L	0.00367	0.74%
QC value within limits for Pb 220.353 Recovery = 99.32%								
Sb 206.836†	1056.7	0.4836	mg/L	0.00348	0.4836	mg/L	0.00348	0.72%
QC value within limits for Sb 206.836 Recovery = 96.73%								
Se 196.026†	852.9	0.9808	mg/L	0.00146	0.9808	mg/L	0.00146	0.15%
QC value within limits for Se 196.026 Recovery = 98.08%								
Sn 189.927†	1960.8	0.4820	mg/L	0.00399	0.4820	mg/L	0.00399	0.83%
QC value within limits for Sn 189.927 Recovery = 96.40%								
Sr 407.771†	1169630.2	0.0497	mg/L	0.00001	0.0497	mg/L	0.00001	0.02%
QC value within limits for Sr 407.771 Recovery = 99.43%								
Ti 337.279†	389113.8	0.4930	mg/L	0.00174	0.4930	mg/L	0.00174	0.35%
QC value within limits for Ti 337.279 Recovery = 98.60%								
Tl 190.801†	693.9	0.5620	mg/L	0.00845	0.5620	mg/L	0.00845	1.50%

QC value greater than the upper limit for Tl 190.801 Recovery = 112.40%

V 292.402†	134548.5	0.4991 mg/L	0.00093	0.4991 mg/L	0.00093	0.19%

QC value within limits for V 292.402 Recovery = 99.83%

Zn 213.857†	40930.8	0.4923 mg/L	0.00026	0.4923 mg/L	0.00026	0.05%

QC value within limits for Zn 213.857 Recovery = 98.46%

QC Failed. Continue with analysis.

Sequence No.: 26
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/26/2006 5:07:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	676.2	-6.2	0.0871	mg/L	0.0871	mg/L	17:08:36
1	Li 670.784†	168.9	76.3	-0.0007	mg/L	-0.0007	mg/L	17:08:36
1	Na 589.592	1622.6	-5570.9	-0.7458	mg/L	-0.7458	mg/L	17:08:36
1	Y 371.029	3692653.4	3692653.4	1.01	mg/L			17:08:49
1	Ag 328.068†	-1338.5	63.8	0.0005	mg/L	0.0005	mg/L	17:08:54
1	Al 237.313†	-65.5	-20.7	-0.0023	mg/L	-0.0023	mg/L	17:09:15
1	As 188.979†	6.2	1.6	-0.0003	mg/L	-0.0003	mg/L	17:09:15
1	B 182.528†	-4.2	-0.2	0.0008	mg/L	0.0008	mg/L	17:09:15
1	Ba 233.527†	-167.6	0.1	-0.0010	mg/L	-0.0010	mg/L	17:09:15
1	Be 313.107†	2374.5	-30.1	0.0000	mg/L	0.0000	mg/L	17:08:54
1	Ca 315.886†	1463.9	237.4	0.0017	mg/L	0.0017	mg/L	17:08:54
1	Cd 228.802†	138.3	10.6	-0.0002	mg/L	-0.0002	mg/L	17:09:15
1	Co 228.616†	-169.5	-0.4	-0.0009	mg/L	-0.0009	mg/L	17:09:15
1	Cr 267.716†	1238.2	69.3	-0.0011	mg/L	-0.0011	mg/L	17:08:54
1	Cu 324.752†	3637.4	834.4	0.0016	mg/L	0.0016	mg/L	17:08:54
1	Fe 234.349†	1461.9	161.6	-0.0056	mg/L	-0.0056	mg/L	17:09:15
1	Fe 238.204†	1487.0	366.0	-0.0060	mg/L	-0.0060	mg/L	17:09:15
1	Mg 279.077†	601.3	40.9	-0.0189	mg/L	-0.0189	mg/L	17:08:54
1	Mn 257.610†	1962.8	-16.3	-0.0024	mg/L	-0.0024	mg/L	17:08:54
1	Mo 202.031†	47.5	24.0	0.0007	mg/L	0.0007	mg/L	17:09:15
1	Ni 231.604†	51.2	3.7	-0.0026	mg/L	-0.0026	mg/L	17:09:15
1	P 214.914†	27.5	7.3	0.0187	mg/L	0.0187	mg/L	17:09:15
1	Pb 220.353†	-155.9	5.1	-0.0005	mg/L	-0.0005	mg/L	17:09:15
1	Sb 206.836†	-2.8	-3.4	-0.0025	mg/L	-0.0025	mg/L	17:09:15
1	Se 196.026†	-11.8	-6.3	-0.0079	mg/L	-0.0079	mg/L	17:09:15
1	Sn 189.927†	126.8	-39.0	-0.0182	mg/L	-0.0182	mg/L	17:09:15
1	Sr 407.771†	7435.8	-8.5	-0.0002	mg/L	-0.0002	mg/L	17:08:49
1	Ti 337.279†	-2203.9	282.9	0.0005	mg/L	0.0005	mg/L	17:08:54
1	Tl 190.801†	7.1	13.0	0.0274	mg/L	0.0274	mg/L	17:09:15
1	V 292.402†	-1651.9	82.4	0.0003	mg/L	0.0003	mg/L	17:08:54
1	Zn 213.857†	625.6	-19.9	-0.0014	mg/L	-0.0014	mg/L	17:09:15
2	K 766.490†	699.0	20.4	0.1031	mg/L	0.1031	mg/L	17:08:41
2	Li 670.784†	148.9	57.2	-0.0013	mg/L	-0.0013	mg/L	17:08:41
2	Na 589.592	1538.1	-5655.3	-0.7563	mg/L	-0.7563	mg/L	17:08:41
2	Y 371.029	3672038.4	3672038.4	1.000	mg/L			17:09:20
2	Ag 328.068†	-1364.8	30.0	0.0003	mg/L	0.0003	mg/L	17:09:26
2	Al 237.313†	-47.7	-3.3	-0.0005	mg/L	-0.0005	mg/L	17:09:46
2	As 188.979†	9.5	4.9	0.0037	mg/L	0.0037	mg/L	17:09:46
2	B 182.528†	-1.1	2.9	0.0071	mg/L	0.0071	mg/L	17:09:46
2	Ba 233.527†	-158.4	8.3	-0.0009	mg/L	-0.0009	mg/L	17:09:46
2	Be 313.107†	2455.6	64.2	0.0000	mg/L	0.0000	mg/L	17:09:26
2	Ca 315.886†	1396.5	178.2	0.0014	mg/L	0.0014	mg/L	17:09:26
2	Cd 228.802†	129.7	2.8	-0.0004	mg/L	-0.0004	mg/L	17:09:46
2	Co 228.616†	-155.8	12.3	-0.0006	mg/L	-0.0006	mg/L	17:09:46
2	Cr 267.716†	1230.0	68.0	-0.0011	mg/L	-0.0011	mg/L	17:09:26
2	Cu 324.752†	3589.5	806.8	0.0015	mg/L	0.0015	mg/L	17:09:26
2	Fe 234.349†	1439.7	147.6	-0.0059	mg/L	-0.0059	mg/L	17:09:46
2	Fe 238.204†	1511.1	398.4	-0.0057	mg/L	-0.0057	mg/L	17:09:46
2	Mg 279.077†	492.3	-64.8	-0.0228	mg/L	-0.0228	mg/L	17:09:26
2	Mn 257.610†	2015.3	47.2	-0.0023	mg/L	-0.0023	mg/L	17:09:26
2	Mo 202.031†	41.0	17.8	0.0003	mg/L	0.0003	mg/L	17:09:46
2	Ni 231.604†	55.4	8.2	-0.0024	mg/L	-0.0024	mg/L	17:09:46
2	P 214.914†	23.6	3.5	0.0161	mg/L	0.0161	mg/L	17:09:46
2	Pb 220.353†	-159.8	0.4	-0.0010	mg/L	-0.0010	mg/L	17:09:46

2	Sb 206.836†	8.1	7.5	0.0026 mg/L	0.0026 mg/L	17:09:46
2	Se 196.026†	-6.6	-1.2	-0.0021 mg/L	-0.0021 mg/L	17:09:46
2	Sn 189.927†	127.1	-38.0	-0.0180 mg/L	-0.0180 mg/L	17:09:46
2	Sr 407.771†	7347.8	-55.0	-0.0002 mg/L	-0.0002 mg/L	17:09:20
2	Ti 337.279†	-2351.6	122.9	0.0003 mg/L	0.0003 mg/L	17:09:26
2	Tl 190.801†	1.0	6.9	0.0226 mg/L	0.0226 mg/L	17:09:46
2	V 292.402†	-1691.8	33.4	0.0001 mg/L	0.0001 mg/L	17:09:26
2	Zn 213.857†	636.2	-5.8	-0.0012 mg/L	-0.0012 mg/L	17:09:46

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3682345.9	1.00	mg/L	0.004				0.40%
Ag 328.068†	46.9	0.0004	mg/L	0.00008	0.0004	mg/L	0.00008	20.19%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	-12.0	-0.0014	mg/L	0.00130	-0.0014	mg/L	0.00130	91.21%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	3.2	0.0017	mg/L	0.00284	0.0017	mg/L	0.00284	164.93%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	1.3	0.0040	mg/L	0.00441	0.0040	mg/L	0.00441	111.48%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	4.2	-0.0010	mg/L	0.00005	-0.0010	mg/L	0.00005	4.66%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	17.0	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	126.54%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	207.8	0.0015	mg/L	0.00027	0.0015	mg/L	0.00027	17.56%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	6.7	-0.0003	mg/L	0.00014	-0.0003	mg/L	0.00014	50.49%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	6.0	-0.0007	mg/L	0.00023	-0.0007	mg/L	0.00023	30.91%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	68.6	-0.0011	mg/L	0.00001	-0.0011	mg/L	0.00001	0.51%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	820.6	0.0015	mg/L	0.00007	0.0015	mg/L	0.00007	4.50%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	154.6	-0.0057	mg/L	0.00018	-0.0057	mg/L	0.00018	3.16%
QC value within limits for Fe 234.349 Recovery = Not calculated								
Fe 238.204†	382.2	-0.0058	mg/L	0.00018	-0.0058	mg/L	0.00018	3.17%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	7.1	0.0951	mg/L	0.01134	0.0951	mg/L	0.01134	11.93%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated								
Li 670.784†	66.8	-0.0010	mg/L	0.00040	-0.0010	mg/L	0.00040	39.05%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	-11.9	-0.0208	mg/L	0.00277	-0.0208	mg/L	0.00277	13.28%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	15.5	-0.0024	mg/L	0.00005	-0.0024	mg/L	0.00005	1.98%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	20.9	0.0005	mg/L	0.00028	0.0005	mg/L	0.00028	55.89%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-5613.1	-0.7511	mg/L	0.00743	-0.7511	mg/L	0.00743	0.99%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	5.9	-0.0025	mg/L	0.00009	-0.0025	mg/L	0.00009	3.72%
QC value less than the lower limit for Ni 231.604 Recovery = Not calculated								
P 214.914†	5.4	0.0174	mg/L	0.00179	0.0174	mg/L	0.00179	10.32%
QC value within limits for P 214.914 Recovery = Not calculated								
Pb 220.353†	2.8	-0.0008	mg/L	0.00036	-0.0008	mg/L	0.00036	47.65%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	2.0	0.0001	mg/L	0.00361	0.0001	mg/L	0.00361	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-3.8	-0.0050	mg/L	0.00412	-0.0050	mg/L	0.00412	82.68%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-38.5	-0.0181	mg/L	0.00017	-0.0181	mg/L	0.00017	0.92%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 407.771†	-31.8	-0.0002	mg/L	0.00000	-0.0002	mg/L	0.00000	0.58%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Ti 337.279†	202.9	0.0004	mg/L	0.00014	0.0004	mg/L	0.00014	38.46%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801†	10.0	0.0250	mg/L	0.00338	0.0250	mg/L	0.00338	13.50%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	57.9	0.0002	mg/L	0.00013	0.0002	mg/L	0.00013	54.67%
QC value within limits for V 292.402 Recovery = Not calculated								

Zn 213.857† -12.9 -0.0013 mg/L 0.00012 -0.0013 mg/L 0.00012 9.25%
QC value within limits for Zn 213.857 Recovery = Not calculated
QC Failed. Continue with analysis.

Sequence No.: 27
Sample ID: 0606383-07
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 6/26/2006 5:11:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606383-07

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	7901.4	7225.3	4.446	mg/L	4.446	mg/L	17:13:02
1	Li 670.784†	3940.1	3849.7	0.1120	mg/L	0.1120	mg/L	17:13:02
1	Na 589.592	80317.3	73123.9	9.045	mg/L	9.045	mg/L	17:13:02
1	Y 371.029	3670988.8	3670988.8	1.000	mg/L			17:13:27
1	Ag 328.068†	108197.3	109627.8	0.3760	mg/L	0.3760	mg/L	17:13:32
1	Al 237.313†	604714.0	604958.1	63.37	mg/L	63.37	mg/L	17:13:27
1	As 188.979†	295.7	291.2	0.3302	mg/L	0.3302	mg/L	17:13:52
1	B 182.528†	9.4	13.3	0.0281	mg/L	0.0281	mg/L	17:13:52
1	Ba 233.527†	588852.7	589213.9	4.609	mg/L	4.609	mg/L	17:13:27
1	Be 313.107†	66750.8	64381.3	0.0086	mg/L	0.0086	mg/L	17:13:27
1	Ca 315.886†	5191042.7	5191538.5	33.62	mg/L	33.62	mg/L	17:13:19
1	Cd 228.802†	878.0	751.4	0.0156	mg/L	0.0156	mg/L	17:13:52
1	Co 228.616†	4342.5	4512.0	0.1041	mg/L	0.1041	mg/L	17:13:52
1	Cr 267.716†	31393.0	30241.3	0.1845	mg/L	0.1845	mg/L	17:13:32
1	Cu 324.752†	497243.2	494624.5	1.791	mg/L	1.791	mg/L	17:13:27
1	Fe 234.349†	7832861.7	7834156.2	142.6	mg/L	142.6	mg/L	17:13:19
1	Fe 238.204†	16432759.6	16437073.3	132.6	mg/L	132.6	mg/L	17:13:19
1	Mg 279.077†	402620.1	402196.0	14.84	mg/L	14.84	mg/L	17:13:27
1	Mn 257.610†	2632088.6	2630989.6	2.751	mg/L	2.751	mg/L	17:13:27
1	Mo 202.031†	2802.3	2779.9	0.1783	mg/L	0.1783	mg/L	17:13:52
1	Ni 231.604†	91713.4	91696.5	2.669	mg/L	2.669	mg/L	17:13:32
1	P 214.914†	10867.0	10850.5	7.308	mg/L	7.308	mg/L	17:13:52
1	Pb 220.353†	20014.4	20181.2	2.168	mg/L	2.168	mg/L	17:13:32
1	Sb 206.836†	-14.4	-15.1	0.0358	mg/L	0.0358	mg/L	17:13:52
1	Se 196.026†	145.0	150.5	0.1725	mg/L	0.1725	mg/L	17:13:52
1	Sn 189.927†	1496.8	1332.2	0.3337	mg/L	0.3337	mg/L	17:13:52
1	Sr 407.771†	Saturated3	Saturated3					17:13:52
Saturated in preshot (code 3)								
1	Ti 337.279†	2799394.0	2802793.0	3.550	mg/L	3.550	mg/L	17:13:27
1	Tl 190.801†	52.4	58.4	0.0495	mg/L	0.0495	mg/L	17:13:52
1	V 292.402†	3554202.5	3557101.4	12.99	mg/L	12.99	mg/L	17:13:27
1	Zn 213.857†	170459.2	169873.5	2.054	mg/L	2.054	mg/L	17:13:32
2	K 766.490†	7974.9	7305.6	4.494	mg/L	4.494	mg/L	17:13:07
2	Li 670.784†	3942.7	3855.6	0.1122	mg/L	0.1122	mg/L	17:13:07
2	Na 589.592	82103.1	74909.7	9.268	mg/L	9.268	mg/L	17:13:07
2	Y 371.029	3667898.0	3667898.0	0.999	mg/L			17:14:08
2	Ag 328.068†	107492.7	109013.6	0.3740	mg/L	0.3740	mg/L	17:14:13
2	Al 237.313†	603663.7	604416.4	63.31	mg/L	63.31	mg/L	17:14:08
2	As 188.979†	289.3	285.0	0.3227	mg/L	0.3227	mg/L	17:14:34
2	B 182.528†	11.4	15.4	0.0323	mg/L	0.0323	mg/L	17:14:34
2	Ba 233.527†	587879.6	588736.1	4.605	mg/L	4.605	mg/L	17:14:08
2	Be 313.107†	66293.4	63979.6	0.0085	mg/L	0.0085	mg/L	17:14:08
2	Ca 315.886†	5192620.8	5197494.2	33.65	mg/L	33.65	mg/L	17:14:01
2	Cd 228.802†	869.7	743.8	0.0155	mg/L	0.0155	mg/L	17:14:34
2	Co 228.616†	4323.6	4496.7	0.1036	mg/L	0.1036	mg/L	17:14:34
2	Cr 267.716†	31655.1	30530.2	0.1862	mg/L	0.1862	mg/L	17:14:13
2	Cu 324.752†	490946.7	488739.8	1.770	mg/L	1.770	mg/L	17:14:08
2	Fe 234.349†	7809672.9	7817542.6	142.3	mg/L	142.3	mg/L	17:14:01
2	Fe 238.204†	16386884.1	16404995.5	132.3	mg/L	132.3	mg/L	17:14:01
2	Mg 279.077†	401372.0	401285.8	14.81	mg/L	14.81	mg/L	17:14:08
2	Mn 257.610†	2621390.0	2622497.1	2.742	mg/L	2.742	mg/L	17:14:08
2	Mo 202.031†	2767.0	2747.0	0.1761	mg/L	0.1761	mg/L	17:14:34
2	Ni 231.604†	93944.7	94007.7	2.737	mg/L	2.737	mg/L	17:14:13
2	P 214.914†	10816.4	10809.0	7.280	mg/L	7.280	mg/L	17:14:34
2	Pb 220.353†	19918.0	20101.5	2.160	mg/L	2.160	mg/L	17:14:13
2	Sb 206.836†	-8.7	-9.3	0.0386	mg/L	0.0386	mg/L	17:14:34
2	Se 196.026†	151.7	157.3	0.1803	mg/L	0.1803	mg/L	17:14:34

2	Sn 189.927†	1486.3	1323.0	0.3314 mg/L	0.3314 mg/L	17:14:34
2	Sr 407.771†	Saturated3	Saturated3			17:14:34
Saturated in preshot (code 3)						
2	Ti 337.279†	2799316.4	2805075.0	3.553 mg/L	3.553 mg/L	17:14:08
2	Tl 190.801†	27.4	33.4	0.0296 mg/L	0.0296 mg/L	17:14:34
2	V 292.402†	3565784.7	3571693.1	13.04 mg/L	13.04 mg/L	17:14:08
2	Zn 213.857†	171478.3	171037.5	2.068 mg/L	2.068 mg/L	17:14:13

Mean Data: 0606383-07

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3669443.4	0.999	mg/L	0.0006				0.06%
Ag 328.068†	109320.7	0.3750	mg/L	0.00146	0.3750	mg/L	0.00146	0.39%
Al 237.313†	604687.2	63.34	mg/L	0.040	63.34	mg/L	0.040	0.06%
As 188.979†	288.1	0.3264	mg/L	0.00536	0.3264	mg/L	0.00536	1.64%
B 182.528†	14.4	0.0302	mg/L	0.00293	0.0302	mg/L	0.00293	9.71%
Ba 233.527†	588975.0	4.607	mg/L	0.0027	4.607	mg/L	0.0027	0.06%
Be 313.107†	64180.5	0.0086	mg/L	0.00006	0.0086	mg/L	0.00006	0.71%
Ca 315.886†	5194516.3	33.64	mg/L	0.027	33.64	mg/L	0.027	0.08%
Cd 228.802†	747.6	0.0155	mg/L	0.00009	0.0155	mg/L	0.00009	0.59%
Co 228.616†	4504.4	0.1038	mg/L	0.00029	0.1038	mg/L	0.00029	0.28%
Cr 267.716†	30385.7	0.1854	mg/L	0.00122	0.1854	mg/L	0.00122	0.66%
Cu 324.752†	491682.2	1.780	mg/L	0.0149	1.780	mg/L	0.0149	0.84%
Fe 234.349†	7825849.4	142.5	mg/L	0.21	142.5	mg/L	0.21	0.15%
Fe 238.204†	16421034.4	132.4	mg/L	0.18	132.4	mg/L	0.18	0.14%
K 766.490†	7265.5	4.470	mg/L	0.0342	4.470	mg/L	0.0342	0.77%
Li 670.784†	3852.7	0.1121	mg/L	0.00012	0.1121	mg/L	0.00012	0.11%
Mg 279.077†	401740.9	14.83	mg/L	0.024	14.83	mg/L	0.024	0.16%
Mn 257.610†	2626743.4	2.747	mg/L	0.0063	2.747	mg/L	0.0063	0.23%
Mo 202.031†	2763.5	0.1772	mg/L	0.00150	0.1772	mg/L	0.00150	0.85%
Na 589.592	74016.8	9.157	mg/L	0.1571	9.157	mg/L	0.1571	1.72%
Ni 231.604†	92852.1	2.703	mg/L	0.0476	2.703	mg/L	0.0476	1.76%
P 214.914†	10829.7	7.294	mg/L	0.0197	7.294	mg/L	0.0197	0.27%
Pb 220.353†	20141.4	2.164	mg/L	0.0060	2.164	mg/L	0.0060	0.28%
Sb 206.836†	-12.2	0.0372	mg/L	0.00202	0.0372	mg/L	0.00202	5.44%
Se 196.026†	153.9	0.1764	mg/L	0.00550	0.1764	mg/L	0.00550	3.12%
Sn 189.927†	1327.6	0.3326	mg/L	0.00163	0.3326	mg/L	0.00163	0.49%
Sr 407.771†	Saturated3							
Ti 337.279†	2803934.0	3.552	mg/L	0.0020	3.552	mg/L	0.0020	0.06%
Tl 190.801†	45.9	0.0395	mg/L	0.01407	0.0395	mg/L	0.01407	35.60%
V 292.402†	3564397.2	13.02	mg/L	0.038	13.02	mg/L	0.038	0.29%
Zn 213.857†	170455.5	2.061	mg/L	0.0097	2.061	mg/L	0.0097	0.47%

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Sequence No.: 28
Sample ID: 0606383-08
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 6/26/2006 5:16:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606383-08

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	7274.9	6561.8	4.046	mg/L	4.046	mg/L	17:17:49
1	Li 670.784†	2995.7	2889.8	0.0833	mg/L	0.0833	mg/L	17:17:49
1	Na 589.592	110463.5	103270.1	12.80	mg/L	12.80	mg/L	17:17:49
1	Y 371.029	3689687.0	3689687.0	1.00	mg/L			17:18:13
1	Ag 328.068†	31463.3	32709.0	0.1157	mg/L	0.1157	mg/L	17:18:18
1	Al 237.313†	631655.7	628706.7	65.87	mg/L	65.87	mg/L	17:18:13
1	As 188.979†	363.5	357.2	0.4259	mg/L	0.4259	mg/L	17:18:38
1	B 182.528†	14.7	18.6	0.0387	mg/L	0.0387	mg/L	17:18:38
1	Ba 233.527†	2352422.2	2341440.5	18.35	mg/L	18.35	mg/L	17:18:13
1	Be 313.107†	93483.3	90648.7	0.0144	mg/L	0.0144	mg/L	17:18:18
1	Ca 315.886†	5277934.0	5251702.8	33.93	mg/L	33.93	mg/L	17:18:06
1	Cd 228.802†	904.7	773.5	0.0167	mg/L	0.0167	mg/L	17:18:38
1	Co 228.616†	4102.0	4250.6	0.0976	mg/L	0.0976	mg/L	17:18:38
1	Cr 267.716†	34791.1	33464.1	0.2076	mg/L	0.2076	mg/L	17:18:18
1	Cu 324.752†	326432.6	322102.7	1.176	mg/L	1.176	mg/L	17:18:13
1	Fe 234.349†	7867595.2	7829017.4	142.5	mg/L	142.5	mg/L	17:18:06
1	Fe 238.204†	16498004.8	16418705.6	132.4	mg/L	132.4	mg/L	17:18:06

1	Mg 279.077†	620863.5	617364.1	22.81 mg/L	22.81 mg/L	17:18:13
1	Mn 257.610†	2612081.2	2597734.0	2.714 mg/L	2.714 mg/L	17:18:13
1	Mo 202.031†	2017.6	1984.8	0.1270 mg/L	0.1270 mg/L	17:18:38
1	Ni 231.604†	9467.1	9375.1	0.2706 mg/L	0.2706 mg/L	17:18:18
1	P 214.914†	8567.5	8506.8	5.732 mg/L	5.732 mg/L	17:18:38
1	Pb 220.353†	13762.8	13857.8	1.491 mg/L	1.491 mg/L	17:18:18
1	Sb 206.836†	57.7	56.8	0.0202 mg/L	0.0202 mg/L	17:18:38
1	Se 196.026†	272.8	276.9	0.3180 mg/L	0.3180 mg/L	17:18:38
1	Sn 189.927†	490.3	322.9	0.0818 mg/L	0.0818 mg/L	17:18:38
1	Sr 407.771†	Saturated3	Saturated3			17:18:38
Saturated in preshot (code 3)						
1	Ti 337.279†	2982827.6	2971166.1	3.764 mg/L	3.764 mg/L	17:18:13
1	Tl 190.801†	1.1	7.0	0.0587 mg/L	0.0587 mg/L	17:18:38
1	V 292.402†	224884.2	225543.6	0.8036 mg/L	0.8036 mg/L	17:18:18
1	Zn 213.857†	114665.6	113480.1	1.362 mg/L	1.362 mg/L	17:18:18
2	K 766.490†	7282.2	6547.6	4.037 mg/L	4.037 mg/L	17:17:54
2	Li 670.784†	2968.9	2854.5	0.0823 mg/L	0.0823 mg/L	17:17:54
2	Na 589.592	111507.7	104314.2	12.93 mg/L	12.93 mg/L	17:17:54
2	Y 371.029	3700607.8	3700607.8	1.01 mg/L		17:18:54
2	Ag 328.068†	31609.5	32761.7	0.1159 mg/L	0.1159 mg/L	17:18:59
2	Al 237.313†	631402.3	626599.9	65.65 mg/L	65.65 mg/L	17:18:54
2	As 188.979†	365.3	357.8	0.4268 mg/L	0.4268 mg/L	17:19:19
2	B 182.528†	18.2	22.0	0.0457 mg/L	0.0457 mg/L	17:19:19
2	Ba 233.527†	2354788.8	2336879.6	18.32 mg/L	18.32 mg/L	17:18:54
2	Be 313.107†	93494.7	90385.5	0.0143 mg/L	0.0143 mg/L	17:18:59
2	Ca 315.886†	5303657.1	5261726.6	33.99 mg/L	33.99 mg/L	17:18:47
2	Cd 228.802†	919.6	785.6	0.0170 mg/L	0.0170 mg/L	17:19:19
2	Co 228.616†	4099.3	4235.9	0.0972 mg/L	0.0972 mg/L	17:19:19
2	Cr 267.716†	34613.1	33185.2	0.2059 mg/L	0.2059 mg/L	17:18:59
2	Cu 324.752†	328642.4	323336.9	1.180 mg/L	1.180 mg/L	17:18:54
2	Fe 234.349†	7903227.4	7841268.1	142.8 mg/L	142.8 mg/L	17:18:47
2	Fe 238.204†	16553683.1	16425500.2	132.4 mg/L	132.4 mg/L	17:18:47
2	Mg 279.077†	620360.4	615041.3	22.72 mg/L	22.72 mg/L	17:18:54
2	Mn 257.610†	2615741.6	2593694.4	2.710 mg/L	2.710 mg/L	17:18:54
2	Mo 202.031†	2045.3	2006.3	0.1284 mg/L	0.1284 mg/L	17:19:19
2	Ni 231.604†	9497.9	9377.8	0.2707 mg/L	0.2707 mg/L	17:18:59
2	P 214.914†	8593.7	8507.7	5.733 mg/L	5.733 mg/L	17:19:19
2	Pb 220.353†	13812.5	13866.7	1.492 mg/L	1.492 mg/L	17:18:59
2	Sb 206.836†	49.6	48.5	0.0164 mg/L	0.0164 mg/L	17:19:19
2	Se 196.026†	272.2	275.5	0.3164 mg/L	0.3164 mg/L	17:19:19
2	Sn 189.927†	474.7	306.0	0.0776 mg/L	0.0776 mg/L	17:19:19
2	Sr 407.771†	Saturated3	Saturated3			17:19:19
Saturated in preshot (code 3)						
2	Ti 337.279†	2984903.8	2964465.6	3.755 mg/L	3.755 mg/L	17:18:54
2	Tl 190.801†	9.5	15.4	0.0652 mg/L	0.0652 mg/L	17:19:19
2	V 292.402†	224321.0	224324.3	0.7991 mg/L	0.7991 mg/L	17:18:59
2	Zn 213.857†	114676.8	113154.4	1.358 mg/L	1.358 mg/L	17:18:59

Mean Data: 0606383-08

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3695147.4	1.01	mg/L	0.002				0.21%
Ag 328.068†	32735.3	0.1158	mg/L	0.00013	0.1158	mg/L	0.00013	0.11%
Al 237.313†	627653.3	65.76	mg/L	0.158	65.76	mg/L	0.158	0.24%
As 188.979†	357.5	0.4263	mg/L	0.00058	0.4263	mg/L	0.00058	0.14%
B 182.528†	20.3	0.0422	mg/L	0.00491	0.0422	mg/L	0.00491	11.63%
Ba 233.527†	2339160.1	18.34	mg/L	0.025	18.34	mg/L	0.025	0.14%
Be 313.107†	90517.1	0.0144	mg/L	0.00003	0.0144	mg/L	0.00003	0.20%
Ca 315.886†	5256714.7	33.96	mg/L	0.046	33.96	mg/L	0.046	0.13%
Cd 228.802†	779.6	0.0169	mg/L	0.00020	0.0169	mg/L	0.00020	1.17%
Co 228.616†	4243.3	0.0974	mg/L	0.00025	0.0974	mg/L	0.00025	0.25%
Cr 267.716†	33324.7	0.2067	mg/L	0.00118	0.2067	mg/L	0.00118	0.57%
Cu 324.752†	322719.8	1.178	mg/L	0.0031	1.178	mg/L	0.0031	0.27%
Fe 234.349†	7835142.7	142.7	mg/L	0.16	142.7	mg/L	0.16	0.11%
Fe 238.204†	16422102.9	132.4	mg/L	0.04	132.4	mg/L	0.04	0.03%
K 766.490†	6554.7	4.041	mg/L	0.0060	4.041	mg/L	0.0060	0.15%
Li 670.784†	2872.2	0.0828	mg/L	0.00075	0.0828	mg/L	0.00075	0.90%
Mg 279.077†	616202.7	22.77	mg/L	0.061	22.77	mg/L	0.061	0.27%
Mn 257.610†	2595714.2	2.712	mg/L	0.0030	2.712	mg/L	0.0030	0.11%
Mo 202.031†	1995.6	0.1277	mg/L	0.00098	0.1277	mg/L	0.00098	0.77%
Na 589.592	103792.2	12.86	mg/L	0.092	12.86	mg/L	0.092	0.71%

Ni 231.604†	9376.4	0.2707 mg/L	0.00006	0.2707 mg/L	0.00006	0.02%
P 214.914†	8507.2	5.733 mg/L	0.0004	5.733 mg/L	0.0004	0.01%
Pb 220.353†	13862.2	1.492 mg/L	0.0006	1.492 mg/L	0.0006	0.04%
Sb 206.836†	52.7	0.0183 mg/L	0.00272	0.0183 mg/L	0.00272	14.83%
Se 196.026†	276.2	0.3172 mg/L	0.00113	0.3172 mg/L	0.00113	0.36%
Sn 189.927†	314.4	0.0797 mg/L	0.00298	0.0797 mg/L	0.00298	3.74%
Sr 407.771†	Saturated3					
Ti 337.279†	2967815.8	3.759 mg/L	0.0060	3.759 mg/L	0.0060	0.16%
Tl 190.801†	11.2	0.0619 mg/L	0.00459	0.0619 mg/L	0.00459	7.41%
V 292.402†	224933.9	0.8014 mg/L	0.00315	0.8014 mg/L	0.00315	0.39%
Zn 213.857†	113317.3	1.360 mg/L	0.0028	1.360 mg/L	0.0028	0.21%

Sequence No.: 29
Sample ID: 0606383-09
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 6/26/2006 5:20:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606383-09

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1160.0	578.0	0.4392	mg/L	0.4392	mg/L	17:22:37
1	Li 670.784†	134.0	53.5	-0.0014	mg/L	-0.0014	mg/L	17:22:37
1	Na 589.592	45704.8	38511.4	4.739	mg/L	4.739	mg/L	17:22:37
1	Y 371.029	3389748.1	3389748.1	0.923	mg/L			17:23:00
1	Ag 328.068†	-636.5	705.3	0.0039	mg/L	0.0039	mg/L	17:23:05
1	Al 237.313†	54126.8	58681.4	6.058	mg/L	6.058	mg/L	17:23:05
1	As 188.979†	20.2	17.2	0.0184	mg/L	0.0184	mg/L	17:23:25
1	B 182.528†	-1.4	2.5	0.0063	mg/L	0.0063	mg/L	17:23:25
1	Ba 233.527†	37962.3	41292.3	0.3227	mg/L	0.3227	mg/L	17:23:05
1	Be 313.107†	7617.1	5860.3	0.0010	mg/L	0.0010	mg/L	17:23:05
1	Ca 315.886†	5403509.2	5852541.6	37.81	mg/L	37.81	mg/L	17:22:53
1	Cd 228.802†	187.3	76.0	0.0015	mg/L	0.0015	mg/L	17:23:25
1	Co 228.616†	91.4	267.1	0.0052	mg/L	0.0052	mg/L	17:23:25
1	Cr 267.716†	5725.9	5040.9	0.0293	mg/L	0.0293	mg/L	17:23:05
1	Cu 324.752†	19062.2	17867.7	0.0684	mg/L	0.0684	mg/L	17:23:05
1	Fe 234.349†	1642990.0	1778601.0	32.38	mg/L	32.38	mg/L	17:23:00
1	Fe 238.204†	3677704.1	3983038.3	32.11	mg/L	32.11	mg/L	17:23:00
1	Mg 279.077†	104318.6	112453.9	4.157	mg/L	4.157	mg/L	17:23:05
1	Mn 257.610†	2275861.2	2463530.6	2.574	mg/L	2.574	mg/L	17:23:00
1	Mo 202.031†	268.0	267.1	0.0164	mg/L	0.0164	mg/L	17:23:25
1	Ni 231.604†	1087.0	1130.4	0.0303	mg/L	0.0303	mg/L	17:23:25
1	P 214.914†	4885.4	5272.4	3.558	mg/L	3.558	mg/L	17:23:25
1	Pb 220.353†	92.9	260.8	0.0266	mg/L	0.0266	mg/L	17:23:25
1	Sb 206.836†	8.4	8.4	0.0022	mg/L	0.0022	mg/L	17:23:25
1	Se 196.026†	1.3	6.8	0.0072	mg/L	0.0072	mg/L	17:23:25
1	Sn 189.927†	296.5	156.1	0.0321	mg/L	0.0321	mg/L	17:23:25
1	Sr 407.771†	6318386.4	6837466.8	0.2918	mg/L	0.2918	mg/L	17:22:53
1	Ti 337.279†	220935.4	241819.6	0.3064	mg/L	0.3064	mg/L	17:23:05
1	Tl 190.801†	-17.8	-13.3	0.0503	mg/L	0.0503	mg/L	17:23:25
1	V 292.402†	4669.1	6783.4	0.0205	mg/L	0.0205	mg/L	17:23:05
1	Zn 213.857†	6122.4	5990.5	0.0685	mg/L	0.0685	mg/L	17:23:25
2	K 766.490†	1185.2	614.3	0.4611	mg/L	0.4611	mg/L	17:22:43
2	Li 670.784†	135.9	56.6	-0.0013	mg/L	-0.0013	mg/L	17:22:43
2	Na 589.592	45663.8	38470.4	4.734	mg/L	4.734	mg/L	17:22:43
2	Y 371.029	3366110.1	3366110.1	0.917	mg/L			17:23:40
2	Ag 328.068†	-776.3	547.9	0.0034	mg/L	0.0034	mg/L	17:23:45
2	Al 237.313†	53838.8	58779.0	6.068	mg/L	6.068	mg/L	17:23:45
2	As 188.979†	19.5	16.6	0.0177	mg/L	0.0177	mg/L	17:24:05
2	B 182.528†	-5.4	-2.0	-0.0026	mg/L	-0.0026	mg/L	17:24:05
2	Ba 233.527†	37630.5	41219.1	0.3221	mg/L	0.3221	mg/L	17:23:45
2	Be 313.107†	7533.0	5826.4	0.0010	mg/L	0.0010	mg/L	17:23:45
2	Ca 315.886†	5380693.1	5868758.0	37.91	mg/L	37.91	mg/L	17:23:33
2	Cd 228.802†	175.2	64.2	0.0012	mg/L	0.0012	mg/L	17:24:05
2	Co 228.616†	103.4	280.9	0.0055	mg/L	0.0055	mg/L	17:24:05
2	Cr 267.716†	5654.0	5006.0	0.0291	mg/L	0.0291	mg/L	17:23:45
2	Cu 324.752†	18811.6	17739.3	0.0680	mg/L	0.0680	mg/L	17:23:45
2	Fe 234.349†	1635335.9	1782749.9	32.45	mg/L	32.45	mg/L	17:23:40
2	Fe 238.204†	3654515.3	3985719.0	32.13	mg/L	32.13	mg/L	17:23:40
2	Mg 279.077†	103450.1	112300.1	4.151	mg/L	4.151	mg/L	17:23:45

2	Mn 257.610†	2260296.0	2463863.6	2.574 mg/L	2.574 mg/L	17:23:40
2	Mo 202.031†	262.4	263.0	0.0161 mg/L	0.0161 mg/L	17:24:05
2	Ni 231.604†	1080.8	1131.9	0.0303 mg/L	0.0303 mg/L	17:24:05
2	P 214.914†	4873.3	5296.4	3.574 mg/L	3.574 mg/L	17:24:05
2	Pb 220.353†	92.1	260.7	0.0266 mg/L	0.0266 mg/L	17:24:05
2	Sb 206.836†	-4.1	-5.1	-0.0042 mg/L	-0.0042 mg/L	17:24:05
2	Se 196.026†	2.9	8.5	0.0092 mg/L	0.0092 mg/L	17:24:05
2	Sn 189.927†	296.8	158.7	0.0328 mg/L	0.0328 mg/L	17:24:05
2	Sr 407.771†	6312562.3	6879180.3	0.2936 mg/L	0.2936 mg/L	17:23:33
2	Ti 337.279†	219883.4	242352.7	0.3071 mg/L	0.3071 mg/L	17:23:45
2	Tl 190.801†	-24.8	-21.1	0.0442 mg/L	0.0442 mg/L	17:24:05
2	V 292.402†	4700.1	6852.7	0.0207 mg/L	0.0207 mg/L	17:23:45
2	Zn 213.857†	6074.9	5985.3	0.0684 mg/L	0.0684 mg/L	17:24:05

Mean Data: 0606383-09

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3377929.1	0.920	mg/L	0.0046				0.49%
Ag 328.068†	626.6	0.0036	mg/L	0.00037	0.0036	mg/L	0.00037	10.15%
Al 237.313†	58730.2	6.063	mg/L	0.0071	6.063	mg/L	0.0071	0.12%
As 188.979†	16.9	0.0180	mg/L	0.00052	0.0180	mg/L	0.00052	2.88%
B 182.528†	0.3	0.0018	mg/L	0.00632	0.0018	mg/L	0.00632	343.68%
Ba 233.527†	41255.7	0.3224	mg/L	0.00041	0.3224	mg/L	0.00041	0.13%
Be 313.107†	5843.4	0.0010	mg/L	0.00000	0.0010	mg/L	0.00000	0.49%
Ca 315.886†	5860649.8	37.86	mg/L	0.074	37.86	mg/L	0.074	0.20%
Cd 228.802†	70.1	0.0014	mg/L	0.00019	0.0014	mg/L	0.00019	13.95%
Co 228.616†	274.0	0.0053	mg/L	0.00024	0.0053	mg/L	0.00024	4.56%
Cr 267.716†	5023.5	0.0292	mg/L	0.00015	0.0292	mg/L	0.00015	0.50%
Cu 324.752†	17803.5	0.0682	mg/L	0.00031	0.0682	mg/L	0.00031	0.46%
Fe 234.349†	1780675.4	32.41	mg/L	0.053	32.41	mg/L	0.053	0.16%
Fe 238.204†	3984378.6	32.12	mg/L	0.015	32.12	mg/L	0.015	0.05%
K 766.490†	596.1	0.4502	mg/L	0.01551	0.4502	mg/L	0.01551	3.44%
Li 670.784†	55.0	-0.0014	mg/L	0.00007	-0.0014	mg/L	0.00007	4.71%
Mg 279.077†	112377.0	4.154	mg/L	0.0040	4.154	mg/L	0.0040	0.10%
Mn 257.610†	2463697.1	2.574	mg/L	0.0002	2.574	mg/L	0.0002	0.01%
Mo 202.031†	265.1	0.0162	mg/L	0.00019	0.0162	mg/L	0.00019	1.15%
Na 589.592	38490.9	4.736	mg/L	0.0036	4.736	mg/L	0.0036	0.08%
Ni 231.604†	1131.2	0.0303	mg/L	0.00003	0.0303	mg/L	0.00003	0.10%
P 214.914†	5284.4	3.566	mg/L	0.0114	3.566	mg/L	0.0114	0.32%
Pb 220.353†	260.8	0.0266	mg/L	0.00001	0.0266	mg/L	0.00001	0.03%
Sb 206.836†	1.7	-0.0010	mg/L	0.00448	-0.0010	mg/L	0.00448	450.12%
Se 196.026†	7.7	0.0082	mg/L	0.00138	0.0082	mg/L	0.00138	16.85%
Sn 189.927†	157.4	0.0324	mg/L	0.00046	0.0324	mg/L	0.00046	1.41%
Sr 407.771†	6858323.5	0.2927	mg/L	0.00126	0.2927	mg/L	0.00126	0.43%
Ti 337.279†	242086.2	0.3068	mg/L	0.00048	0.3068	mg/L	0.00048	0.16%
Tl 190.801†	-17.2	0.0472	mg/L	0.00430	0.0472	mg/L	0.00430	9.11%
V 292.402†	6818.0	0.0206	mg/L	0.00017	0.0206	mg/L	0.00017	0.82%
Zn 213.857†	5987.9	0.0684	mg/L	0.00005	0.0684	mg/L	0.00005	0.07%

Sequence No.: 30
Sample ID: 0606383-10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 6/26/2006 5:25:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606383-10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	7840.7	7396.7	4.549	mg/L	4.549	mg/L	17:27:24
1	Li 670.784†	2145.9	2118.5	0.0603	mg/L	0.0603	mg/L	17:27:24
1	Na 589.592	57274.0	50080.6	6.178	mg/L	6.178	mg/L	17:27:24
1	Y 371.029	3565476.7	3565476.7	0.971	mg/L			17:27:49
1	Ag 328.068†	307994.0	318607.9	1.073	mg/L	1.073	mg/L	17:27:55
1	Al 237.313†	466723.3	480738.0	50.27	mg/L	50.27	mg/L	17:27:49
1	As 188.979†	141.7	141.3	0.1651	mg/L	0.1651	mg/L	17:28:15
1	B 182.528†	-8.6	-4.9	-0.0086	mg/L	-0.0086	mg/L	17:28:15
1	Ba 233.527†	195550.9	201571.0	1.578	mg/L	1.578	mg/L	17:27:55
1	Be 313.107†	32630.2	31215.3	0.0044	mg/L	0.0044	mg/L	17:27:55
1	Ca 315.886†	3986226.8	4104327.0	26.52	mg/L	26.52	mg/L	17:27:49

1	Cd 228.802†	1582.9	1503.3	0.0352 mg/L	0.0352 mg/L	17:28:15
1	Co 228.616†	3044.7	3303.9	0.0760 mg/L	0.0760 mg/L	17:28:15
1	Cr 267.716†	368296.3	378158.3	2.293 mg/L	2.293 mg/L	17:27:49
1	Cu 324.752†	3936506.3	4051553.7	14.47 mg/L	14.47 mg/L	17:27:42
1	Fe 234.349†	6981708.6	7189397.8	130.9 mg/L	130.9 mg/L	17:27:42
1	Fe 238.204†	14780876.0	15222194.8	122.7 mg/L	122.7 mg/L	17:27:42
1	Mg 279.077†	320837.3	329883.8	12.18 mg/L	12.18 mg/L	17:27:55
1	Mn 257.610†	3176324.1	3269431.9	3.417 mg/L	3.417 mg/L	17:27:49
1	Mo 202.031†	482.6	473.8	0.0297 mg/L	0.0297 mg/L	17:28:15
1	Ni 231.604†	28695.0	29506.7	0.8572 mg/L	0.8572 mg/L	17:27:55
1	P 214.914†	22458.0	23110.2	15.55 mg/L	15.55 mg/L	17:27:55
1	Pb 220.353†	46313.3	47859.8	5.131 mg/L	5.131 mg/L	17:27:55
1	Sb 206.836†	128.5	131.7	0.0159 mg/L	0.0159 mg/L	17:28:15
1	Se 196.026†	12.0	17.8	0.0198 mg/L	0.0198 mg/L	17:28:15
1	Sn 189.927†	3628.2	3571.7	0.8920 mg/L	0.8920 mg/L	17:28:15
1	Sr 407.771†	6051182.9	6224908.1	0.2656 mg/L	0.2656 mg/L	17:27:42
1	Ti 337.279†	2062122.5	2126322.0	2.694 mg/L	2.694 mg/L	17:27:49
1	Tl 190.801†	-40.1	-35.3	0.0386 mg/L	0.0386 mg/L	17:28:15
1	V 292.402†	280164.9	290276.2	1.040 mg/L	1.040 mg/L	17:27:55
1	Zn 213.857†	837082.2	861496.3	10.42 mg/L	10.42 mg/L	17:27:49
2	K 766.490†	7803.0	7309.0	4.496 mg/L	4.496 mg/L	17:27:29
2	Li 670.784†	2153.0	2112.2	0.0601 mg/L	0.0601 mg/L	17:27:29
2	Na 589.592	56815.5	49622.1	6.121 mg/L	6.121 mg/L	17:27:29
2	Y 371.029	3587304.6	3587304.6	0.977 mg/L		17:28:31
2	Ag 328.068†	309694.5	318418.5	1.072 mg/L	1.072 mg/L	17:28:37
2	Al 237.313†	468203.0	479327.8	50.13 mg/L	50.13 mg/L	17:28:31
2	As 188.979†	134.5	133.1	0.1551 mg/L	0.1551 mg/L	17:28:57
2	B 182.528†	-14.8	-11.2	-0.0212 mg/L	-0.0212 mg/L	17:28:57
2	Ba 233.527†	198505.3	203369.8	1.593 mg/L	1.593 mg/L	17:28:37
2	Be 313.107†	32914.7	31302.1	0.0044 mg/L	0.0044 mg/L	17:28:37
2	Ca 315.886†	3987135.4	4080275.8	26.36 mg/L	26.36 mg/L	17:28:31
2	Cd 228.802†	1563.0	1473.0	0.0346 mg/L	0.0346 mg/L	17:28:57
2	Co 228.616†	3057.1	3297.6	0.0758 mg/L	0.0758 mg/L	17:28:57
2	Cr 267.716†	370203.3	377802.3	2.291 mg/L	2.291 mg/L	17:28:31
2	Cu 324.752†	3938661.5	4029090.3	14.39 mg/L	14.39 mg/L	17:28:24
2	Fe 234.349†	6986111.9	7150151.6	130.2 mg/L	130.2 mg/L	17:28:24
2	Fe 238.204†	14779919.8	15128585.5	122.0 mg/L	122.0 mg/L	17:28:24
2	Mg 279.077†	324960.2	332093.6	12.26 mg/L	12.26 mg/L	17:28:37
2	Mn 257.610†	3185848.3	3259275.8	3.406 mg/L	3.406 mg/L	17:28:31
2	Mo 202.031†	492.2	480.6	0.0301 mg/L	0.0301 mg/L	17:28:57
2	Ni 231.604†	29322.1	29968.9	0.8706 mg/L	0.8706 mg/L	17:28:37
2	P 214.914†	22693.4	23210.3	15.62 mg/L	15.62 mg/L	17:28:37
2	Pb 220.353†	46792.2	48059.8	5.152 mg/L	5.152 mg/L	17:28:37
2	Sb 206.836†	149.7	152.6	0.0258 mg/L	0.0258 mg/L	17:28:57
2	Se 196.026†	8.2	13.8	0.0152 mg/L	0.0152 mg/L	17:28:57
2	Sn 189.927†	3651.8	3573.1	0.8923 mg/L	0.8923 mg/L	17:28:57
2	Sr 407.771†	6063886.4	6199990.0	0.2646 mg/L	0.2646 mg/L	17:28:24
2	Ti 337.279†	2073988.5	2125545.6	2.693 mg/L	2.693 mg/L	17:28:31
2	Tl 190.801†	-53.4	-48.7	0.0279 mg/L	0.0279 mg/L	17:28:57
2	V 292.402†	284944.2	293412.8	1.052 mg/L	1.052 mg/L	17:28:37
2	Zn 213.857†	840028.1	859266.0	10.40 mg/L	10.40 mg/L	17:28:31

Mean Data: 0606383-10

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3576390.6	0.974	mg/L	0.0042				0.43%
Ag 328.068†	318513.2	1.072	mg/L	0.0005	1.072	mg/L	0.0005	0.04%
Al 237.313†	480032.9	50.20	mg/L	0.103	50.20	mg/L	0.103	0.21%
As 188.979†	137.2	0.1601	mg/L	0.00707	0.1601	mg/L	0.00707	4.42%
B 182.528†	-8.0	-0.0149	mg/L	0.00893	-0.0149	mg/L	0.00893	59.85%
Ba 233.527†	202470.4	1.585	mg/L	0.0100	1.585	mg/L	0.0100	0.63%
Be 313.107†	31258.7	0.0044	mg/L	0.00001	0.0044	mg/L	0.00001	0.20%
Ca 315.886†	4092301.4	26.44	mg/L	0.110	26.44	mg/L	0.110	0.42%
Cd 228.802†	1488.2	0.0349	mg/L	0.00046	0.0349	mg/L	0.00046	1.33%
Co 228.616†	3300.8	0.0759	mg/L	0.00011	0.0759	mg/L	0.00011	0.15%
Cr 267.716†	377980.3	2.292	mg/L	0.0016	2.292	mg/L	0.0016	0.07%
Cu 324.752†	4040322.0	14.43	mg/L	0.057	14.43	mg/L	0.057	0.39%
Fe 234.349†	7169774.7	130.5	mg/L	0.51	130.5	mg/L	0.51	0.39%
Fe 238.204†	15175390.2	122.4	mg/L	0.53	122.4	mg/L	0.53	0.44%
K 766.490†	7352.8	4.522	mg/L	0.0374	4.522	mg/L	0.0374	0.83%
Li 670.784†	2115.4	0.0602	mg/L	0.00013	0.0602	mg/L	0.00013	0.22%

Mg 279.077†	330988.7	12.22 mg/L	0.058	12.22 mg/L	0.058	0.47%
Mn 257.610†	3264353.9	3.411 mg/L	0.0075	3.411 mg/L	0.0075	0.22%
Mo 202.031†	477.2	0.0299 mg/L	0.00031	0.0299 mg/L	0.00031	1.03%
Na 589.592	49851.3	6.150 mg/L	0.0403	6.150 mg/L	0.0403	0.66%
Ni 231.604†	29737.8	0.8639 mg/L	0.00952	0.8639 mg/L	0.00952	1.10%
P 214.914†	23160.2	15.58 mg/L	0.048	15.58 mg/L	0.048	0.31%
Pb 220.353†	47959.8	5.141 mg/L	0.0152	5.141 mg/L	0.0152	0.30%
Sb 206.836†	142.1	0.0209 mg/L	0.00699	0.0209 mg/L	0.00699	33.49%
Se 196.026†	15.8	0.0175 mg/L	0.00328	0.0175 mg/L	0.00328	18.73%
Sn 189.927†	3572.4	0.8921 mg/L	0.00023	0.8921 mg/L	0.00023	0.03%
Sr 407.771†	6212449.0	0.2651 mg/L	0.00075	0.2651 mg/L	0.00075	0.28%
Ti 337.279†	2125933.8	2.693 mg/L	0.0007	2.693 mg/L	0.0007	0.03%
Tl 190.801†	-42.0	0.0333 mg/L	0.00756	0.0333 mg/L	0.00756	22.72%
V 292.402†	291844.5	1.046 mg/L	0.0082	1.046 mg/L	0.0082	0.78%
Zn 213.857†	860381.2	10.41 mg/L	0.019	10.41 mg/L	0.019	0.18%

Sequence No.: 31
Sample ID: 0606383-11
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 6/26/2006 5:30:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606383-11

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1328.7	721.6	0.5258	mg/L	0.5258	mg/L	17:32:13
1	Li 670.784†	262.1	184.6	0.0025	mg/L	0.0025	mg/L	17:32:13
1	Na 589.592	53397.5	46204.1	5.696	mg/L	5.696	mg/L	17:32:13
1	Y 371.029	3484456.4	3484456.4	0.949	mg/L			17:32:29
1	Ag 328.068†	418.5	1835.9	0.0080	mg/L	0.0080	mg/L	17:32:35
1	Al 237.313†	58894.0	62111.7	6.373	mg/L	6.373	mg/L	17:32:35
1	As 188.979†	175.6	180.5	0.2161	mg/L	0.2161	mg/L	17:32:55
1	B 182.528†	-1.5	2.4	0.0061	mg/L	0.0061	mg/L	17:32:55
1	Ba 233.527†	22324.3	23693.9	0.1847	mg/L	0.1847	mg/L	17:32:35
1	Be 313.107†	7304.4	5306.4	0.0009	mg/L	0.0009	mg/L	17:32:35
1	Ca 315.886†	4060728.4	4278304.6	27.64	mg/L	27.64	mg/L	17:32:29
1	Cd 228.802†	442.9	339.8	0.0070	mg/L	0.0070	mg/L	17:32:55
1	Co 228.616†	2856.4	3178.4	0.0781	mg/L	0.0781	mg/L	17:32:55
1	Cr 267.716†	8232.3	7513.7	0.0421	mg/L	0.0421	mg/L	17:32:35
1	Cu 324.752†	30829.7	29708.0	0.1121	mg/L	0.1121	mg/L	17:32:35
1	Fe 234.349†	2114277.4	2226903.8	40.54	mg/L	40.54	mg/L	17:32:29
1	Fe 238.204†	4704835.6	4957222.3	39.97	mg/L	39.97	mg/L	17:32:29
1	Mg 279.077†	56560.6	59051.0	2.217	mg/L	2.217	mg/L	17:32:35
1	Mn 257.610†	5969355.3	6289019.6	6.574	mg/L	6.574	mg/L	17:32:29
1	Mo 202.031†	455.2	456.4	0.0286	mg/L	0.0286	mg/L	17:32:55
1	Ni 231.604†	3387.6	3522.9	0.1000	mg/L	0.1000	mg/L	17:32:55
1	P 214.914†	5002.0	5251.4	3.544	mg/L	3.544	mg/L	17:32:55
1	Pb 220.353†	366.8	546.8	0.0569	mg/L	0.0569	mg/L	17:32:55
1	Sb 206.836†	-0.1	-0.7	-0.0025	mg/L	-0.0025	mg/L	17:32:55
1	Se 196.026†	4.6	10.2	0.0111	mg/L	0.0111	mg/L	17:32:55
1	Sn 189.927†	278.7	128.6	0.0256	mg/L	0.0256	mg/L	17:32:55
1	Sr 407.771†	2969045.7	3121616.6	0.1331	mg/L	0.1331	mg/L	17:32:29
1	Ti 337.279†	240419.7	255848.3	0.3242	mg/L	0.3242	mg/L	17:32:35
1	Tl 190.801†	-105.3	-105.1	0.0467	mg/L	0.0467	mg/L	17:32:55
1	V 292.402†	5907.5	7951.0	0.0239	mg/L	0.0239	mg/L	17:32:35
1	Zn 213.857†	14124.0	14242.9	0.1673	mg/L	0.1673	mg/L	17:32:35
2	K 766.490†	1351.9	748.9	0.5422	mg/L	0.5422	mg/L	17:32:18
2	Li 670.784†	220.5	141.2	0.0012	mg/L	0.0012	mg/L	17:32:18
2	Na 589.592	53350.7	46157.2	5.690	mg/L	5.690	mg/L	17:32:18
2	Y 371.029	3477344.7	3477344.7	0.947	mg/L			17:33:04
2	Ag 328.068†	337.7	1751.4	0.0077	mg/L	0.0077	mg/L	17:33:09
2	Al 237.313†	59291.1	62658.0	6.432	mg/L	6.432	mg/L	17:33:09
2	As 188.979†	176.5	181.7	0.2177	mg/L	0.2177	mg/L	17:33:29
2	B 182.528†	0.1	4.1	0.0096	mg/L	0.0096	mg/L	17:33:29
2	Ba 233.527†	22348.5	23767.6	0.1853	mg/L	0.1853	mg/L	17:33:09
2	Be 313.107†	7127.6	5135.5	0.0009	mg/L	0.0009	mg/L	17:33:09
2	Ca 315.886†	4033880.6	4258704.5	27.51	mg/L	27.51	mg/L	17:33:04
2	Cd 228.802†	441.5	339.3	0.0070	mg/L	0.0070	mg/L	17:33:29
2	Co 228.616†	2855.8	3184.0	0.0782	mg/L	0.0782	mg/L	17:33:29
2	Cr 267.716†	8292.8	7595.4	0.0426	mg/L	0.0426	mg/L	17:33:09

2	Cu 324.752†	30703.6	29641.2	0.1118 mg/L	0.1118 mg/L	17:33:09
2	Fe 234.349†	2098756.5	2215070.2	40.32 mg/L	40.32 mg/L	17:33:04
2	Fe 238.204†	4670093.0	4930673.3	39.75 mg/L	39.75 mg/L	17:33:04
2	Mg 279.077†	56542.4	59153.7	2.221 mg/L	2.221 mg/L	17:33:09
2	Mn 257.610†	5937762.0	6268521.9	6.553 mg/L	6.553 mg/L	17:33:04
2	Mo 202.031†	459.9	462.4	0.0290 mg/L	0.0290 mg/L	17:33:29
2	Ni 231.604†	3395.1	3538.1	0.1005 mg/L	0.1005 mg/L	17:33:29
2	P 214.914†	4984.2	5243.4	3.539 mg/L	3.539 mg/L	17:33:29
2	Pb 220.353†	338.9	518.1	0.0538 mg/L	0.0538 mg/L	17:33:29
2	Sb 206.836†	3.2	2.7	-0.0009 mg/L	-0.0009 mg/L	17:33:29
2	Se 196.026†	-1.9	3.4	0.0033 mg/L	0.0033 mg/L	17:33:29
2	Sn 189.927†	284.8	135.7	0.0274 mg/L	0.0274 mg/L	17:33:29
2	Sr 407.771†	2962246.8	3120836.0	0.1330 mg/L	0.1330 mg/L	17:33:04
2	Ti 337.279†	241468.0	257473.5	0.3263 mg/L	0.3263 mg/L	17:33:09
2	Tl 190.801†	-92.5	-91.8	0.0567 mg/L	0.0567 mg/L	17:33:29
2	V 292.402†	6126.2	8194.7	0.0248 mg/L	0.0248 mg/L	17:33:09
2	Zn 213.857†	14163.6	14315.3	0.1681 mg/L	0.1681 mg/L	17:33:09

Mean Data: 0606383-11

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3480900.6	0.948	mg/L	0.0014				0.14%
Ag 328.068†	1793.7	0.0079	mg/L	0.00021	0.0079	mg/L	0.00021	2.61%
Al 237.313†	62384.9	6.403	mg/L	0.0416	6.403	mg/L	0.0416	0.65%
As 188.979†	181.1	0.2169	mg/L	0.00107	0.2169	mg/L	0.00107	0.49%
B 182.528†	3.3	0.0079	mg/L	0.00246	0.0079	mg/L	0.00246	31.34%
Ba 233.527†	23730.7	0.1850	mg/L	0.00041	0.1850	mg/L	0.00041	0.22%
Be 313.107†	5221.0	0.0009	mg/L	0.00003	0.0009	mg/L	0.00003	2.84%
Ca 315.886†	4268504.6	27.57	mg/L	0.090	27.57	mg/L	0.090	0.32%
Cd 228.802†	339.6	0.0070	mg/L	0.00001	0.0070	mg/L	0.00001	0.20%
Co 228.616†	3181.2	0.0781	mg/L	0.00010	0.0781	mg/L	0.00010	0.12%
Cr 267.716†	7554.6	0.0424	mg/L	0.00035	0.0424	mg/L	0.00035	0.83%
Cu 324.752†	29674.6	0.1120	mg/L	0.00019	0.1120	mg/L	0.00019	0.17%
Fe 234.349†	2220987.0	40.43	mg/L	0.152	40.43	mg/L	0.152	0.38%
Fe 238.204†	4943947.8	39.86	mg/L	0.151	39.86	mg/L	0.151	0.38%
K 766.490†	735.3	0.5340	mg/L	0.01163	0.5340	mg/L	0.01163	2.18%
Li 670.784†	162.9	0.0018	mg/L	0.00092	0.0018	mg/L	0.00092	49.75%
Mg 279.077†	59102.4	2.219	mg/L	0.0026	2.219	mg/L	0.0026	0.12%
Mn 257.610†	6278770.8	6.563	mg/L	0.0152	6.563	mg/L	0.0152	0.23%
Mo 202.031†	459.4	0.0288	mg/L	0.00027	0.0288	mg/L	0.00027	0.95%
Na 589.592	46180.7	5.693	mg/L	0.0041	5.693	mg/L	0.0041	0.07%
Ni 231.604†	3530.5	0.1003	mg/L	0.00031	0.1003	mg/L	0.00031	0.31%
P 214.914†	5247.4	3.541	mg/L	0.0038	3.541	mg/L	0.0038	0.11%
Pb 220.353†	532.5	0.0553	mg/L	0.00216	0.0553	mg/L	0.00216	3.90%
Sb 206.836†	1.0	-0.0017	mg/L	0.00114	-0.0017	mg/L	0.00114	68.28%
Se 196.026†	6.8	0.0072	mg/L	0.00555	0.0072	mg/L	0.00555	77.07%
Sn 189.927†	132.2	0.0265	mg/L	0.00125	0.0265	mg/L	0.00125	4.73%
Sr 407.771†	3121226.3	0.1331	mg/L	0.00002	0.1331	mg/L	0.00002	0.02%
Ti 337.279†	256660.9	0.3252	mg/L	0.00146	0.3252	mg/L	0.00146	0.45%
Tl 190.801†	-98.4	0.0517	mg/L	0.00708	0.0517	mg/L	0.00708	13.71%
V 292.402†	8072.8	0.0243	mg/L	0.00065	0.0243	mg/L	0.00065	2.68%
Zn 213.857†	14279.1	0.1677	mg/L	0.00063	0.1677	mg/L	0.00063	0.38%

Sequence No.: 32
Sample ID: BF62617-DUP1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 6/26/2006 5:35:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62617-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1346.1	756.0	0.5465	mg/L	0.5465	mg/L	17:36:46
1	Li 670.784†	293.1	220.7	0.0036	mg/L	0.0036	mg/L	17:36:46
1	Na 589.592	51426.5	44233.1	5.451	mg/L	5.451	mg/L	17:36:46
1	Y 371.029	3445412.1	3445412.1	0.938	mg/L			17:37:03
1	Ag 328.068†	2535.4	4097.1	0.0155	mg/L	0.0155	mg/L	17:37:08
1	Al 237.313†	72433.9	77246.2	7.987	mg/L	7.987	mg/L	17:37:08
1	As 188.979†	165.9	172.2	0.2060	mg/L	0.2060	mg/L	17:37:29

1	B 182.528†	-0.1	3.8	0.0090 mg/L	0.0090 mg/L	17:37:29
1	Ba 233.527†	22005.6	23620.9	0.1842 mg/L	0.1842 mg/L	17:37:08
1	Be 313.107†	7520.2	5623.7	0.0009 mg/L	0.0009 mg/L	17:37:08
1	Ca 315.886†	3442071.3	3667421.9	23.69 mg/L	23.69 mg/L	17:37:03
1	Cd 228.802†	434.5	336.1	0.0069 mg/L	0.0069 mg/L	17:37:29
1	Co 228.616†	2244.0	2559.8	0.0623 mg/L	0.0623 mg/L	17:37:29
1	Cr 267.716†	9945.4	9437.9	0.0541 mg/L	0.0541 mg/L	17:37:08
1	Cu 324.752†	49883.6	50384.2	0.1855 mg/L	0.1855 mg/L	17:37:08
1	Fe 234.349†	1963359.6	2091302.5	38.07 mg/L	38.07 mg/L	17:37:03
1	Fe 238.204†	4380116.3	4667317.8	37.63 mg/L	37.63 mg/L	17:37:03
1	Mg 279.077†	57407.1	60628.8	2.269 mg/L	2.269 mg/L	17:37:08
1	Mn 257.610†	5241790.5	5584855.0	5.838 mg/L	5.838 mg/L	17:37:03
1	Mo 202.031†	392.0	394.6	0.0246 mg/L	0.0246 mg/L	17:37:29
1	Ni 231.604†	3099.6	3256.4	0.0923 mg/L	0.0923 mg/L	17:37:29
1	P 214.914†	5091.7	5406.7	3.648 mg/L	3.648 mg/L	17:37:29
1	Pb 220.353†	554.2	750.8	0.0792 mg/L	0.0792 mg/L	17:37:29
1	Sb 206.836†	0.0	-0.6	-0.0027 mg/L	-0.0027 mg/L	17:37:29
1	Se 196.026†	5.9	11.7	0.0128 mg/L	0.0128 mg/L	17:37:29
1	Sn 189.927†	285.0	138.7	0.0281 mg/L	0.0281 mg/L	17:37:29
1	Sr 407.771†	2604338.2	2768361.6	0.1180 mg/L	0.1180 mg/L	17:37:03
1	Ti 337.279†	326274.5	350225.6	0.4437 mg/L	0.4437 mg/L	17:37:08
1	Tl 190.801†	-86.8	-86.5	0.0484 mg/L	0.0484 mg/L	17:37:29
1	V 292.402†	7404.7	9617.3	0.0300 mg/L	0.0300 mg/L	17:37:08
1	Zn 213.857†	15940.1	16347.3	0.1931 mg/L	0.1931 mg/L	17:37:08
2	K 766.490†	1418.1	823.0	0.5869 mg/L	0.5869 mg/L	17:36:52
2	Li 670.784†	314.5	241.3	0.0042 mg/L	0.0042 mg/L	17:36:52
2	Na 589.592	51551.5	44358.1	5.466 mg/L	5.466 mg/L	17:36:52
2	Y 371.029	3467818.9	3467818.9	0.944 mg/L		17:37:37
2	Ag 328.068†	2605.8	4154.2	0.0157 mg/L	0.0157 mg/L	17:37:43
2	Al 237.313†	71627.3	75893.2	7.844 mg/L	7.844 mg/L	17:37:43
2	As 188.979†	169.5	174.9	0.2092 mg/L	0.2092 mg/L	17:38:03
2	B 182.528†	2.9	7.0	0.0154 mg/L	0.0154 mg/L	17:38:03
2	Ba 233.527†	21796.3	23247.7	0.1812 mg/L	0.1812 mg/L	17:37:43
2	Be 313.107†	7527.1	5579.2	0.0009 mg/L	0.0009 mg/L	17:37:43
2	Ca 315.886†	3459320.6	3661983.5	23.66 mg/L	23.66 mg/L	17:37:37
2	Cd 228.802†	437.4	336.3	0.0069 mg/L	0.0069 mg/L	17:38:03
2	Co 228.616†	2251.7	2552.5	0.0621 mg/L	0.0621 mg/L	17:38:03
2	Cr 267.716†	9943.9	9367.8	0.0537 mg/L	0.0537 mg/L	17:37:43
2	Cu 324.752†	49303.9	49426.9	0.1821 mg/L	0.1821 mg/L	17:37:43
2	Fe 234.349†	1976590.6	2091792.3	38.08 mg/L	38.08 mg/L	17:37:37
2	Fe 238.204†	4408980.5	4667718.8	37.63 mg/L	37.63 mg/L	17:37:37
2	Mg 279.077†	56433.3	59202.2	2.216 mg/L	2.216 mg/L	17:37:43
2	Mn 257.610†	5274539.3	5583435.5	5.836 mg/L	5.836 mg/L	17:37:37
2	Mo 202.031†	394.7	394.7	0.0246 mg/L	0.0246 mg/L	17:38:03
2	Ni 231.604†	3072.9	3206.8	0.0908 mg/L	0.0908 mg/L	17:38:03
2	P 214.914†	5067.9	5346.5	3.608 mg/L	3.608 mg/L	17:38:03
2	Pb 220.353†	549.5	742.1	0.0782 mg/L	0.0782 mg/L	17:38:03
2	Sb 206.836†	8.3	8.2	0.0014 mg/L	0.0014 mg/L	17:38:03
2	Se 196.026†	0.2	5.6	0.0058 mg/L	0.0058 mg/L	17:38:03
2	Sn 189.927†	290.7	142.8	0.0291 mg/L	0.0291 mg/L	17:38:03
2	Sr 407.771†	2622453.8	2769609.6	0.1180 mg/L	0.1180 mg/L	17:37:37
2	Ti 337.279†	323009.2	344520.9	0.4365 mg/L	0.4365 mg/L	17:37:43
2	Tl 190.801†	-88.5	-87.7	0.0474 mg/L	0.0474 mg/L	17:38:03
2	V 292.402†	7285.1	9439.7	0.0294 mg/L	0.0294 mg/L	17:37:43
2	Zn 213.857†	15770.4	16057.8	0.1896 mg/L	0.1896 mg/L	17:37:43

Mean Data: BF62617-DUP1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3456615.5	0.941	mg/L	0.0043				0.46%
Ag 328.068†	4125.6	0.0156	mg/L	0.00014	0.0156	mg/L	0.00014	0.87%
Al 237.313†	76569.7	7.916	mg/L	0.1012	7.916	mg/L	0.1012	1.28%
As 188.979†	173.5	0.2076	mg/L	0.00227	0.2076	mg/L	0.00227	1.09%
B 182.528†	5.4	0.0122	mg/L	0.00451	0.0122	mg/L	0.00451	36.87%
Ba 233.527†	23434.3	0.1827	mg/L	0.00207	0.1827	mg/L	0.00207	1.13%
Be 313.107†	5601.4	0.0009	mg/L	0.00000	0.0009	mg/L	0.00000	0.06%
Ca 315.886†	3664702.7	23.67	mg/L	0.025	23.67	mg/L	0.025	0.10%
Cd 228.802†	336.2	0.0069	mg/L	0.00001	0.0069	mg/L	0.00001	0.17%
Co 228.616†	2556.1	0.0622	mg/L	0.00012	0.0622	mg/L	0.00012	0.19%
Cr 267.716†	9402.9	0.0539	mg/L	0.00030	0.0539	mg/L	0.00030	0.55%
Cu 324.752†	49905.6	0.1838	mg/L	0.00242	0.1838	mg/L	0.00242	1.32%

Fe 234.349†	2091547.4	38.07 mg/L	0.006	38.07 mg/L	0.006	0.02%
Fe 238.204†	4667518.3	37.63 mg/L	0.002	37.63 mg/L	0.002	0.01%
K 766.490†	789.5	0.5667 mg/L	0.02856	0.5667 mg/L	0.02856	5.04%
Li 670.784†	231.0	0.0039 mg/L	0.00044	0.0039 mg/L	0.00044	11.25%
Mg 279.077†	59915.5	2.243 mg/L	0.0374	2.243 mg/L	0.0374	1.67%
Mn 257.610†	5584145.3	5.837 mg/L	0.0010	5.837 mg/L	0.0010	0.02%
Mo 202.031†	394.6	0.0246 mg/L	0.00001	0.0246 mg/L	0.00001	0.02%
Na 589.592	44295.6	5.459 mg/L	0.0110	5.459 mg/L	0.0110	0.20%
Ni 231.604†	3231.6	0.0915 mg/L	0.00102	0.0915 mg/L	0.00102	1.12%
P 214.914†	5376.6	3.628 mg/L	0.0286	3.628 mg/L	0.0286	0.79%
Pb 220.353†	746.5	0.0787 mg/L	0.00068	0.0787 mg/L	0.00068	0.87%
Sb 206.836†	3.8	-0.0007 mg/L	0.00291	-0.0007 mg/L	0.00291	428.46%
Se 196.026†	8.7	0.0093 mg/L	0.00496	0.0093 mg/L	0.00496	53.17%
Sn 189.927†	140.7	0.0286 mg/L	0.00071	0.0286 mg/L	0.00071	2.48%
Sr 407.771†	2768985.6	0.1180 mg/L	0.00004	0.1180 mg/L	0.00004	0.03%
Ti 337.279†	347373.2	0.4401 mg/L	0.00511	0.4401 mg/L	0.00511	1.16%
Tl 190.801†	-87.1	0.0479 mg/L	0.00068	0.0479 mg/L	0.00068	1.42%
V 292.402†	9528.5	0.0297 mg/L	0.00045	0.0297 mg/L	0.00045	1.53%
Zn 213.857†	16202.6	0.1913 mg/L	0.00248	0.1913 mg/L	0.00248	1.29%

Duplicate Check: BF62617-DUP1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	0.5340	0.5667	0.029	mg/L	5.9
Li 670.784	0.0018	0.0039	0.000	mg/L	71.2
Na 589.592	5.693	5.459	0.011	mg/L	4.2
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.0079	0.0156	0.000	mg/L	65.7
Al 237.313	6.403	7.916	0.101	mg/L	21.1
As 188.979	0.2169	0.2076	0.002	mg/L	4.4
B 182.528	0.0079	0.0122	0.005	mg/L	43.4
Ba 233.527	0.1850	0.1827	0.002	mg/L	1.3
Be 313.107	0.0009	0.0009	0.000	mg/L	7.3
Ca 315.886	27.57	23.67	0.025	mg/L	15.2
Cd 228.802	0.0070	0.0069	0.000	mg/L	1.8
Co 228.616	0.0781	0.0622	0.000	mg/L	22.7
Cr 267.716	0.0424	0.0539	0.000	mg/L	23.9
Cu 324.752	0.1120	0.1838	0.002	mg/L	48.6
Fe 234.349	40.43	38.07	0.006	mg/L	6.0
Fe 238.204	39.86	37.63	0.002	mg/L	5.8
Mg 279.077	2.219	2.243	0.037	mg/L	1.1
Mn 257.610	6.563	5.837	0.001	mg/L	11.7
Mo 202.031	0.0288	0.0246	0.000	mg/L	15.6
Ni 231.604	0.1003	0.0915	0.001	mg/L	9.1
P 214.914	3.541	3.628	0.029	mg/L	2.4
Pb 220.353	0.0553	0.0787	0.001	mg/L	34.8
Sb 206.836	-0.0017	-0.0007	0.003	mg/L	-84.2
Se 196.026	0.0072	0.0093	0.005	mg/L	25.9
Sn 189.927	0.0265	0.0286	0.001	mg/L	7.9
Sr 407.771	0.1331	0.1180	0.000	mg/L	12.0
Ti 337.279	0.3252	0.4401	0.005	mg/L	30.0
Tl 190.801	0.0517	0.0479	0.001	mg/L	7.6
V 292.402	0.0243	0.0297	0.000	mg/L	20.0
Zn 213.857	0.1677	0.1913	0.002	mg/L	13.2

Sequence No.: 33
Sample ID: BF62617-MS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 6/26/2006 5:39:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62617-MS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	35634.6	38113.1	23.06	mg/L	23.06	mg/L	17:41:13
1	Li 670.784†	14629.0	15833.4	0.4702	mg/L	0.4702	mg/L	17:41:13
1	Na 589.592	226008.1	218814.7	27.17	mg/L	27.17	mg/L	17:41:13
1	Y 371.029	3373330.3	3373330.3	0.919	mg/L			17:41:36
1	Ag 328.068†	61355.7	68186.5	0.2305	mg/L	0.2305	mg/L	17:41:42

1	Al 237.313†	64284.8	70024.8	7.220 mg/L	7.220 mg/L	17:41:42
1	As 188.979†	463.2	499.6	0.6018 mg/L	0.6018 mg/L	17:42:02
1	B 182.528†	188.2	208.9	0.4221 mg/L	0.4221 mg/L	17:42:02
1	Ba 233.527†	71844.1	78376.1	0.6133 mg/L	0.6133 mg/L	17:41:42
1	Be 313.107†	218027.8	234953.1	0.0455 mg/L	0.0455 mg/L	17:41:42
1	Ca 315.886†	4134447.1	4499532.9	29.07 mg/L	29.07 mg/L	17:41:36
1	Cd 228.802†	8885.0	9545.3	0.2229 mg/L	0.2229 mg/L	17:42:02
1	Co 228.616†	19181.7	21049.2	0.5252 mg/L	0.5252 mg/L	17:41:42
1	Cr 267.716†	78002.6	83751.4	0.5034 mg/L	0.5034 mg/L	17:41:42
1	Cu 324.752†	149160.5	159592.9	0.5751 mg/L	0.5751 mg/L	17:41:42
1	Fe 234.349†	1971718.5	2145116.9	39.04 mg/L	39.04 mg/L	17:41:36
1	Fe 238.204†	4397400.7	4785889.3	38.58 mg/L	38.58 mg/L	17:41:36
1	Mg 279.077†	153283.3	166306.9	6.187 mg/L	6.187 mg/L	17:41:42
1	Mn 257.610†	5630881.3	6127798.6	6.406 mg/L	6.406 mg/L	17:41:30
1	Mo 202.031†	6922.1	7512.2	0.4832 mg/L	0.4832 mg/L	17:42:02
1	Ni 231.604†	17163.3	18636.8	0.5410 mg/L	0.5410 mg/L	17:41:42
1	P 214.914†	10381.7	11281.4	7.598 mg/L	7.598 mg/L	17:42:02
1	Pb 220.353†	4117.8	4642.8	0.4972 mg/L	0.4972 mg/L	17:42:02
1	Sb 206.836†	773.1	841.0	0.3822 mg/L	0.3822 mg/L	17:42:02
1	Se 196.026†	656.1	719.6	0.8274 mg/L	0.8274 mg/L	17:42:02
1	Sn 189.927†	1939.3	1946.0	0.4799 mg/L	0.4799 mg/L	17:42:02
1	Sr 407.771†	3580786.9	3890634.8	0.1659 mg/L	0.1659 mg/L	17:41:30
1	Ti 337.279†	452965.8	495572.3	0.6279 mg/L	0.6279 mg/L	17:41:36
1	Tl 190.801†	452.3	498.4	0.5101 mg/L	0.5101 mg/L	17:42:02
1	V 292.402†	119869.7	132215.1	0.4855 mg/L	0.4855 mg/L	17:41:42
1	Zn 213.857†	44351.1	47638.5	0.5700 mg/L	0.5700 mg/L	17:41:42
2	K 766.490†	35479.1	37936.7	22.96 mg/L	22.96 mg/L	17:41:18
2	Li 670.784†	14577.6	15774.5	0.4684 mg/L	0.4684 mg/L	17:41:18
2	Na 589.592	224099.1	216905.7	26.93 mg/L	26.93 mg/L	17:41:18
2	Y 371.029	3373956.2	3373956.2	0.919 mg/L		17:42:17
2	Ag 328.068†	62109.0	68994.0	0.2332 mg/L	0.2332 mg/L	17:42:22
2	Al 237.313†	64663.9	70424.4	7.263 mg/L	7.263 mg/L	17:42:22
2	As 188.979†	462.2	498.5	0.6005 mg/L	0.6005 mg/L	17:42:43
2	B 182.528†	186.6	207.1	0.4185 mg/L	0.4185 mg/L	17:42:43
2	Ba 233.527†	72212.8	78762.9	0.6164 mg/L	0.6164 mg/L	17:42:22
2	Be 313.107†	219189.2	236173.1	0.0458 mg/L	0.0458 mg/L	17:42:22
2	Ca 315.886†	4129946.9	4493800.1	29.03 mg/L	29.03 mg/L	17:42:17
2	Cd 228.802†	8843.1	9497.8	0.2218 mg/L	0.2218 mg/L	17:42:43
2	Co 228.616†	19270.1	21141.6	0.5275 mg/L	0.5275 mg/L	17:42:22
2	Cr 267.716†	78396.3	84164.1	0.5059 mg/L	0.5059 mg/L	17:42:22
2	Cu 324.752†	151166.8	161746.5	0.5828 mg/L	0.5828 mg/L	17:42:22
2	Fe 234.349†	1968334.4	2141035.4	38.97 mg/L	38.97 mg/L	17:42:17
2	Fe 238.204†	4395172.3	4782575.9	38.56 mg/L	38.56 mg/L	17:42:17
2	Mg 279.077†	153910.7	166958.7	6.211 mg/L	6.211 mg/L	17:42:22
2	Mn 257.610†	5585179.1	6076919.4	6.352 mg/L	6.352 mg/L	17:42:11
2	Mo 202.031†	6863.5	7447.0	0.4790 mg/L	0.4790 mg/L	17:42:43
2	Ni 231.604†	17502.9	19002.8	0.5517 mg/L	0.5517 mg/L	17:42:22
2	P 214.914†	10320.7	11212.9	7.552 mg/L	7.552 mg/L	17:42:43
2	Pb 220.353†	4103.1	4626.1	0.4954 mg/L	0.4954 mg/L	17:42:43
2	Sb 206.836†	774.4	842.2	0.3828 mg/L	0.3828 mg/L	17:42:43
2	Se 196.026†	651.2	714.1	0.8211 mg/L	0.8211 mg/L	17:42:43
2	Sn 189.927†	1935.7	1941.7	0.4789 mg/L	0.4789 mg/L	17:42:43
2	Sr 407.771†	3560811.8	3868170.9	0.1650 mg/L	0.1650 mg/L	17:42:11
2	Ti 337.279†	452848.5	495353.1	0.6276 mg/L	0.6276 mg/L	17:42:17
2	Tl 190.801†	450.6	496.4	0.5076 mg/L	0.5076 mg/L	17:42:43
2	V 292.402†	120559.4	132941.6	0.4881 mg/L	0.4881 mg/L	17:42:22
2	Zn 213.857†	44672.4	47979.2	0.5741 mg/L	0.5741 mg/L	17:42:22

Mean Data: BF62617-MS1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3373643.3	0.919	mg/L	0.0001				0.01%
Ag 328.068†	68590.3	0.2318	mg/L	0.00191	0.2318	mg/L	0.00191	0.82%
Al 237.313†	70224.6	7.242	mg/L	0.0302	7.242	mg/L	0.0302	0.42%
As 188.979†	499.0	0.6011	mg/L	0.00097	0.6011	mg/L	0.00097	0.16%
B 182.528†	208.0	0.4203	mg/L	0.00258	0.4203	mg/L	0.00258	0.61%
Ba 233.527†	78569.5	0.6148	mg/L	0.00214	0.6148	mg/L	0.00214	0.35%
Be 313.107†	235563.1	0.0456	mg/L	0.00017	0.0456	mg/L	0.00017	0.37%
Ca 315.886†	4496666.5	29.05	mg/L	0.026	29.05	mg/L	0.026	0.09%
Cd 228.802†	9521.6	0.2223	mg/L	0.00077	0.2223	mg/L	0.00077	0.35%
Co 228.616†	21095.4	0.5264	mg/L	0.00164	0.5264	mg/L	0.00164	0.31%

Cr 267.716†	83957.7	0.5046 mg/L	0.00179	0.5046 mg/L	0.00179	0.35%
Cu 324.752†	160669.7	0.5789 mg/L	0.00542	0.5789 mg/L	0.00542	0.94%
Fe 234.349†	2143076.2	39.01 mg/L	0.053	39.01 mg/L	0.053	0.13%
Fe 238.204†	4784232.6	38.57 mg/L	0.019	38.57 mg/L	0.019	0.05%
K 766.490†	38024.9	23.01 mg/L	0.075	23.01 mg/L	0.075	0.33%
Li 670.784†	15803.9	0.4693 mg/L	0.00124	0.4693 mg/L	0.00124	0.27%
Mg 279.077†	166632.8	6.199 mg/L	0.0167	6.199 mg/L	0.0167	0.27%
Mn 257.610†	6102359.0	6.379 mg/L	0.0376	6.379 mg/L	0.0376	0.59%
Mo 202.031†	7479.6	0.4811 mg/L	0.00297	0.4811 mg/L	0.00297	0.62%
Na 589.592	217860.2	27.05 mg/L	0.168	27.05 mg/L	0.168	0.62%
Ni 231.604†	18819.8	0.5463 mg/L	0.00754	0.5463 mg/L	0.00754	1.38%
P 214.914†	11247.1	7.575 mg/L	0.0325	7.575 mg/L	0.0325	0.43%
Pb 220.353†	4634.4	0.4963 mg/L	0.00128	0.4963 mg/L	0.00128	0.26%
Sb 206.836†	841.6	0.3825 mg/L	0.00041	0.3825 mg/L	0.00041	0.11%
Se 196.026†	716.9	0.8243 mg/L	0.00447	0.8243 mg/L	0.00447	0.54%
Sn 189.927†	1943.9	0.4794 mg/L	0.00075	0.4794 mg/L	0.00075	0.16%
Sr 407.771†	3879402.8	0.1654 mg/L	0.00068	0.1654 mg/L	0.00068	0.41%
Ti 337.279†	495462.7	0.6277 mg/L	0.00020	0.6277 mg/L	0.00020	0.03%
Tl 190.801†	497.4	0.5089 mg/L	0.00176	0.5089 mg/L	0.00176	0.35%
V 292.402†	132578.3	0.4868 mg/L	0.00183	0.4868 mg/L	0.00183	0.38%
Zn 213.857†	47808.8	0.5720 mg/L	0.00288	0.5720 mg/L	0.00288	0.50%

Matrix Recovery Check: BF62617-MS1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	25.53	23.01	0.075	mg/L	89.9
Li 670.784	0.5018	0.4693	0.001	mg/L	93.5
Na 589.592	30.69	27.05	0.168	mg/L	85.4
Ag 328.068	0.2579	0.2318	0.002	mg/L	89.6
Al 237.313	8.903	7.242	0.030	mg/L	33.6
As 188.979	0.7169	0.6011	0.001	mg/L	76.8
B 182.528	0.5079	0.4203	0.003	mg/L	82.5
Ba 233.527	0.6850	0.6148	0.002	mg/L	86.0
Be 313.107	0.0509	0.0456	0.000	mg/L	89.4
Ca 315.886	32.57	29.05	0.026	mg/L	29.5
Cd 228.802	0.2570	0.2223	0.001	mg/L	86.1
Co 228.616	0.5781	0.5264	0.002	mg/L	89.6
Cr 267.716	0.5424	0.5046	0.002	mg/L	92.5
Cu 324.752	0.6120	0.5789	0.005	mg/L	93.4
Fe 234.349	42.93	39.01	0.053	mg/L	-56.9
Fe 238.204	42.36	38.57	0.019	mg/L	-51.5
Mg 279.077	7.219	6.199	0.017	mg/L	79.6
Mn 257.610	7.063	6.379	0.038	mg/L	-36.9
Mo 202.031	0.5288	0.4811	0.003	mg/L	90.5
Ni 231.604	0.6003	0.5463	0.008	mg/L	89.2
P 214.914	8.541	7.575	0.033	mg/L	80.7
Pb 220.353	0.5553	0.4963	0.001	mg/L	88.2
Sb 206.836	0.4983	0.3825	0.000	mg/L	76.8
Se 196.026	1.007	0.8243	0.004	mg/L	81.7
Sn 189.927	0.5265	0.4794	0.001	mg/L	90.6
Sr 407.771	0.1831	0.1654	0.001	mg/L	64.8
Ti 337.279	0.8252	0.6277	0.000	mg/L	60.5
Tl 190.801	0.5517	0.5089	0.002	mg/L	91.4
V 292.402	0.5243	0.4868	0.002	mg/L	92.5
Zn 213.857	0.6677	0.5720	0.003	mg/L	80.9

Sequence No.: 34
Sample ID: BF62617-MSD1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 6/26/2006 5:44:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62617-MSD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	36391.9	38937.6	23.56	mg/L	23.56	mg/L	17:45:53
1	Li 670.784†	15226.5	16483.9	0.4896	mg/L	0.4896	mg/L	17:45:53
1	Na 589.592	231448.9	224255.5	27.85	mg/L	27.85	mg/L	17:45:53
1	Y 371.029	3373319.0	3373319.0	0.919	mg/L			17:46:17

1	Ag 328.068†	63116.4	70103.4	0.2372 mg/L	0.2372 mg/L	17:46:23
1	Al 237.313†	77666.9	84592.8	8.735 mg/L	8.735 mg/L	17:46:23
1	As 188.979†	503.2	543.2	0.6545 mg/L	0.6545 mg/L	17:46:43
1	B 182.528†	194.9	216.1	0.4367 mg/L	0.4367 mg/L	17:46:43
1	Ba 233.527†	75195.4	82024.6	0.6419 mg/L	0.6419 mg/L	17:46:23
1	Be 313.107†	222368.5	239679.2	0.0464 mg/L	0.0464 mg/L	17:46:17
1	Ca 315.886†	4285925.7	4664447.9	30.13 mg/L	30.13 mg/L	17:46:17
1	Cd 228.802†	9160.3	9845.0	0.2298 mg/L	0.2298 mg/L	17:46:43
1	Co 228.616†	20408.4	22384.7	0.5584 mg/L	0.5584 mg/L	17:46:23
1	Cr 267.716†	80731.6	86722.5	0.5216 mg/L	0.5216 mg/L	17:46:23
1	Cu 324.752†	157581.9	168761.0	0.6089 mg/L	0.6089 mg/L	17:46:23
1	Fe 234.349†	2268630.6	2468343.1	44.93 mg/L	44.93 mg/L	17:46:17
1	Fe 238.204†	5041249.1	5486799.9	44.24 mg/L	44.24 mg/L	17:46:11
1	Mg 279.077†	161058.6	174771.6	6.501 mg/L	6.501 mg/L	17:46:23
1	Mn 257.610†	5844291.7	6360138.1	6.649 mg/L	6.649 mg/L	17:46:11
1	Mo 202.031†	7070.7	7673.9	0.4936 mg/L	0.4936 mg/L	17:46:43
1	Ni 231.604†	17927.9	19469.1	0.5653 mg/L	0.5653 mg/L	17:46:23
1	P 214.914†	10841.3	11781.8	7.934 mg/L	7.934 mg/L	17:46:43
1	Pb 220.353†	4116.5	4641.5	0.4970 mg/L	0.4970 mg/L	17:46:43
1	Sb 206.836†	785.2	854.2	0.3879 mg/L	0.3879 mg/L	17:46:43
1	Se 196.026†	671.7	736.6	0.8470 mg/L	0.8470 mg/L	17:46:43
1	Sn 189.927†	1943.9	1951.0	0.4815 mg/L	0.4815 mg/L	17:46:43
1	Sr 407.771†	3673885.3	3991994.9	0.1703 mg/L	0.1703 mg/L	17:46:11
1	Ti 337.279†	529317.2	578690.2	0.7331 mg/L	0.7331 mg/L	17:46:17
1	Tl 190.801†	471.2	518.9	0.5299 mg/L	0.5299 mg/L	17:46:43
1	V 292.402†	123659.2	136340.9	0.4998 mg/L	0.4998 mg/L	17:46:23
1	Zn 213.857†	45112.3	48467.3	0.5794 mg/L	0.5794 mg/L	17:46:23
2	K 766.490†	37002.6	39879.8	24.13 mg/L	24.13 mg/L	17:45:58
2	Li 670.784†	15323.5	16704.4	0.4962 mg/L	0.4962 mg/L	17:45:58
2	Na 589.592	232949.1	225755.7	28.04 mg/L	28.04 mg/L	17:45:58
2	Y 371.029	3350250.6	3350250.6	0.912 mg/L		17:46:59
2	Ag 328.068†	62569.1	69976.6	0.2367 mg/L	0.2367 mg/L	17:47:04
2	Al 237.313†	77053.0	84502.0	8.726 mg/L	8.726 mg/L	17:47:04
2	As 188.979†	496.1	539.1	0.6496 mg/L	0.6496 mg/L	17:47:24
2	B 182.528†	188.4	210.5	0.4254 mg/L	0.4254 mg/L	17:47:24
2	Ba 233.527†	74318.7	81627.2	0.6388 mg/L	0.6388 mg/L	17:47:04
2	Be 313.107†	220889.6	239725.0	0.0464 mg/L	0.0464 mg/L	17:46:59
2	Ca 315.886†	4255377.0	4663089.4	30.12 mg/L	30.12 mg/L	17:46:59
2	Cd 228.802†	9143.1	9894.8	0.2310 mg/L	0.2310 mg/L	17:47:24
2	Co 228.616†	20108.0	22208.4	0.5540 mg/L	0.5540 mg/L	17:47:04
2	Cr 267.716†	79595.4	86082.2	0.5177 mg/L	0.5177 mg/L	17:47:04
2	Cu 324.752†	154812.6	166906.8	0.6023 mg/L	0.6023 mg/L	17:47:04
2	Fe 234.349†	2252067.7	2467193.4	44.91 mg/L	44.91 mg/L	17:46:59
2	Fe 238.204†	5011575.7	5492062.4	44.28 mg/L	44.28 mg/L	17:46:52
2	Mg 279.077†	159005.6	173728.5	6.462 mg/L	6.462 mg/L	17:47:04
2	Mn 257.610†	5812658.4	6369271.8	6.658 mg/L	6.658 mg/L	17:46:52
2	Mo 202.031†	7049.6	7703.8	0.4955 mg/L	0.4955 mg/L	17:47:24
2	Ni 231.604†	17620.3	19266.3	0.5594 mg/L	0.5594 mg/L	17:47:04
2	P 214.914†	10797.7	11815.3	7.956 mg/L	7.956 mg/L	17:47:24
2	Pb 220.353†	4119.4	4675.5	0.5007 mg/L	0.5007 mg/L	17:47:24
2	Sb 206.836†	787.1	862.0	0.3916 mg/L	0.3916 mg/L	17:47:24
2	Se 196.026†	662.0	731.0	0.8406 mg/L	0.8406 mg/L	17:47:24
2	Sn 189.927†	1958.0	1981.1	0.4891 mg/L	0.4891 mg/L	17:47:24
2	Sr 407.771†	3662866.1	4007455.0	0.1709 mg/L	0.1709 mg/L	17:46:52
2	Ti 337.279†	525686.4	578678.1	0.7331 mg/L	0.7331 mg/L	17:46:59
2	Tl 190.801†	460.2	510.3	0.5234 mg/L	0.5234 mg/L	17:47:24
2	V 292.402†	121697.6	135117.6	0.4954 mg/L	0.4954 mg/L	17:47:04
2	Zn 213.857†	44599.9	48243.8	0.5767 mg/L	0.5767 mg/L	17:47:04

Mean Data: BF62617-MSD1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3361784.8	0.915	mg/L	0.0044				0.49%
Ag 328.068†	70040.0	0.2369	mg/L	0.00030	0.2369	mg/L	0.00030	0.13%
Al 237.313†	84547.4	8.730	mg/L	0.0068	8.730	mg/L	0.0068	0.08%
As 188.979†	541.2	0.6521	mg/L	0.00349	0.6521	mg/L	0.00349	0.54%
B 182.528†	213.3	0.4310	mg/L	0.00794	0.4310	mg/L	0.00794	1.84%
Ba 233.527†	81825.9	0.6404	mg/L	0.00220	0.6404	mg/L	0.00220	0.34%
Be 313.107†	239702.1	0.0464	mg/L	0.00001	0.0464	mg/L	0.00001	0.01%
Ca 315.886†	4663768.7	30.13	mg/L	0.006	30.13	mg/L	0.006	0.02%
Cd 228.802†	9869.9	0.2304	mg/L	0.00083	0.2304	mg/L	0.00083	0.36%

Co 228.616†	22296.6	0.5562 mg/L	0.00312	0.5562 mg/L	0.00312	0.56%
Cr 267.716†	86402.4	0.5196 mg/L	0.00275	0.5196 mg/L	0.00275	0.53%
Cu 324.752†	167833.9	0.6056 mg/L	0.00468	0.6056 mg/L	0.00468	0.77%
Fe 234.349†	2467768.3	44.92 mg/L	0.015	44.92 mg/L	0.015	0.03%
Fe 238.204†	5489431.1	44.26 mg/L	0.030	44.26 mg/L	0.030	0.07%
K 766.490†	39408.7	23.84 mg/L	0.402	23.84 mg/L	0.402	1.68%
Li 670.784†	16594.2	0.4929 mg/L	0.00466	0.4929 mg/L	0.00466	0.95%
Mg 279.077†	174250.0	6.482 mg/L	0.0272	6.482 mg/L	0.0272	0.42%
Mn 257.610†	6364705.0	6.653 mg/L	0.0068	6.653 mg/L	0.0068	0.10%
Mo 202.031†	7688.9	0.4945 mg/L	0.00136	0.4945 mg/L	0.00136	0.27%
Na 589.592	225005.6	27.94 mg/L	0.132	27.94 mg/L	0.132	0.47%
Ni 231.604†	19367.7	0.5623 mg/L	0.00418	0.5623 mg/L	0.00418	0.74%
P 214.914†	11798.5	7.945 mg/L	0.0159	7.945 mg/L	0.0159	0.20%
Pb 220.353†	4658.5	0.4989 mg/L	0.00258	0.4989 mg/L	0.00258	0.52%
Sb 206.836†	858.1	0.3898 mg/L	0.00265	0.3898 mg/L	0.00265	0.68%
Se 196.026†	733.8	0.8438 mg/L	0.00455	0.8438 mg/L	0.00455	0.54%
Sn 189.927†	1966.1	0.4853 mg/L	0.00531	0.4853 mg/L	0.00531	1.10%
Sr 407.771†	3999724.9	0.1706 mg/L	0.00047	0.1706 mg/L	0.00047	0.27%
Ti 337.279†	578684.1	0.7331 mg/L	0.00001	0.7331 mg/L	0.00001	0.00%
Tl 190.801†	514.6	0.5266 mg/L	0.00459	0.5266 mg/L	0.00459	0.87%
V 292.402†	135729.2	0.4976 mg/L	0.00314	0.4976 mg/L	0.00314	0.63%
Zn 213.857†	48355.5	0.5781 mg/L	0.00189	0.5781 mg/L	0.00189	0.33%

Duplicate Check: BF62617-MSD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	23.01	23.84	0.402	mg/L	3.6
Li 670.784	0.4693	0.4929	0.005	mg/L	4.9
Na 589.592	27.05	27.94	0.132	mg/L	3.2
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.2318	0.2369	0.000	mg/L	2.2
Al 237.313	7.242	8.730	0.007	mg/L	18.6
As 188.979	0.6011	0.6521	0.003	mg/L	8.1
B 182.528	0.4203	0.4310	0.008	mg/L	2.5
Ba 233.527	0.6148	0.6404	0.002	mg/L	4.1
Be 313.107	0.0456	0.0464	0.000	mg/L	1.6
Ca 315.886	29.05	30.13	0.006	mg/L	3.6
Cd 228.802	0.2223	0.2304	0.001	mg/L	3.6
Co 228.616	0.5264	0.5562	0.003	mg/L	5.5
Cr 267.716	0.5046	0.5196	0.003	mg/L	2.9
Cu 324.752	0.5789	0.6056	0.005	mg/L	4.5
Fe 234.349	39.01	44.92	0.015	mg/L	14.1
Fe 238.204	38.57	44.26	0.030	mg/L	13.7
Mg 279.077	6.199	6.482	0.027	mg/L	4.5
Mn 257.610	6.379	6.653	0.007	mg/L	4.2
Mo 202.031	0.4811	0.4945	0.001	mg/L	2.8
Ni 231.604	0.5463	0.5623	0.004	mg/L	2.9
P 214.914	7.575	7.945	0.016	mg/L	4.8
Pb 220.353	0.4963	0.4989	0.003	mg/L	0.5
Sb 206.836	0.3825	0.3898	0.003	mg/L	1.9
Se 196.026	0.8243	0.8438	0.005	mg/L	2.3
Sn 189.927	0.4794	0.4853	0.005	mg/L	1.2
Sr 407.771	0.1654	0.1706	0.000	mg/L	3.1
Ti 337.279	0.6277	0.7331	0.000	mg/L	15.5
Tl 190.801	0.5089	0.5266	0.005	mg/L	3.4
V 292.402	0.4868	0.4976	0.003	mg/L	2.2
Zn 213.857	0.5720	0.5781	0.002	mg/L	1.1

Sequence No.: 35
Sample ID: BF62617-SD1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 27
Date Collected: 6/26/2006 5:49:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62617-SD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	869.6	189.1	0.2048	mg/L	0.2048	mg/L	17:50:37
1	Li 670.784†	204.1	112.0	0.0003	mg/L	0.0003	mg/L	17:50:37

1	Na 589.592	11795.7	4602.3	0.5199 mg/L	0.5199 mg/L	17:50:37
1	Y 371.029	3680292.0	3680292.0	1.00 mg/L		17:50:52
1	Ag 328.068†	-1630.1	-231.7	-0.0002 mg/L	-0.0002 mg/L	17:50:58
1	Al 237.313†	12822.1	12838.3	1.317 mg/L	1.317 mg/L	17:50:58
1	As 188.979†	40.3	35.6	0.0409 mg/L	0.0409 mg/L	17:51:18
1	B 182.528†	-3.1	0.9	0.0031 mg/L	0.0031 mg/L	17:51:18
1	Ba 233.527†	4680.7	4837.1	0.0369 mg/L	0.0369 mg/L	17:50:58
1	Be 313.107†	3408.0	1009.0	0.0002 mg/L	0.0002 mg/L	17:50:58
1	Ca 315.886†	869099.1	865970.0	5.594 mg/L	5.594 mg/L	17:50:52
1	Cd 228.802†	181.9	54.5	0.0008 mg/L	0.0008 mg/L	17:51:18
1	Co 228.616†	480.6	647.6	0.0152 mg/L	0.0152 mg/L	17:51:18
1	Cr 267.716†	2751.3	1583.1	0.0077 mg/L	0.0077 mg/L	17:50:58
1	Cu 324.752†	8763.6	5961.5	0.0214 mg/L	0.0214 mg/L	17:50:58
1	Fe 234.349†	460206.4	457902.5	8.329 mg/L	8.329 mg/L	17:50:52
1	Fe 238.204†	1042589.0	1039184.1	8.371 mg/L	8.371 mg/L	17:50:52
1	Mg 279.077†	13147.2	12561.2	0.4553 mg/L	0.4553 mg/L	17:50:58
1	Mn 257.610†	1303810.6	1298976.0	1.356 mg/L	1.356 mg/L	17:50:52
1	Mo 202.031†	136.1	112.5	0.0064 mg/L	0.0064 mg/L	17:51:18
1	Ni 231.604†	789.1	740.1	0.0189 mg/L	0.0189 mg/L	17:51:18
1	P 214.914†	1118.4	1095.8	0.7504 mg/L	0.7504 mg/L	17:51:18
1	Pb 220.353†	-39.2	121.1	0.0118 mg/L	0.0118 mg/L	17:51:18
1	Sb 206.836†	1.1	0.4	-0.0009 mg/L	-0.0009 mg/L	17:51:18
1	Se 196.026†	-12.0	-6.5	-0.0082 mg/L	-0.0082 mg/L	17:51:18
1	Sn 189.927†	146.2	-19.2	-0.0129 mg/L	-0.0129 mg/L	17:51:18
1	Sr 407.771†	647518.2	638691.5	0.0270 mg/L	0.0270 mg/L	17:50:52
1	Ti 337.279†	48948.6	51315.5	0.0651 mg/L	0.0651 mg/L	17:50:58
1	Tl 190.801†	-24.0	-18.0	0.0262 mg/L	0.0262 mg/L	17:51:18
1	V 292.402†	14.3	1739.5	0.0053 mg/L	0.0053 mg/L	17:50:58
1	Zn 213.857†	3755.4	3105.1	0.0356 mg/L	0.0356 mg/L	17:51:18
2	K 766.490†	842.4	161.9	0.1884 mg/L	0.1884 mg/L	17:50:43
2	Li 670.784†	160.1	68.1	-0.0010 mg/L	-0.0010 mg/L	17:50:43
2	Na 589.592	11846.1	4652.6	0.5262 mg/L	0.5262 mg/L	17:50:43
2	Y 371.029	3679968.9	3679968.9	1.00 mg/L		17:51:25
2	Ag 328.068†	-1707.0	-308.5	-0.0005 mg/L	-0.0005 mg/L	17:51:3
2	Al 237.313†	12862.3	12879.6	1.322 mg/L	1.322 mg/L	17:51:3
2	As 188.979†	42.8	38.1	0.0440 mg/L	0.0440 mg/L	17:51:5
2	B 182.528†	-0.4	3.6	0.0085 mg/L	0.0085 mg/L	17:51:5
2	Ba 233.527†	4634.9	4791.9	0.0366 mg/L	0.0366 mg/L	17:51:3
2	Be 313.107†	3549.7	1150.7	0.0002 mg/L	0.0002 mg/L	17:51:3
2	Ca 315.886†	869535.5	866481.7	5.597 mg/L	5.597 mg/L	17:51:2
2	Cd 228.802†	196.7	69.3	0.0011 mg/L	0.0011 mg/L	17:51:5
2	Co 228.616†	499.3	666.3	0.0157 mg/L	0.0157 mg/L	17:51:5
2	Cr 267.716†	2767.5	1599.5	0.0078 mg/L	0.0078 mg/L	17:51:3
2	Cu 324.752†	8730.7	5929.4	0.0213 mg/L	0.0213 mg/L	17:51:3
2	Fe 234.349†	460062.1	457798.8	8.327 mg/L	8.327 mg/L	17:51:2
2	Fe 238.204†	1042765.9	1039452.0	8.373 mg/L	8.373 mg/L	17:51:2
2	Mg 279.077†	13092.1	12507.4	0.4533 mg/L	0.4533 mg/L	17:51:3
2	Mn 257.610†	1305132.6	1300409.4	1.357 mg/L	1.357 mg/L	17:51:2
2	Mo 202.031†	115.6	92.1	0.0051 mg/L	0.0051 mg/L	17:51:5
2	Ni 231.604†	769.8	721.0	0.0183 mg/L	0.0183 mg/L	17:51:5
2	P 214.914†	1125.5	1103.0	0.7553 mg/L	0.7553 mg/L	17:51:5
2	Pb 220.353†	-45.7	114.6	0.0111 mg/L	0.0111 mg/L	17:51:5
2	Sb 206.836†	13.0	12.3	0.0047 mg/L	0.0047 mg/L	17:51:5
2	Se 196.026†	-6.2	-0.8	-0.0015 mg/L	-0.0015 mg/L	17:51:5
2	Sn 189.927†	141.5	-23.9	-0.0141 mg/L	-0.0141 mg/L	17:51:5
2	Sr 407.771†	647356.5	638586.9	0.0270 mg/L	0.0270 mg/L	17:51:2
2	Ti 337.279†	48973.3	51344.5	0.0652 mg/L	0.0652 mg/L	17:51:3
2	Tl 190.801†	-15.5	-9.5	0.0329 mg/L	0.0329 mg/L	17:51:5
2	V 292.402†	39.4	1764.5	0.0054 mg/L	0.0054 mg/L	17:51:3
2	Zn 213.857†	3767.6	3117.6	0.0358 mg/L	0.0358 mg/L	17:51:5

Mean Data: BF62617-SD1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3680130.5	1.00	mg/L	0.000				0.01
Ag 328.068†	-270.1	-0.0003	mg/L	0.00018	-0.0003	mg/L	0.00018	55.83
Al 237.313†	12859.0	1.320	mg/L	0.0031	1.320	mg/L	0.0031	0.23
As 188.979†	36.9	0.0424	mg/L	0.00215	0.0424	mg/L	0.00215	5.07
B 182.528†	2.2	0.0058	mg/L	0.00384	0.0058	mg/L	0.00384	66.04
Ba 233.527†	4814.5	0.0367	mg/L	0.00025	0.0367	mg/L	0.00025	0.68
Be 313.107†	1079.8	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	9.87

Ca 315.886†	866225.8	5.596 mg/L	0.0023	5.596 mg/L	0.0023	0.04%
Cd 228.802†	61.9	0.0009 mg/L	0.00023	0.0009 mg/L	0.00023	25.46%
Co 228.616†	657.0	0.0154 mg/L	0.00033	0.0154 mg/L	0.00033	2.15%
Cr 267.716†	1591.3	0.0078 mg/L	0.00007	0.0078 mg/L	0.00007	0.90%
Cu 324.752†	5945.5	0.0214 mg/L	0.00008	0.0214 mg/L	0.00008	0.38%
Fe 234.349†	457850.7	8.328 mg/L	0.0013	8.328 mg/L	0.0013	0.02%
Fe 238.204†	1039318.0	8.372 mg/L	0.0015	8.372 mg/L	0.0015	0.02%
K 766.490†	175.5	0.1966 mg/L	0.01157	0.1966 mg/L	0.01157	5.89%
Li 670.784†	90.0	-0.0003 mg/L	0.00093	-0.0003 mg/L	0.00093	275.21%
Mg 279.077†	12534.3	0.4543 mg/L	0.00140	0.4543 mg/L	0.00140	0.31%
Mn 257.610†	1299692.7	1.357 mg/L	0.0011	1.357 mg/L	0.0011	0.08%
Mo 202.031†	102.3	0.0057 mg/L	0.00093	0.0057 mg/L	0.00093	16.22%
Na 589.592	4627.5	0.5231 mg/L	0.00443	0.5231 mg/L	0.00443	0.85%
Ni 231.604†	730.6	0.0186 mg/L	0.00039	0.0186 mg/L	0.00039	2.12%
P 214.914†	1099.4	0.7528 mg/L	0.00341	0.7528 mg/L	0.00341	0.45%
Pb 220.353†	117.9	0.0114 mg/L	0.00050	0.0114 mg/L	0.00050	4.34%
Sb 206.836†	6.4	0.0019 mg/L	0.00394	0.0019 mg/L	0.00394	209.98%
Se 196.026†	-3.7	-0.0048 mg/L	0.00471	-0.0048 mg/L	0.00471	97.39%
Sn 189.927†	-21.5	-0.0135 mg/L	0.00083	-0.0135 mg/L	0.00083	6.14%
Sr 407.771†	638639.2	0.0270 mg/L	0.00000	0.0270 mg/L	0.00000	0.01%
Ti 337.279†	51330.0	0.0651 mg/L	0.00003	0.0651 mg/L	0.00003	0.04%
Tl 190.801†	-13.7	0.0295 mg/L	0.00473	0.0295 mg/L	0.00473	16.00%
V 292.402†	1752.0	0.0054 mg/L	0.00005	0.0054 mg/L	0.00005	0.92%
Zn 213.857†	3111.3	0.0357 mg/L	0.00011	0.0357 mg/L	0.00011	0.31%

Dilution Check: BF62617-SD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	0.1068	0.1966	0.012	mg/L	84.1
Li 670.784	0.0004	-0.0003	0.001	mg/L	191.5
Na 589.592	1.139	0.5231	0.004	mg/L	54.1
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.0016	-0.0003	0.000	mg/L	120.7
Al 237.313	1.281	1.320	0.003	mg/L	3.1
As 188.979	0.0434	0.0424	0.002	mg/L	2.2
B 182.528	0.0016	0.0058	0.004	mg/L	270.0
Ba 233.527	0.0370	0.0367	0.000	mg/L	0.7
Be 313.107	0.0002	0.0002	0.000	mg/L	7.8
Ca 315.886	5.515	5.596	0.002	mg/L	1.5
Cd 228.802	0.0014	0.0009	0.000	mg/L	34.1
Co 228.616	0.0156	0.0154	0.000	mg/L	1.2
Cr 267.716	0.0085	0.0078	0.000	mg/L	8.5
Cu 324.752	0.0224	0.0214	0.000	mg/L	4.6
Fe 234.349	8.086	8.328	0.001	mg/L	3.0
Fe 238.204	7.972	8.372	0.002	mg/L	5.0
Mg 279.077	0.4438	0.4543	0.001	mg/L	2.4
Mn 257.610	1.313	1.357	0.001	mg/L	3.4
Mo 202.031	0.0058	0.0057	0.001	mg/L	0.0
Ni 231.604	0.0201	0.0186	0.000	mg/L	7.1
P 214.914	0.7083	0.7528	0.003	mg/L	6.3
Pb 220.353	0.0111	0.0114	0.000	mg/L	3.4
Sb 206.836	-0.0003	0.0019	0.004	mg/L	-661.3
Se 196.026	0.0014	-0.0048	0.005	mg/L	436.2
Sn 189.927	0.0053	-0.0135	0.001	mg/L	354.4
Sr 407.771	0.0266	0.0270	0.000	mg/L	1.6
Ti 337.279	0.0650	0.0651	0.000	mg/L	0.1
Tl 190.801	0.0103	0.0295	0.005	mg/L	185.9
V 292.402	0.0049	0.0054	0.000	mg/L	10.0
Zn 213.857	0.0335	0.0357	0.000	mg/L	6.4

Sequence No.: 36
Sample ID: BF62617-PDS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 6/26/2006 5:53:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62617-PDS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time

1	K 766.490†	37359.9	40344.8	24.41 mg/L	24.41 mg/L	17:55:02
1	Li 670.784†	15550.9	16984.1	0.5046 mg/L	0.5046 mg/L	17:55:02
1	Na 589.592	235093.8	227900.3	28.30 mg/L	28.30 mg/L	17:55:02
1	Y 371.029	3344260.5	3344260.5	0.911 mg/L		17:55:27
1	Ag 328.068†	65519.8	73339.5	0.2479 mg/L	0.2479 mg/L	17:55:32
1	Al 237.313†	77854.0	85532.8	8.841 mg/L	8.841 mg/L	17:55:32
1	As 188.979†	493.2	536.9	0.6469 mg/L	0.6469 mg/L	17:55:52
1	B 182.528†	199.5	223.0	0.4507 mg/L	0.4507 mg/L	17:55:52
1	Ba 233.527†	77229.8	84969.7	0.6650 mg/L	0.6650 mg/L	17:55:32
1	Be 313.107†	229821.8	249966.7	0.0484 mg/L	0.0484 mg/L	17:55:27
1	Ca 315.886†	4579039.8	5026845.3	32.47 mg/L	32.47 mg/L	17:55:20
1	Cd 228.802†	9440.7	10239.5	0.2391 mg/L	0.2391 mg/L	17:55:52
1	Co 228.616†	19985.2	22113.0	0.5516 mg/L	0.5516 mg/L	17:55:32
1	Cr 267.716†	81485.9	88314.3	0.5308 mg/L	0.5308 mg/L	17:55:32
1	Cu 324.752†	158193.5	170923.2	0.6163 mg/L	0.6163 mg/L	17:55:32
1	Fe 234.349†	2164682.8	2375661.0	43.24 mg/L	43.24 mg/L	17:55:27
1	Fe 238.204†	4779116.7	5246647.4	42.30 mg/L	42.30 mg/L	17:55:20
1	Mg 279.077†	167562.5	183436.8	6.826 mg/L	6.826 mg/L	17:55:32
1	Mn 257.610†	6105453.9	6702190.9	7.006 mg/L	7.006 mg/L	17:55:20
1	Mo 202.031†	7415.3	8119.2	0.5223 mg/L	0.5223 mg/L	17:55:52
1	Ni 231.604†	18083.9	19810.0	0.5752 mg/L	0.5752 mg/L	17:55:32
1	P 214.914†	10979.5	12036.1	8.105 mg/L	8.105 mg/L	17:55:52
1	Pb 220.353†	4351.2	4938.1	0.5290 mg/L	0.5290 mg/L	17:55:52
1	Sb 206.836†	879.7	965.3	0.4397 mg/L	0.4397 mg/L	17:55:52
1	Se 196.026†	695.0	768.5	0.8837 mg/L	0.8837 mg/L	17:55:52
1	Sn 189.927†	2026.9	2060.6	0.5089 mg/L	0.5089 mg/L	17:55:52
1	Sr 407.771†	3864268.0	4235797.8	0.1807 mg/L	0.1807 mg/L	17:55:20
1	Ti 337.279†	530550.4	585051.1	0.7412 mg/L	0.7412 mg/L	17:55:27
1	Tl 190.801†	480.4	533.5	0.5473 mg/L	0.5473 mg/L	17:55:52
1	V 292.402†	126892.5	141060.9	0.5178 mg/L	0.5178 mg/L	17:55:32
1	Zn 213.857†	48114.1	52190.1	0.6247 mg/L	0.6247 mg/L	17:55:32
2	K 766.490†	37155.3	40244.1	24.35 mg/L	24.35 mg/L	17:55:07
2	Li 670.784†	15414.6	16885.9	0.5016 mg/L	0.5016 mg/L	17:55:07
2	Na 589.592	235128.1	227934.6	28.31 mg/L	28.31 mg/L	17:55:07
2	Y 371.029	3334129.2	3334129.2	0.908 mg/L		17:56:09
2	Ag 328.068†	65019.3	73006.9	0.2468 mg/L	0.2468 mg/L	17:56:14
2	Al 237.313†	77502.2	85405.1	8.827 mg/L	8.827 mg/L	17:56:14
2	As 188.979†	486.4	531.1	0.6398 mg/L	0.6398 mg/L	17:56:34
2	B 182.528†	199.3	223.5	0.4516 mg/L	0.4516 mg/L	17:56:34
2	Ba 233.527†	76724.8	84671.3	0.6627 mg/L	0.6627 mg/L	17:56:14
2	Be 313.107†	229271.4	250127.4	0.0484 mg/L	0.0484 mg/L	17:56:09
2	Ca 315.886†	4571148.6	5033432.5	32.52 mg/L	32.52 mg/L	17:56:03
2	Cd 228.802†	9375.4	10199.1	0.2382 mg/L	0.2382 mg/L	17:56:34
2	Co 228.616†	19888.4	22073.2	0.5506 mg/L	0.5506 mg/L	17:56:14
2	Cr 267.716†	81241.3	88316.9	0.5309 mg/L	0.5309 mg/L	17:56:14
2	Cu 324.752†	157258.7	170421.5	0.6146 mg/L	0.6146 mg/L	17:56:14
2	Fe 234.349†	2160198.8	2377945.1	43.28 mg/L	43.28 mg/L	17:56:09
2	Fe 238.204†	4771771.0	5254503.1	42.36 mg/L	42.36 mg/L	17:56:03
2	Mg 279.077†	166613.6	182950.7	6.808 mg/L	6.808 mg/L	17:56:14
2	Mn 257.610†	6097658.8	6713977.0	7.019 mg/L	7.019 mg/L	17:56:03
2	Mo 202.031†	7401.7	8128.9	0.5229 mg/L	0.5229 mg/L	17:56:34
2	Ni 231.604†	17884.9	19651.2	0.5706 mg/L	0.5706 mg/L	17:56:14
2	P 214.914†	10864.2	11945.7	8.044 mg/L	8.044 mg/L	17:56:34
2	Pb 220.353†	4313.5	4911.1	0.5261 mg/L	0.5261 mg/L	17:56:34
2	Sb 206.836†	869.6	957.1	0.4359 mg/L	0.4359 mg/L	17:56:34
2	Se 196.026†	681.6	756.1	0.8694 mg/L	0.8694 mg/L	17:56:34
2	Sn 189.927†	2006.8	2045.2	0.5050 mg/L	0.5050 mg/L	17:56:34
2	Sr 407.771†	3863740.6	4248110.5	0.1812 mg/L	0.1812 mg/L	17:56:03
2	Ti 337.279†	529410.6	585566.1	0.7419 mg/L	0.7419 mg/L	17:56:09
2	Tl 190.801†	470.8	524.4	0.5405 mg/L	0.5405 mg/L	17:56:34
2	V 292.402†	126180.9	140700.5	0.5165 mg/L	0.5165 mg/L	17:56:14
2	Zn 213.857†	47725.1	51922.3	0.6214 mg/L	0.6214 mg/L	17:56:14

Mean Data: BF62617-PDS1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3339194.8	0.909	mg/L	0.0020				0.21%
Ag 328.068†	73173.2	0.2474	mg/L	0.00079	0.2474	mg/L	0.00079	0.32%
Al 237.313†	85469.0	8.834	mg/L	0.0097	8.834	mg/L	0.0097	0.11%
As 188.979†	534.0	0.6434	mg/L	0.00502	0.6434	mg/L	0.00502	0.78%
B 182.528†	223.3	0.4511	mg/L	0.00064	0.4511	mg/L	0.00064	0.14%

Ba 233.527†	84820.5	0.6638 mg/L	0.00165	0.6638 mg/L	0.00165	0.25%
Be 313.107†	250047.1	0.0484 mg/L	0.00002	0.0484 mg/L	0.00002	0.05%
Ca 315.886†	5030138.9	32.50 mg/L	0.030	32.50 mg/L	0.030	0.09%
Cd 228.802†	10219.3	0.2386 mg/L	0.00065	0.2386 mg/L	0.00065	0.27%
Co 228.616†	22093.1	0.5511 mg/L	0.00071	0.5511 mg/L	0.00071	0.13%
Cr 267.716†	88315.6	0.5309 mg/L	0.00001	0.5309 mg/L	0.00001	0.00%
Cu 324.752†	170672.3	0.6154 mg/L	0.00126	0.6154 mg/L	0.00126	0.20%
Fe 234.349†	2376803.0	43.26 mg/L	0.029	43.26 mg/L	0.029	0.07%
Fe 238.204†	5250575.3	42.33 mg/L	0.045	42.33 mg/L	0.045	0.11%
K 766.490†	40294.4	24.38 mg/L	0.043	24.38 mg/L	0.043	0.18%
Li 670.784†	16935.0	0.5031 mg/L	0.00208	0.5031 mg/L	0.00208	0.41%
Mg 279.077†	183193.7	6.817 mg/L	0.0126	6.817 mg/L	0.0126	0.19%
Mn 257.610†	6708084.0	7.012 mg/L	0.0087	7.012 mg/L	0.0087	0.12%
Mo 202.031†	8124.1	0.5226 mg/L	0.00045	0.5226 mg/L	0.00045	0.09%
Na 589.592	227917.5	28.30 mg/L	0.003	28.30 mg/L	0.003	0.01%
Ni 231.604†	19730.6	0.5729 mg/L	0.00327	0.5729 mg/L	0.00327	0.57%
P 214.914†	11990.9	8.075 mg/L	0.0429	8.075 mg/L	0.0429	0.53%
Pb 220.353†	4924.6	0.5276 mg/L	0.00205	0.5276 mg/L	0.00205	0.39%
Sb 206.836†	961.2	0.4378 mg/L	0.00272	0.4378 mg/L	0.00272	0.62%
Se 196.026†	762.3	0.8766 mg/L	0.01010	0.8766 mg/L	0.01010	1.15%
Sn 189.927†	2052.9	0.5069 mg/L	0.00271	0.5069 mg/L	0.00271	0.53%
Sr 407.771†	4241954.1	0.1809 mg/L	0.00037	0.1809 mg/L	0.00037	0.21%
Ti 337.279†	585308.6	0.7415 mg/L	0.00046	0.7415 mg/L	0.00046	0.06%
Tl 190.801†	529.0	0.5439 mg/L	0.00483	0.5439 mg/L	0.00483	0.89%
V 292.402†	140880.7	0.5171 mg/L	0.00093	0.5171 mg/L	0.00093	0.18%
Zn 213.857†	52056.2	0.6230 mg/L	0.00228	0.6230 mg/L	0.00228	0.37%

Matrix Recovery Check: BF62617-PDS1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	25.53	24.38	0.043	mg/L	95.4
Li 670.784	0.5018	0.5031	0.002	mg/L	100.3
Na 589.592	30.69	28.30	0.003	mg/L	90.4
Ag 328.068	0.2579	0.2474	0.001	mg/L	95.8
Al 237.313	8.903	8.834	0.010	mg/L	97.3
As 188.979	0.7169	0.6434	0.005	mg/L	85.3
B 182.528	0.5079	0.4511	0.001	mg/L	88.6
Ba 233.527	0.6850	0.6638	0.002	mg/L	95.8
Be 313.107	0.0509	0.0484	0.000	mg/L	94.9
Ca 315.886	32.57	32.50	0.030	mg/L	98.4
Cd 228.802	0.2570	0.2386	0.001	mg/L	92.6
Co 228.616	0.5781	0.5511	0.001	mg/L	94.6
Cr 267.716	0.5424	0.5309	0.000	mg/L	97.7
Cu 324.752	0.6120	0.6154	0.001	mg/L	100.7
Fe 234.349	42.93	43.26	0.029	mg/L	113.3
Fe 238.204	42.36	42.33	0.045	mg/L	98.9
Mg 279.077	7.219	6.817	0.013	mg/L	92.0
Mn 257.610	7.063	7.012	0.009	mg/L	89.8
Mo 202.031	0.5288	0.5226	0.000	mg/L	98.8
Ni 231.604	0.6003	0.5729	0.003	mg/L	94.5
P 214.914	8.541	8.075	0.043	mg/L	90.7
Pb 220.353	0.5553	0.5276	0.002	mg/L	94.4
Sb 206.836	0.4983	0.4378	0.003	mg/L	87.9
Se 196.026	1.007	0.8766	0.010	mg/L	86.9
Sn 189.927	0.5265	0.5069	0.003	mg/L	96.1
Sr 407.771	0.1831	0.1809	0.000	mg/L	95.7
Ti 337.279	0.8252	0.7415	0.000	mg/L	83.3
Tl 190.801	0.5517	0.5439	0.005	mg/L	98.4
V 292.402	0.5243	0.5171	0.001	mg/L	98.6
Zn 213.857	0.6677	0.6230	0.002	mg/L	91.1

Sequence No.: 37
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/26/2006 5:58:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

	Net	Corrected	Calib.	Sample	Analysis

Repl#	Analyte	Intensity	Intensity	Conc.	Units	Conc.	Units	Time
1	K 766.490†	39467.4	39984.1	24.19	mg/L	24.19	mg/L	17:59:49
1	Li 670.784†	16544.7	16954.2	0.5037	mg/L	0.5037	mg/L	17:59:49
1	Na 589.592	198672.8	191479.4	23.77	mg/L	23.77	mg/L	17:59:49
1	Y 371.029	3564249.9	3564249.9	0.971	mg/L			18:00:04
1	Ag 328.068†	70434.8	73962.8	0.2484	mg/L	0.2484	mg/L	18:00:09
1	Al 237.313†	22532.0	23258.9	2.451	mg/L	2.451	mg/L	18:00:09
1	As 188.979†	390.2	397.4	0.4781	mg/L	0.4781	mg/L	18:00:29
1	B 182.528†	222.6	233.3	0.4713	mg/L	0.4713	mg/L	18:00:29
1	Ba 233.527†	61266.3	63288.6	0.4951	mg/L	0.4951	mg/L	18:00:09
1	Be 313.107†	245763.7	250815.7	0.0485	mg/L	0.0485	mg/L	18:00:04
1	Ca 315.886†	736845.9	757944.5	4.899	mg/L	4.899	mg/L	18:00:04
1	Cd 228.802†	10347.5	10534.0	0.2463	mg/L	0.2463	mg/L	18:00:29
1	Co 228.616†	18989.8	19733.0	0.4925	mg/L	0.4925	mg/L	18:00:09
1	Cr 267.716†	80401.3	81674.3	0.4925	mg/L	0.4925	mg/L	18:00:09
1	Cu 324.752†	138581.1	139995.5	0.4985	mg/L	0.4985	mg/L	18:00:09
1	Fe 234.349†	134237.1	137010.6	2.481	mg/L	2.481	mg/L	18:00:09
1	Fe 238.204†	300949.5	308951.6	2.483	mg/L	2.483	mg/L	18:00:09
1	Mg 279.077†	130373.4	133764.9	4.936	mg/L	4.936	mg/L	18:00:09
1	Mn 257.610†	461718.3	473734.3	0.4931	mg/L	0.4931	mg/L	18:00:04
1	Mo 202.031†	7489.9	7693.5	0.4948	mg/L	0.4948	mg/L	18:00:29
1	Ni 231.604†	16383.9	16832.9	0.4884	mg/L	0.4884	mg/L	18:00:09
1	P 214.914†	7076.8	7271.0	4.902	mg/L	4.902	mg/L	18:00:29
1	Pb 220.353†	4368.4	4660.9	0.5000	mg/L	0.5000	mg/L	18:00:29
1	Sb 206.836†	1035.8	1066.5	0.4882	mg/L	0.4882	mg/L	18:00:29
1	Se 196.026†	824.5	854.9	0.9831	mg/L	0.9831	mg/L	18:00:29
1	Sn 189.927†	2041.1	1937.9	0.4763	mg/L	0.4763	mg/L	18:00:29
1	Sr 407.771†	1136887.1	1163917.1	0.0495	mg/L	0.0495	mg/L	18:00:04
1	Ti 337.279†	374168.8	387975.9	0.4916	mg/L	0.4916	mg/L	18:00:09
1	Tl 190.801†	663.4	689.4	0.5585	mg/L	0.5585	mg/L	18:00:29
1	V 292.402†	128271.1	133881.2	0.4967	mg/L	0.4967	mg/L	18:00:09
1	Zn 213.857†	40352.4	40932.5	0.4924	mg/L	0.4924	mg/L	18:00:09
2	K 766.490†	39403.6	39341.6	23.80	mg/L	23.80	mg/L	17:59:54
2	Li 670.784†	16392.0	16556.8	0.4918	mg/L	0.4918	mg/L	17:59:54
2	Na 589.592	197842.4	190649.0	23.67	mg/L	23.67	mg/L	17:59:54
2	Y 371.029	3615613.6	3615613.6	0.985	mg/L			18:00:36
2	Ag 328.068†	70001.5	72491.9	0.2435	mg/L	0.2435	mg/L	18:00:42
2	Al 237.313†	22373.4	22768.1	2.399	mg/L	2.399	mg/L	18:00:42
2	As 188.979†	393.6	395.1	0.4754	mg/L	0.4754	mg/L	18:01:02
2	B 182.528†	224.4	231.9	0.4684	mg/L	0.4684	mg/L	18:01:02
2	Ba 233.527†	60935.7	62056.1	0.4854	mg/L	0.4854	mg/L	18:00:42
2	Be 313.107†	249194.0	250702.6	0.0485	mg/L	0.0485	mg/L	18:00:36
2	Ca 315.886†	749301.5	759810.3	4.911	mg/L	4.911	mg/L	18:00:36
2	Cd 228.802†	10367.7	10403.1	0.2432	mg/L	0.2432	mg/L	18:01:02
2	Co 228.616†	18885.5	19349.1	0.4829	mg/L	0.4829	mg/L	18:00:42
2	Cr 267.716†	80004.4	80094.5	0.4829	mg/L	0.4829	mg/L	18:00:42
2	Cu 324.752†	136887.0	136246.5	0.4851	mg/L	0.4851	mg/L	18:00:42
2	Fe 234.349†	133239.6	134032.8	2.427	mg/L	2.427	mg/L	18:00:42
2	Fe 238.204†	299333.1	302905.1	2.434	mg/L	2.434	mg/L	18:00:42
2	Mg 279.077†	130189.5	131670.0	4.859	mg/L	4.859	mg/L	18:00:42
2	Mn 257.610†	469156.7	474531.2	0.4939	mg/L	0.4939	mg/L	18:00:36
2	Mo 202.031†	7559.8	7654.9	0.4923	mg/L	0.4923	mg/L	18:01:02
2	Ni 231.604†	16228.4	16435.2	0.4768	mg/L	0.4768	mg/L	18:00:42
2	P 214.914†	7090.0	7180.9	4.841	mg/L	4.841	mg/L	18:01:02
2	Pb 220.353†	4377.6	4606.3	0.4942	mg/L	0.4942	mg/L	18:01:02
2	Sb 206.836†	1045.0	1060.7	0.4857	mg/L	0.4857	mg/L	18:01:02
2	Se 196.026†	818.0	836.2	0.9616	mg/L	0.9616	mg/L	18:01:02
2	Sn 189.927†	2038.4	1905.2	0.4681	mg/L	0.4681	mg/L	18:01:02
2	Sr 407.771†	1150412.0	1161013.8	0.0493	mg/L	0.0493	mg/L	18:00:36
2	Ti 337.279†	372362.3	380664.7	0.4823	mg/L	0.4823	mg/L	18:00:42
2	Tl 190.801†	669.7	686.1	0.5560	mg/L	0.5560	mg/L	18:01:02
2	V 292.402†	127632.9	131355.7	0.4875	mg/L	0.4875	mg/L	18:00:42
2	Zn 213.857†	40045.7	40030.4	0.4815	mg/L	0.4815	mg/L	18:00:42

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3589931.7	0.978	mg/L	0.0099				1.01%
Ag 328.068†	73227.4	0.2459	mg/L	0.00349	0.2459	mg/L	0.00349	1.42%
QC value within limits for Ag 328.068 Recovery = 98.37%								
Al 237.313†	23013.5	2.425	mg/L	0.0366	2.425	mg/L	0.0366	1.51%

QC value within limits for Al 237.313 Recovery = 97.01%						
As 188.979†	396.3	0.4768 mg/L	0.00193	0.4768 mg/L	0.00193	0.40%
QC value within limits for As 188.979 Recovery = 95.35%						
B 182.528†	232.6	0.4698 mg/L	0.00201	0.4698 mg/L	0.00201	0.43%
QC value within limits for B 182.528 Recovery = 93.97%						
Ba 233.527†	62672.4	0.4902 mg/L	0.00683	0.4902 mg/L	0.00683	1.39%
QC value within limits for Ba 233.527 Recovery = 98.05%						
Be 313.107†	250759.1	0.0485 mg/L	0.00001	0.0485 mg/L	0.00001	0.02%
QC value within limits for Be 313.107 Recovery = 97.07%						
Ca 315.886†	758877.4	4.905 mg/L	0.0085	4.905 mg/L	0.0085	0.17%
QC value within limits for Ca 315.886 Recovery = 98.10%						
Cd 228.802†	10468.5	0.2448 mg/L	0.00220	0.2448 mg/L	0.00220	0.90%
QC value within limits for Cd 228.802 Recovery = 97.91%						
Co 228.616†	19541.1	0.4877 mg/L	0.00679	0.4877 mg/L	0.00679	1.39%
QC value within limits for Co 228.616 Recovery = 97.54%						
Cr 267.716†	80884.4	0.4877 mg/L	0.00676	0.4877 mg/L	0.00676	1.39%
QC value within limits for Cr 267.716 Recovery = 97.53%						
Cu 324.752†	138121.0	0.4918 mg/L	0.00946	0.4918 mg/L	0.00946	1.92%
QC value within limits for Cu 324.752 Recovery = 98.36%						
Fe 234.349†	135521.7	2.454 mg/L	0.0382	2.454 mg/L	0.0382	1.56%
QC value within limits for Fe 234.349 Recovery = 98.15%						
Fe 238.204†	305928.3	2.459 mg/L	0.0345	2.459 mg/L	0.0345	1.40%
QC value within limits for Fe 238.204 Recovery = 98.35%						
K 766.490†	39662.9	24.00 mg/L	0.274	24.00 mg/L	0.274	1.14%
QC value within limits for K 766.490 Recovery = 95.98%						
Li 670.784†	16755.5	0.4977 mg/L	0.00840	0.4977 mg/L	0.00840	1.69%
QC value within limits for Li 670.784 Recovery = 99.55%						
Mg 279.077†	132717.4	4.898 mg/L	0.0548	4.898 mg/L	0.0548	1.12%
QC value within limits for Mg 279.077 Recovery = 97.95%						
Mn 257.610†	474132.7	0.4935 mg/L	0.00059	0.4935 mg/L	0.00059	0.12%
QC value within limits for Mn 257.610 Recovery = 98.70%						
Mo 202.031†	7674.2	0.4936 mg/L	0.00176	0.4936 mg/L	0.00176	0.36%
QC value within limits for Mo 202.031 Recovery = 98.72%						
Na 589.592	191064.2	23.72 mg/L	0.073	23.72 mg/L	0.073	0.31%
QC value within limits for Na 589.592 Recovery = 94.88%						
Ni 231.604†	16634.1	0.4826 mg/L	0.00820	0.4826 mg/L	0.00820	1.70%
QC value within limits for Ni 231.604 Recovery = 96.52%						
P 214.914†	7226.0	4.871 mg/L	0.0428	4.871 mg/L	0.0428	0.88%
QC value within limits for P 214.914 Recovery = 97.43%						
Pb 220.353†	4633.6	0.4971 mg/L	0.00414	0.4971 mg/L	0.00414	0.83%
QC value within limits for Pb 220.353 Recovery = 99.42%						
Sb 206.836†	1063.6	0.4869 mg/L	0.00178	0.4869 mg/L	0.00178	0.37%
QC value within limits for Sb 206.836 Recovery = 97.39%						
Se 196.026†	845.5	0.9723 mg/L	0.01518	0.9723 mg/L	0.01518	1.56%
QC value within limits for Se 196.026 Recovery = 97.23%						
Sn 189.927†	1921.5	0.4722 mg/L	0.00577	0.4722 mg/L	0.00577	1.22%
QC value within limits for Sn 189.927 Recovery = 94.44%						
Sr 407.771†	1162465.5	0.0494 mg/L	0.00009	0.0494 mg/L	0.00009	0.18%
QC value within limits for Sr 407.771 Recovery = 98.82%						
Ti 337.279†	384320.3	0.4869 mg/L	0.00655	0.4869 mg/L	0.00655	1.34%
QC value within limits for Ti 337.279 Recovery = 97.39%						
Tl 190.801†	687.8	0.5572 mg/L	0.00175	0.5572 mg/L	0.00175	0.31%
QC value greater than the upper limit for Tl 190.801 Recovery = 111.45%						
V 292.402†	132618.5	0.4921 mg/L	0.00654	0.4921 mg/L	0.00654	1.33%
QC value within limits for V 292.402 Recovery = 98.42%						
Zn 213.857†	40481.5	0.4869 mg/L	0.00768	0.4869 mg/L	0.00768	1.58%
QC value within limits for Zn 213.857 Recovery = 97.39%						

QC Failed. Continue with analysis.

Sequence No.: 38
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/26/2006 6:02:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	645.3	-27.2	0.0745	mg/L	0.0745	mg/L	18:04:14
1	Li 670.784†	146.0	55.7	-0.0014	mg/L	-0.0014	mg/L	18:04:14

1	Na 589.592	457.9	-6735.5	-0.8907 mg/L	-0.8907 mg/L	18:04:14
1	Y 371.029	3637043.1	3637043.1	0.990 mg/L		18:04:28
1	Ag 328.068†	-1608.5	-229.2	-0.0005 mg/L	-0.0005 mg/L	18:04:33
1	Al 237.313†	-31.0	13.1	0.0012 mg/L	0.0012 mg/L	18:04:53
1	As 188.979†	7.2	2.7	0.0011 mg/L	0.0011 mg/L	18:04:53
1	B 182.528†	-3.3	0.7	0.0026 mg/L	0.0026 mg/L	18:04:53
1	Ba 233.527†	-151.7	13.6	-0.0009 mg/L	-0.0009 mg/L	18:04:53
1	Be 313.107†	2489.1	121.7	0.0000 mg/L	0.0000 mg/L	18:04:33
1	Ca 315.886†	1900.6	700.6	0.0047 mg/L	0.0047 mg/L	18:04:33
1	Cd 228.802†	129.6	3.9	-0.0004 mg/L	-0.0004 mg/L	18:04:53
1	Co 228.616†	-177.2	-10.8	-0.0012 mg/L	-0.0012 mg/L	18:04:53
1	Cr 267.716†	1161.4	10.6	-0.0014 mg/L	-0.0014 mg/L	18:04:33
1	Cu 324.752†	2921.7	167.1	-0.0008 mg/L	-0.0008 mg/L	18:04:33
1	Fe 234.349†	1411.5	133.0	-0.0061 mg/L	-0.0061 mg/L	18:04:53
1	Fe 238.204†	1456.5	357.7	-0.0060 mg/L	-0.0060 mg/L	18:04:53
1	Mg 279.077†	600.4	49.1	-0.0186 mg/L	-0.0186 mg/L	18:04:33
1	Mn 257.610†	2167.9	220.7	-0.0022 mg/L	-0.0022 mg/L	18:04:33
1	Mo 202.031†	34.6	11.7	-0.0001 mg/L	-0.0001 mg/L	18:04:53
1	Ni 231.604†	39.7	-7.1	-0.0029 mg/L	-0.0029 mg/L	18:04:53
1	P 214.914†	35.6	15.9	0.0245 mg/L	0.0245 mg/L	18:04:53
1	Pb 220.353†	-154.5	4.2	-0.0006 mg/L	-0.0006 mg/L	18:04:53
1	Sb 206.836†	5.2	4.6	0.0013 mg/L	0.0013 mg/L	18:04:53
1	Se 196.026†	-8.2	-2.8	-0.0039 mg/L	-0.0039 mg/L	18:04:53
1	Sn 189.927†	100.1	-64.1	-0.0245 mg/L	-0.0245 mg/L	18:04:53
1	Sr 407.771†	7081.0	-253.7	-0.0003 mg/L	-0.0003 mg/L	18:04:28
1	Ti 337.279†	-2298.1	154.3	0.0003 mg/L	0.0003 mg/L	18:04:33
1	Tl 190.801†	2.1	8.1	0.0235 mg/L	0.0235 mg/L	18:04:53
1	V 292.402†	-1620.5	89.0	0.0003 mg/L	0.0003 mg/L	18:04:33
1	Zn 213.857†	598.2	-38.0	-0.0016 mg/L	-0.0016 mg/L	18:04:53
2	K 766.490†	701.7	28.1	0.1078 mg/L	0.1078 mg/L	18:04:20
2	Li 670.784†	135.2	44.5	-0.0017 mg/L	-0.0017 mg/L	18:04:20
2	Na 589.592	427.2	-6766.2	-0.8945 mg/L	-0.8945 mg/L	18:04:20
2	Y 371.029	3646259.7	3646259.7	0.993 mg/L		18:04:59
2	Ag 328.068†	-1731.7	-349.2	-0.0009 mg/L	-0.0009 mg/L	18:05:04
2	Al 237.313†	-36.8	7.4	0.0006 mg/L	0.0006 mg/L	18:05:25
2	As 188.979†	9.7	5.2	0.0041 mg/L	0.0041 mg/L	18:05:25
2	B 182.528†	-0.0	4.0	0.0093 mg/L	0.0093 mg/L	18:05:25
2	Ba 233.527†	-166.5	-0.9	-0.0010 mg/L	-0.0010 mg/L	18:05:25
2	Be 313.107†	2428.3	54.1	0.0000 mg/L	0.0000 mg/L	18:05:04
2	Ca 315.886†	1849.1	643.8	0.0044 mg/L	0.0044 mg/L	18:05:04
2	Cd 228.802†	121.7	-4.4	-0.0006 mg/L	-0.0006 mg/L	18:05:25
2	Co 228.616†	-174.2	-7.4	-0.0011 mg/L	-0.0011 mg/L	18:05:25
2	Cr 267.716†	1251.2	97.9	-0.0009 mg/L	-0.0009 mg/L	18:05:04
2	Cu 324.752†	2964.5	202.8	-0.0007 mg/L	-0.0007 mg/L	18:05:04
2	Fe 234.349†	1383.7	101.4	-0.0067 mg/L	-0.0067 mg/L	18:05:25
2	Fe 238.204†	1447.8	345.3	-0.0061 mg/L	-0.0061 mg/L	18:05:25
2	Mg 279.077†	610.1	57.4	-0.0183 mg/L	-0.0183 mg/L	18:05:04
2	Mn 257.610†	2137.3	184.4	-0.0022 mg/L	-0.0022 mg/L	18:05:04
2	Mo 202.031†	35.0	12.0	-0.0001 mg/L	-0.0001 mg/L	18:05:25
2	Ni 231.604†	32.6	-14.3	-0.0031 mg/L	-0.0031 mg/L	18:05:25
2	P 214.914†	39.5	19.7	0.0270 mg/L	0.0270 mg/L	18:05:25
2	Pb 220.353†	-160.5	-1.4	-0.0012 mg/L	-0.0012 mg/L	18:05:25
2	Sb 206.836†	13.3	12.7	0.0051 mg/L	0.0051 mg/L	18:05:25
2	Se 196.026†	-6.0	-0.6	-0.0013 mg/L	-0.0013 mg/L	18:05:25
2	Sn 189.927†	101.5	-62.9	-0.0242 mg/L	-0.0242 mg/L	18:05:25
2	Sr 407.771†	7144.8	-207.5	-0.0002 mg/L	-0.0002 mg/L	18:04:59
2	Ti 337.279†	-2277.3	181.1	0.0003 mg/L	0.0003 mg/L	18:05:04
2	Tl 190.801†	6.7	12.7	0.0271 mg/L	0.0271 mg/L	18:05:25
2	V 292.402†	-1664.3	49.1	0.0002 mg/L	0.0002 mg/L	18:05:04
2	Zn 213.857†	588.8	-49.1	-0.0017 mg/L	-0.0017 mg/L	18:05:25

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3641651.4	0.992	mg/L	0.0018				0.18%
Ag 328.068†	-289.2	-0.0007	mg/L	0.00028	-0.0007	mg/L	0.00028	39.01%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	10.3	0.0009	mg/L	0.00043	0.0009	mg/L	0.00043	46.32%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	3.9	0.0026	mg/L	0.00210	0.0026	mg/L	0.00210	81.54%
QC value within limits for As 188.979 Recovery = Not calculated								

B 182.528†	2.3	0.0060 mg/L	0.00471	0.0060 mg/L	0.00471	79.22%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	6.4	-0.0010 mg/L	0.00008	-0.0010 mg/L	0.00008	8.35%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	87.9	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	38.12%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.886†	672.2	0.0045 mg/L	0.00026	0.0045 mg/L	0.00026	5.72%
QC value within limits for Ca 315.886 Recovery = Not calculated						
Cd 228.802†	-0.3	-0.0005 mg/L	0.00015	-0.0005 mg/L	0.00015	32.68%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-9.1	-0.0011 mg/L	0.00006	-0.0011 mg/L	0.00006	5.45%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	54.3	-0.0012 mg/L	0.00037	-0.0012 mg/L	0.00037	32.21%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	185.0	-0.0007 mg/L	0.00009	-0.0007 mg/L	0.00009	12.48%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	117.2	-0.0064 mg/L	0.00041	-0.0064 mg/L	0.00041	6.31%
QC value within limits for Fe 234.349 Recovery = Not calculated						
Fe 238.204†	351.5	-0.0061 mg/L	0.00007	-0.0061 mg/L	0.00007	1.17%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	0.5	0.0911 mg/L	0.02354	0.0911 mg/L	0.02354	25.83%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li 670.784†	50.1	-0.0015 mg/L	0.00024	-0.0015 mg/L	0.00024	15.42%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	53.2	-0.0184 mg/L	0.00022	-0.0184 mg/L	0.00022	1.17%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	202.5	-0.0022 mg/L	0.00003	-0.0022 mg/L	0.00003	1.24%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	11.9	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	17.18%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	-6750.8	-0.8926 mg/L	0.00270	-0.8926 mg/L	0.00270	0.30%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-10.7	-0.0030 mg/L	0.00015	-0.0030 mg/L	0.00015	4.97%
QC value less than the lower limit for Ni 231.604 Recovery = Not calculated						
P 214.914†	17.8	0.0257 mg/L	0.00182	0.0257 mg/L	0.00182	7.09%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	1.4	-0.0009 mg/L	0.00042	-0.0009 mg/L	0.00042	46.97%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	8.7	0.0032 mg/L	0.00267	0.0032 mg/L	0.00267	83.33%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1.7	-0.0026 mg/L	0.00182	-0.0026 mg/L	0.00182	69.61%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-63.5	-0.0244 mg/L	0.00021	-0.0244 mg/L	0.00021	0.84%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	-230.6	-0.0002 mg/L	0.00000	-0.0002 mg/L	0.00000	0.56%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	167.7	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	7.32%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	10.4	0.0253 mg/L	0.00254	0.0253 mg/L	0.00254	10.04%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	69.1	0.0003 mg/L	0.00010	0.0003 mg/L	0.00010	38.02%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-43.5	-0.0017 mg/L	0.00009	-0.0017 mg/L	0.00009	5.63%
QC value within limits for Zn 213.857 Recovery = Not calculated						

QC Failed. Continue with analysis.

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Sequence No.: 39 **Autosampler Location: 29**
Sample ID: 0606383-12 **Date Collected: 6/26/2006 6:07:02 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 0606383-12

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	K 766.490†	1430.3	890.9	0.6278	mg/L	0.6278	mg/L	18:08:36
1	Li 670.784†	453.1	405.5	0.0091	mg/L	0.0091	mg/L	18:08:36
1	Na 589.592	51432.9	44239.5	5.452	mg/L	5.452	mg/L	18:08:36
1	Y 371.029	3346398.1	3346398.1	0.911	mg/L			18:08:53
1	Ag 328.068†	1498.2	3038.9	0.0125	mg/L	0.0125	mg/L	18:08:58

1	Al 237.313†	91879.9	100869.8	10.42 mg/L	10.42 mg/L	18:08:58
1	As 188.979†	194.6	208.9	0.2504 mg/L	0.2504 mg/L	18:09:18
1	B 182.528†	-4.3	-0.7	-0.0002 mg/L	-0.0002 mg/L	18:09:18
1	Ba 233.527†	26740.8	29511.0	0.2303 mg/L	0.2303 mg/L	18:08:58
1	Be 313.107†	8733.1	7191.9	0.0011 mg/L	0.0011 mg/L	18:08:58
1	Ca 315.886†	4107157.8	4505809.5	29.11 mg/L	29.11 mg/L	18:08:53
1	Cd 228.802†	476.6	396.1	0.0082 mg/L	0.0082 mg/L	18:09:18
1	Co 228.616†	2551.1	2967.5	0.0723 mg/L	0.0723 mg/L	18:09:18
1	Cr 267.716†	9345.8	9093.6	0.0519 mg/L	0.0519 mg/L	18:08:58
1	Cu 324.752†	46696.4	48459.9	0.1813 mg/L	0.1813 mg/L	18:08:58
1	Fe 234.349†	2610222.1	2863059.3	52.12 mg/L	52.12 mg/L	18:08:53
1	Fe 238.204†	5778004.1	6339433.7	51.11 mg/L	51.11 mg/L	18:08:53
1	Mg 279.077†	67556.9	73577.0	2.758 mg/L	2.758 mg/L	18:08:58
1	Mn 257.610†	6404132.9	7025666.6	7.344 mg/L	7.344 mg/L	18:08:53
1	Mo 202.031†	391.1	405.9	0.0253 mg/L	0.0253 mg/L	18:09:18
1	Ni 231.604†	3475.6	3766.8	0.1071 mg/L	0.1071 mg/L	18:09:18
1	P 214.914†	5363.8	5865.9	3.957 mg/L	3.957 mg/L	18:09:18
1	Pb 220.353†	644.1	867.0	0.0914 mg/L	0.0914 mg/L	18:09:18
1	Sb 206.836†	4.7	4.5	-0.0004 mg/L	-0.0004 mg/L	18:09:18
1	Se 196.026†	3.1	8.8	0.0095 mg/L	0.0095 mg/L	18:09:18
1	Sn 189.927†	278.8	140.8	0.0294 mg/L	0.0294 mg/L	18:09:18
1	Sr 407.771†	3089727.3	3383137.9	0.1442 mg/L	0.1442 mg/L	18:08:53
1	Ti 337.279†	405525.7	447482.0	0.5669 mg/L	0.5669 mg/L	18:08:53
1	Tl 190.801†	-94.8	-98.0	0.0649 mg/L	0.0649 mg/L	18:09:18
1	V 292.402†	8692.5	11264.0	0.0341 mg/L	0.0341 mg/L	18:08:58
1	Zn 213.857†	15705.5	16592.5	0.1947 mg/L	0.1947 mg/L	18:08:58
2	K 766.490†	1472.0	936.5	0.6553 mg/L	0.6553 mg/L	18:08:41
2	Li 670.784†	435.9	386.6	0.0085 mg/L	0.0085 mg/L	18:08:41
2	Na 589.592	51944.9	44751.5	5.515 mg/L	5.515 mg/L	18:08:41
2	Y 371.029	3346787.0	3346787.0	0.911 mg/L		18:09:27
2	Ag 328.068†	1630.9	3184.3	0.0130 mg/L	0.0130 mg/L	18:09:33
2	Al 237.313†	92926.1	102005.9	10.54 mg/L	10.54 mg/L	18:09:33
2	As 188.979†	190.9	204.9	0.2455 mg/L	0.2455 mg/L	18:09:53
2	B 182.528†	2.3	6.5	0.0144 mg/L	0.0144 mg/L	18:09:53
2	Ba 233.527†	26991.9	29783.1	0.2325 mg/L	0.2325 mg/L	18:09:33
2	Be 313.107†	8750.2	7209.4	0.0011 mg/L	0.0011 mg/L	18:09:33
2	Ca 315.886†	4095734.0	4492751.0	29.02 mg/L	29.02 mg/L	18:09:27
2	Cd 228.802†	467.7	386.3	0.0080 mg/L	0.0080 mg/L	18:09:53
2	Co 228.616†	2572.4	2990.6	0.0728 mg/L	0.0728 mg/L	18:09:53
2	Cr 267.716†	9306.8	9049.6	0.0516 mg/L	0.0516 mg/L	18:09:33
2	Cu 324.752†	47431.2	49260.2	0.1841 mg/L	0.1841 mg/L	18:09:33
2	Fe 234.349†	2595787.7	2846888.6	51.83 mg/L	51.83 mg/L	18:09:27
2	Fe 238.204†	5750820.3	6308869.9	50.87 mg/L	50.87 mg/L	18:09:27
2	Mg 279.077†	68156.4	74226.2	2.782 mg/L	2.782 mg/L	18:09:33
2	Mn 257.610†	6389560.0	7008860.0	7.327 mg/L	7.327 mg/L	18:09:27
2	Mo 202.031†	370.8	383.6	0.0239 mg/L	0.0239 mg/L	18:09:53
2	Ni 231.604†	3447.5	3735.4	0.1062 mg/L	0.1062 mg/L	18:09:53
2	P 214.914†	5313.6	5810.1	3.920 mg/L	3.920 mg/L	18:09:53
2	Pb 220.353†	634.0	855.8	0.0903 mg/L	0.0903 mg/L	18:09:53
2	Sb 206.836†	7.2	7.2	0.0009 mg/L	0.0009 mg/L	18:09:53
2	Se 196.026†	4.8	10.7	0.0116 mg/L	0.0116 mg/L	18:09:53
2	Sn 189.927†	275.0	136.7	0.0283 mg/L	0.0283 mg/L	18:09:53
2	Sr 407.771†	3089967.4	3383007.3	0.1442 mg/L	0.1442 mg/L	18:09:27
2	Ti 337.279†	405811.8	447744.2	0.5673 mg/L	0.5673 mg/L	18:09:27
2	Tl 190.801†	-107.5	-112.0	0.0537 mg/L	0.0537 mg/L	18:09:53
2	V 292.402†	8825.0	11408.3	0.0346 mg/L	0.0346 mg/L	18:09:33
2	Zn 213.857†	15937.2	16844.8	0.1978 mg/L	0.1978 mg/L	18:09:33

Mean Data: 0606383-12

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	3346592.5	0.911	mg/L	0.0001				0.01%
Ag 328.068†	3111.6	0.0128	mg/L	0.00034	0.0128	mg/L	0.00034	2.63%
Al 237.313†	101437.8	10.48	mg/L	0.086	10.48	mg/L	0.086	0.82%
As 188.979†	206.9	0.2479	mg/L	0.00346	0.2479	mg/L	0.00346	1.40%
B 182.528†	2.9	0.0071	mg/L	0.01031	0.0071	mg/L	0.01031	144.93%
Ba 233.527†	29647.1	0.2314	mg/L	0.00151	0.2314	mg/L	0.00151	0.65%
Be 313.107†	7200.6	0.0011	mg/L	0.00000	0.0011	mg/L	0.00000	0.08%
Ca 315.886†	4499280.2	29.06	mg/L	0.060	29.06	mg/L	0.060	0.21%
Cd 228.802†	391.2	0.0081	mg/L	0.00014	0.0081	mg/L	0.00014	1.76%
Co 228.616†	2979.1	0.0725	mg/L	0.00041	0.0725	mg/L	0.00041	0.56%

Cr 267.716†	9071.6	0.0518 mg/L	0.00019	0.0518 mg/L	0.00019	0.37%
Cu 324.752†	48860.0	0.1827 mg/L	0.00198	0.1827 mg/L	0.00198	1.08%
Fe 234.349†	2854974.0	51.97 mg/L	0.208	51.97 mg/L	0.208	0.40%
Fe 238.204†	6324151.8	50.99 mg/L	0.174	50.99 mg/L	0.174	0.34%
K 766.490†	913.7	0.6416 mg/L	0.01942	0.6416 mg/L	0.01942	3.03%
Li 670.784†	396.1	0.0088 mg/L	0.00040	0.0088 mg/L	0.00040	4.55%
Mg 279.077†	73901.6	2.770 mg/L	0.0170	2.770 mg/L	0.0170	0.61%
Mn 257.610†	7017263.3	7.336 mg/L	0.0124	7.336 mg/L	0.0124	0.17%
Mo 202.031†	394.8	0.0246 mg/L	0.00102	0.0246 mg/L	0.00102	4.13%
Na 589.592	44495.5	5.483 mg/L	0.0450	5.483 mg/L	0.0450	0.82%
Ni 231.604†	3751.1	0.1067 mg/L	0.00065	0.1067 mg/L	0.00065	0.61%
P 214.914†	5838.0	3.938 mg/L	0.0265	3.938 mg/L	0.0265	0.67%
Pb 220.353†	861.4	0.0908 mg/L	0.00083	0.0908 mg/L	0.00083	0.91%
Sb 206.836†	5.8	0.0002 mg/L	0.00093	0.0002 mg/L	0.00093	431.15%
Se 196.026†	9.7	0.0106 mg/L	0.00150	0.0106 mg/L	0.00150	14.16%
Sn 189.927†	138.8	0.0288 mg/L	0.00075	0.0288 mg/L	0.00075	2.58%
Sr 407.771†	3383072.6	0.1442 mg/L	0.00000	0.1442 mg/L	0.00000	0.00%
Ti 337.279†	447613.1	0.5671 mg/L	0.00023	0.5671 mg/L	0.00023	0.04%
Tl 190.801†	-105.0	0.0593 mg/L	0.00793	0.0593 mg/L	0.00793	13.36%
V 292.402†	11336.1	0.0344 mg/L	0.00038	0.0344 mg/L	0.00038	1.11%
Zn 213.857†	16718.7	0.1963 mg/L	0.00219	0.1963 mg/L	0.00219	1.11%

Sequence No.: 40
Sample ID: 0606383-13
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 6/26/2006 6:11:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606383-13

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1434.2	846.2	0.6009	mg/L	0.6009	mg/L	18:13:04
1	Li 670.784†	214.6	136.5	0.0011	mg/L	0.0011	mg/L	18:13:04
1	Na 589.592	42908.3	35714.9	4.391	mg/L	4.391	mg/L	18:13:04
1	Y 371.029	3453912.2	3453912.2	0.941	mg/L			18:13:21
1	Ag 328.068†	-2089.0	-826.2	-0.0009	mg/L	-0.0009	mg/L	18:13:26
1	Al 237.313†	32921.5	35046.6	3.530	mg/L	3.530	mg/L	18:13:26
1	As 188.979†	127.2	130.6	0.1558	mg/L	0.1558	mg/L	18:13:47
1	B 182.528†	-9.1	-5.7	-0.0102	mg/L	-0.0102	mg/L	18:13:47
1	Ba 233.527†	3866.9	4278.1	0.0325	mg/L	0.0325	mg/L	18:13:26
1	Be 313.107†	5594.0	3556.0	0.0007	mg/L	0.0007	mg/L	18:13:26
1	Ca 315.886†	689637.8	732004.9	4.729	mg/L	4.729	mg/L	18:13:21
1	Cd 228.802†	348.6	243.7	0.0050	mg/L	0.0050	mg/L	18:13:47
1	Co 228.616†	1818.4	2101.4	0.0514	mg/L	0.0514	mg/L	18:13:47
1	Cr 267.716†	4534.2	3658.7	0.0225	mg/L	0.0225	mg/L	18:13:26
1	Cu 324.752†	7107.5	4773.8	0.0230	mg/L	0.0230	mg/L	18:13:26
1	Fe 234.349†	2069339.9	2198831.0	40.03	mg/L	40.03	mg/L	18:13:21
1	Fe 238.204†	4622888.2	4913944.0	39.62	mg/L	39.62	mg/L	18:13:21
1	Mg 279.077†	29024.1	30301.4	1.095	mg/L	1.095	mg/L	18:13:26
1	Mn 257.610†	762773.7	809013.2	0.8436	mg/L	0.8436	mg/L	18:13:21
1	Mo 202.031†	364.2	363.9	0.0226	mg/L	0.0226	mg/L	18:13:47
1	Ni 231.604†	3182.6	3336.5	0.0946	mg/L	0.0946	mg/L	18:13:26
1	P 214.914†	4337.3	4591.3	3.100	mg/L	3.100	mg/L	18:13:47
1	Pb 220.353†	-142.2	9.0	-0.0013	mg/L	-0.0013	mg/L	18:13:47
1	Sb 206.836†	10.8	10.9	0.0036	mg/L	0.0036	mg/L	18:13:47
1	Se 196.026†	-4.5	0.6	0.0001	mg/L	0.0001	mg/L	18:13:47
1	Sn 189.927†	187.4	34.2	0.0018	mg/L	0.0018	mg/L	18:13:47
1	Sr 407.771†	524950.0	550724.0	0.0233	mg/L	0.0233	mg/L	18:13:21
1	Ti 337.279†	139106.7	150372.9	0.1906	mg/L	0.1906	mg/L	18:13:26
1	Tl 190.801†	-12.5	-7.4	0.0252	mg/L	0.0252	mg/L	18:13:47
1	V 292.402†	2424.9	4303.3	0.0107	mg/L	0.0107	mg/L	18:13:26
1	Zn 213.857†	15153.0	15468.6	0.1821	mg/L	0.1821	mg/L	18:13:26
2	K 766.490†	1335.5	742.9	0.5386	mg/L	0.5386	mg/L	18:13:10
2	Li 670.784†	236.6	160.2	0.0018	mg/L	0.0018	mg/L	18:13:10
2	Na 589.592	42891.4	35698.0	4.389	mg/L	4.389	mg/L	18:13:10
2	Y 371.029	3449906.7	3449906.7	0.939	mg/L			18:13:55
2	Ag 328.068†	-2246.8	-996.8	-0.0015	mg/L	-0.0015	mg/L	18:14:01
2	Al 237.313†	33278.7	35467.4	3.573	mg/L	3.573	mg/L	18:14:01
2	As 188.979†	128.5	132.1	0.1577	mg/L	0.1577	mg/L	18:14:21
2	B 182.528†	-6.2	-2.6	-0.0040	mg/L	-0.0040	mg/L	18:14:21

2	Ba 233.527†	3867.5	4283.5	0.0326 mg/L	0.0326 mg/L	18:14:01
2	Be 313.107†	5559.4	3526.1	0.0007 mg/L	0.0007 mg/L	18:14:01
2	Ca 315.886†	687589.1	730675.4	4.720 mg/L	4.720 mg/L	18:13:55
2	Cd 228.802†	352.0	247.8	0.0050 mg/L	0.0050 mg/L	18:14:21
2	Co 228.616†	1811.0	2095.8	0.0512 mg/L	0.0512 mg/L	18:14:21
2	Cr 267.716†	4531.9	3661.8	0.0225 mg/L	0.0225 mg/L	18:14:01
2	Cu 324.752†	7100.5	4775.1	0.0230 mg/L	0.0230 mg/L	18:14:01
2	Fe 234.349†	2075479.1	2207920.2	40.19 mg/L	40.19 mg/L	18:13:55
2	Fe 238.204†	4628099.7	4925198.0	39.71 mg/L	39.71 mg/L	18:13:55
2	Mg 279.077†	28997.2	30308.5	1.095 mg/L	1.095 mg/L	18:14:01
2	Mn 257.610†	761993.3	809124.1	0.8437 mg/L	0.8437 mg/L	18:13:55
2	Mo 202.031†	353.2	352.7	0.0219 mg/L	0.0219 mg/L	18:14:21
2	Ni 231.604†	3178.1	3335.7	0.0946 mg/L	0.0946 mg/L	18:14:01
2	P 214.914†	4327.1	4585.8	3.097 mg/L	3.097 mg/L	18:14:21
2	Pb 220.353†	-129.8	22.1	0.0001 mg/L	0.0001 mg/L	18:14:21
2	Sb 206.836†	12.3	12.4	0.0043 mg/L	0.0043 mg/L	18:14:21
2	Se 196.026†	-2.7	2.5	0.0023 mg/L	0.0023 mg/L	18:14:21
2	Sn 189.927†	178.7	25.2	-0.0004 mg/L	-0.0004 mg/L	18:14:21
2	Sr 407.771†	524496.7	550889.5	0.0233 mg/L	0.0233 mg/L	18:13:55
2	Ti 337.279†	139605.4	151075.5	0.1915 mg/L	0.1915 mg/L	18:14:01
2	Tl 190.801†	-10.1	-4.8	0.0273 mg/L	0.0273 mg/L	18:14:21
2	V 292.402†	2475.6	4360.3	0.0109 mg/L	0.0109 mg/L	18:14:01
2	Zn 213.857†	15314.9	15659.7	0.1844 mg/L	0.1844 mg/L	18:14:01

Mean Data: 0606383-13

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3451909.4	0.940	mg/L	0.0008				0.08%
Ag 328.068†	-911.5	-0.0012	mg/L	0.00040	-0.0012	mg/L	0.00040	33.47%
Al 237.313†	35257.0	3.551	mg/L	0.0310	3.551	mg/L	0.0310	0.87%
As 188.979†	131.4	0.1568	mg/L	0.00131	0.1568	mg/L	0.00131	0.84%
B 182.528†	-4.2	-0.0071	mg/L	0.00436	-0.0071	mg/L	0.00436	61.56%
Ba 233.527†	4280.8	0.0325	mg/L	0.00003	0.0325	mg/L	0.00003	0.09%
Be 313.107†	3541.0	0.0007	mg/L	0.00000	0.0007	mg/L	0.00000	0.56%
Ca 315.886†	731340.1	4.725	mg/L	0.0061	4.725	mg/L	0.0061	0.13%
Cd 228.802†	245.8	0.0050	mg/L	0.00006	0.0050	mg/L	0.00006	1.21%
Co 228.616†	2098.6	0.0513	mg/L	0.00010	0.0513	mg/L	0.00010	0.20%
Cr 267.716†	3660.2	0.0225	mg/L	0.00002	0.0225	mg/L	0.00002	0.09%
Cu 324.752†	4774.5	0.0230	mg/L	0.00003	0.0230	mg/L	0.00003	0.11%
Fe 234.349†	2203375.6	40.11	mg/L	0.117	40.11	mg/L	0.117	0.29%
Fe 238.204†	4919571.0	39.66	mg/L	0.064	39.66	mg/L	0.064	0.16%
K 766.490†	794.5	0.5697	mg/L	0.04403	0.5697	mg/L	0.04403	7.73%
Li 670.784†	148.4	0.0014	mg/L	0.00050	0.0014	mg/L	0.00050	35.60%
Mg 279.077†	30304.9	1.095	mg/L	0.0001	1.095	mg/L	0.0001	0.01%
Mn 257.610†	809068.6	0.8437	mg/L	0.00008	0.8437	mg/L	0.00008	0.01%
Mo 202.031†	358.3	0.0222	mg/L	0.00051	0.0222	mg/L	0.00051	2.31%
Na 589.592	35706.4	4.390	mg/L	0.0015	4.390	mg/L	0.0015	0.03%
Ni 231.604†	3336.1	0.0946	mg/L	0.00002	0.0946	mg/L	0.00002	0.02%
P 214.914†	4588.6	3.098	mg/L	0.0026	3.098	mg/L	0.0026	0.09%
Pb 220.353†	15.5	-0.0006	mg/L	0.00099	-0.0006	mg/L	0.00099	157.08%
Sb 206.836†	11.6	0.0039	mg/L	0.00051	0.0039	mg/L	0.00051	12.94%
Se 196.026†	1.6	0.0012	mg/L	0.00154	0.0012	mg/L	0.00154	129.30%
Sn 189.927†	29.7	0.0007	mg/L	0.00159	0.0007	mg/L	0.00159	222.08%
Sr 407.771†	550806.7	0.0233	mg/L	0.00000	0.0233	mg/L	0.00000	0.02%
Ti 337.279†	150724.2	0.1910	mg/L	0.00063	0.1910	mg/L	0.00063	0.33%
Tl 190.801†	-6.1	0.0263	mg/L	0.00144	0.0263	mg/L	0.00144	5.48%
V 292.402†	4331.8	0.0108	mg/L	0.00012	0.0108	mg/L	0.00012	1.14%
Zn 213.857†	15564.2	0.1833	mg/L	0.00163	0.1833	mg/L	0.00163	0.89%

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Sequence No.: 41
Sample ID: BD62617-DUP2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 6/26/2006 6:15:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BD62617-DUP2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1268.1	645.5	0.4799	mg/L	0.4799	mg/L	18:17:33

1	Li 670.784†	226.1	144.5	0.0013 mg/L	0.0013 mg/L	18:17:33
1	Na 589.592	41048.6	33855.1	4.160 mg/L	4.160 mg/L	18:17:33
1	Y 371.029	3516780.3	3516780.3	0.958 mg/L		18:17:49
1	Ag 328.068†	-2517.3	-1233.7	-0.0025 mg/L	-0.0025 mg/L	18:17:54
1	Al 237.313†	30554.9	31949.7	3.232 mg/L	3.232 mg/L	18:17:49
1	As 188.979†	115.0	115.5	0.1375 mg/L	0.1375 mg/L	18:18:14
1	B 182.528†	-9.2	-5.6	-0.0101 mg/L	-0.0101 mg/L	18:18:14
1	Ba 233.527†	3337.9	3652.2	0.0276 mg/L	0.0276 mg/L	18:18:14
1	Be 313.107†	5272.6	3114.1	0.0006 mg/L	0.0006 mg/L	18:17:54
1	Ca 315.886†	614607.0	640550.6	4.138 mg/L	4.138 mg/L	18:17:49
1	Cd 228.802†	323.5	210.9	0.0042 mg/L	0.0042 mg/L	18:18:14
1	Co 228.616†	1496.7	1730.9	0.0421 mg/L	0.0421 mg/L	18:18:14
1	Cr 267.716†	4299.3	3327.1	0.0202 mg/L	0.0202 mg/L	18:17:54
1	Cu 324.752†	5389.9	2845.3	0.0149 mg/L	0.0149 mg/L	18:17:54
1	Fe 234.349†	1748119.3	1824083.6	33.20 mg/L	33.20 mg/L	18:17:49
1	Fe 238.204†	3922241.1	4094468.0	33.01 mg/L	33.01 mg/L	18:17:49
1	Mg 279.077†	26833.5	27462.3	0.9909 mg/L	0.9909 mg/L	18:17:54
1	Mn 257.610†	675141.4	703010.4	0.7328 mg/L	0.7328 mg/L	18:17:49
1	Mo 202.031†	357.3	349.8	0.0217 mg/L	0.0217 mg/L	18:18:14
1	Ni 231.604†	2819.9	2897.3	0.0818 mg/L	0.0818 mg/L	18:17:54
1	P 214.914†	4159.8	4323.6	2.920 mg/L	2.920 mg/L	18:18:14
1	Pb 220.353†	-145.5	8.3	-0.0011 mg/L	-0.0011 mg/L	18:18:14
1	Sb 206.836†	4.1	3.7	0.0002 mg/L	0.0002 mg/L	18:18:14
1	Se 196.026†	-10.5	-5.6	-0.0071 mg/L	-0.0071 mg/L	18:18:14
1	Sn 189.927†	168.1	10.4	-0.0044 mg/L	-0.0044 mg/L	18:18:14
1	Sr 407.771†	462805.3	475855.4	0.0201 mg/L	0.0201 mg/L	18:17:49
1	Ti 337.279†	120097.3	127879.5	0.1621 mg/L	0.1621 mg/L	18:17:49
1	Tl 190.801†	-14.0	-8.7	0.0225 mg/L	0.0225 mg/L	18:18:14
1	V 292.402†	2021.0	3835.5	0.0099 mg/L	0.0099 mg/L	18:17:54
1	Zn 213.857†	13368.8	13317.6	0.1567 mg/L	0.1567 mg/L	18:17:54
2	K 766.490†	1254.0	642.9	0.4784 mg/L	0.4784 mg/L	18:17:39
2	Li 670.784†	210.7	130.4	0.0009 mg/L	0.0009 mg/L	18:17:39
2	Na 589.592	40966.6	33773.1	4.149 mg/L	4.149 mg/L	18:17:39
2	Y 371.029	3484385.6	3484385.6	0.949 mg/L		18:18:21
2	Ag 328.068†	-2305.0	-1034.4	-0.0019 mg/L	-0.0019 mg/L	18:18:27
2	Al 237.313†	30219.1	31892.4	3.226 mg/L	3.226 mg/L	18:18:21
2	As 188.979†	115.1	116.7	0.1390 mg/L	0.1390 mg/L	18:18:47
2	B 182.528†	-11.5	-8.1	-0.0150 mg/L	-0.0150 mg/L	18:18:47
2	Ba 233.527†	3303.8	3648.7	0.0276 mg/L	0.0276 mg/L	18:18:47
2	Be 313.107†	5255.0	3146.8	0.0006 mg/L	0.0006 mg/L	18:18:27
2	Ca 315.886†	607181.4	638691.3	4.126 mg/L	4.126 mg/L	18:18:21
2	Cd 228.802†	331.4	222.4	0.0045 mg/L	0.0045 mg/L	18:18:47
2	Co 228.616†	1454.9	1701.4	0.0414 mg/L	0.0414 mg/L	18:18:47
2	Cr 267.716†	4352.3	3424.8	0.0207 mg/L	0.0207 mg/L	18:18:27
2	Cu 324.752†	5401.0	2909.3	0.0151 mg/L	0.0151 mg/L	18:18:27
2	Fe 234.349†	1731776.4	1823830.5	33.20 mg/L	33.20 mg/L	18:18:21
2	Fe 238.204†	3877295.1	4085176.3	32.93 mg/L	32.93 mg/L	18:18:21
2	Mg 279.077†	27013.0	27912.0	1.008 mg/L	1.008 mg/L	18:18:27
2	Mn 257.610†	667576.7	701592.3	0.7313 mg/L	0.7313 mg/L	18:18:21
2	Mo 202.031†	336.8	331.7	0.0205 mg/L	0.0205 mg/L	18:18:47
2	Ni 231.604†	2954.5	3066.6	0.0867 mg/L	0.0867 mg/L	18:18:27
2	P 214.914†	4138.1	4341.1	2.932 mg/L	2.932 mg/L	18:18:47
2	Pb 220.353†	-152.2	-0.2	-0.0020 mg/L	-0.0020 mg/L	18:18:47
2	Sb 206.836†	5.5	5.2	0.0009 mg/L	0.0009 mg/L	18:18:47
2	Se 196.026†	-5.9	-0.8	-0.0015 mg/L	-0.0015 mg/L	18:18:47
2	Sn 189.927†	172.3	16.5	-0.0029 mg/L	-0.0029 mg/L	18:18:47
2	Sr 407.771†	458954.4	476289.8	0.0201 mg/L	0.0201 mg/L	18:18:21
2	Ti 337.279†	119074.9	127967.8	0.1622 mg/L	0.1622 mg/L	18:18:21
2	Tl 190.801†	-4.7	1.0	0.0300 mg/L	0.0300 mg/L	18:18:47
2	V 292.402†	1900.8	3728.4	0.0095 mg/L	0.0095 mg/L	18:18:27
2	Zn 213.857†	13600.8	13691.8	0.1612 mg/L	0.1612 mg/L	18:18:27

Mean Data: BD62617-DUP2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3500583.0	0.953	mg/L	0.0062				0.65%
Ag 328.068†	-1134.0	-0.0022	mg/L	0.00047	-0.0022	mg/L	0.00047	21.27%
Al 237.313†	31921.1	3.229	mg/L	0.0043	3.229	mg/L	0.0043	0.13%
As 188.979†	116.1	0.1383	mg/L	0.00107	0.1383	mg/L	0.00107	0.77%
B 182.528†	-6.9	-0.0126	mg/L	0.00352	-0.0126	mg/L	0.00352	28.04%
Ba 233.527†	3650.4	0.0276	mg/L	0.00002	0.0276	mg/L	0.00002	0.07%

Be 313.107†	3130.4	0.0006 mg/L	0.00000	0.0006 mg/L	0.00000	0.71%
Ca 315.886†	639621.0	4.132 mg/L	0.0085	4.132 mg/L	0.0085	0.21%
Cd 228.802†	216.6	0.0043 mg/L	0.00018	0.0043 mg/L	0.00018	4.21%
Co 228.616†	1716.1	0.0418 mg/L	0.00052	0.0418 mg/L	0.00052	1.26%
Cr 267.716†	3376.0	0.0205 mg/L	0.00042	0.0205 mg/L	0.00042	2.05%
Cu 324.752†	2877.3	0.0150 mg/L	0.00016	0.0150 mg/L	0.00016	1.08%
Fe 234.349†	1823957.1	33.20 mg/L	0.003	33.20 mg/L	0.003	0.01%
Fe 238.204†	4089822.1	32.97 mg/L	0.053	32.97 mg/L	0.053	0.16%
K 766.490†	644.2	0.4791 mg/L	0.00111	0.4791 mg/L	0.00111	0.23%
Li 670.784†	137.4	0.0011 mg/L	0.00030	0.0011 mg/L	0.00030	27.51%
Mg 279.077†	27687.2	0.9993 mg/L	0.01176	0.9993 mg/L	0.01176	1.18%
Mn 257.610†	702301.3	0.7320 mg/L	0.00105	0.7320 mg/L	0.00105	0.14%
Mo 202.031†	340.7	0.0211 mg/L	0.00083	0.0211 mg/L	0.00083	3.91%
Na 589.592	33814.1	4.154 mg/L	0.0072	4.154 mg/L	0.0072	0.17%
Ni 231.604†	2981.9	0.0843 mg/L	0.00349	0.0843 mg/L	0.00349	4.14%
P 214.914†	4332.3	2.926 mg/L	0.0083	2.926 mg/L	0.0083	0.28%
Pb 220.353†	4.0	-0.0016 mg/L	0.00065	-0.0016 mg/L	0.00065	40.79%
Sb 206.836†	4.4	0.0006 mg/L	0.00050	0.0006 mg/L	0.00050	83.67%
Se 196.026†	-3.2	-0.0043 mg/L	0.00392	-0.0043 mg/L	0.00392	91.21%
Sn 189.927†	13.5	-0.0036 mg/L	0.00108	-0.0036 mg/L	0.00108	29.70%
Sr 407.771†	476072.6	0.0201 mg/L	0.00001	0.0201 mg/L	0.00001	0.07%
Ti 337.279†	127923.7	0.1622 mg/L	0.00008	0.1622 mg/L	0.00008	0.05%
Tl 190.801†	-3.8	0.0262 mg/L	0.00532	0.0262 mg/L	0.00532	20.29%
V 292.402†	3782.0	0.0097 mg/L	0.00029	0.0097 mg/L	0.00029	3.01%
Zn 213.857†	13504.7	0.1590 mg/L	0.00318	0.1590 mg/L	0.00318	2.00%

Duplicate Check: BD62617-DUP2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	0.5697	0.4791	0.001	mg/L	17.3
Li 670.784	0.0014	0.0011	0.000	mg/L	26.3
Na 589.592	4.390	4.154	0.007	mg/L	5.5
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	-0.0012	-0.0022	0.000	mg/L	-60.0
Al 237.313	3.551	3.229	0.004	mg/L	9.5
As 188.979	0.1568	0.1383	0.001	mg/L	12.5
B 182.528	-0.0071	-0.0126	0.004	mg/L	-55.8
Ba 233.527	0.0325	0.0276	0.000	mg/L	16.4
Be 313.107	0.0007	0.0006	0.000	mg/L	13.1
Ca 315.886	4.725	4.132	0.008	mg/L	13.4
Cd 228.802	0.0050	0.0043	0.000	mg/L	14.5
Co 228.616	0.0513	0.0418	0.001	mg/L	20.5
Cr 267.716	0.0225	0.0205	0.000	mg/L	9.6
Cu 324.752	0.0230	0.0150	0.000	mg/L	42.3
Fe 234.349	40.11	33.20	0.003	mg/L	18.8
Fe 238.204	39.66	32.97	0.053	mg/L	18.4
Mg 279.077	1.095	0.9993	0.012	mg/L	9.1
Mn 257.610	0.8437	0.7320	0.001	mg/L	14.2
Mo 202.031	0.0222	0.0211	0.001	mg/L	5.2
Ni 231.604	0.0946	0.0843	0.003	mg/L	11.6
P 214.914	3.098	2.926	0.008	mg/L	5.7
Pb 220.353	-0.0006	-0.0016	0.001	mg/L	-86.2
Sb 206.836	0.0039	0.0006	0.000	mg/L	147.3
Se 196.026	0.0012	-0.0043	0.004	mg/L	-353.7
Sn 189.927	0.0007	-0.0036	0.001	mg/L	-297.9
Sr 407.771	0.0233	0.0201	0.000	mg/L	14.7
Ti 337.279	0.1910	0.1622	0.000	mg/L	16.4
Tl 190.801	0.0263	0.0262	0.005	mg/L	0.2
V 292.402	0.0108	0.0097	0.000	mg/L	10.7
Zn 213.857	0.1833	0.1590	0.003	mg/L	14.2

Sequence No.: 42 Autosampler Location: 32
Sample ID: BF62617-MS2 Date Collected: 6/26/2006 6:20:25 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Replicate Data: BF62617-MS2

	Net	Corrected	Calib.	Sample	Analysis

Repl#	Analyte	Intensity	Intensity	Conc.	Units	Conc.	Units	Time
1	K 766.490†	34751.6	36889.2	22.32	mg/L	22.32	mg/L	18:22:03
1	Li 670.784†	14515.1	15599.7	0.4632	mg/L	0.4632	mg/L	18:22:03
1	Na 589.592	217547.0	210353.5	26.12	mg/L	26.12	mg/L	18:22:03
1	Y 371.029	3396916.1	3396916.1	0.925	mg/L			18:22:20
1	Ag 328.068†	58862.7	65027.7	0.2200	mg/L	0.2200	mg/L	18:22:26
1	Al 237.313†	50503.1	54640.3	5.598	mg/L	5.598	mg/L	18:22:26
1	As 188.979†	434.2	464.8	0.5598	mg/L	0.5598	mg/L	18:22:46
1	B 182.528†	174.5	192.6	0.3893	mg/L	0.3893	mg/L	18:22:46
1	Ba 233.527†	55664.0	60341.7	0.4720	mg/L	0.4720	mg/L	18:22:26
1	Be 313.107†	213249.3	228139.5	0.0443	mg/L	0.0443	mg/L	18:22:26
1	Ca 315.886†	1277716.8	1380044.1	8.917	mg/L	8.917	mg/L	18:22:20
1	Cd 228.802†	8827.8	9416.3	0.2199	mg/L	0.2199	mg/L	18:22:46
1	Co 228.616†	17825.6	19438.3	0.4850	mg/L	0.4850	mg/L	18:22:26
1	Cr 267.716†	73014.6	77769.6	0.4707	mg/L	0.4707	mg/L	18:22:26
1	Cu 324.752†	126910.6	134412.6	0.4857	mg/L	0.4857	mg/L	18:22:26
1	Fe 234.349†	2103843.0	2273045.5	41.37	mg/L	41.37	mg/L	18:22:20
1	Fe 238.204†	4688741.2	5067602.4	40.86	mg/L	40.86	mg/L	18:22:20
1	Mg 279.077†	134333.2	144662.4	5.332	mg/L	5.332	mg/L	18:22:26
1	Mn 257.610†	1100988.2	1188243.8	1.240	mg/L	1.240	mg/L	18:22:20
1	Mo 202.031†	6778.7	7304.8	0.4698	mg/L	0.4698	mg/L	18:22:46
1	Ni 231.604†	17104.6	18443.6	0.5353	mg/L	0.5353	mg/L	18:22:26
1	P 214.914†	10066.3	10862.0	7.316	mg/L	7.316	mg/L	18:22:46
1	Pb 220.353†	3668.0	4125.5	0.4413	mg/L	0.4413	mg/L	18:22:46
1	Sb 206.836†	760.2	821.1	0.3736	mg/L	0.3736	mg/L	18:22:46
1	Se 196.026†	645.7	703.4	0.8088	mg/L	0.8088	mg/L	18:22:46
1	Sn 189.927†	1852.2	1837.2	0.4528	mg/L	0.4528	mg/L	18:22:46
1	Sr 407.771†	1460629.9	1571595.7	0.0669	mg/L	0.0669	mg/L	18:22:20
1	Ti 337.279†	397350.8	432026.6	0.5474	mg/L	0.5474	mg/L	18:22:20
1	Tl 190.801†	530.1	579.0	0.4851	mg/L	0.4851	mg/L	18:22:46
1	V 292.402†	113758.9	124703.1	0.4576	mg/L	0.4576	mg/L	18:22:26
1	Zn 213.857†	44772.7	47759.0	0.5712	mg/L	0.5712	mg/L	18:22:26
2	K 766.490†	34834.1	36981.0	22.38	mg/L	22.38	mg/L	18:22:08
2	Li 670.784†	14668.0	15766.1	0.4682	mg/L	0.4682	mg/L	18:22:08
2	Na 589.592	217908.4	210715.0	26.16	mg/L	26.16	mg/L	18:22:08
2	Y 371.029	3396680.3	3396680.3	0.925	mg/L			18:22:55
2	Ag 328.068†	58936.3	65111.7	0.2203	mg/L	0.2203	mg/L	18:23:00
2	Al 237.313†	50773.6	54936.5	5.630	mg/L	5.630	mg/L	18:23:00
2	As 188.979†	425.8	455.7	0.5488	mg/L	0.5488	mg/L	18:23:20
2	B 182.528†	174.9	193.1	0.3903	mg/L	0.3903	mg/L	18:23:20
2	Ba 233.527†	55777.4	60468.5	0.4730	mg/L	0.4730	mg/L	18:23:00
2	Be 313.107†	213688.8	228630.6	0.0444	mg/L	0.0444	mg/L	18:23:00
2	Ca 315.886†	1272160.2	1374132.7	8.879	mg/L	8.879	mg/L	18:22:55
2	Cd 228.802†	8782.5	9368.0	0.2189	mg/L	0.2189	mg/L	18:23:20
2	Co 228.616†	17891.4	19510.8	0.4868	mg/L	0.4868	mg/L	18:23:00
2	Cr 267.716†	73147.0	77918.2	0.4716	mg/L	0.4716	mg/L	18:23:00
2	Cu 324.752†	127725.6	135303.2	0.4888	mg/L	0.4888	mg/L	18:23:00
2	Fe 234.349†	2098828.2	2267781.9	41.28	mg/L	41.28	mg/L	18:22:55
2	Fe 238.204†	4673600.1	5051585.0	40.73	mg/L	40.73	mg/L	18:22:55
2	Mg 279.077†	134188.9	144516.5	5.327	mg/L	5.327	mg/L	18:23:00
2	Mn 257.610†	1098211.1	1185323.9	1.237	mg/L	1.237	mg/L	18:22:55
2	Mo 202.031†	6760.9	7286.0	0.4686	mg/L	0.4686	mg/L	18:23:20
2	Ni 231.604†	16965.7	18294.6	0.5310	mg/L	0.5310	mg/L	18:23:00
2	P 214.914†	9973.3	10762.2	7.249	mg/L	7.249	mg/L	18:23:20
2	Pb 220.353†	3635.0	4090.0	0.4375	mg/L	0.4375	mg/L	18:23:20
2	Sb 206.836†	759.8	820.7	0.3734	mg/L	0.3734	mg/L	18:23:20
2	Se 196.026†	637.5	694.6	0.7987	mg/L	0.7987	mg/L	18:23:20
2	Sn 189.927†	1824.9	1807.8	0.4454	mg/L	0.4454	mg/L	18:23:20
2	Sr 407.771†	1460306.7	1571356.0	0.0669	mg/L	0.0669	mg/L	18:22:55
2	Ti 337.279†	396984.4	431660.2	0.5469	mg/L	0.5469	mg/L	18:22:55
2	Tl 190.801†	538.4	588.0	0.4920	mg/L	0.4920	mg/L	18:23:20
2	V 292.402†	113936.9	124904.1	0.4583	mg/L	0.4583	mg/L	18:23:00
2	Zn 213.857†	44802.6	47794.7	0.5717	mg/L	0.5717	mg/L	18:23:00

Mean Data: BF62617-MS2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3396798.2	0.925	mg/L	0.0000				0.00%
Ag 328.068†	65069.7	0.2201	mg/L	0.00020	0.2201	mg/L	0.00020	0.09%
Al 237.313†	54788.4	5.614	mg/L	0.0225	5.614	mg/L	0.0225	0.40%
As 188.979†	460.3	0.5543	mg/L	0.00780	0.5543	mg/L	0.00780	1.41%

B 182.528†	192.8	0.3898 mg/L	0.00071	0.3898 mg/L	0.00071	0.18%
Ba 233.527†	60405.1	0.4725 mg/L	0.00070	0.4725 mg/L	0.00070	0.15%
Be 313.107†	228385.0	0.0443 mg/L	0.00007	0.0443 mg/L	0.00007	0.15%
Ca 315.886†	1377088.4	8.898 mg/L	0.0270	8.898 mg/L	0.0270	0.30%
Cd 228.802†	9392.2	0.2194 mg/L	0.00075	0.2194 mg/L	0.00075	0.34%
Co 228.616†	19474.5	0.4859 mg/L	0.00129	0.4859 mg/L	0.00129	0.26%
Cr 267.716†	77843.9	0.4711 mg/L	0.00063	0.4711 mg/L	0.00063	0.13%
Cu 324.752†	134857.9	0.4872 mg/L	0.00223	0.4872 mg/L	0.00223	0.46%
Fe 234.349†	2270413.7	41.33 mg/L	0.068	41.33 mg/L	0.068	0.16%
Fe 238.204†	5059593.7	40.79 mg/L	0.091	40.79 mg/L	0.091	0.22%
K 766.490†	36935.1	22.35 mg/L	0.039	22.35 mg/L	0.039	0.17%
Li 670.784†	15682.9	0.4657 mg/L	0.00352	0.4657 mg/L	0.00352	0.76%
Mg 279.077†	144589.5	5.330 mg/L	0.0038	5.330 mg/L	0.0038	0.07%
Mn 257.610†	1186783.8	1.239 mg/L	0.0022	1.239 mg/L	0.0022	0.17%
Mo 202.031†	7295.4	0.4692 mg/L	0.00085	0.4692 mg/L	0.00085	0.18%
Na 589.592	210534.3	26.14 mg/L	0.032	26.14 mg/L	0.032	0.12%
Ni 231.604†	18369.1	0.5331 mg/L	0.00307	0.5331 mg/L	0.00307	0.58%
P 214.914†	10812.1	7.282 mg/L	0.0474	7.282 mg/L	0.0474	0.65%
Pb 220.353†	4107.8	0.4394 mg/L	0.00268	0.4394 mg/L	0.00268	0.61%
Sb 206.836†	820.9	0.3735 mg/L	0.00014	0.3735 mg/L	0.00014	0.04%
Se 196.026†	699.0	0.8037 mg/L	0.00716	0.8037 mg/L	0.00716	0.89%
Sn 189.927†	1822.5	0.4491 mg/L	0.00520	0.4491 mg/L	0.00520	1.16%
Sr 407.771†	1571475.8	0.0669 mg/L	0.00001	0.0669 mg/L	0.00001	0.01%
Ti 337.279†	431843.4	0.5471 mg/L	0.00033	0.5471 mg/L	0.00033	0.06%
Tl 190.801†	583.5	0.4886 mg/L	0.00489	0.4886 mg/L	0.00489	1.00%
V 292.402†	124803.6	0.4580 mg/L	0.00051	0.4580 mg/L	0.00051	0.11%
Zn 213.857†	47776.9	0.5714 mg/L	0.00033	0.5714 mg/L	0.00033	0.06%

Matrix Recovery Check: BF62617-MS2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	25.57	22.35	0.039	mg/L	87.1
Li 670.784	0.5014	0.4657	0.004	mg/L	92.9
Na 589.592	29.39	26.14	0.032	mg/L	87.0
Ag 328.068	0.2488	0.2201	0.000	mg/L	88.5
Al 237.313	6.051	5.614	0.022	mg/L	82.5
As 188.979	0.6568	0.5543	0.008	mg/L	79.5
B 182.528	0.4929	0.3898	0.001	mg/L	79.4
Ba 233.527	0.5325	0.4725	0.001	mg/L	88.0
Be 313.107	0.0507	0.0443	0.000	mg/L	87.2
Ca 315.886	9.725	8.898	0.027	mg/L	83.5
Cd 228.802	0.2550	0.2194	0.001	mg/L	85.8
Co 228.616	0.5513	0.4859	0.001	mg/L	86.9
Cr 267.716	0.5225	0.4711	0.001	mg/L	89.7
Cu 324.752	0.5230	0.4872	0.002	mg/L	92.8
Fe 234.349	42.61	41.33	0.068	mg/L	48.6
Fe 238.204	42.16	40.79	0.091	mg/L	45.2
Mg 279.077	6.095	5.330	0.004	mg/L	84.7
Mn 257.610	1.344	1.239	0.002	mg/L	79.0
Mo 202.031	0.5222	0.4692	0.001	mg/L	89.4
Ni 231.604	0.5946	0.5331	0.003	mg/L	87.7
P 214.914	8.098	7.282	0.047	mg/L	83.7
Pb 220.353	0.4994	0.4394	0.003	mg/L	88.0
Sb 206.836	0.5039	0.3735	0.000	mg/L	73.9
Se 196.026	1.001	0.8037	0.007	mg/L	80.3
Sn 189.927	0.5007	0.4491	0.005	mg/L	89.7
Sr 407.771	0.0733	0.0669	0.000	mg/L	87.2
Ti 337.279	0.6910	0.5471	0.000	mg/L	71.2
Tl 190.801	0.5263	0.4886	0.005	mg/L	92.5
V 292.402	0.5108	0.4580	0.001	mg/L	89.4
Zn 213.857	0.6833	0.5714	0.000	mg/L	77.6

Sequence No.: 43
Sample ID: BF62617-MSD2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 6/26/2006 6:24:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62617-MSD2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	33991.7	36393.3	22.03	mg/L	22.03	mg/L	18:26:38
1	Li 670.784†	14332.8	15539.9	0.4614	mg/L	0.4614	mg/L	18:26:38
1	Na 589.592	209823.8	202630.4	25.16	mg/L	25.16	mg/L	18:26:38
1	Y 371.029	3367088.4	3367088.4	0.917	mg/L			18:26:55
1	Ag 328.068†	58380.2	65065.2	0.2202	mg/L	0.2202	mg/L	18:27:01
1	Al 237.313†	52531.8	57336.5	5.873	mg/L	5.873	mg/L	18:27:01
1	As 188.979†	430.4	464.8	0.5597	mg/L	0.5597	mg/L	18:27:21
1	B 182.528†	174.8	194.6	0.3933	mg/L	0.3933	mg/L	18:27:21
1	Ba 233.527†	55193.5	60361.7	0.4721	mg/L	0.4721	mg/L	18:27:01
1	Be 313.107†	212189.7	229026.0	0.0444	mg/L	0.0444	mg/L	18:27:01
1	Ca 315.886†	1301405.7	1418115.8	9.163	mg/L	9.163	mg/L	18:26:55
1	Cd 228.802†	8732.2	9396.5	0.2195	mg/L	0.2195	mg/L	18:27:21
1	Co 228.616†	17683.4	19453.9	0.4854	mg/L	0.4854	mg/L	18:27:01
1	Cr 267.716†	72314.0	77704.7	0.4704	mg/L	0.4704	mg/L	18:27:01
1	Cu 324.752†	126441.9	135116.7	0.4886	mg/L	0.4886	mg/L	18:27:01
1	Fe 234.349†	2200544.5	2398657.3	43.66	mg/L	43.66	mg/L	18:26:55
1	Fe 238.204†	4895759.3	5338281.5	43.04	mg/L	43.04	mg/L	18:26:55
1	Mg 279.077†	137278.7	149161.3	5.499	mg/L	5.499	mg/L	18:27:01
1	Mn 257.610†	1136915.7	1237970.5	1.292	mg/L	1.292	mg/L	18:26:55
1	Mo 202.031†	6728.7	7315.2	0.4705	mg/L	0.4705	mg/L	18:27:21
1	Ni 231.604†	16864.6	18345.6	0.5325	mg/L	0.5325	mg/L	18:27:01
1	P 214.914†	9537.7	10381.9	6.993	mg/L	6.993	mg/L	18:27:21
1	Pb 220.353†	3626.2	4115.0	0.4401	mg/L	0.4401	mg/L	18:27:21
1	Sb 206.836†	747.8	814.9	0.3707	mg/L	0.3707	mg/L	18:27:21
1	Se 196.026†	627.0	689.2	0.7925	mg/L	0.7925	mg/L	18:27:21
1	Sn 189.927†	1821.5	1821.5	0.4489	mg/L	0.4489	mg/L	18:27:21
1	Sr 407.771†	1467242.0	1592794.7	0.0678	mg/L	0.0678	mg/L	18:26:55
1	Ti 337.279†	407801.0	447229.0	0.5666	mg/L	0.5666	mg/L	18:26:55
1	Tl 190.801†	515.8	568.5	0.4778	mg/L	0.4778	mg/L	18:27:21
1	V 292.402†	113301.7	125293.9	0.4595	mg/L	0.4595	mg/L	18:27:01
1	Zn 213.857†	44287.6	47658.8	0.5698	mg/L	0.5698	mg/L	18:27:01
2	K 766.490†	34281.5	36790.3	22.26	mg/L	22.26	mg/L	18:26:43
2	Li 670.784†	14393.0	15639.7	0.4644	mg/L	0.4644	mg/L	18:26:43
2	Na 589.592	211998.1	204804.6	25.43	mg/L	25.43	mg/L	18:26:43
2	Y 371.029	3359805.4	3359805.4	0.915	mg/L			18:27:30
2	Ag 328.068†	58192.1	64997.6	0.2200	mg/L	0.2200	mg/L	18:27:35
2	Al 237.313†	52559.0	57490.4	5.888	mg/L	5.888	mg/L	18:27:35
2	As 188.979†	425.9	460.9	0.5551	mg/L	0.5551	mg/L	18:27:55
2	B 182.528†	170.1	189.8	0.3837	mg/L	0.3837	mg/L	18:27:55
2	Ba 233.527†	55233.5	60535.9	0.4735	mg/L	0.4735	mg/L	18:27:35
2	Be 313.107†	211859.4	229166.7	0.0445	mg/L	0.0445	mg/L	18:27:35
2	Ca 315.886†	1300959.9	1420705.1	9.180	mg/L	9.180	mg/L	18:27:30
2	Cd 228.802†	8644.5	9321.3	0.2177	mg/L	0.2177	mg/L	18:27:55
2	Co 228.616†	17766.7	19586.8	0.4887	mg/L	0.4887	mg/L	18:27:35
2	Cr 267.716†	72043.8	77580.3	0.4697	mg/L	0.4697	mg/L	18:27:35
2	Cu 324.752†	126487.4	135465.4	0.4899	mg/L	0.4899	mg/L	18:27:35
2	Fe 234.349†	2208383.3	2412427.2	43.91	mg/L	43.91	mg/L	18:27:30
2	Fe 238.204†	4900327.5	5354848.5	43.17	mg/L	43.17	mg/L	18:27:30
2	Mg 279.077†	137166.2	149362.9	5.506	mg/L	5.506	mg/L	18:27:35
2	Mn 257.610†	1136926.1	1240669.6	1.295	mg/L	1.295	mg/L	18:27:30
2	Mo 202.031†	6667.1	7263.7	0.4671	mg/L	0.4671	mg/L	18:27:55
2	Ni 231.604†	16838.8	18357.3	0.5328	mg/L	0.5328	mg/L	18:27:35
2	P 214.914†	9478.6	10339.9	6.965	mg/L	6.965	mg/L	18:27:55
2	Pb 220.353†	3563.2	4054.7	0.4336	mg/L	0.4336	mg/L	18:27:55
2	Sb 206.836†	739.9	808.0	0.3675	mg/L	0.3675	mg/L	18:27:55
2	Se 196.026†	629.0	692.8	0.7966	mg/L	0.7966	mg/L	18:27:55
2	Sn 189.927†	1815.3	1819.0	0.4483	mg/L	0.4483	mg/L	18:27:55
2	Sr 407.771†	1467814.8	1596889.6	0.0680	mg/L	0.0680	mg/L	18:27:30
2	Ti 337.279†	407756.3	448144.2	0.5678	mg/L	0.5678	mg/L	18:27:30
2	Tl 190.801†	521.9	576.4	0.4839	mg/L	0.4839	mg/L	18:27:55
2	V 292.402†	112846.7	125064.5	0.4585	mg/L	0.4585	mg/L	18:27:35
2	Zn 213.857†	44209.7	47678.3	0.5700	mg/L	0.5700	mg/L	18:27:35

Mean Data: BF62617-MSD2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3363446.9	0.916	mg/L	0.0014				0.15%
Ag 328.068†	65031.4	0.2201	mg/L	0.00015	0.2201	mg/L	0.00015	0.07%
Al 237.313†	57413.5	5.881	mg/L	0.0107	5.881	mg/L	0.0107	0.18%

As 188.979†	462.8	0.5574 mg/L	0.00329	0.5574 mg/L	0.00329	0.59%
B 182.528†	192.2	0.3885 mg/L	0.00676	0.3885 mg/L	0.00676	1.74%
Ba 233.527†	60448.8	0.4728 mg/L	0.00096	0.4728 mg/L	0.00096	0.20%
Be 313.107†	229096.3	0.0445 mg/L	0.00002	0.0445 mg/L	0.00002	0.04%
Ca 315.886†	1419410.4	9.172 mg/L	0.0118	9.172 mg/L	0.0118	0.13%
Cd 228.802†	9358.9	0.2186 mg/L	0.00121	0.2186 mg/L	0.00121	0.56%
Co 228.616†	19520.3	0.4870 mg/L	0.00235	0.4870 mg/L	0.00235	0.48%
Cr 267.716†	77642.5	0.4700 mg/L	0.00052	0.4700 mg/L	0.00052	0.11%
Cu 324.752†	135291.1	0.4892 mg/L	0.00091	0.4892 mg/L	0.00091	0.19%
Fe 234.349†	2405542.2	43.79 mg/L	0.177	43.79 mg/L	0.177	0.40%
Fe 238.204†	5346565.0	43.11 mg/L	0.094	43.11 mg/L	0.094	0.22%
K 766.490†	36591.8	22.15 mg/L	0.169	22.15 mg/L	0.169	0.76%
Li 670.784†	15589.8	0.4629 mg/L	0.00211	0.4629 mg/L	0.00211	0.46%
Mg 279.077†	149262.1	5.502 mg/L	0.0052	5.502 mg/L	0.0052	0.10%
Mn 257.610†	1239320.0	1.294 mg/L	0.0020	1.294 mg/L	0.0020	0.15%
Mo 202.031†	7289.5	0.4688 mg/L	0.00234	0.4688 mg/L	0.00234	0.50%
Na 589.592	203717.5	25.29 mg/L	0.191	25.29 mg/L	0.191	0.76%
Ni 231.604†	18351.4	0.5326 mg/L	0.00024	0.5326 mg/L	0.00024	0.05%
P 214.914†	10360.9	6.979 mg/L	0.0200	6.979 mg/L	0.0200	0.29%
Pb 220.353†	4084.8	0.4368 mg/L	0.00458	0.4368 mg/L	0.00458	1.05%
Sb 206.836†	811.5	0.3691 mg/L	0.00224	0.3691 mg/L	0.00224	0.61%
Se 196.026†	691.0	0.7946 mg/L	0.00292	0.7946 mg/L	0.00292	0.37%
Sn 189.927†	1820.3	0.4486 mg/L	0.00042	0.4486 mg/L	0.00042	0.09%
Sr 407.771†	1594842.1	0.0679 mg/L	0.00012	0.0679 mg/L	0.00012	0.18%
Ti 337.279†	447686.6	0.5672 mg/L	0.00082	0.5672 mg/L	0.00082	0.14%
Tl 190.801†	572.5	0.4808 mg/L	0.00436	0.4808 mg/L	0.00436	0.91%
V 292.402†	125179.2	0.4590 mg/L	0.00066	0.4590 mg/L	0.00066	0.14%
Zn 213.857†	47668.6	0.5699 mg/L	0.00015	0.5699 mg/L	0.00015	0.03%

Duplicate Check: BF62617-MSD2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	22.35	22.15	0.169	mg/L	0.9
Li 670.784	0.4657	0.4629	0.002	mg/L	0.6
Na 589.592	26.14	25.29	0.191	mg/L	3.3
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.2201	0.2201	0.000	mg/L	0.0
Al 237.313	5.614	5.881	0.011	mg/L	4.6
As 188.979	0.5543	0.5574	0.003	mg/L	0.6
B 182.528	0.3898	0.3885	0.007	mg/L	0.3
Ba 233.527	0.4725	0.4728	0.001	mg/L	0.1
Be 313.107	0.0443	0.0445	0.000	mg/L	0.3
Ca 315.886	8.898	9.172	0.012	mg/L	3.0
Cd 228.802	0.2194	0.2186	0.001	mg/L	0.4
Co 228.616	0.4859	0.4870	0.002	mg/L	0.2
Cr 267.716	0.4711	0.4700	0.001	mg/L	0.2
Cu 324.752	0.4872	0.4892	0.001	mg/L	0.4
Fe 234.349	41.33	43.79	0.177	mg/L	5.8
Fe 238.204	40.79	43.11	0.094	mg/L	5.5
Mg 279.077	5.330	5.502	0.005	mg/L	3.2
Mn 257.610	1.239	1.294	0.002	mg/L	4.3
Mo 202.031	0.4692	0.4688	0.002	mg/L	0.1
Ni 231.604	0.5331	0.5326	0.000	mg/L	0.1
P 214.914	7.282	6.979	0.020	mg/L	4.3
Pb 220.353	0.4394	0.4368	0.005	mg/L	0.6
Sb 206.836	0.3735	0.3691	0.002	mg/L	1.2
Se 196.026	0.8037	0.7946	0.003	mg/L	1.2
Sn 189.927	0.4491	0.4486	0.000	mg/L	0.1
Sr 407.771	0.0669	0.0679	0.000	mg/L	1.5
Ti 337.279	0.5471	0.5672	0.001	mg/L	3.6
Tl 190.801	0.4886	0.4808	0.004	mg/L	1.6
V 292.402	0.4580	0.4590	0.001	mg/L	0.2
Zn 213.857	0.5714	0.5699	0.000	mg/L	0.3

Sequence No.: 44
Sample ID: BF62617-SD2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 34
Date Collected: 6/26/2006 6:29:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62617-SD2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	832.3	162.1	0.1886	mg/L	0.1886	mg/L	18:31:13
1	Li 670.784†	133.0	42.7	-0.0018	mg/L	-0.0018	mg/L	18:31:13
1	Na 589.592	9096.6	1903.2	0.1841	mg/L	0.1841	mg/L	18:31:13
1	Y 371.029	3635304.1	3635304.1	0.990	mg/L			18:31:27
1	Ag 328.068†	-2136.1	-762.9	-0.0020	mg/L	-0.0020	mg/L	18:31:32
1	Al 237.313†	7086.7	7203.1	0.7263	mg/L	0.7263	mg/L	18:31:32
1	As 188.979†	33.2	28.9	0.0328	mg/L	0.0328	mg/L	18:31:53
1	B 182.528†	-1.7	2.3	0.0058	mg/L	0.0058	mg/L	18:31:53
1	Ba 233.527†	680.3	853.9	0.0057	mg/L	0.0057	mg/L	18:31:53
1	Be 313.107†	3177.4	818.2	0.0002	mg/L	0.0002	mg/L	18:31:32
1	Ca 315.886†	143851.7	144093.4	0.9310	mg/L	0.9310	mg/L	18:31:27
1	Cd 228.802†	156.5	31.1	0.0002	mg/L	0.0002	mg/L	18:31:53
1	Co 228.616†	246.9	417.5	0.0095	mg/L	0.0095	mg/L	18:31:53
1	Cr 267.716†	2048.3	907.0	0.0044	mg/L	0.0044	mg/L	18:31:32
1	Cu 324.752†	3439.9	691.9	0.0026	mg/L	0.0026	mg/L	18:31:32
1	Fe 234.349†	436896.6	440038.8	8.003	mg/L	8.003	mg/L	18:31:27
1	Fe 238.204†	991497.6	1000448.2	8.059	mg/L	8.059	mg/L	18:31:27
1	Mg 279.077†	6604.7	6114.7	0.2046	mg/L	0.2046	mg/L	18:31:32
1	Mn 257.610†	161969.6	161645.4	0.1666	mg/L	0.1666	mg/L	18:31:27
1	Mo 202.031†	106.1	83.9	0.0046	mg/L	0.0046	mg/L	18:31:53
1	Ni 231.604†	715.0	675.0	0.0170	mg/L	0.0170	mg/L	18:31:53
1	P 214.914†	946.7	936.2	0.6431	mg/L	0.6431	mg/L	18:31:53
1	Pb 220.353†	-136.8	22.0	0.0011	mg/L	0.0011	mg/L	18:31:53
1	Sb 206.836†	5.3	4.7	0.0012	mg/L	0.0012	mg/L	18:31:53
1	Se 196.026†	-9.2	-3.9	-0.0051	mg/L	-0.0051	mg/L	18:31:53
1	Sn 189.927†	114.7	-49.2	-0.0204	mg/L	-0.0204	mg/L	18:31:53
1	Sr 407.771†	115060.3	108825.0	0.0044	mg/L	0.0044	mg/L	18:31:27
1	Ti 337.279†	26907.8	29655.5	0.0377	mg/L	0.0377	mg/L	18:31:32
1	Tl 190.801†	-4.4	1.5	0.0212	mg/L	0.0212	mg/L	18:31:53
1	V 292.402†	-735.9	981.8	0.0026	mg/L	0.0026	mg/L	18:31:32
1	Zn 213.857†	3932.2	3330.1	0.0384	mg/L	0.0384	mg/L	18:31:53
2	K 766.490†	825.5	153.7	0.1835	mg/L	0.1835	mg/L	18:31:18
2	Li 670.784†	184.9	94.8	-0.0002	mg/L	-0.0002	mg/L	18:31:18
2	Na 589.592	9084.5	1891.1	0.1826	mg/L	0.1826	mg/L	18:31:18
2	Y 371.029	3642105.8	3642105.8	0.992	mg/L			18:31:59
2	Ag 328.068†	-2033.4	-655.3	-0.0016	mg/L	-0.0016	mg/L	18:32:05
2	Al 237.313†	6965.6	7067.6	0.7118	mg/L	0.7118	mg/L	18:32:05
2	As 188.979†	30.7	26.4	0.0298	mg/L	0.0298	mg/L	18:32:25
2	B 182.528†	-1.4	2.5	0.0064	mg/L	0.0064	mg/L	18:32:25
2	Ba 233.527†	709.5	882.1	0.0059	mg/L	0.0059	mg/L	18:32:25
2	Be 313.107†	3199.8	834.8	0.0002	mg/L	0.0002	mg/L	18:32:05
2	Ca 315.886†	144149.9	144122.6	0.9312	mg/L	0.9312	mg/L	18:31:59
2	Cd 228.802†	169.2	43.7	0.0005	mg/L	0.0005	mg/L	18:32:25
2	Co 228.616†	267.1	437.4	0.0100	mg/L	0.0100	mg/L	18:32:25
2	Cr 267.716†	2087.5	942.7	0.0046	mg/L	0.0046	mg/L	18:32:05
2	Cu 324.752†	3555.8	802.4	0.0030	mg/L	0.0030	mg/L	18:32:05
2	Fe 234.349†	438770.2	441103.7	8.023	mg/L	8.023	mg/L	18:31:59
2	Fe 238.204†	991930.7	999014.3	8.047	mg/L	8.047	mg/L	18:31:59
2	Mg 279.077†	6573.4	6070.6	0.2030	mg/L	0.2030	mg/L	18:32:05
2	Mn 257.610†	162026.1	161396.8	0.1664	mg/L	0.1664	mg/L	18:31:59
2	Mo 202.031†	101.1	78.7	0.0042	mg/L	0.0042	mg/L	18:32:25
2	Ni 231.604†	738.7	697.6	0.0177	mg/L	0.0177	mg/L	18:32:25
2	P 214.914†	947.1	934.9	0.6422	mg/L	0.6422	mg/L	18:32:25
2	Pb 220.353†	-163.6	-4.7	-0.0018	mg/L	-0.0018	mg/L	18:32:25
2	Sb 206.836†	6.3	5.7	0.0017	mg/L	0.0017	mg/L	18:32:25
2	Se 196.026†	-7.4	-2.0	-0.0029	mg/L	-0.0029	mg/L	18:32:25
2	Sn 189.927†	105.9	-58.3	-0.0227	mg/L	-0.0227	mg/L	18:32:25
2	Sr 407.771†	115018.9	108566.2	0.0044	mg/L	0.0044	mg/L	18:31:59
2	Ti 337.279†	26709.8	29405.1	0.0374	mg/L	0.0374	mg/L	18:32:05
2	Tl 190.801†	-4.3	1.6	0.0212	mg/L	0.0212	mg/L	18:32:25
2	V 292.402†	-735.0	984.2	0.0026	mg/L	0.0026	mg/L	18:32:05
2	Zn 213.857†	3937.9	3328.4	0.0383	mg/L	0.0383	mg/L	18:32:25

Mean Data: BF62617-SD2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3638704.9	0.991	mg/L	0.0013				0.13%

Ag 328.068†	-709.1	-0.0018 mg/L	0.00026	-0.0018 mg/L	0.00026	14.09%
Al 237.313†	7135.3	0.7190 mg/L	0.01019	0.7190 mg/L	0.01019	1.42%
As 188.979†	27.6	0.0313 mg/L	0.00215	0.0313 mg/L	0.00215	6.88%
B 182.528†	2.4	0.0061 mg/L	0.00037	0.0061 mg/L	0.00037	6.04%
Ba 233.527†	868.0	0.0058 mg/L	0.00016	0.0058 mg/L	0.00016	2.69%
Be 313.107†	826.5	0.0002 mg/L	0.00000	0.0002 mg/L	0.00000	1.51%
Ca 315.886†	144108.0	0.9311 mg/L	0.00013	0.9311 mg/L	0.00013	0.01%
Cd 228.802†	37.4	0.0004 mg/L	0.00022	0.0004 mg/L	0.00022	58.68%
Co 228.616†	427.5	0.0097 mg/L	0.00035	0.0097 mg/L	0.00035	3.63%
Cr 267.716†	924.8	0.0045 mg/L	0.00015	0.0045 mg/L	0.00015	3.43%
Cu 324.752†	747.2	0.0028 mg/L	0.00028	0.0028 mg/L	0.00028	10.18%
Fe 234.349†	440571.2	8.013 mg/L	0.0137	8.013 mg/L	0.0137	0.17%
Fe 238.204†	999731.2	8.053 mg/L	0.0082	8.053 mg/L	0.0082	0.10%
K 766.490†	157.9	0.1860 mg/L	0.00359	0.1860 mg/L	0.00359	1.93%
Li 670.784†	68.7	-0.0010 mg/L	0.00110	-0.0010 mg/L	0.00110	113.20%
Mg 279.077†	6092.6	0.2038 mg/L	0.00116	0.2038 mg/L	0.00116	0.57%
Mn 257.610†	161521.1	0.1665 mg/L	0.00018	0.1665 mg/L	0.00018	0.11%
Mo 202.031†	81.3	0.0044 mg/L	0.00024	0.0044 mg/L	0.00024	5.35%
Na 589.592	1897.1	0.1834 mg/L	0.00106	0.1834 mg/L	0.00106	0.58%
Ni 231.604†	686.3	0.0173 mg/L	0.00047	0.0173 mg/L	0.00047	2.69%
P 214.914†	935.6	0.6427 mg/L	0.00064	0.6427 mg/L	0.00064	0.10%
Pb 220.353†	8.6	-0.0004 mg/L	0.00203	-0.0004 mg/L	0.00203	549.41%
Sb 206.836†	5.2	0.0014 mg/L	0.00031	0.0014 mg/L	0.00031	21.88%
Se 196.026†	-2.9	-0.0040 mg/L	0.00150	-0.0040 mg/L	0.00150	37.41%
Sn 189.927†	-53.8	-0.0216 mg/L	0.00161	-0.0216 mg/L	0.00161	7.45%
Sr 407.771†	108695.6	0.0044 mg/L	0.00001	0.0044 mg/L	0.00001	0.18%
Ti 337.279†	29530.3	0.0375 mg/L	0.00022	0.0375 mg/L	0.00022	0.60%
Tl 190.801†	1.6	0.0212 mg/L	0.00003	0.0212 mg/L	0.00003	0.16%
V 292.402†	983.0	0.0026 mg/L	0.00000	0.0026 mg/L	0.00000	0.02%
Zn 213.857†	3329.3	0.0384 mg/L	0.00002	0.0384 mg/L	0.00002	0.05%

Dilution Check: BF62617-SD2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	0.1139	0.1860	0.004	mg/L	63.3
Li 670.784	0.0003	-0.0010	0.001	mg/L	445.7
Na 589.592	0.8780	0.1834	0.001	mg/L	79.1
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	-0.0002	-0.0018	0.000	mg/L	-658.9
Al 237.313	0.7103	0.7190	0.010	mg/L	1.2
As 188.979	0.0314	0.0313	0.002	mg/L	0.2
B 182.528	-0.0014	0.0061	0.000	mg/L	-531.3
Ba 233.527	0.0065	0.0058	0.000	mg/L	11.0
Be 313.107	0.0001	0.0002	0.000	mg/L	20.5
Ca 315.886	0.9449	0.9311	0.000	mg/L	1.5
Cd 228.802	0.0010	0.0004	0.000	mg/L	62.1
Co 228.616	0.0103	0.0097	0.000	mg/L	5.0
Cr 267.716	0.0045	0.0045	0.000	mg/L	0.6
Cu 324.752	0.0046	0.0028	0.000	mg/L	40.1
Fe 234.349	8.022	8.013	0.014	mg/L	0.1
Fe 238.204	7.932	8.053	0.008	mg/L	1.5
Mg 279.077	0.2189	0.2038	0.001	mg/L	6.9
Mn 257.610	0.1687	0.1665	0.000	mg/L	1.3
Mo 202.031	0.0044	0.0044	0.000	mg/L	1.2
Ni 231.604	0.0189	0.0173	0.000	mg/L	8.4
P 214.914	0.6197	0.6427	0.001	mg/L	3.7
Pb 220.353	-0.0001	-0.0004	0.002	mg/L	-192.1
Sb 206.836	0.0008	0.0014	0.000	mg/L	83.2
Se 196.026	0.0002	-0.0040	0.001	mg/L	1780.8
Sn 189.927	0.0001	-0.0216	0.002	mg/L	15187.8
Sr 407.771	0.0047	0.0044	0.000	mg/L	5.5
Ti 337.279	0.0382	0.0375	0.000	mg/L	1.8
Tl 190.801	0.0053	0.0212	0.000	mg/L	303.9
V 292.402	0.0022	0.0026	0.000	mg/L	20.6
Zn 213.857	0.0367	0.0384	0.000	mg/L	4.7

Sequence No.: 45
Sample ID: BF62617-PDS2
Analyst:
Initial Sample Wt:

Autosampler Location: 35
Date Collected: 6/26/2006 6:34:04 PM
Data Type: Original
Initial Sample Vol:

Dilution: Sample Prep Vol:

Replicate Data: BF62617-PDS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	39138.5	42128.6	25.48	mg/L	25.48	mg/L	18:35:42
1	Li 670.784†	16261.6	17694.3	0.5258	mg/L	0.5258	mg/L	18:35:42
1	Na 589.592	237146.6	229953.1	28.56	mg/L	28.56	mg/L	18:35:42
1	Y 371.029	3357474.9	3357474.9	0.914	mg/L			18:36:00
1	Ag 328.068†	67075.0	74757.4	0.2527	mg/L	0.2527	mg/L	18:36:05
1	Al 237.313†	54638.9	59805.2	6.136	mg/L	6.136	mg/L	18:36:05
1	As 188.979†	472.8	512.5	0.6175	mg/L	0.6175	mg/L	18:36:25
1	B 182.528†	202.9	225.9	0.4563	mg/L	0.4563	mg/L	18:36:25
1	Ba 233.527†	62668.6	68709.8	0.5376	mg/L	0.5376	mg/L	18:36:05
1	Be 313.107†	236050.6	255786.2	0.0496	mg/L	0.0496	mg/L	18:36:00
1	Ca 315.886†	1394175.5	1523645.6	9.845	mg/L	9.845	mg/L	18:36:00
1	Cd 228.802†	9770.7	10559.6	0.2468	mg/L	0.2468	mg/L	18:36:25
1	Co 228.616†	20209.9	22272.4	0.5559	mg/L	0.5559	mg/L	18:36:05
1	Cr 267.716†	81437.9	87909.7	0.5321	mg/L	0.5321	mg/L	18:36:05
1	Cu 324.752†	143123.0	153756.3	0.5550	mg/L	0.5550	mg/L	18:36:05
1	Fe 234.349†	2176656.2	2379401.5	43.31	mg/L	43.31	mg/L	18:36:00
1	Fe 238.204†	4850298.5	5303847.5	42.76	mg/L	42.76	mg/L	18:36:00
1	Mg 279.077†	149674.2	163147.4	6.017	mg/L	6.017	mg/L	18:36:05
1	Mn 257.610†	1198120.1	1308462.5	1.366	mg/L	1.366	mg/L	18:36:00
1	Mo 202.031†	7565.7	8251.7	0.5308	mg/L	0.5308	mg/L	18:36:25
1	Ni 231.604†	19032.1	20768.9	0.6032	mg/L	0.6032	mg/L	18:36:05
1	P 214.914†	10654.9	11633.6	7.834	mg/L	7.834	mg/L	18:36:25
1	Pb 220.353†	4048.0	4587.6	0.4909	mg/L	0.4909	mg/L	18:36:25
1	Sb 206.836†	910.8	995.5	0.4540	mg/L	0.4540	mg/L	18:36:25
1	Se 196.026†	715.2	787.6	0.9057	mg/L	0.9057	mg/L	18:36:25
1	Sn 189.927†	2033.9	2059.5	0.5084	mg/L	0.5084	mg/L	18:36:25
1	Sr 407.771†	1601998.0	1744764.5	0.0743	mg/L	0.0743	mg/L	18:36:00
1	Ti 337.279†	445436.2	489665.5	0.6204	mg/L	0.6204	mg/L	18:36:00
1	Tl 190.801†	594.9	656.6	0.5471	mg/L	0.5471	mg/L	18:36:25
1	V 292.402†	128148.8	141886.5	0.5211	mg/L	0.5211	mg/L	18:36:05
1	Zn 213.857†	51643.0	55841.9	0.6687	mg/L	0.6687	mg/L	18:36:05
2	K 766.490†	38964.2	41962.8	25.38	mg/L	25.38	mg/L	18:35:47
2	Li 670.784†	16333.1	17782.9	0.5284	mg/L	0.5284	mg/L	18:35:47
2	Na 589.592	238720.8	231527.4	28.75	mg/L	28.75	mg/L	18:35:47
2	Y 371.029	3355519.2	3355519.2	0.914	mg/L			18:36:35
2	Ag 328.068†	66073.7	73704.3	0.2492	mg/L	0.2492	mg/L	18:36:40
2	Al 237.313†	54254.0	59418.8	6.095	mg/L	6.095	mg/L	18:36:40
2	As 188.979†	464.9	504.2	0.6073	mg/L	0.6073	mg/L	18:37:01
2	B 182.528†	206.6	230.1	0.4648	mg/L	0.4648	mg/L	18:37:01
2	Ba 233.527†	62099.1	68126.5	0.5330	mg/L	0.5330	mg/L	18:36:40
2	Be 313.107†	234863.0	254637.0	0.0494	mg/L	0.0494	mg/L	18:36:35
2	Ca 315.886†	1390614.1	1520636.9	9.826	mg/L	9.826	mg/L	18:36:35
2	Cd 228.802†	9745.7	10538.5	0.2463	mg/L	0.2463	mg/L	18:37:01
2	Co 228.616†	19992.0	22046.9	0.5502	mg/L	0.5502	mg/L	18:36:40
2	Cr 267.716†	80845.4	87313.2	0.5285	mg/L	0.5285	mg/L	18:36:40
2	Cu 324.752†	142466.1	153128.7	0.5528	mg/L	0.5528	mg/L	18:36:40
2	Fe 234.349†	2172686.0	2376444.2	43.26	mg/L	43.26	mg/L	18:36:35
2	Fe 238.204†	4835611.0	5290865.7	42.66	mg/L	42.66	mg/L	18:36:35
2	Mg 279.077†	147624.4	160999.5	5.938	mg/L	5.938	mg/L	18:36:40
2	Mn 257.610†	1195766.9	1306650.9	1.364	mg/L	1.364	mg/L	18:36:35
2	Mo 202.031†	7614.3	8309.6	0.5345	mg/L	0.5345	mg/L	18:37:01
2	Ni 231.604†	18642.6	20354.8	0.5911	mg/L	0.5911	mg/L	18:36:40
2	P 214.914†	10655.4	11640.9	7.839	mg/L	7.839	mg/L	18:37:01
2	Pb 220.353†	4075.1	4619.9	0.4944	mg/L	0.4944	mg/L	18:37:01
2	Sb 206.836†	905.5	990.3	0.4517	mg/L	0.4517	mg/L	18:37:01
2	Se 196.026†	712.5	785.1	0.9028	mg/L	0.9028	mg/L	18:37:01
2	Sn 189.927†	2043.1	2070.9	0.5113	mg/L	0.5113	mg/L	18:37:01
2	Sr 407.771†	1604548.8	1748577.3	0.0744	mg/L	0.0744	mg/L	18:36:35
2	Ti 337.279†	444603.6	489038.3	0.6196	mg/L	0.6196	mg/L	18:36:35
2	Tl 190.801†	595.8	658.0	0.5481	mg/L	0.5481	mg/L	18:37:01
2	V 292.402†	127597.4	141364.8	0.5193	mg/L	0.5193	mg/L	18:36:40
2	Zn 213.857†	51109.1	55290.5	0.6621	mg/L	0.6621	mg/L	18:36:40

Mean Data: BF62617-PDS2

	Mean Corrected	Calib	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	3356497.1	0.914	mg/L	0.0004				0.04%
Ag 328.068†	74230.8	0.2509	mg/L	0.00249	0.2509	mg/L	0.00249	0.99%
Al 237.313†	59612.0	6.116	mg/L	0.0288	6.116	mg/L	0.0288	0.47%
As 188.979†	508.4	0.6124	mg/L	0.00717	0.6124	mg/L	0.00717	1.17%
B 182.528†	228.0	0.4606	mg/L	0.00595	0.4606	mg/L	0.00595	1.29%
Ba 233.527†	68418.2	0.5353	mg/L	0.00323	0.5353	mg/L	0.00323	0.60%
Be 313.107†	255211.6	0.0495	mg/L	0.00016	0.0495	mg/L	0.00016	0.32%
Ca 315.886†	1522141.3	9.835	mg/L	0.0138	9.835	mg/L	0.0138	0.14%
Cd 228.802†	10549.1	0.2465	mg/L	0.00033	0.2465	mg/L	0.00033	0.13%
Co 228.616†	22159.6	0.5530	mg/L	0.00399	0.5530	mg/L	0.00399	0.72%
Cr 267.716†	87611.4	0.5303	mg/L	0.00255	0.5303	mg/L	0.00255	0.48%
Cu 324.752†	153442.5	0.5539	mg/L	0.00159	0.5539	mg/L	0.00159	0.29%
Fe 234.349†	2377922.8	43.28	mg/L	0.038	43.28	mg/L	0.038	0.09%
Fe 238.204†	5297356.6	42.71	mg/L	0.074	42.71	mg/L	0.074	0.17%
K 766.490†	42045.7	25.43	mg/L	0.071	25.43	mg/L	0.071	0.28%
Li 670.784†	17738.6	0.5271	mg/L	0.00187	0.5271	mg/L	0.00187	0.36%
Mg 279.077†	162073.5	5.977	mg/L	0.0562	5.977	mg/L	0.0562	0.94%
Mn 257.610†	1307556.7	1.365	mg/L	0.0013	1.365	mg/L	0.0013	0.10%
Mo 202.031†	8280.7	0.5327	mg/L	0.00264	0.5327	mg/L	0.00264	0.50%
Na 589.592	230740.3	28.66	mg/L	0.138	28.66	mg/L	0.138	0.48%
Ni 231.604†	20561.8	0.5971	mg/L	0.00853	0.5971	mg/L	0.00853	1.43%
P 214.914†	11637.2	7.837	mg/L	0.0035	7.837	mg/L	0.0035	0.04%
Pb 220.353†	4603.8	0.4927	mg/L	0.00245	0.4927	mg/L	0.00245	0.50%
Sb 206.836†	992.9	0.4528	mg/L	0.00167	0.4528	mg/L	0.00167	0.37%
Se 196.026†	786.4	0.9042	mg/L	0.00200	0.9042	mg/L	0.00200	0.22%
Sn 189.927†	2065.2	0.5099	mg/L	0.00201	0.5099	mg/L	0.00201	0.40%
Sr 407.771†	1746670.9	0.0744	mg/L	0.00012	0.0744	mg/L	0.00012	0.15%
Ti 337.279†	489351.9	0.6200	mg/L	0.00056	0.6200	mg/L	0.00056	0.09%
Tl 190.801†	657.3	0.5476	mg/L	0.00077	0.5476	mg/L	0.00077	0.14%
V 292.402†	141625.7	0.5202	mg/L	0.00130	0.5202	mg/L	0.00130	0.25%
Zn 213.857†	55566.2	0.6654	mg/L	0.00466	0.6654	mg/L	0.00466	0.70%

Matrix Recovery Check: BF62617-PDS2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	25.57	25.43	0.071	mg/L	99.5
Li 670.784	0.5014	0.5271	0.002	mg/L	105.1
Na 589.592	29.39	28.66	0.138	mg/L	97.1
Ag 328.068	0.2488	0.2509	0.002	mg/L	100.9
Al 237.313	6.051	6.116	0.029	mg/L	102.6
As 188.979	0.6568	0.6124	0.007	mg/L	91.1
B 182.528	0.4929	0.4606	0.006	mg/L	93.5
Ba 233.527	0.5325	0.5353	0.003	mg/L	100.5
Be 313.107	0.0507	0.0495	0.000	mg/L	97.6
Ca 315.886	9.725	9.835	0.014	mg/L	102.2
Cd 228.802	0.2550	0.2465	0.000	mg/L	96.6
Co 228.616	0.5513	0.5530	0.004	mg/L	100.4
Cr 267.716	0.5225	0.5303	0.003	mg/L	101.5
Cu 324.752	0.5230	0.5539	0.002	mg/L	106.2
Fe 234.349	42.61	43.28	0.038	mg/L	126.9
Fe 238.204	42.16	42.71	0.074	mg/L	121.9
Mg 279.077	6.095	5.977	0.056	mg/L	97.7
Mn 257.610	1.344	1.365	0.001	mg/L	104.3
Mo 202.031	0.5222	0.5327	0.003	mg/L	102.1
Ni 231.604	0.5946	0.5971	0.009	mg/L	100.5
P 214.914	8.098	7.837	0.003	mg/L	94.8
Pb 220.353	0.4994	0.4927	0.002	mg/L	98.7
Sb 206.836	0.5039	0.4528	0.002	mg/L	89.8
Se 196.026	1.001	0.9042	0.002	mg/L	90.3
Sn 189.927	0.5007	0.5099	0.002	mg/L	101.8
Sr 407.771	0.0733	0.0744	0.000	mg/L	102.1
Ti 337.279	0.6910	0.6200	0.001	mg/L	85.8
Tl 190.801	0.5263	0.5476	0.001	mg/L	104.3
V 292.402	0.5108	0.5202	0.001	mg/L	101.9
Zn 213.857	0.6833	0.6654	0.005	mg/L	96.4

Sequence No.: 46
Sample ID: 0606383-14
Analyst:

Autosampler Location: 36
Date Collected: 6/26/2006 6:38:40 PM
Data Type: Original

Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Replicate Data: 0606383-14

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1443.6	879.6	0.6210	mg/L	0.6210	mg/L	18:40:16
1	Li 670.784†	248.1	176.1	0.0022	mg/L	0.0022	mg/L	18:40:16
1	Na 589.592	44087.2	36893.7	4.538	mg/L	4.538	mg/L	18:40:16
1	Y 371.029	3401834.6	3401834.6	0.926	mg/L			18:40:33
1	Ag 328.068†	-2229.4	-1011.8	-0.0014	mg/L	-0.0014	mg/L	18:40:38
1	Al 237.313†	35827.4	38719.3	3.900	mg/L	3.900	mg/L	18:40:38
1	As 188.979†	124.9	130.2	0.1553	mg/L	0.1553	mg/L	18:40:59
1	B 182.528†	-8.9	-5.6	-0.0100	mg/L	-0.0100	mg/L	18:40:59
1	Ba 233.527†	4140.4	4636.2	0.0353	mg/L	0.0353	mg/L	18:40:38
1	Be 313.107†	5801.3	3870.9	0.0008	mg/L	0.0008	mg/L	18:40:38
1	Ca 315.886†	719791.0	775779.2	5.012	mg/L	5.012	mg/L	18:40:33
1	Cd 228.802†	353.7	254.9	0.0053	mg/L	0.0053	mg/L	18:40:59
1	Co 228.616†	1903.4	2222.8	0.0544	mg/L	0.0544	mg/L	18:40:59
1	Cr 267.716†	4763.4	3979.8	0.0247	mg/L	0.0247	mg/L	18:40:38
1	Cu 324.752†	6220.3	3931.8	0.0207	mg/L	0.0207	mg/L	18:40:38
1	Fe 234.349†	2248861.0	2426300.8	44.17	mg/L	44.17	mg/L	18:40:33
1	Fe 238.204†	5001598.0	5397995.4	43.52	mg/L	43.52	mg/L	18:40:33
1	Mg 279.077†	29941.8	31764.3	1.147	mg/L	1.147	mg/L	18:40:38
1	Mn 257.610†	749741.3	807360.1	0.8419	mg/L	0.8419	mg/L	18:40:33
1	Mo 202.031†	409.3	418.6	0.0261	mg/L	0.0261	mg/L	18:40:59
1	Ni 231.604†	3412.4	3636.4	0.1033	mg/L	0.1033	mg/L	18:40:38
1	P 214.914†	4494.4	4831.5	3.262	mg/L	3.262	mg/L	18:40:59
1	Pb 220.353†	-129.8	20.1	-0.0003	mg/L	-0.0003	mg/L	18:40:59
1	Sb 206.836†	8.1	8.1	0.0022	mg/L	0.0022	mg/L	18:40:59
1	Se 196.026†	-3.8	1.3	0.0009	mg/L	0.0009	mg/L	18:40:59
1	Sn 189.927†	188.4	38.3	0.0030	mg/L	0.0030	mg/L	18:40:59
1	Sr 407.771†	548552.5	584746.5	0.0247	mg/L	0.0247	mg/L	18:40:33
1	Ti 337.279†	136277.6	149583.1	0.1896	mg/L	0.1896	mg/L	18:40:38
1	Tl 190.801†	-3.0	2.7	0.0331	mg/L	0.0331	mg/L	18:40:59
1	V 292.402†	3014.6	4979.4	0.0127	mg/L	0.0127	mg/L	18:40:38
1	Zn 213.857†	14546.1	15060.2	0.1767	mg/L	0.1767	mg/L	18:40:38
2	K 766.490†	1437.6	861.6	0.6101	mg/L	0.6101	mg/L	18:40:22
2	Li 670.784†	270.7	198.4	0.0029	mg/L	0.0029	mg/L	18:40:22
2	Na 589.592	43771.9	36578.5	4.498	mg/L	4.498	mg/L	18:40:22
2	Y 371.029	3427371.1	3427371.1	0.933	mg/L			18:41:07
2	Ag 328.068†	-2239.1	-1004.2	-0.0013	mg/L	-0.0013	mg/L	18:41:13
2	Al 237.313†	35725.7	38322.2	3.857	mg/L	3.857	mg/L	18:41:13
2	As 188.979†	125.7	130.1	0.1553	mg/L	0.1553	mg/L	18:41:33
2	B 182.528†	-10.1	-6.9	-0.0126	mg/L	-0.0126	mg/L	18:41:33
2	Ba 233.527†	4100.7	4560.4	0.0347	mg/L	0.0347	mg/L	18:41:13
2	Be 313.107†	5866.4	3893.9	0.0008	mg/L	0.0008	mg/L	18:41:13
2	Ca 315.886†	725546.7	776156.9	5.014	mg/L	5.014	mg/L	18:41:07
2	Cd 228.802†	331.1	227.8	0.0046	mg/L	0.0046	mg/L	18:41:33
2	Co 228.616†	1883.0	2185.6	0.0535	mg/L	0.0535	mg/L	18:41:33
2	Cr 267.716†	4645.3	3815.0	0.0237	mg/L	0.0237	mg/L	18:41:13
2	Cu 324.752†	6177.8	3836.2	0.0204	mg/L	0.0204	mg/L	18:41:13
2	Fe 234.349†	2272161.5	2433178.4	44.29	mg/L	44.29	mg/L	18:41:07
2	Fe 238.204†	5049209.9	5408781.0	43.61	mg/L	43.61	mg/L	18:41:07
2	Mg 279.077†	29869.1	31445.6	1.135	mg/L	1.135	mg/L	18:41:13
2	Mn 257.610†	756231.2	808283.5	0.8428	mg/L	0.8428	mg/L	18:41:07
2	Mo 202.031†	402.9	408.5	0.0255	mg/L	0.0255	mg/L	18:41:33
2	Ni 231.604†	3389.0	3583.9	0.1018	mg/L	0.1018	mg/L	18:41:13
2	P 214.914†	4469.7	4768.9	3.220	mg/L	3.220	mg/L	18:41:33
2	Pb 220.353†	-140.2	10.0	-0.0014	mg/L	-0.0014	mg/L	18:41:33
2	Sb 206.836†	3.7	3.3	0.0000	mg/L	0.0000	mg/L	18:41:33
2	Se 196.026†	-2.6	2.7	0.0024	mg/L	0.0024	mg/L	18:41:33
2	Sn 189.927†	186.2	34.4	0.0021	mg/L	0.0021	mg/L	18:41:33
2	Sr 407.771†	552649.6	584724.3	0.0247	mg/L	0.0247	mg/L	18:41:07
2	Ti 337.279†	135176.7	147307.5	0.1867	mg/L	0.1867	mg/L	18:41:13
2	Tl 190.801†	-13.7	-8.7	0.0242	mg/L	0.0242	mg/L	18:41:33
2	V 292.402†	3002.3	4942.0	0.0125	mg/L	0.0125	mg/L	18:41:13
2	Zn 213.857†	14535.6	14931.8	0.1752	mg/L	0.1752	mg/L	18:41:13

Mean Data: 0606383-14

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3414602.9	0.930	mg/L	0.0049				0.53%
Ag 328.068†	-1008.0	-0.0013	mg/L	0.00002	-0.0013	mg/L	0.00002	1.57%
Al 237.313†	38520.7	3.879	mg/L	0.0301	3.879	mg/L	0.0301	0.78%
As 188.979†	130.2	0.1553	mg/L	0.00005	0.1553	mg/L	0.00005	0.03%
B 182.528†	-6.3	-0.0113	mg/L	0.00179	-0.0113	mg/L	0.00179	15.86%
Ba 233.527†	4598.3	0.0350	mg/L	0.00042	0.0350	mg/L	0.00042	1.20%
Be 313.107†	3882.4	0.0008	mg/L	0.00001	0.0008	mg/L	0.00001	0.70%
Ca 315.886†	775968.0	5.013	mg/L	0.0017	5.013	mg/L	0.0017	0.03%
Cd 228.802†	241.4	0.0050	mg/L	0.00045	0.0050	mg/L	0.00045	9.11%
Co 228.616†	2204.2	0.0539	mg/L	0.00065	0.0539	mg/L	0.00065	1.21%
Cr 267.716†	3897.4	0.0242	mg/L	0.00070	0.0242	mg/L	0.00070	2.90%
Cu 324.752†	3884.0	0.0206	mg/L	0.00023	0.0206	mg/L	0.00023	1.10%
Fe 234.349†	2429739.6	44.23	mg/L	0.089	44.23	mg/L	0.089	0.20%
Fe 238.204†	5403388.2	43.56	mg/L	0.061	43.56	mg/L	0.061	0.14%
K 766.490†	870.6	0.6156	mg/L	0.00768	0.6156	mg/L	0.00768	1.25%
Li 670.784†	187.2	0.0026	mg/L	0.00047	0.0026	mg/L	0.00047	18.32%
Mg 279.077†	31605.0	1.141	mg/L	0.0084	1.141	mg/L	0.0084	0.73%
Mn 257.610†	807821.8	0.8424	mg/L	0.00068	0.8424	mg/L	0.00068	0.08%
Mo 202.031†	413.5	0.0258	mg/L	0.00046	0.0258	mg/L	0.00046	1.78%
Na 589.592	36736.1	4.518	mg/L	0.0277	4.518	mg/L	0.0277	0.61%
Ni 231.604†	3610.1	0.1026	mg/L	0.00108	0.1026	mg/L	0.00108	1.05%
P 214.914†	4800.2	3.241	mg/L	0.0297	3.241	mg/L	0.0297	0.92%
Pb 220.353†	15.0	-0.0008	mg/L	0.00078	-0.0008	mg/L	0.00078	95.77%
Sb 206.836†	5.7	0.0011	mg/L	0.00155	0.0011	mg/L	0.00155	140.06%
Se 196.026†	2.0	0.0016	mg/L	0.00111	0.0016	mg/L	0.00111	67.46%
Sn 189.927†	36.4	0.0025	mg/L	0.00067	0.0025	mg/L	0.00067	26.43%
Sr 407.771†	584735.4	0.0247	mg/L	0.00000	0.0247	mg/L	0.00000	0.00%
Ti 337.279†	148445.3	0.1882	mg/L	0.00204	0.1882	mg/L	0.00204	1.08%
Tl 190.801†	-3.0	0.0286	mg/L	0.00630	0.0286	mg/L	0.00630	22.00%
V 292.402†	4960.7	0.0126	mg/L	0.00011	0.0126	mg/L	0.00011	0.90%
Zn 213.857†	14996.0	0.1760	mg/L	0.00110	0.1760	mg/L	0.00110	0.63%

Sequence No.: 47
Sample ID: 0606394-08
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 6/26/2006 6:43:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606394-08

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	17204.4	16564.0	10.07	mg/L	10.07	mg/L	18:44:48
1	Li 670.784†	3713.6	3630.2	0.1055	mg/L	0.1055	mg/L	18:44:48
1	Na 589.592	50353.7	43160.3	5.317	mg/L	5.317	mg/L	18:44:48
1	Y 371.029	3664052.0	3664052.0	0.998	mg/L			18:45:18
1	Ag 328.068†	-3674.6	-2287.9	0.0002	mg/L	0.0002	mg/L	18:45:24
1	Al 237.313†	859278.8	861234.3	90.26	mg/L	90.26	mg/L	18:45:18
1	As 188.979†	53.7	49.2	0.0501	mg/L	0.0501	mg/L	18:45:44
1	B 182.528†	15.3	19.3	0.0401	mg/L	0.0401	mg/L	18:45:44
1	Ba 233.527†	85963.7	86321.7	0.6755	mg/L	0.6755	mg/L	18:45:24
1	Be 313.107†	27120.7	24789.4	-0.0024	mg/L	-0.0024	mg/L	18:45:24
1	Ca 315.886†	8372533.0	8389935.4	54.20	mg/L	54.20	mg/L	18:45:10
1	Cd 228.802†	144.4	17.8	0.0016	mg/L	0.0016	mg/L	18:45:44
1	Co 228.616†	4735.7	4914.3	0.1062	mg/L	0.1062	mg/L	18:45:44
1	Cr 267.716†	10740.3	9602.1	0.0661	mg/L	0.0661	mg/L	18:45:24
1	Cu 324.752†	44328.1	41643.9	0.1877	mg/L	0.1877	mg/L	18:45:24
1	Fe 234.349†	10400649.8	10422489.2	189.8	mg/L	189.8	mg/L	18:45:10
1	Fe 238.204†	21189351.1	21235364.3	171.2	mg/L	171.2	mg/L	18:45:10
1	Mg 279.077†	896889.5	898327.1	33.19	mg/L	33.19	mg/L	18:45:18
1	Mn 257.610†	2612407.5	2616249.4	2.734	mg/L	2.734	mg/L	18:45:18
1	Mo 202.031†	255.7	233.0	0.0142	mg/L	0.0142	mg/L	18:45:24
1	Ni 231.604†	3676.5	3637.5	0.1034	mg/L	0.1034	mg/L	18:45:44
1	P 214.914†	37947.9	38012.2	25.57	mg/L	25.57	mg/L	18:45:24
1	Pb 220.353†	404.9	566.0	0.0683	mg/L	0.0683	mg/L	18:45:44
1	Sb 206.836†	44.2	43.6	0.0111	mg/L	0.0111	mg/L	18:45:44
1	Se 196.026†	1.3	6.7	0.0071	mg/L	0.0071	mg/L	18:45:44
1	Sn 189.927†	40.1	-124.9	-0.0243	mg/L	-0.0243	mg/L	18:45:44
1	Sr 407.771†	2294581.5	2292281.7	0.0977	mg/L	0.0977	mg/L	18:45:18

1	Sb 206.836†	1028.4	1055.2	0.4830 mg/L	0.4830 mg/L	18:55:31
1	Se 196.026†	819.1	846.4	0.9733 mg/L	0.9733 mg/L	18:55:31
1	Sn 189.927†	2009.6	1898.3	0.4664 mg/L	0.4664 mg/L	18:55:31
1	Sr 407.771†	1128257.9	1151051.2	0.0489 mg/L	0.0489 mg/L	18:55:05
1	Ti 337.279†	373521.1	385992.5	0.4891 mg/L	0.4891 mg/L	18:55:10
1	Tl 190.801†	656.3	679.8	0.5510 mg/L	0.5510 mg/L	18:55:31
1	V 292.402†	127897.4	133045.6	0.4936 mg/L	0.4936 mg/L	18:55:10
1	Zn 213.857†	40403.3	40842.6	0.4912 mg/L	0.4912 mg/L	18:55:10
2	K 766.490†	39117.2	39598.1	23.96 mg/L	23.96 mg/L	18:54:55
2	Li 670.784†	16385.0	16779.1	0.4984 mg/L	0.4984 mg/L	18:54:55
2	Na 589.592	197583.0	190389.6	23.64 mg/L	23.64 mg/L	18:54:55
2	Y 371.029	3566474.5	3566474.5	0.971 mg/L		18:55:37
2	Ag 328.068†	69691.4	73152.2	0.2457 mg/L	0.2457 mg/L	18:55:43
2	Al 237.313†	22302.7	23008.3	2.425 mg/L	2.425 mg/L	18:55:43
2	As 188.979†	384.4	391.2	0.4706 mg/L	0.4706 mg/L	18:56:03
2	B 182.528†	222.4	233.0	0.4707 mg/L	0.4707 mg/L	18:56:03
2	Ba 233.527†	60818.1	62787.7	0.4911 mg/L	0.4911 mg/L	18:55:43
2	Be 313.107†	244222.9	249071.3	0.0482 mg/L	0.0482 mg/L	18:55:37
2	Ca 315.886†	735091.4	755664.5	4.884 mg/L	4.884 mg/L	18:55:37
2	Cd 228.802†	10266.0	10443.4	0.2442 mg/L	0.2442 mg/L	18:56:03
2	Co 228.616†	18855.7	19582.8	0.4888 mg/L	0.4888 mg/L	18:55:43
2	Cr 267.716†	79851.7	81056.8	0.4887 mg/L	0.4887 mg/L	18:55:43
2	Cu 324.752†	137344.7	138633.4	0.4937 mg/L	0.4937 mg/L	18:55:43
2	Fe 234.349†	133548.1	136214.9	2.466 mg/L	2.466 mg/L	18:55:43
2	Fe 238.204†	300825.3	308630.3	2.481 mg/L	2.481 mg/L	18:55:43
2	Mg 279.077†	130084.4	133383.6	4.922 mg/L	4.922 mg/L	18:55:43
2	Mn 257.610†	460000.7	471669.1	0.4909 mg/L	0.4909 mg/L	18:55:37
2	Mo 202.031†	7421.3	7618.1	0.4900 mg/L	0.4900 mg/L	18:56:03
2	Ni 231.604†	16489.9	16931.5	0.4913 mg/L	0.4913 mg/L	18:55:43
2	P 214.914†	7005.5	7193.0	4.849 mg/L	4.849 mg/L	18:56:03
2	Pb 220.353†	4303.7	4591.5	0.4926 mg/L	0.4926 mg/L	18:56:03
2	Sb 206.836†	1022.7	1052.3	0.4817 mg/L	0.4817 mg/L	18:56:03
2	Se 196.026†	809.8	839.3	0.9651 mg/L	0.9651 mg/L	18:56:03
2	Sn 189.927†	1993.6	1887.6	0.4637 mg/L	0.4637 mg/L	18:56:03
2	Sr 407.771†	1127966.9	1154001.9	0.0490 mg/L	0.0490 mg/L	18:55:37
2	Ti 337.279†	371679.1	385172.0	0.4880 mg/L	0.4880 mg/L	18:55:43
2	Tl 190.801†	649.8	675.0	0.5472 mg/L	0.5472 mg/L	18:56:03
2	V 292.402†	127481.0	132985.3	0.4934 mg/L	0.4934 mg/L	18:55:43
2	Zn 213.857†	40111.7	40658.7	0.4890 mg/L	0.4890 mg/L	18:55:43

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3571477.9	0.973	mg/L	0.0019				0.20%
Ag 328.068†	73182.8	0.2458	mg/L	0.00015	0.2458	mg/L	0.00015	0.06%
QC value within limits for Ag 328.068 Recovery = 98.31%								
Al 237.313†	23104.8	2.435	mg/L	0.0144	2.435	mg/L	0.0144	0.59%
QC value within limits for Al 237.313 Recovery = 97.40%								
As 188.979†	394.6	0.4748	mg/L	0.00593	0.4748	mg/L	0.00593	1.25%
QC value within limits for As 188.979 Recovery = 94.96%								
B 182.528†	231.7	0.4682	mg/L	0.00352	0.4682	mg/L	0.00352	0.75%
QC value within limits for B 182.528 Recovery = 93.63%								
Ba 233.527†	62901.8	0.4920	mg/L	0.00126	0.4920	mg/L	0.00126	0.26%
QC value within limits for Ba 233.527 Recovery = 98.40%								
Be 313.107†	249053.6	0.0482	mg/L	0.00001	0.0482	mg/L	0.00001	0.01%
QC value within limits for Be 313.107 Recovery = 96.40%								
Ca 315.886†	754730.1	4.878	mg/L	0.0085	4.878	mg/L	0.0085	0.17%
QC value within limits for Ca 315.886 Recovery = 97.56%								
Cd 228.802†	10445.5	0.2443	mg/L	0.00004	0.2443	mg/L	0.00004	0.02%
QC value within limits for Cd 228.802 Recovery = 97.70%								
Co 228.616†	19616.0	0.4896	mg/L	0.00118	0.4896	mg/L	0.00118	0.24%
QC value within limits for Co 228.616 Recovery = 97.92%								
Cr 267.716†	81047.1	0.4887	mg/L	0.00008	0.4887	mg/L	0.00008	0.02%
QC value within limits for Cr 267.716 Recovery = 97.73%								
Cu 324.752†	138604.9	0.4936	mg/L	0.00014	0.4936	mg/L	0.00014	0.03%
QC value within limits for Cu 324.752 Recovery = 98.71%								
Fe 234.349†	136711.3	2.475	mg/L	0.0128	2.475	mg/L	0.0128	0.52%
QC value within limits for Fe 234.349 Recovery = 99.01%								
Fe 238.204†	309504.4	2.488	mg/L	0.0100	2.488	mg/L	0.0100	0.40%
QC value within limits for Fe 238.204 Recovery = 99.50%								
K 766.490†	39489.2	23.89	mg/L	0.093	23.89	mg/L	0.093	0.39%

	QC value within limits for K 766.490 Recovery = 95.57%					
Li 670.784†	16764.9	0.4980 mg/L	0.00060	0.4980 mg/L	0.00060	0.12%
	QC value within limits for Li 670.784 Recovery = 99.60%					
Mg 279.077†	133581.6	4.930 mg/L	0.0104	4.930 mg/L	0.0104	0.21%
	QC value within limits for Mg 279.077 Recovery = 98.59%					
Mn 257.610†	471377.0	0.4906 mg/L	0.00043	0.4906 mg/L	0.00043	0.09%
	QC value within limits for Mn 257.610 Recovery = 98.12%					
Mo 202.031†	7609.4	0.4894 mg/L	0.00079	0.4894 mg/L	0.00079	0.16%
	QC value within limits for Mo 202.031 Recovery = 97.88%					
Na 589.592	190792.2	23.69 mg/L	0.071	23.69 mg/L	0.071	0.30%
	QC value within limits for Na 589.592 Recovery = 94.74%					
Ni 231.604†	16966.3	0.4923 mg/L	0.00143	0.4923 mg/L	0.00143	0.29%
	QC value within limits for Ni 231.604 Recovery = 98.46%					
P 214.914†	7195.7	4.851 mg/L	0.0026	4.851 mg/L	0.0026	0.05%
	QC value within limits for P 214.914 Recovery = 97.02%					
Pb 220.353†	4586.4	0.4920 mg/L	0.00078	0.4920 mg/L	0.00078	0.16%
	QC value within limits for Pb 220.353 Recovery = 98.41%					
Sb 206.836†	1053.8	0.4823 mg/L	0.00096	0.4823 mg/L	0.00096	0.20%
	QC value within limits for Sb 206.836 Recovery = 96.47%					
Se 196.026†	842.8	0.9692 mg/L	0.00579	0.9692 mg/L	0.00579	0.60%
	QC value within limits for Se 196.026 Recovery = 96.92%					
Sn 189.927†	1893.0	0.4651 mg/L	0.00189	0.4651 mg/L	0.00189	0.41%
	QC value within limits for Sn 189.927 Recovery = 93.02%					
Sr 407.771†	1152526.5	0.0490 mg/L	0.00009	0.0490 mg/L	0.00009	0.18%
	QC value within limits for Sr 407.771 Recovery = 97.97%					
Ti 337.279†	385582.2	0.4885 mg/L	0.00073	0.4885 mg/L	0.00073	0.15%
	QC value within limits for Ti 337.279 Recovery = 97.71%					
Tl 190.801†	677.4	0.5491 mg/L	0.00266	0.5491 mg/L	0.00266	0.48%
	QC value within limits for Tl 190.801 Recovery = 109.82%					
V 292.402†	133015.5	0.4935 mg/L	0.00014	0.4935 mg/L	0.00014	0.03%
	QC value within limits for V 292.402 Recovery = 98.69%					
Zn 213.857†	40750.6	0.4901 mg/L	0.00156	0.4901 mg/L	0.00156	0.32%
	QC value within limits for Zn 213.857 Recovery = 98.03%					

All analyte(s) passed QC.

Sequence No.: 50
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/26/2006 6:57:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490†	629.0	-38.7	0.0676	mg/L	0.0676	mg/L	18:59:17
1	Li 670.784†	143.8	54.7	-0.0014	mg/L	-0.0014	mg/L	18:59:17
1	Na 589.592	-153.2	-7346.6	-0.9667	mg/L	-0.9667	mg/L	18:59:17
1	Y 371.029	3608938.6	3608938.6	0.983	mg/L			18:59:31
1	Ag 328.068†	-1692.9	-327.8	-0.0009	mg/L	-0.0009	mg/L	18:59:36
1	Al 237.313†	-19.2	24.9	0.0025	mg/L	0.0025	mg/L	18:59:56
1	As 188.979†	6.7	2.2	0.0005	mg/L	0.0005	mg/L	18:59:56
1	B 182.528†	-3.9	0.0	0.0014	mg/L	0.0014	mg/L	18:59:56
1	Ba 233.527†	-171.1	-7.4	-0.0011	mg/L	-0.0011	mg/L	18:59:56
1	Be 313.107†	2441.4	92.7	0.0000	mg/L	0.0000	mg/L	18:59:36
1	Ca 315.886†	1781.0	593.8	0.0040	mg/L	0.0040	mg/L	18:59:36
1	Cd 228.802†	125.4	0.6	-0.0004	mg/L	-0.0004	mg/L	18:59:56
1	Co 228.616†	-174.1	-9.0	-0.0011	mg/L	-0.0011	mg/L	18:59:56
1	Cr 267.716†	1198.8	57.7	-0.0011	mg/L	-0.0011	mg/L	18:59:36
1	Cu 324.752†	2817.0	83.5	-0.0011	mg/L	-0.0011	mg/L	18:59:36
1	Fe 234.349†	1558.8	294.0	-0.0032	mg/L	-0.0032	mg/L	18:59:56
1	Fe 238.204†	1818.1	737.1	-0.0030	mg/L	-0.0030	mg/L	18:59:56
1	Mg 279.077†	578.1	31.1	-0.0192	mg/L	-0.0192	mg/L	18:59:36
1	Mn 257.610†	2008.5	75.5	-0.0023	mg/L	-0.0023	mg/L	18:59:36
1	Mo 202.031†	49.0	26.6	0.0009	mg/L	0.0009	mg/L	18:59:56
1	Ni 231.604†	45.7	-0.7	-0.0027	mg/L	-0.0027	mg/L	18:59:56
1	P 214.914†	33.3	13.8	0.0230	mg/L	0.0230	mg/L	18:59:56
1	Pb 220.353†	-157.4	0.0	-0.0010	mg/L	-0.0010	mg/L	18:59:56
1	Sb 206.836†	1.8	1.2	-0.0003	mg/L	-0.0003	mg/L	18:59:56
1	Se 196.026†	-11.8	-6.6	-0.0083	mg/L	-0.0083	mg/L	18:59:56
1	Sn 189.927†	82.2	-81.4	-0.0288	mg/L	-0.0288	mg/L	18:59:56

1	Sr 407.771†	7323.8	49.0	-0.0002 mg/L	-0.0002 mg/L	18:59:31
1	Ti 337.279†	-1875.1	566.7	0.0008 mg/L	0.0008 mg/L	18:59:36
1	Tl 190.801†	-11.5	-5.8	0.0127 mg/L	0.0127 mg/L	18:59:56
1	V 292.402†	-1524.7	173.7	0.0007 mg/L	0.0007 mg/L	18:59:36
1	Zn 213.857†	663.7	33.3	-0.0007 mg/L	-0.0007 mg/L	18:59:56
2	K 766.490†	653.3	-13.4	0.0828 mg/L	0.0828 mg/L	18:59:23
2	Li 670.784†	176.6	88.2	-0.0004 mg/L	-0.0004 mg/L	18:59:23
2	Na 589.592	-139.4	-7332.9	-0.9650 mg/L	-0.9650 mg/L	18:59:23
2	Y 371.029	3605943.5	3605943.5	0.982 mg/L		19:00:02
2	Ag 328.068†	-1559.2	-193.0	-0.0004 mg/L	-0.0004 mg/L	19:00:07
2	Al 237.313†	-26.1	17.9	0.0017 mg/L	0.0017 mg/L	19:00:28
2	As 188.979†	4.2	-0.3	-0.0025 mg/L	-0.0025 mg/L	19:00:28
2	B 182.528†	-0.3	3.6	0.0086 mg/L	0.0086 mg/L	19:00:28
2	Ba 233.527†	-170.7	-7.1	-0.0011 mg/L	-0.0011 mg/L	19:00:28
2	Be 313.107†	2472.0	125.9	0.0000 mg/L	0.0000 mg/L	19:00:07
2	Ca 315.886†	1811.3	626.2	0.0042 mg/L	0.0042 mg/L	19:00:07
2	Cd 228.802†	127.7	3.1	-0.0003 mg/L	-0.0003 mg/L	19:00:28
2	Co 228.616†	-172.2	-7.2	-0.0011 mg/L	-0.0011 mg/L	19:00:28
2	Cr 267.716†	1183.2	42.9	-0.0012 mg/L	-0.0012 mg/L	19:00:07
2	Cu 324.752†	2842.8	112.2	-0.0010 mg/L	-0.0010 mg/L	19:00:07
2	Fe 234.349†	1582.4	319.3	-0.0027 mg/L	-0.0027 mg/L	19:00:28
2	Fe 238.204†	1765.8	685.4	-0.0034 mg/L	-0.0034 mg/L	19:00:28
2	Mg 279.077†	564.7	17.9	-0.0197 mg/L	-0.0197 mg/L	19:00:07
2	Mn 257.610†	1947.2	14.8	-0.0024 mg/L	-0.0024 mg/L	19:00:07
2	Mo 202.031†	44.9	22.5	0.0006 mg/L	0.0006 mg/L	19:00:28
2	Ni 231.604†	44.8	-1.5	-0.0027 mg/L	-0.0027 mg/L	19:00:28
2	P 214.914†	24.8	5.2	0.0173 mg/L	0.0173 mg/L	19:00:28
2	Pb 220.353†	-151.3	6.1	-0.0004 mg/L	-0.0004 mg/L	19:00:28
2	Sb 206.836†	1.7	1.1	-0.0003 mg/L	-0.0003 mg/L	19:00:28
2	Se 196.026†	-3.1	2.3	0.0020 mg/L	0.0020 mg/L	19:00:28
2	Sn 189.927†	84.9	-78.6	-0.0281 mg/L	-0.0281 mg/L	19:00:28
2	Sr 407.771†	7360.9	93.0	-0.0002 mg/L	-0.0002 mg/L	19:00:02
2	Ti 337.279†	-2009.1	428.6	0.0007 mg/L	0.0007 mg/L	19:00:07
2	Tl 190.801†	2.6	8.6	0.0239 mg/L	0.0239 mg/L	19:00:28
2	V 292.402†	-1629.1	66.1	0.0003 mg/L	0.0003 mg/L	19:00:07
2	Zn 213.857†	651.8	21.7	-0.0009 mg/L	-0.0009 mg/L	19:00:28

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3607441.1	0.982	mg/L	0.0006				0.06%
Ag 328.068†	-260.4	-0.0006	mg/L	0.00032	-0.0006	mg/L	0.00032	50.52%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	21.4	0.0021	mg/L	0.00053	0.0021	mg/L	0.00053	25.26%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	0.9	-0.0010	mg/L	0.00213	-0.0010	mg/L	0.00213	206.40%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	1.8	0.0050	mg/L	0.00511	0.0050	mg/L	0.00511	102.16%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	-7.2	-0.0011	mg/L	0.00000	-0.0011	mg/L	0.00000	0.14%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	109.3	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	16.90%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	610.0	0.0041	mg/L	0.00015	0.0041	mg/L	0.00015	3.53%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	1.9	-0.0004	mg/L	0.00005	-0.0004	mg/L	0.00005	14.10%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-8.1	-0.0011	mg/L	0.00003	-0.0011	mg/L	0.00003	2.97%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	50.3	-0.0012	mg/L	0.00006	-0.0012	mg/L	0.00006	5.35%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	97.9	-0.0010	mg/L	0.00007	-0.0010	mg/L	0.00007	7.02%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	306.6	-0.0030	mg/L	0.00033	-0.0030	mg/L	0.00033	10.97%
QC value within limits for Fe 234.349 Recovery = Not calculated								
Fe 238.204†	711.2	-0.0032	mg/L	0.00030	-0.0032	mg/L	0.00030	9.33%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	-26.0	0.0752	mg/L	0.01078	0.0752	mg/L	0.01078	14.34%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	71.4	-0.0009	mg/L	0.00071	-0.0009	mg/L	0.00071	79.31%
QC value within limits for Li 670.784 Recovery = Not calculated								

Mg 279.077†	24.5	-0.0195 mg/L	0.00035	-0.0195 mg/L	0.00035	1.77%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	45.2	-0.0023 mg/L	0.00004	-0.0023 mg/L	0.00004	1.92%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	24.5	0.0007 mg/L	0.00019	0.0007 mg/L	0.00019	25.47%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	-7339.8	-0.9659 mg/L	0.00121	-0.9659 mg/L	0.00121	0.13%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-1.1	-0.0027 mg/L	0.00002	-0.0027 mg/L	0.00002	0.63%
QC value less than the lower limit for Ni 231.604 Recovery = Not calculated						
P 214.914†	9.5	0.0202 mg/L	0.00408	0.0202 mg/L	0.00408	20.26%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	3.1	-0.0007 mg/L	0.00046	-0.0007 mg/L	0.00046	64.29%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	1.1	-0.0003 mg/L	0.00002	-0.0003 mg/L	0.00002	5.92%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-2.2	-0.0032 mg/L	0.00724	-0.0032 mg/L	0.00724	229.17%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-80.0	-0.0285 mg/L	0.00050	-0.0285 mg/L	0.00050	1.74%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	71.0	-0.0002 mg/L	0.00000	-0.0002 mg/L	0.00000	0.56%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	497.6	0.0007 mg/L	0.00012	0.0007 mg/L	0.00012	16.58%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	1.4	0.0183 mg/L	0.00793	0.0183 mg/L	0.00793	43.27%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	119.9	0.0005 mg/L	0.00028	0.0005 mg/L	0.00028	59.79%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	27.5	-0.0008 mg/L	0.00010	-0.0008 mg/L	0.00010	12.39%
QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 51 **Autosampler Location: 39**
Sample ID: 0606405-01 **Date Collected: 6/26/2006 7:02:05 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 0606405-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	7623.3	7028.1	4.327	mg/L	4.327	mg/L	19:03:43
1	Li 670.784†	4328.1	4283.8	0.1250	mg/L	0.1250	mg/L	19:03:43
1	Na 589.592	38334.2	31140.7	3.822	mg/L	3.822	mg/L	19:03:43
1	Y 371.029	3632425.2	3632425.2	0.989	mg/L			19:04:10
1	Ag 328.068†	-3215.9	-1856.3	0.0005	mg/L	0.0005	mg/L	19:04:16
1	Al 237.313†	1065393.3	1077104.0	113.2	mg/L	113.2	mg/L	19:04:10
1	As 188.979†	83.0	79.3	0.0898	mg/L	0.0898	mg/L	19:04:36
1	B 182.528†	13.8	17.9	0.0374	mg/L	0.0374	mg/L	19:04:36
1	Ba 233.527†	31826.1	32341.4	0.2524	mg/L	0.2524	mg/L	19:04:16
1	Be 313.107†	24018.8	21890.3	0.0007	mg/L	0.0007	mg/L	19:04:16
1	Ca 315.886†	961801.8	971115.4	6.275	mg/L	6.275	mg/L	19:04:10
1	Cd 228.802†	246.6	122.3	0.0033	mg/L	0.0033	mg/L	19:04:36
1	Co 228.616†	2225.4	2417.9	0.0509	mg/L	0.0509	mg/L	19:04:36
1	Cr 267.716†	21997.8	21076.6	0.1343	mg/L	0.1343	mg/L	19:04:16
1	Cu 324.752†	27483.3	25001.4	0.1203	mg/L	0.1203	mg/L	19:04:16
1	Fe 234.349†	8763288.3	8857956.1	161.3	mg/L	161.3	mg/L	19:04:03
1	Fe 238.204†	18215928.3	18414284.0	148.5	mg/L	148.5	mg/L	19:04:03
1	Mg 279.077†	498047.9	502944.6	18.56	mg/L	18.56	mg/L	19:04:10
1	Mn 257.610†	2084152.2	2105005.9	2.199	mg/L	2.199	mg/L	19:04:10
1	Mo 202.031†	156.7	135.1	0.0079	mg/L	0.0079	mg/L	19:04:16
1	Ni 231.604†	3945.1	3941.1	0.1122	mg/L	0.1122	mg/L	19:04:36
1	P 214.914†	13785.7	13916.5	9.369	mg/L	9.369	mg/L	19:04:16
1	Pb 220.353†	1952.8	2134.4	0.2426	mg/L	0.2426	mg/L	19:04:36
1	Sb 206.836†	54.7	54.6	0.0184	mg/L	0.0184	mg/L	19:04:36
1	Se 196.026†	3.7	9.1	0.0099	mg/L	0.0099	mg/L	19:04:36
1	Sn 189.927†	52.3	-112.2	-0.0258	mg/L	-0.0258	mg/L	19:04:36
1	Sr 407.771†	1211316.5	1217177.6	0.0517	mg/L	0.0517	mg/L	19:04:10
1	Ti 337.279†	3212877.5	3250533.8	4.118	mg/L	4.118	mg/L	19:04:10
1	Tl 190.801†	-22.1	-16.4	0.0337	mg/L	0.0337	mg/L	19:04:36

ANALYSIS SEQUENCE

BPG0236

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0236-CAL1	QC		1		6F28044		
BPG0236-CAL2	QC		2		6F30008		
BPG0236-CAL3	QC		3		6F30009		
BPG0236-CAL4	QC		4		6F30010		
BPG0236-ICV1	QC		5		6F30009		
BPG0236-SCV1	QC		6		6F30013		
BPG0236-ICB1	QC		7				
BPG0236-CRL1	QC		8		6F30014		
BPG0236-CRL2	QC		9		6F30015		
BPG0236-CRL3	QC		10		6F30016		
BPG0236-IFA1	QC		11		6F13074		
BPG0236-CCB1	QC		12				
BPG0236-CCV1	QC		13		6F30009		
BPG0236-IFB1	QC		14		6F13075		
0606383-08RE1	Ba: ppm Barium 6010	E	15				MACTEC Engineering & Consulting, In
BPG0236-CCB2	QC		16				
BPG0236-CCV2	QC		17		6F30009		
BPG0236-IFA2	QC		18		6F13074		
BPG0236-IFB2	QC		19		6F13075		

Samples Loaded By Date

Data Processed By Date

ESS Laboratory
ICP Data Review Checklist

SIF: 063006NA **Date Run:** 06/30/06

Method: everything DV **Y-IS:** 3654384.0

Project Number(s): 06444, 404-09 x5, 488-08, 436, 440 **SOP NO. 30_6010B**

06494, 500, 501, 502, 505, 383-08 x5

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the daily standard curve consist of a Calibration Blank and the required minimum number of calibration standards and is $R^2 > 0.995$ for all elements?	X		
2. Is the mid-point initial calibration standard reanalyzed immediately after calibration and results within QC limits? (±5% for 200.7, 10% for 6010B)	X		
3. Are interference check standards analyzed at the beginning of each analytical run and within QC limits?	X		
4. Is the ICV from a second source and is its percent within QC limits (±10% and %RPD< 5)?	X		
5. Is the CRI standard 20% of the true value?	X		
6. Are the CCVs analyzed at required frequency and all parameters within QC limits? (±10%)	X		
7. Are the CCB standards analyzed at required frequency and at the end of the analytical sequence and are all parameters within QC limits? (< MRL)	X		
8. Is the method blank run at the desired frequency and is its concentration for target analytes less than the MRL?	X		
9. Is the Laboratory Control Sample run at the desired frequency and is the percent recovery within QC limits? (±15% for 200.7, ±20% for 6010B)	X		
10. Is the Matrix Duplicate run at the desired frequency and is the RPD within QC limits? (± 20% for aqueous and + 35% for soil samples/ **All USACE/Navy samples ≤25%)**	X		
11. Is the matrix spike run at the desired frequency and is the percent recovery /RPD within QC limits? (75-125%)	X		
12. Is a Serial Dilution Analysis performed at the desired frequency and within QC limits? (± 10%)	X		
13. Are post-digestion spikes analyzed at the desired frequency and within QC limits? (85-115% for 200.7, 75-125% for 6010B)	X		
14. Are all samples with concentrations greater than the linear dynamic range diluted and reanalyzed?	X		
15. Are all sample IDs and units checked for transcription errors?	X		
16. Are all nonconformances included and noted?	X		
17. Is the correct methodology used for sample prep and analysis?	X		
18. Are all sample holding times met?	X		
19. Did analyst sign/date the appropriate print outs and report sheets?	X		

Comments on any "No" response:

06494-01 x5 Ag int (on run)

Analyst: EEm Date: 6/30/06 2nd Level Review: JS Date: 7/1/06

Analytical Sequence

Method : Everything-DV

Seq.	Loc.		Sample ID
1	1		Calib Blank 1
2	2		Calib Std 1
3	3		Calib Std 2
4	4		Calib Std 3
5	3	QC	STD2
6	5	QC	ICV
7	1	QC	ICCB
8	6	QC	CRI1
9	7	QC	CRI2
10	8	QC	CRI3
11	160	QC	ICSA
12	159	QC	ICSAB
13	3	QC	CCV
14	1	QC	ICCB
15	9		0606444-01
16	10		0606404-09X5
17	11		BF62920-BLK1
18	12	☑	BF62920-BS1
19	13	☑	BF62920-BSD1
20	14		0606488-08
21	15		0606436-01
22	16		0606490-01
23	17		0606490-02
24	18		0606490-03
25	3	QC	CCV
26	1	QC	ICCB
27	19		0606490-04
28	20		0606490-05
29	21		0606494-01
30	22		0606494-03
31	23		0606500-02
32	24	☑	BF62920-DUP1
33	25	☑	BF62920-MS1
34	26	☑	BF62920-SD1
35	27	☑	BF62920-PDS1
36	28		0606501-01
37	3	QC	CCV
38	1	QC	ICCB
39	29		0606501-02
40	30		0606501-03
41	31		0606501-04
42	32		0606502-01
43	33		0606502-02
44	34		0606502-03
45	35		0606502-05
46	36		0606505-01
47	37	☑	BF62920-DUP2
48	38	☑	BF62920-MS2
49	3	QC	CCV – As
50	1	QC	ICCB
51	39	☑	BF62920-SD2
52	40	☑	BF62920-PDS2
53	41		063006FILTBLK
54	42		0606383-08 X5
55	43		0606494-01 X5
56	3	QC	CCV

Ag	0.005
As	0.02
Ba	0.01
Be	0.001
Cd	0.005
Cr	0.01
Cu	0.01
Ni	0.01
Pb	0.02
Sb	0.02
Se	0.02
Tl	0.01
Zn	0.01

Analytical Sequence

Method : Everything-DV

Seq.	Loc.		Sample ID
57	1		ICCB
58	160		ICSA
59	159		ICSAB
60	0		WASH

0.5	15.0	108381.2
1.0	15.0	83508.4
1.5	15.0	58048.6
2.0	15.0	14159.2
2.5	15.0	5438.6
3.0	15.0	6010.5
3.5	15.0	7496.4
4.0	15.0	11466.2
4.5	15.0	15370.9
5.0	15.0	16400.4
5.5	15.0	15541.7
6.0	15.0	11233.2
6.5	15.0	6872.4
7.0	15.0	4955.1

6/30/2006 9:54:30 AM aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 118284.3 for Radial viewing

Analysis Begun

Start Time: 6/30/2006 9:55:31 AM **Plasma On Time: 6/30/2006 8:44:17 AM**
Logged In Analyst: ICP3 **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N1032302Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\063006NA.sif
Batch ID: 063006na
Results Data Set: 063006nad
Results Library: Q:\Metals\Results\ICP3\Results\Results.mdb

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: Calib Blank 1 **Date Collected: 6/30/2006 9:55:31 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: Calib Blank 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	708.5	711.0	[0.00]	mg/L	09:57:06
1	Li 670.784†	141.5	142.0	[0.00]	mg/L	09:57:06
1	Na 589.592	6139.6	6139.6	[0.00]	mg/L	09:57:06
1	Y 371.029	3641657.9	3641657.9	0.997	mg/L	09:57:20
1	Ag 328.068†	-2560.6	-2569.5	[0.00]	mg/L	09:57:25
1	Al 237.313†	-39.8	-40.0	[0.00]	mg/L	09:57:45
1	As 188.979†	7.9	8.0	[0.00]	mg/L	09:57:45
1	B 182.528†	-3.5	-3.5	[0.00]	mg/L	09:57:45
1	Ba 233.527†	-138.7	-139.2	[0.00]	mg/L	09:57:45
1	Be 313.107†	2648.3	2657.5	[0.00]	mg/L	09:57:25
1	Ca 315.886†	1523.5	1528.8	[0.00]	mg/L	09:57:25
1	Cd 228.802†	117.2	117.6	[0.00]	mg/L	09:57:45
1	Co 228.616†	-185.3	-186.0	[0.00]	mg/L	09:57:45
1	Cr 267.716†	1173.2	1177.3	[0.00]	mg/L	09:57:25
1	Cu 324.752†	2401.5	2409.9	[0.00]	mg/L	09:57:25
1	Fe 234.349†	1561.1	1566.6	[0.00]	mg/L	09:57:45
1	Fe 238.204†	2060.9	2068.1	[0.00]	mg/L	09:57:45
1	Mg 279.077†	473.1	474.7	[0.00]	mg/L	09:57:25
1	Mn 257.610†	3846.5	3859.9	[0.00]	mg/L	09:57:25
1	Mo 202.031†	31.9	32.0	[0.00]	mg/L	09:57:45
1	Ni 231.604†	36.4	36.5	[0.00]	mg/L	09:57:45
1	P 214.914†	46.9	47.1	[0.00]	mg/L	09:57:45
1	Pb 220.353†	-168.9	-169.5	[0.00]	mg/L	09:57:45
1	Sb 206.836†	15.1	15.1	[0.00]	mg/L	09:57:45
1	Se 196.026†	-8.0	-8.1	[0.00]	mg/L	09:57:45
1	Sn 189.927†	245.0	245.8	[0.00]	mg/L	09:57:45
1	Sr 407.771†	6654.0	6677.2	[0.00]	mg/L	09:57:20
1	Ti 337.279†	-2173.1	-2180.6	[0.00]	mg/L	09:57:25
1	Tl 190.801†	-0.7	-0.7	[0.00]	mg/L	09:57:45
1	V 292.402†	-1588.3	-1593.8	[0.00]	mg/L	09:57:25

1	Zn 213.857†	636.1	638.3	[0.00] mg/L	09:57:45
2	K 766.490†	762.0	759.4	[0.00] mg/L	09:57:12
2	Li 670.784†	158.6	158.0	[0.00] mg/L	09:57:12
2	Na 589.592	6094.4	6094.4	[0.00] mg/L	09:57:12
2	Y 371.029	3667110.1	3667110.1	1.00 mg/L	09:57:51
2	Ag 328.068†	-2705.2	-2695.8	[0.00] mg/L	09:57:56
2	Al 237.313†	-19.6	-19.5	[0.00] mg/L	09:58:17
2	As 188.979†	4.0	4.0	[0.00] mg/L	09:58:17
2	B 182.528†	-5.7	-5.7	[0.00] mg/L	09:58:17
2	Ba 233.527†	-160.9	-160.4	[0.00] mg/L	09:58:17
2	Be 313.107†	2485.2	2476.6	[0.00] mg/L	09:57:56
2	Ca 315.886†	1451.4	1446.4	[0.00] mg/L	09:57:56
2	Cd 228.802†	126.2	125.7	[0.00] mg/L	09:58:17
2	Co 228.616†	-180.4	-179.8	[0.00] mg/L	09:58:17
2	Cr 267.716†	1189.8	1185.7	[0.00] mg/L	09:57:56
2	Cu 324.752†	2381.1	2372.9	[0.00] mg/L	09:57:56
2	Fe 234.349†	1572.8	1567.3	[0.00] mg/L	09:58:17
2	Fe 238.204†	2107.5	2100.2	[0.00] mg/L	09:58:17
2	Mg 279.077†	554.9	553.0	[0.00] mg/L	09:57:56
2	Mn 257.610†	3665.8	3653.1	[0.00] mg/L	09:57:56
2	Mo 202.031†	36.0	35.8	[0.00] mg/L	09:58:17
2	Ni 231.604†	34.7	34.6	[0.00] mg/L	09:58:17
2	P 214.914†	46.4	46.2	[0.00] mg/L	09:58:17
2	Pb 220.353†	-161.0	-160.5	[0.00] mg/L	09:58:17
2	Sb 206.836†	6.5	6.5	[0.00] mg/L	09:58:17
2	Se 196.026†	-6.8	-6.7	[0.00] mg/L	09:58:17
2	Sn 189.927†	232.4	231.6	[0.00] mg/L	09:58:17
2	Sr 407.771†	6525.8	6503.1	[0.00] mg/L	09:57:51
2	Ti 337.279†	-2003.9	-1996.9	[0.00] mg/L	09:57:56
2	Tl 190.801†	5.0	5.0	[0.00] mg/L	09:58:17
2	V 292.402†	-1580.5	-1575.0	[0.00] mg/L	09:57:56
2	Zn 213.857†	633.5	631.3	[0.00] mg/L	09:58:17

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Calib Units
Y 371.029	3654384.0	17997.41	0.49%	1.00	mg/L
Ag 328.068†	-2632.7	89.29	3.39%	[0.00]	mg/L
Al 237.313†	-29.7	14.45	48.56%	[0.00]	mg/L
As 188.979†	6.0	2.79	46.57%	[0.00]	mg/L
B 182.528†	-4.6	1.52	33.15%	[0.00]	mg/L
Ba 233.527†	-149.8	14.98	10.00%	[0.00]	mg/L
Be 313.107†	2567.0	127.95	4.98%	[0.00]	mg/L
Ca 315.886†	1487.6	58.26	3.92%	[0.00]	mg/L
Cd 228.802†	121.7	5.75	4.72%	[0.00]	mg/L
Co 228.616†	-182.9	4.34	2.37%	[0.00]	mg/L
Cr 267.716†	1181.5	5.91	0.50%	[0.00]	mg/L
Cu 324.752†	2391.4	26.15	1.09%	[0.00]	mg/L
Fe 234.349†	1566.9	0.50	0.03%	[0.00]	mg/L
Fe 238.204†	2084.1	22.68	1.09%	[0.00]	mg/L
K 766.490†	735.2	34.25	4.66%	[0.00]	mg/L
Li 670.784†	150.0	11.35	7.57%	[0.00]	mg/L
Mg 279.077†	513.9	55.38	10.78%	[0.00]	mg/L
Mn 257.610†	3756.5	146.24	3.89%	[0.00]	mg/L
Mo 202.031†	33.9	2.74	8.09%	[0.00]	mg/L
Na 589.592	6117.0	31.98	0.52%	[0.00]	mg/L
Ni 231.604†	35.5	1.35	3.80%	[0.00]	mg/L
P 214.914†	46.6	0.62	1.34%	[0.00]	mg/L
Pb 220.353†	-165.0	6.41	3.88%	[0.00]	mg/L
Sb 206.836†	10.8	6.11	56.53%	[0.00]	mg/L
Se 196.026†	-7.4	0.93	12.56%	[0.00]	mg/L
Sn 189.927†	238.7	10.06	4.21%	[0.00]	mg/L
Sr 407.771†	6590.2	123.10	1.87%	[0.00]	mg/L
Ti 337.279†	-2088.8	129.92	6.22%	[0.00]	mg/L
Tl 190.801†	2.1	3.99	185.48%	[0.00]	mg/L
V 292.402†	-1584.4	13.33	0.84%	[0.00]	mg/L
Zn 213.857†	634.8	4.99	0.79%	[0.00]	mg/L

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: Calib Std 1 **Date Collected: 6/30/2006 9:59:54 AM**

Analyst:
Initial Sample Wt:
Dilution:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	8592.7	7890.0	[5.0000]	mg/L	10:01:28
1	Li 670.784†	3475.8	3338.9	[0.1]	mg/L	10:01:28
1	Na 589.592	46303.2	40186.2	[5.0000]	mg/L	10:01:28
1	Y 371.029	3640635.4	3640635.4	0.996	mg/L	10:01:42
1	Ag 328.068†	12292.0	14971.1	[0.05]	mg/L	10:01:47
1	Al 237.313†	4512.2	4559.0	[0.5]	mg/L	10:01:47
1	As 188.979†	80.4	74.7	[0.1000]	mg/L	10:02:08
1	B 182.528†	38.7	43.4	[0.1000]	mg/L	10:02:08
1	Ba 233.527†	12350.3	12546.7	[0.1000]	mg/L	10:01:47
1	Be 313.107†	53381.2	51015.8	[0.0100]	mg/L	10:01:47
1	Ca 315.886†	147863.3	146934.1	[1.0000]	mg/L	10:01:42
1	Cd 228.802†	2132.9	2019.3	[0.0500]	mg/L	10:02:08
1	Co 228.616†	3692.9	3889.7	[0.1000]	mg/L	10:02:08
1	Cr 267.716†	17279.4	16163.1	[0.1000]	mg/L	10:01:47
1	Cu 324.752†	30783.0	28507.8	[0.1000]	mg/L	10:01:47
1	Fe 234.349†	28308.7	26848.6	[0.5]	mg/L	10:01:47
1	Fe 238.204†	63906.2	62063.4	[0.5]	mg/L	10:01:47
1	Mg 279.077†	27266.4	26855.5	[1.0000]	mg/L	10:01:47
1	Mn 257.610†	98406.6	95021.7	[0.1000]	mg/L	10:01:47
1	Mo 202.031†	1535.5	1507.4	[0.1000]	mg/L	10:02:08
1	Ni 231.604†	3274.6	3251.5	[0.1000]	mg/L	10:01:47
1	P 214.914†	1432.1	1390.9	[1]	mg/L	10:02:08
1	Pb 220.353†	766.4	934.3	[0.1000]	mg/L	10:02:08
1	Sb 206.836†	229.4	219.5	[0.1000]	mg/L	10:02:08
1	Se 196.026†	154.1	162.1	[0.2000]	mg/L	10:02:08
1	Sn 189.927†	604.8	368.4	[0.1000]	mg/L	10:02:08
1	Sr 407.771†	242098.6	236422.6	[0.0100]	mg/L	10:01:42
1	Ti 337.279†	78768.7	81154.9	[0.1000]	mg/L	10:01:47
1	Tl 190.801†	123.7	122.0	[0.1000]	mg/L	10:02:08
1	V 292.402†	25140.6	26819.9	[0.1000]	mg/L	10:01:47
1	Zn 213.857†	8433.1	7830.1	[0.1000]	mg/L	10:01:47
2	K 766.490†	8661.6	7988.4	[5.0000]	mg/L	10:01:34
2	Li 670.784†	3461.5	3336.3	[0.1]	mg/L	10:01:34
2	Na 589.592	46292.4	40175.4	[5.0000]	mg/L	10:01:34
2	Y 371.029	3628409.9	3628409.9	0.993	mg/L	10:02:14
2	Ag 328.068†	12262.5	14982.9	[0.05]	mg/L	10:02:19
2	Al 237.313†	4473.9	4535.7	[0.5]	mg/L	10:02:19
2	As 188.979†	78.9	73.5	[0.1000]	mg/L	10:02:39
2	B 182.528†	38.2	43.1	[0.1000]	mg/L	10:02:39
2	Ba 233.527†	12236.4	12473.7	[0.1000]	mg/L	10:02:19
2	Be 313.107†	52732.2	50542.6	[0.0100]	mg/L	10:02:19
2	Ca 315.886†	147405.5	146973.1	[1.0000]	mg/L	10:02:14
2	Cd 228.802†	2130.1	2023.6	[0.0500]	mg/L	10:02:39
2	Co 228.616†	3721.8	3931.3	[0.1000]	mg/L	10:02:39
2	Cr 267.716†	17177.0	16118.5	[0.1000]	mg/L	10:02:19
2	Cu 324.752†	30254.1	28079.3	[0.1000]	mg/L	10:02:19
2	Fe 234.349†	28067.4	26701.4	[0.5]	mg/L	10:02:19
2	Fe 238.204†	63151.1	61519.1	[0.5]	mg/L	10:02:19
2	Mg 279.077†	27085.4	26765.4	[1.0000]	mg/L	10:02:19
2	Mn 257.610†	97256.7	94196.4	[0.1000]	mg/L	10:02:19
2	Mo 202.031†	1561.6	1538.9	[0.1000]	mg/L	10:02:39
2	Ni 231.604†	3252.1	3239.8	[0.1000]	mg/L	10:02:19
2	P 214.914†	1450.8	1414.6	[1]	mg/L	10:02:39
2	Pb 220.353†	772.1	942.6	[0.1000]	mg/L	10:02:39
2	Sb 206.836†	220.6	211.3	[0.1000]	mg/L	10:02:39
2	Se 196.026†	155.3	163.8	[0.2000]	mg/L	10:02:39
2	Sn 189.927†	609.8	375.4	[0.1000]	mg/L	10:02:39
2	Sr 407.771†	241082.8	236218.4	[0.0100]	mg/L	10:02:14
2	Ti 337.279†	77968.5	80615.4	[0.1000]	mg/L	10:02:19
2	Tl 190.801†	123.2	122.0	[0.1000]	mg/L	10:02:39
2	V 292.402†	24836.8	26599.0	[0.1000]	mg/L	10:02:19
2	Zn 213.857†	8364.5	7789.6	[0.1000]	mg/L	10:02:19

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3634522.7	8644.73	0.24%	0.995	mg/L
Ag 328.068†	14977.0	8.34	0.06%	[0.05]	mg/L
Al 237.313†	4547.3	16.49	0.36%	[0.5]	mg/L
As 188.979†	74.1	0.90	1.21%	[0.1000]	mg/L
B 182.528†	43.3	0.23	0.53%	[0.1000]	mg/L
Ba 233.527†	12510.2	51.63	0.41%	[0.1000]	mg/L
Be 313.107†	50779.2	334.58	0.66%	[0.0100]	mg/L
Ca 315.886†	146953.6	27.58	0.02%	[1.0000]	mg/L
Cd 228.802†	2021.5	3.10	0.15%	[0.0500]	mg/L
Co 228.616†	3910.5	29.40	0.75%	[0.1000]	mg/L
Cr 267.716†	16140.8	31.60	0.20%	[0.1000]	mg/L
Cu 324.752†	28293.6	303.03	1.07%	[0.1000]	mg/L
Fe 234.349†	26775.0	104.12	0.39%	[0.5]	mg/L
Fe 238.204†	61791.2	384.89	0.62%	[0.5]	mg/L
K 766.490†	7939.2	69.58	0.88%	[5.0000]	mg/L
Li 670.784†	3337.6	1.86	0.06%	[0.1]	mg/L
Mg 279.077†	26810.5	63.72	0.24%	[1.0000]	mg/L
Mn 257.610†	94609.0	583.59	0.62%	[0.1000]	mg/L
Mo 202.031†	1523.1	22.27	1.46%	[0.1000]	mg/L
Na 589.592	40180.8	7.70	0.02%	[5.0000]	mg/L
Ni 231.604†	3245.6	8.25	0.25%	[0.1000]	mg/L
P 214.914†	1402.7	16.76	1.19%	[1]	mg/L
Pb 220.353†	938.4	5.91	0.63%	[0.1000]	mg/L
Sb 206.836†	215.4	5.75	2.67%	[0.1000]	mg/L
Se 196.026†	162.9	1.23	0.76%	[0.2000]	mg/L
Sn 189.927†	371.9	4.96	1.33%	[0.1000]	mg/L
Sr 407.771†	236320.5	144.45	0.06%	[0.0100]	mg/L
Ti 337.279†	80885.2	381.49	0.47%	[0.1000]	mg/L
Tl 190.801†	122.0	0.04	0.04%	[0.1000]	mg/L
V 292.402†	26709.4	156.24	0.58%	[0.1000]	mg/L
Zn 213.857†	7809.9	28.69	0.37%	[0.1000]	mg/L

Sequence No.: 3
Sample ID: Calib Std 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/30/2006 10:04:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	39202.5	39348.3	[25.0000]	mg/L	10:05:51
1	Li 670.784†	16262.5	16477.9	[0.5]	mg/L	10:05:51
1	Na 589.592	205851.7	199734.7	[25.000]	mg/L	10:05:51
1	Y 371.029	3574068.5	3574068.5	0.978	mg/L	10:06:05
1	Ag 328.068†	69661.3	73859.4	[0.25]	mg/L	10:06:11
1	Al 237.313†	22174.3	22702.3	[2.5]	mg/L	10:06:11
1	As 188.979†	363.2	365.3	[0.5000]	mg/L	10:06:31
1	B 182.528†	204.5	213.7	[0.5000]	mg/L	10:06:31
1	Ba 233.527†	60050.4	61549.6	[0.5000]	mg/L	10:06:11
1	Be 313.107†	245841.3	248798.7	[0.0500]	mg/L	10:06:05
1	Ca 315.886†	715758.3	730355.0	[5.0000]	mg/L	10:06:05
1	Cd 228.802†	9954.7	10056.8	[0.2500]	mg/L	10:06:31
1	Co 228.616†	18321.2	18915.8	[0.5000]	mg/L	10:06:11
1	Cr 267.716†	78992.8	79586.4	[0.5000]	mg/L	10:06:11
1	Cu 324.752†	138357.4	139075.1	[0.5000]	mg/L	10:06:11
1	Fe 234.349†	129879.5	131231.1	[2.5]	mg/L	10:06:11
1	Fe 238.204†	298053.3	302666.9	[2.5]	mg/L	10:06:11
1	Mg 279.077†	128385.6	130756.8	[5.0000]	mg/L	10:06:11
1	Mn 257.610†	450803.5	457177.3	[0.5000]	mg/L	10:06:05
1	Mo 202.031†	7424.4	7557.3	[0.5000]	mg/L	10:06:31
1	Ni 231.604†	15583.9	15898.6	[0.5000]	mg/L	10:06:11
1	P 214.914†	6913.2	7021.9	[5]	mg/L	10:06:31
1	Pb 220.353†	4284.2	4545.5	[0.5000]	mg/L	10:06:31
1	Sb 206.836†	1018.4	1030.5	[0.5000]	mg/L	10:06:31
1	Se 196.026†	759.0	783.4	[1.0000]	mg/L	10:06:31
1	Sn 189.927†	2052.1	1859.5	[0.5000]	mg/L	10:06:31

1	Sr 407.771†	1129334.8	1148122.7	[0.0500]	mg/L	10:06:05
1	Ti 337.279†	391829.5	402723.3	[0.5000]	mg/L	10:06:11
1	Tl 190.801†	634.9	647.1	[0.5000]	mg/L	10:06:31
1	V 292.402†	127923.4	132382.5	[0.5000]	mg/L	10:06:11
1	Zn 213.857†	38097.3	38318.6	[0.5000]	mg/L	10:06:11
2	K 766.490†	38913.1	39116.9	[25.0000]	mg/L	10:05:56
2	Li 670.784†	16243.8	16485.8	[0.5]	mg/L	10:05:56
2	Na 589.592	204069.7	197952.7	[25.000]	mg/L	10:05:56
2	Y 371.029	3568281.2	3568281.2	0.976	mg/L	10:06:38
2	Ag 328.068†	68930.2	73226.2	[0.25]	mg/L	10:06:43
2	Al 237.313†	21970.0	22529.9	[2.5]	mg/L	10:06:43
2	As 188.979†	362.3	365.1	[0.5000]	mg/L	10:07:04
2	B 182.528†	205.0	214.6	[0.5000]	mg/L	10:07:04
2	Ba 233.527†	59377.2	60959.7	[0.5000]	mg/L	10:06:43
2	Be 313.107†	246136.9	249509.2	[0.0500]	mg/L	10:06:38
2	Ca 315.886†	714841.4	730602.9	[5.0000]	mg/L	10:06:38
2	Cd 228.802†	9920.0	10037.7	[0.2500]	mg/L	10:07:04
2	Co 228.616†	18216.0	18838.4	[0.5000]	mg/L	10:06:43
2	Cr 267.716†	78324.9	79033.4	[0.5000]	mg/L	10:06:43
2	Cu 324.752†	136787.4	137696.7	[0.5000]	mg/L	10:06:43
2	Fe 234.349†	129090.8	130638.8	[2.5]	mg/L	10:06:43
2	Fe 238.204†	294581.9	299606.1	[2.5]	mg/L	10:06:43
2	Mg 279.077†	127061.7	129613.8	[5.0000]	mg/L	10:06:43
2	Mn 257.610†	450277.2	457385.9	[0.5000]	mg/L	10:06:38
2	Mo 202.031†	7407.1	7551.9	[0.5000]	mg/L	10:07:04
2	Ni 231.604†	15330.7	15665.1	[0.5000]	mg/L	10:06:43
2	P 214.914†	6875.3	6994.6	[5]	mg/L	10:07:04
2	Pb 220.353†	4268.4	4536.4	[0.5000]	mg/L	10:07:04
2	Sb 206.836†	1015.7	1029.4	[0.5000]	mg/L	10:07:04
2	Se 196.026†	762.9	788.7	[1.0000]	mg/L	10:07:04
2	Sn 189.927†	2031.6	1841.9	[0.5000]	mg/L	10:07:04
2	Sr 407.771†	1128885.6	1149535.4	[0.0500]	mg/L	10:06:38
2	Ti 337.279†	387316.3	398751.0	[0.5000]	mg/L	10:06:43
2	Tl 190.801†	633.2	646.3	[0.5000]	mg/L	10:07:04
2	V 292.402†	126636.9	131277.0	[0.5000]	mg/L	10:06:43
2	Zn 213.857†	37826.0	38103.9	[0.5000]	mg/L	10:06:43

Mean Data: Calib Std 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3571174.9	4092.24	0.11%	0.977	mg/L
Ag 328.068†	73542.8	447.75	0.61%	[0.25]	mg/L
Al 237.313†	22616.1	121.91	0.54%	[2.5]	mg/L
As 188.979†	365.2	0.18	0.05%	[0.5000]	mg/L
B 182.528†	214.1	0.62	0.29%	[0.5000]	mg/L
Ba 233.527†	61254.7	417.10	0.68%	[0.5000]	mg/L
Be 313.107†	249154.0	502.39	0.20%	[0.0500]	mg/L
Ca 315.886†	730479.0	175.29	0.02%	[5.0000]	mg/L
Cd 228.802†	10047.2	13.49	0.13%	[0.2500]	mg/L
Co 228.616†	18877.1	54.74	0.29%	[0.5000]	mg/L
Cr 267.716†	79309.9	391.07	0.49%	[0.5000]	mg/L
Cu 324.752†	138385.9	974.69	0.70%	[0.5000]	mg/L
Fe 234.349†	130935.0	418.83	0.32%	[2.5]	mg/L
Fe 238.204†	301136.5	2164.33	0.72%	[2.5]	mg/L
K 766.490†	39232.6	163.60	0.42%	[25.0000]	mg/L
Li 670.784†	16481.9	5.56	0.03%	[0.5]	mg/L
Mg 279.077†	130185.3	808.18	0.62%	[5.0000]	mg/L
Mn 257.610†	457281.6	147.53	0.03%	[0.5000]	mg/L
Mo 202.031†	7554.6	3.79	0.05%	[0.5000]	mg/L
Na 589.592	198843.7	1260.11	0.63%	[25.000]	mg/L
Ni 231.604†	15781.8	165.12	1.05%	[0.5000]	mg/L
P 214.914†	7008.2	19.34	0.28%	[5]	mg/L
Pb 220.353†	4541.0	6.38	0.14%	[0.5000]	mg/L
Sb 206.836†	1029.9	0.72	0.07%	[0.5000]	mg/L
Se 196.026†	786.0	3.73	0.47%	[1.0000]	mg/L
Sn 189.927†	1850.7	12.48	0.67%	[0.5000]	mg/L
Sr 407.771†	1148829.1	998.95	0.09%	[0.0500]	mg/L
Ti 337.279†	400737.2	2808.87	0.70%	[0.5000]	mg/L
Tl 190.801†	646.7	0.50	0.08%	[0.5000]	mg/L
V 292.402†	131829.7	781.66	0.59%	[0.5000]	mg/L
Zn 213.857†	38211.3	151.77	0.40%	[0.5000]	mg/L

Sequence No.: 4
Sample ID: Calib Std 3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/30/2006 10:08:42 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 3

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	76198.4	77790.5	[50.0000]	mg/L	10:10:20
1	Li 670.784†	31081.7	31881.0	[1]	mg/L	10:10:20
1	Na 589.592	395632.7	389515.7	[50.000]	mg/L	10:10:20
1	Y 371.029	3546079.3	3546079.3	0.970	mg/L	10:10:38
1	Ag 328.068†	138614.0	145480.3	[0.5]	mg/L	10:10:44
1	Al 237.313†	43470.2	44827.6	[5]	mg/L	10:10:44
1	As 188.979†	711.1	726.9	[1.0000]	mg/L	10:11:04
1	B 182.528†	411.7	428.9	[1.0000]	mg/L	10:11:04
1	Ba 233.527†	117072.8	120798.2	[1.0000]	mg/L	10:10:44
1	Be 313.107†	484310.9	496535.7	[0.1000]	mg/L	10:10:38
1	Ca 315.886†	1409022.3	1450569.2	[10.0000]	mg/L	10:10:38
1	Cd 228.802†	19405.3	19876.3	[0.5000]	mg/L	10:11:04
1	Co 228.616†	36341.7	37634.5	[1.0000]	mg/L	10:11:04
1	Cr 267.716†	152786.9	156271.9	[1.0000]	mg/L	10:10:44
1	Cu 324.752†	266955.9	272718.0	[1.0000]	mg/L	10:10:44
1	Fe 234.349†	252797.6	258951.6	[5.0]	mg/L	10:10:44
1	Fe 238.204†	577665.0	593224.0	[5.0]	mg/L	10:10:44
1	Mg 279.077†	248804.3	255889.4	[10.0000]	mg/L	10:10:44
1	Mn 257.610†	879418.2	902521.0	[1.0000]	mg/L	10:10:38
1	Mo 202.031†	14528.0	14937.8	[1.0000]	mg/L	10:11:04
1	Ni 231.604†	30194.2	31080.9	[1.0000]	mg/L	10:10:44
1	P 214.914†	13673.9	14044.9	[10]	mg/L	10:11:04
1	Pb 220.353†	8498.0	8922.6	[1.0000]	mg/L	10:11:04
1	Sb 206.836†	1995.1	2045.2	[1.0000]	mg/L	10:11:04
1	Se 196.026†	1519.6	1573.4	[2.0000]	mg/L	10:11:04
1	Sn 189.927†	3796.3	3673.5	[1.0000]	mg/L	10:11:04
1	Sr 407.771†	2199950.1	2260551.0	[0.1000]	mg/L	10:10:38
1	Ti 337.279†	768031.4	793577.5	[1.0000]	mg/L	10:10:44
1	Tl 190.801†	1238.1	1273.7	[1.0000]	mg/L	10:11:04
1	V 292.402†	251492.3	260757.9	[1.0000]	mg/L	10:10:44
1	Zn 213.857†	74126.7	75755.9	[1.0000]	mg/L	10:10:44
2	K 766.490†	77018.1	78660.5	[50.0000]	mg/L	10:10:26
2	Li 670.784†	31297.2	32113.4	[1]	mg/L	10:10:26
2	Na 589.592	400286.5	394169.5	[50.000]	mg/L	10:10:26
2	Y 371.029	3544950.0	3544950.0	0.970	mg/L	10:11:12
2	Ag 328.068†	139197.4	146127.1	[0.5]	mg/L	10:11:18
2	Al 237.313†	43707.7	45086.8	[5]	mg/L	10:11:18
2	As 188.979†	712.6	728.6	[1.0000]	mg/L	10:11:38
2	B 182.528†	415.3	432.7	[1.0000]	mg/L	10:11:38
2	Ba 233.527†	117631.4	121412.5	[1.0000]	mg/L	10:11:18
2	Be 313.107†	485159.1	497569.2	[0.1000]	mg/L	10:11:12
2	Ca 315.886†	1410354.0	1452404.6	[10.0000]	mg/L	10:11:12
2	Cd 228.802†	19391.2	19868.2	[0.5000]	mg/L	10:11:38
2	Co 228.616†	36234.8	37536.2	[1.0000]	mg/L	10:11:38
2	Cr 267.716†	153890.3	157459.5	[1.0000]	mg/L	10:11:18
2	Cu 324.752†	269170.9	275089.0	[1.0000]	mg/L	10:11:18
2	Fe 234.349†	253467.3	259725.0	[5.0]	mg/L	10:11:18
2	Fe 238.204†	579530.9	595337.1	[5.0]	mg/L	10:11:18
2	Mg 279.077†	249777.0	256973.9	[10.0000]	mg/L	10:11:18
2	Mn 257.610†	881399.6	904852.3	[1.0000]	mg/L	10:11:12
2	Mo 202.031†	14477.7	14890.7	[1.0000]	mg/L	10:11:38
2	Ni 231.604†	30528.8	31435.7	[1.0000]	mg/L	10:11:18
2	P 214.914†	13613.9	13987.5	[10]	mg/L	10:11:38
2	Pb 220.353†	8466.6	8893.0	[1.0000]	mg/L	10:11:38
2	Sb 206.836†	1983.6	2034.0	[1.0000]	mg/L	10:11:38
2	Se 196.026†	1514.8	1569.0	[2.0000]	mg/L	10:11:38
2	Sn 189.927†	3776.8	3654.7	[1.0000]	mg/L	10:11:38
2	Sr 407.771†	2202816.1	2264227.7	[0.1000]	mg/L	10:11:12
2	Ti 337.279†	772416.4	798350.0	[1.0000]	mg/L	10:11:18
2	Tl 190.801†	1247.4	1283.7	[1.0000]	mg/L	10:11:38

2	V 292.402†	253962.3	263386.6	[1.0000]	mg/L	10:11:18
2	Zn 213.857†	74640.1	76309.5	[1.0000]	mg/L	10:11:18

Mean Data: Calib Std 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3545514.6	798.53	0.02%	0.970	mg/L
Ag 328.068†	145803.7	457.40	0.31%	[0.5]	mg/L
Al 237.313†	44957.2	183.24	0.41%	[5]	mg/L
As 188.979†	727.7	1.24	0.17%	[1.0000]	mg/L
B 182.528†	430.8	2.67	0.62%	[1.0000]	mg/L
Ba 233.527†	121105.3	434.34	0.36%	[1.0000]	mg/L
Be 313.107†	497052.4	730.76	0.15%	[0.1000]	mg/L
Ca 315.886†	1451486.9	1297.83	0.09%	[10.0000]	mg/L
Cd 228.802†	19872.2	5.73	0.03%	[0.5000]	mg/L
Co 228.616†	37585.4	69.52	0.18%	[1.0000]	mg/L
Cr 267.716†	156865.7	839.76	0.54%	[1.0000]	mg/L
Cu 324.752†	273903.5	1676.55	0.61%	[1.0000]	mg/L
Fe 234.349†	259338.3	546.90	0.21%	[5.0]	mg/L
Fe 238.204†	594280.6	1494.21	0.25%	[5.0]	mg/L
K 766.490†	78225.5	615.20	0.79%	[50.0000]	mg/L
Li 670.784†	31997.2	164.29	0.51%	[1]	mg/L
Mg 279.077†	256431.6	766.81	0.30%	[10.0000]	mg/L
Mn 257.610†	903686.7	1648.45	0.18%	[1.0000]	mg/L
Mo 202.031†	14914.3	33.34	0.22%	[1.0000]	mg/L
Na 589.592	391842.6	3290.72	0.84%	[50.000]	mg/L
Ni 231.604†	31258.3	250.92	0.80%	[1.0000]	mg/L
P 214.914†	14016.2	40.59	0.29%	[10]	mg/L
Pb 220.353†	8907.8	20.95	0.24%	[1.0000]	mg/L
Sb 206.836†	2039.6	7.92	0.39%	[1.0000]	mg/L
Se 196.026†	1571.2	3.09	0.20%	[2.0000]	mg/L
Sn 189.927†	3664.1	13.30	0.36%	[1.0000]	mg/L
Sr 407.771†	2262389.4	2599.83	0.11%	[0.1000]	mg/L
Ti 337.279†	795963.7	3374.66	0.42%	[1.0000]	mg/L
Tl 190.801†	1278.7	7.08	0.55%	[1.0000]	mg/L
V 292.402†	262072.2	1858.82	0.71%	[1.0000]	mg/L
Zn 213.857†	76032.7	391.48	0.51%	[1.0000]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin, Calc Int	294.8	291400	0.00000	0.999989	
Al 237.313	3	Lin, Calc Int	48.4	8991	0.00000	0.999995	
As 188.979	3	Lin, Calc Int	0.8	727.3	0.00000	0.999997	
B 182.528	3	Lin, Calc Int	-0.2	430.5	0.00000	0.999994	
Ba 233.527	3	Lin, Calc Int	307.5	121000	0.00000	0.999981	
Be 313.107	3	Lin, Calc Int	592.8	4966000	0.00000	0.999998	
Ca 315.886	3	Lin, Calc Int	1678.9	145100	0.00000	0.999994	
Cd 228.802	3	Lin, Calc Int	35.8	39750	0.00000	0.999983	
Co 228.616	3	Lin, Calc Int	83.1	37530	0.00000	0.999992	
Cr 267.716	3	Lin, Calc Int	364.2	156800	0.00000	0.999983	
Cu 324.752	3	Lin, Calc Int	666.6	273700	0.00000	0.999984	
Fe 234.349	3	Lin, Calc Int	607.9	51830	0.00000	0.999986	
Fe 238.204	3	Lin, Calc Int	1789.4	118800	0.00000	0.999974	
K 766.490	3	Lin, Calc Int	74.0	1564	0.00000	0.999998	
Li 670.784	3	Lin, Calc Int	150.8	32010	0.00000	0.999877	
Mg 279.077	3	Lin, Calc Int	883.1	25620	0.00000	0.999966	
Mn 257.610	3	Lin, Calc Int	2889.5	902500	0.00000	0.999977	
Mo 202.031	3	Lin, Calc Int	32.1	14910	0.00000	0.999977	
Na 589.592	3	Lin, Calc Int	984.1	7837	0.00000	0.999970	
Ni 231.604	3	Lin, Calc Int	81.5	31220	0.00000	0.999985	
P 214.914	3	Lin, Calc Int	0.5	1402	0.00000	1.000000	
Pb 220.353	3	Lin, Calc Int	37.3	8899	0.00000	0.999946	
Sb 206.836	3	Lin, Calc Int	7.0	2036	0.00000	0.999979	
Se 196.026	3	Lin, Calc Int	2.7	784.2	0.00000	0.999994	
Sn 189.927	3	Lin, Calc Int	5.9	3664	0.00000	0.999986	
Sr 407.771	3	Lin, Calc Int	7742.6	22600000	0.00000	0.999966	
Ti 337.279	3	Lin, Calc Int	1082.7	795800	0.00000	0.999993	
Tl 190.801	3	Lin, Calc Int	-1.3	1283	0.00000	0.999962	
V 292.402	3	Lin, Calc Int	370.0	262000	0.00000	0.999995	

Zn 213.857	3	Lin, Calc Int	127.8	75960	0.00000	0.999995

Sequence No.: 5
Sample ID: STD2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/30/2006 10:13:18 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: STD2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	38785.2	39113.5	24.97	mg/L	24.97	mg/L	10:14:54
1	Li 670.784†	16246.8	16542.3	0.5121	mg/L	0.5121	mg/L	10:14:54
1	Na 589.592	203630.1	197513.1	25.08	mg/L	25.08	mg/L	10:14:54
1	Y 371.029	3556857.8	3556857.8	0.973	mg/L			10:15:09
1	Ag 328.068†	69523.7	74062.7	0.2536	mg/L	0.2536	mg/L	10:15:14
1	Al 237.313†	22020.9	22654.4	2.505	mg/L	2.505	mg/L	10:15:14
1	As 188.979†	367.7	371.8	0.5089	mg/L	0.5089	mg/L	10:15:35
1	B 182.528†	211.5	221.9	0.5159	mg/L	0.5159	mg/L	10:15:35
1	Ba 233.527†	59804.4	61593.9	0.5063	mg/L	0.5063	mg/L	10:15:14
1	Be 313.107†	245475.5	249639.2	0.0498	mg/L	0.0498	mg/L	10:15:09
1	Ca 315.886†	713743.3	731826.0	5.033	mg/L	5.033	mg/L	10:15:09
1	Cd 228.802†	9937.2	10088.0	0.2526	mg/L	0.2526	mg/L	10:15:35
1	Co 228.616†	18341.1	19026.9	0.5037	mg/L	0.5037	mg/L	10:15:14
1	Cr 267.716†	78536.6	79508.5	0.5044	mg/L	0.5044	mg/L	10:15:14
1	Cu 324.752†	137666.8	139050.1	0.5063	mg/L	0.5063	mg/L	10:15:14
1	Fe 234.349†	129373.0	131353.4	2.517	mg/L	2.517	mg/L	10:15:14
1	Fe 238.204†	296645.6	302695.2	2.534	mg/L	2.534	mg/L	10:15:14
1	Mg 279.077†	127973.6	130968.7	5.082	mg/L	5.082	mg/L	10:15:14
1	Mn 257.610†	449705.2	458279.3	0.5047	mg/L	0.5047	mg/L	10:15:09
1	Mo 202.031†	7428.6	7598.4	0.5073	mg/L	0.5073	mg/L	10:15:35
1	Ni 231.604†	15619.1	16011.8	0.5108	mg/L	0.5108	mg/L	10:15:14
1	P 214.914†	6904.4	7047.0	5.028	mg/L	5.028	mg/L	10:15:35
1	Pb 220.353†	4288.8	4571.4	0.5107	mg/L	0.5107	mg/L	10:15:35
1	Sb 206.836†	1014.6	1031.7	0.4926	mg/L	0.4926	mg/L	10:15:35
1	Se 196.026†	758.5	786.7	0.9998	mg/L	0.9998	mg/L	10:15:35
1	Sn 189.927†	2065.0	1882.9	0.5129	mg/L	0.5129	mg/L	10:15:35
1	Sr 407.771†	1126737.7	1151041.7	0.0506	mg/L	0.0506	mg/L	10:15:09
1	Ti 337.279†	384800.0	397439.7	0.4981	mg/L	0.4981	mg/L	10:15:09
1	Tl 190.801†	640.9	656.3	0.5152	mg/L	0.5152	mg/L	10:15:35
1	V 292.402†	127295.3	132370.1	0.5111	mg/L	0.5111	mg/L	10:15:14
1	Zn 213.857†	37880.5	38284.4	0.4998	mg/L	0.4998	mg/L	10:15:14
2	K 766.490†	39350.2	39397.8	25.15	mg/L	25.15	mg/L	10:14:59
2	Li 670.784†	16368.5	16544.1	0.5122	mg/L	0.5122	mg/L	10:14:59
2	Na 589.592	203061.1	196944.2	25.01	mg/L	25.01	mg/L	10:14:59
2	Y 371.029	3583105.7	3583105.7	0.980	mg/L			10:15:42
2	Ag 328.068†	69996.9	74022.0	0.2534	mg/L	0.2534	mg/L	10:15:47
2	Al 237.313†	22110.1	22579.6	2.497	mg/L	2.497	mg/L	10:15:47
2	As 188.979†	366.8	368.1	0.5039	mg/L	0.5039	mg/L	10:16:07
2	B 182.528†	212.7	221.5	0.5149	mg/L	0.5149	mg/L	10:16:07
2	Ba 233.527†	59973.5	61316.3	0.5040	mg/L	0.5040	mg/L	10:15:47
2	Be 313.107†	247033.6	249380.8	0.0498	mg/L	0.0498	mg/L	10:15:42
2	Ca 315.886†	719733.9	732563.9	5.038	mg/L	5.038	mg/L	10:15:42
2	Cd 228.802†	9923.5	9999.2	0.2504	mg/L	0.2504	mg/L	10:16:07
2	Co 228.616†	18306.5	18853.5	0.4990	mg/L	0.4990	mg/L	10:15:47
2	Cr 267.716†	78728.4	79113.0	0.5019	mg/L	0.5019	mg/L	10:15:47
2	Cu 324.752†	138811.7	139181.7	0.5068	mg/L	0.5068	mg/L	10:15:47
2	Fe 234.349†	129650.4	130662.6	2.504	mg/L	2.504	mg/L	10:15:47
2	Fe 238.204†	297173.8	301001.3	2.520	mg/L	2.520	mg/L	10:15:47
2	Mg 279.077†	128441.6	130482.8	5.063	mg/L	5.063	mg/L	10:15:47
2	Mn 257.610†	452908.1	458161.3	0.5045	mg/L	0.5045	mg/L	10:15:42
2	Mo 202.031†	7409.2	7522.7	0.5022	mg/L	0.5022	mg/L	10:16:07
2	Ni 231.604†	15725.4	16002.6	0.5105	mg/L	0.5105	mg/L	10:15:47
2	P 214.914†	6889.6	6980.0	4.980	mg/L	4.980	mg/L	10:16:07
2	Pb 220.353†	4252.0	4501.6	0.5028	mg/L	0.5028	mg/L	10:16:07
2	Sb 206.836†	1007.7	1017.0	0.4854	mg/L	0.4854	mg/L	10:16:07
2	Se 196.026†	776.2	799.1	1.016	mg/L	1.016	mg/L	10:16:07
2	Sn 189.927†	2048.0	1850.0	0.5039	mg/L	0.5039	mg/L	10:16:07
2	Sr 407.771†	1137024.6	1153053.1	0.0507	mg/L	0.0507	mg/L	10:15:42
2	Ti 337.279†	387552.4	397350.8	0.4980	mg/L	0.4980	mg/L	10:15:42

2	Tl 190.801†	634.9	645.3	0.5067 mg/L	0.5067 mg/L	10:16:07
2	V 292.402†	127497.0	131617.7	0.5081 mg/L	0.5081 mg/L	10:15:47
2	Zn 213.857†	38012.1	38133.4	0.4978 mg/L	0.4978 mg/L	10:15:47

Mean Data: STD2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3569981.7	0.977	mg/L	0.0051				0.52%
Ag 328.068†	74042.3	0.2535	mg/L	0.00010	0.2535	mg/L	0.00010	0.04%
QC value within limits for Ag 328.068 Recovery = 101.41%								
Al 237.313†	22617.0	2.501	mg/L	0.0059	2.501	mg/L	0.0059	0.23%
QC value within limits for Al 237.313 Recovery = 100.05%								
As 188.979†	369.9	0.5064	mg/L	0.00355	0.5064	mg/L	0.00355	0.70%
QC value within limits for As 188.979 Recovery = 101.28%								
B 182.528†	221.7	0.5154	mg/L	0.00069	0.5154	mg/L	0.00069	0.13%
QC value within limits for B 182.528 Recovery = 103.08%								
Ba 233.527†	61455.1	0.5052	mg/L	0.00162	0.5052	mg/L	0.00162	0.32%
QC value within limits for Ba 233.527 Recovery = 101.03%								
Be 313.107†	249510.0	0.0498	mg/L	0.00004	0.0498	mg/L	0.00004	0.07%
QC value within limits for Be 313.107 Recovery = 99.61%								
Ca 315.886†	732195.0	5.036	mg/L	0.0036	5.036	mg/L	0.0036	0.07%
QC value within limits for Ca 315.886 Recovery = 100.72%								
Cd 228.802†	10043.6	0.2515	mg/L	0.00158	0.2515	mg/L	0.00158	0.63%
QC value within limits for Cd 228.802 Recovery = 100.61%								
Co 228.616†	18940.2	0.5013	mg/L	0.00327	0.5013	mg/L	0.00327	0.65%
QC value within limits for Co 228.616 Recovery = 100.27%								
Cr 267.716†	79310.7	0.5031	mg/L	0.00178	0.5031	mg/L	0.00178	0.35%
QC value within limits for Cr 267.716 Recovery = 100.62%								
Cu 324.752†	139115.9	0.5066	mg/L	0.00034	0.5066	mg/L	0.00034	0.07%
QC value within limits for Cu 324.752 Recovery = 101.32%								
Fe 234.349†	131008.0	2.510	mg/L	0.0094	2.510	mg/L	0.0094	0.38%
QC value within limits for Fe 234.349 Recovery = 100.42%								
Fe 238.204†	301848.3	2.527	mg/L	0.0101	2.527	mg/L	0.0101	0.40%
QC value within limits for Fe 238.204 Recovery = 101.09%								
K 766.490†	39255.7	25.06	mg/L	0.129	25.06	mg/L	0.129	0.51%
QC value within limits for K 766.490 Recovery = 100.22%								
Li 670.784†	16543.2	0.5121	mg/L	0.00004	0.5121	mg/L	0.00004	0.01%
QC value within limits for Li 670.784 Recovery = 102.43%								
Mg 279.077†	130725.7	5.072	mg/L	0.0134	5.072	mg/L	0.0134	0.26%
QC value within limits for Mg 279.077 Recovery = 101.45%								
Mn 257.610†	458220.3	0.5046	mg/L	0.00009	0.5046	mg/L	0.00009	0.02%
QC value within limits for Mn 257.610 Recovery = 100.92%								
Mo 202.031†	7560.5	0.5048	mg/L	0.00359	0.5048	mg/L	0.00359	0.71%
QC value within limits for Mo 202.031 Recovery = 100.95%								
Na 589.592	197228.6	25.04	mg/L	0.051	25.04	mg/L	0.051	0.21%
QC value within limits for Na 589.592 Recovery = 100.17%								
Ni 231.604†	16007.2	0.5106	mg/L	0.00021	0.5106	mg/L	0.00021	0.04%
QC value within limits for Ni 231.604 Recovery = 102.13%								
P 214.914†	7013.5	5.004	mg/L	0.0338	5.004	mg/L	0.0338	0.68%
QC value within limits for P 214.914 Recovery = 100.07%								
Pb 220.353†	4536.5	0.5068	mg/L	0.00555	0.5068	mg/L	0.00555	1.10%
QC value within limits for Pb 220.353 Recovery = 101.35%								
Sb 206.836†	1024.3	0.4890	mg/L	0.00506	0.4890	mg/L	0.00506	1.04%
QC value within limits for Sb 206.836 Recovery = 97.81%								
Se 196.026†	792.9	1.008	mg/L	0.0111	1.008	mg/L	0.0111	1.10%
QC value within limits for Se 196.026 Recovery = 100.77%								
Sn 189.927†	1866.5	0.5084	mg/L	0.00636	0.5084	mg/L	0.00636	1.25%
QC value within limits for Sn 189.927 Recovery = 101.67%								
Sr 407.771†	1152047.4	0.0506	mg/L	0.00006	0.0506	mg/L	0.00006	0.12%
QC value within limits for Sr 407.771 Recovery = 101.25%								
Ti 337.279†	397395.2	0.4980	mg/L	0.00008	0.4980	mg/L	0.00008	0.02%
QC value within limits for Ti 337.279 Recovery = 99.60%								
Tl 190.801†	650.8	0.5110	mg/L	0.00601	0.5110	mg/L	0.00601	1.18%
QC value within limits for Tl 190.801 Recovery = 102.19%								
V 292.402†	131993.9	0.5096	mg/L	0.00209	0.5096	mg/L	0.00209	0.41%
QC value within limits for V 292.402 Recovery = 101.93%								
Zn 213.857†	38208.9	0.4988	mg/L	0.00141	0.4988	mg/L	0.00141	0.28%
QC value within limits for Zn 213.857 Recovery = 99.75%								

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/30/2006 10:17:46 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	K 766.490†	38609.6	38612.1	24.64	mg/L	24.64	mg/L	10:19:21
1	Li 670.784†	15795.3	15947.1	0.4935	mg/L	0.4935	mg/L	10:19:21
1	Na 589.592	199935.9	193819.0	24.61	mg/L	24.61	mg/L	10:19:21
1	Y 371.029	3585870.9	3585870.9	0.981	mg/L			10:19:36
1	Ag 328.068†	69278.4	73234.8	0.2507	mg/L	0.2507	mg/L	10:19:42
1	Al 237.313†	21564.1	22005.9	2.433	mg/L	2.433	mg/L	10:19:42
1	As 188.979†	348.6	349.2	0.4779	mg/L	0.4779	mg/L	10:20:02
1	B 182.528†	202.9	211.3	0.4913	mg/L	0.4913	mg/L	10:20:02
1	Ba 233.527†	57970.2	59227.6	0.4868	mg/L	0.4868	mg/L	10:19:42
1	Be 313.107†	245800.0	247929.3	0.0495	mg/L	0.0495	mg/L	10:19:36
1	Ca 315.886†	714114.0	726270.6	4.995	mg/L	4.995	mg/L	10:19:36
1	Cd 228.802†	9851.2	9917.7	0.2484	mg/L	0.2484	mg/L	10:20:02
1	Co 228.616†	17846.1	18369.9	0.4862	mg/L	0.4862	mg/L	10:19:42
1	Cr 267.716†	77630.3	77932.0	0.4943	mg/L	0.4943	mg/L	10:19:42
1	Cu 324.752†	136150.0	136359.9	0.4965	mg/L	0.4965	mg/L	10:19:42
1	Fe 234.349†	128980.1	129877.5	2.489	mg/L	2.489	mg/L	10:19:42
1	Fe 238.204†	295362.2	298921.4	2.503	mg/L	2.503	mg/L	10:19:42
1	Mg 279.077†	124148.7	126006.9	4.888	mg/L	4.888	mg/L	10:19:42
1	Mn 257.610†	445953.0	450717.1	0.4963	mg/L	0.4963	mg/L	10:19:36
1	Mo 202.031†	7281.1	7386.3	0.4931	mg/L	0.4931	mg/L	10:20:02
1	Ni 231.604†	15318.1	15575.2	0.4968	mg/L	0.4968	mg/L	10:19:42
1	P 214.914†	6718.9	6800.6	4.852	mg/L	4.852	mg/L	10:20:02
1	Pb 220.353†	4175.4	4420.1	0.4937	mg/L	0.4937	mg/L	10:20:02
1	Sb 206.836†	998.3	1006.5	0.4805	mg/L	0.4805	mg/L	10:20:02
1	Se 196.026†	759.5	781.4	0.9930	mg/L	0.9930	mg/L	10:20:02
1	Sn 189.927†	2037.9	1838.1	0.5006	mg/L	0.5006	mg/L	10:20:02
1	Sr 407.771†	1114471.8	1129175.2	0.0496	mg/L	0.0496	mg/L	10:19:36
1	Ti 337.279†	381833.3	391217.6	0.4903	mg/L	0.4903	mg/L	10:19:42
1	Tl 190.801†	630.8	640.7	0.5031	mg/L	0.5031	mg/L	10:20:02
1	V 292.402†	124429.6	128391.5	0.4957	mg/L	0.4957	mg/L	10:19:42
1	Zn 213.857†	37541.1	37623.5	0.4911	mg/L	0.4911	mg/L	10:19:42
2	K 766.490†	38908.1	38675.7	24.69	mg/L	24.69	mg/L	10:19:27
2	Li 670.784†	15935.9	15991.9	0.4949	mg/L	0.4949	mg/L	10:19:27
2	Na 589.592	199185.3	193068.3	24.51	mg/L	24.51	mg/L	10:19:27
2	Y 371.029	3607764.8	3607764.8	0.987	mg/L			10:20:09
2	Ag 328.068†	68821.1	72343.1	0.2477	mg/L	0.2477	mg/L	10:20:14
2	Al 237.313†	21513.9	21821.7	2.413	mg/L	2.413	mg/L	10:20:14
2	As 188.979†	350.2	348.7	0.4772	mg/L	0.4772	mg/L	10:20:34
2	B 182.528†	204.0	211.2	0.4910	mg/L	0.4910	mg/L	10:20:34
2	Ba 233.527†	58103.2	59003.7	0.4849	mg/L	0.4849	mg/L	10:20:14
2	Be 313.107†	247628.3	248261.1	0.0496	mg/L	0.0496	mg/L	10:20:09
2	Ca 315.886†	717933.6	725723.1	4.991	mg/L	4.991	mg/L	10:20:09
2	Cd 228.802†	9836.3	9841.8	0.2465	mg/L	0.2465	mg/L	10:20:34
2	Co 228.616†	17900.8	18315.0	0.4847	mg/L	0.4847	mg/L	10:20:14
2	Cr 267.716†	77716.3	77539.1	0.4918	mg/L	0.4918	mg/L	10:20:14
2	Cu 324.752†	135648.1	135009.6	0.4916	mg/L	0.4916	mg/L	10:20:14
2	Fe 234.349†	129113.4	129214.8	2.476	mg/L	2.476	mg/L	10:20:14
2	Fe 238.204†	295802.8	297541.0	2.491	mg/L	2.491	mg/L	10:20:14
2	Mg 279.077†	124268.1	125360.0	4.863	mg/L	4.863	mg/L	10:20:14
2	Mn 257.610†	448254.3	450290.1	0.4958	mg/L	0.4958	mg/L	10:20:09
2	Mo 202.031†	7265.7	7325.6	0.4890	mg/L	0.4890	mg/L	10:20:34
2	Ni 231.604†	15564.0	15729.6	0.5017	mg/L	0.5017	mg/L	10:20:14
2	P 214.914†	6707.5	6747.5	4.814	mg/L	4.814	mg/L	10:20:34
2	Pb 220.353†	4166.4	4385.2	0.4897	mg/L	0.4897	mg/L	10:20:34
2	Sb 206.836†	987.8	989.7	0.4723	mg/L	0.4723	mg/L	10:20:34
2	Se 196.026†	749.5	766.5	0.9741	mg/L	0.9741	mg/L	10:20:34
2	Sn 189.927†	2033.3	1820.8	0.4959	mg/L	0.4959	mg/L	10:20:34
2	Sr 407.771†	1120268.7	1128154.5	0.0496	mg/L	0.0496	mg/L	10:20:09
2	Ti 337.279†	383008.1	390046.1	0.4888	mg/L	0.4888	mg/L	10:20:14
2	Tl 190.801†	623.8	629.7	0.4945	mg/L	0.4945	mg/L	10:20:34
2	V 292.402†	124488.2	127681.2	0.4929	mg/L	0.4929	mg/L	10:20:14
2	Zn 213.857†	37717.9	37570.5	0.4904	mg/L	0.4904	mg/L	10:20:14

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3596817.8	0.984	mg/L	0.0042				0.43%
Ag 328.068†	72788.9	0.2492	mg/L	0.00217	0.2492	mg/L	0.00217	0.87%
QC value within limits for Ag 328.068 Recovery = 99.68%								
Al 237.313†	21913.8	2.423	mg/L	0.0145	2.423	mg/L	0.0145	0.60%
QC value within limits for Al 237.313 Recovery = 96.92%								
As 188.979†	349.0	0.4776	mg/L	0.00053	0.4776	mg/L	0.00053	0.11%
QC value within limits for As 188.979 Recovery = 95.52%								
B 182.528†	211.3	0.4911	mg/L	0.00020	0.4911	mg/L	0.00020	0.04%
QC value within limits for B 182.528 Recovery = 98.23%								
Ba 233.527†	59115.7	0.4858	mg/L	0.00131	0.4858	mg/L	0.00131	0.27%
QC value within limits for Ba 233.527 Recovery = 97.17%								
Be 313.107†	248095.2	0.0495	mg/L	0.00005	0.0495	mg/L	0.00005	0.10%
QC value within limits for Be 313.107 Recovery = 99.05%								
Ca 315.886†	725996.8	4.993	mg/L	0.0027	4.993	mg/L	0.0027	0.05%
QC value within limits for Ca 315.886 Recovery = 99.86%								
Cd 228.802†	9879.7	0.2475	mg/L	0.00135	0.2475	mg/L	0.00135	0.55%
QC value within limits for Cd 228.802 Recovery = 99.00%								
Co 228.616†	18342.5	0.4854	mg/L	0.00103	0.4854	mg/L	0.00103	0.21%
QC value within limits for Co 228.616 Recovery = 97.09%								
Cr 267.716†	77735.5	0.4931	mg/L	0.00177	0.4931	mg/L	0.00177	0.36%
QC value within limits for Cr 267.716 Recovery = 98.62%								
Cu 324.752†	135684.8	0.4940	mg/L	0.00349	0.4940	mg/L	0.00349	0.71%
QC value within limits for Cu 324.752 Recovery = 98.81%								
Fe 234.349†	129546.2	2.482	mg/L	0.0091	2.482	mg/L	0.0091	0.37%
QC value within limits for Fe 234.349 Recovery = 99.29%								
Fe 238.204†	298231.2	2.497	mg/L	0.0082	2.497	mg/L	0.0082	0.33%
QC value within limits for Fe 238.204 Recovery = 99.87%								
K 766.490†	38643.9	24.66	mg/L	0.029	24.66	mg/L	0.029	0.12%
QC value within limits for K 766.490 Recovery = 98.66%								
Li 670.784†	15969.5	0.4942	mg/L	0.00099	0.4942	mg/L	0.00099	0.20%
QC value within limits for Li 670.784 Recovery = 98.84%								
Mg 279.077†	125683.5	4.876	mg/L	0.0179	4.876	mg/L	0.0179	0.37%
QC value within limits for Mg 279.077 Recovery = 97.51%								
Mn 257.610†	450503.6	0.4961	mg/L	0.00033	0.4961	mg/L	0.00033	0.07%
QC value within limits for Mn 257.610 Recovery = 99.21%								
Mo 202.031†	7356.0	0.4911	mg/L	0.00288	0.4911	mg/L	0.00288	0.59%
QC value within limits for Mo 202.031 Recovery = 98.21%								
Na 589.592	193443.6	24.56	mg/L	0.068	24.56	mg/L	0.068	0.28%
QC value within limits for Na 589.592 Recovery = 98.24%								
Ni 231.604†	15652.4	0.4993	mg/L	0.00349	0.4993	mg/L	0.00349	0.70%
QC value within limits for Ni 231.604 Recovery = 99.85%								
P 214.914†	6774.1	4.833	mg/L	0.0268	4.833	mg/L	0.0268	0.55%
QC value within limits for P 214.914 Recovery = 96.66%								
Pb 220.353†	4402.7	0.4917	mg/L	0.00278	0.4917	mg/L	0.00278	0.57%
QC value within limits for Pb 220.353 Recovery = 98.34%								
Sb 206.836†	998.1	0.4764	mg/L	0.00579	0.4764	mg/L	0.00579	1.22%
QC value within limits for Sb 206.836 Recovery = 95.28%								
Se 196.026†	774.0	0.9835	mg/L	0.01338	0.9835	mg/L	0.01338	1.36%
QC value within limits for Se 196.026 Recovery = 98.35%								
Sn 189.927†	1829.5	0.4983	mg/L	0.00334	0.4983	mg/L	0.00334	0.67%
QC value within limits for Sn 189.927 Recovery = 99.65%								
Sr 407.771†	1128664.8	0.0496	mg/L	0.00003	0.0496	mg/L	0.00003	0.06%
QC value within limits for Sr 407.771 Recovery = 99.18%								
Ti 337.279†	390631.8	0.4895	mg/L	0.00104	0.4895	mg/L	0.00104	0.21%
QC value within limits for Ti 337.279 Recovery = 97.90%								
Tl 190.801†	635.2	0.4988	mg/L	0.00608	0.4988	mg/L	0.00608	1.22%
QC value within limits for Tl 190.801 Recovery = 99.76%								
V 292.402†	128036.3	0.4943	mg/L	0.00196	0.4943	mg/L	0.00196	0.40%
QC value within limits for V 292.402 Recovery = 98.86%								
Zn 213.857†	37597.0	0.4908	mg/L	0.00052	0.4908	mg/L	0.00052	0.11%
QC value within limits for Zn 213.857 Recovery = 98.15%								

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: ICCB
Analyst:

Autosampler Location: 1
Date Collected: 6/30/2006 10:22:14 AM
Data Type: Original

Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490†	770.8	30.1	-0.0280	mg/L	-0.0280	mg/L	10:23:50
1	Li 670.784†	161.3	10.1	-0.0044	mg/L	-0.0044	mg/L	10:23:50
1	Na 589.592	4862.9	-1254.1	-0.2856	mg/L	-0.2856	mg/L	10:23:50
1	Y 371.029	3680855.2	3680855.2	1.01	mg/L			10:24:04
1	Ag 328.068†	-2455.0	195.3	-0.0003	mg/L	-0.0003	mg/L	10:24:09
1	Al 237.313†	-33.7	-3.8	-0.0057	mg/L	-0.0057	mg/L	10:24:29
1	As 188.979†	1.8	-4.2	-0.0069	mg/L	-0.0069	mg/L	10:24:29
1	B 182.528†	1.1	5.7	0.0136	mg/L	0.0136	mg/L	10:24:29
1	Ba 233.527†	-172.0	-21.0	-0.0027	mg/L	-0.0027	mg/L	10:24:29
1	Be 313.107†	2683.1	96.7	-0.0001	mg/L	-0.0001	mg/L	10:24:09
1	Ca 315.886†	1581.0	82.1	-0.0110	mg/L	-0.0110	mg/L	10:24:09
1	Cd 228.802†	117.5	-5.0	-0.0010	mg/L	-0.0010	mg/L	10:24:29
1	Co 228.616†	-172.8	11.4	-0.0019	mg/L	-0.0019	mg/L	10:24:29
1	Cr 267.716†	1093.9	-95.5	-0.0029	mg/L	-0.0029	mg/L	10:24:09
1	Cu 324.752†	2517.5	108.0	-0.0020	mg/L	-0.0020	mg/L	10:24:09
1	Fe 234.349†	1560.3	-17.9	-0.0120	mg/L	-0.0120	mg/L	10:24:29
1	Fe 238.204†	2120.7	21.3	-0.0149	mg/L	-0.0149	mg/L	10:24:29
1	Mg 279.077†	463.4	-53.8	-0.0366	mg/L	-0.0366	mg/L	10:24:09
1	Mn 257.610†	2805.3	-971.4	-0.0043	mg/L	-0.0043	mg/L	10:24:09
1	Mo 202.031†	44.6	10.4	-0.0015	mg/L	-0.0015	mg/L	10:24:29
1	Ni 231.604†	35.0	-0.8	-0.0026	mg/L	-0.0026	mg/L	10:24:29
1	P 214.914†	44.8	-2.2	-0.0019	mg/L	-0.0019	mg/L	10:24:29
1	Pb 220.353†	-156.9	9.2	-0.0032	mg/L	-0.0032	mg/L	10:24:29
1	Sb 206.836†	8.1	-2.8	-0.0047	mg/L	-0.0047	mg/L	10:24:29
1	Se 196.026†	-11.0	-3.5	-0.0079	mg/L	-0.0079	mg/L	10:24:29
1	Sn 189.927†	217.0	-23.3	-0.0080	mg/L	-0.0080	mg/L	10:24:29
1	Sr 407.771†	6754.6	115.9	-0.0003	mg/L	-0.0003	mg/L	10:24:04
1	Ti 337.279†	-1899.3	203.2	-0.0011	mg/L	-0.0011	mg/L	10:24:09
1	Tl 190.801†	6.9	4.7	0.0046	mg/L	0.0046	mg/L	10:24:29
1	V 292.402†	-1619.9	-23.9	-0.0015	mg/L	-0.0015	mg/L	10:24:09
1	Zn 213.857†	627.2	-12.1	-0.0018	mg/L	-0.0018	mg/L	10:24:29
2	K 766.490†	870.1	128.5	0.0349	mg/L	0.0349	mg/L	10:23:56
2	Li 670.784†	171.1	19.9	-0.0041	mg/L	-0.0041	mg/L	10:23:56
2	Na 589.592	4895.9	-1221.1	-0.2814	mg/L	-0.2814	mg/L	10:23:56
2	Y 371.029	3681548.6	3681548.6	1.01	mg/L			10:24:35
2	Ag 328.068†	-2511.9	139.3	-0.0005	mg/L	-0.0005	mg/L	10:24:40
2	Al 237.313†	-38.2	-8.2	-0.0062	mg/L	-0.0062	mg/L	10:25:01
2	As 188.979†	3.8	-2.2	-0.0042	mg/L	-0.0042	mg/L	10:25:01
2	B 182.528†	2.6	7.2	0.0171	mg/L	0.0171	mg/L	10:25:01
2	Ba 233.527†	-184.2	-33.0	-0.0028	mg/L	-0.0028	mg/L	10:25:01
2	Be 313.107†	2504.6	-80.9	-0.0001	mg/L	-0.0001	mg/L	10:24:40
2	Ca 315.886†	1482.2	-16.4	-0.0117	mg/L	-0.0117	mg/L	10:24:40
2	Cd 228.802†	125.7	3.1	-0.0008	mg/L	-0.0008	mg/L	10:25:01
2	Co 228.616†	-171.3	12.8	-0.0019	mg/L	-0.0019	mg/L	10:25:01
2	Cr 267.716†	1068.4	-121.0	-0.0031	mg/L	-0.0031	mg/L	10:24:40
2	Cu 324.752†	2461.4	51.9	-0.0022	mg/L	-0.0022	mg/L	10:24:40
2	Fe 234.349†	1591.5	12.9	-0.0115	mg/L	-0.0115	mg/L	10:25:01
2	Fe 238.204†	2092.4	-7.1	-0.0151	mg/L	-0.0151	mg/L	10:25:01
2	Mg 279.077†	525.7	7.9	-0.0342	mg/L	-0.0342	mg/L	10:24:40
2	Mn 257.610†	2794.3	-982.9	-0.0043	mg/L	-0.0043	mg/L	10:24:40
2	Mo 202.031†	44.4	10.2	-0.0015	mg/L	-0.0015	mg/L	10:25:01
2	Ni 231.604†	50.2	14.3	-0.0022	mg/L	-0.0022	mg/L	10:25:01
2	P 214.914†	40.3	-6.6	-0.0051	mg/L	-0.0051	mg/L	10:25:01
2	Pb 220.353†	-153.9	12.3	-0.0028	mg/L	-0.0028	mg/L	10:25:01
2	Sb 206.836†	10.7	-0.2	-0.0035	mg/L	-0.0035	mg/L	10:25:01
2	Se 196.026†	-2.9	4.6	0.0024	mg/L	0.0024	mg/L	10:25:01
2	Sn 189.927†	217.3	-23.0	-0.0079	mg/L	-0.0079	mg/L	10:25:01
2	Sr 407.771†	6788.5	148.2	-0.0003	mg/L	-0.0003	mg/L	10:24:35
2	Ti 337.279†	-2050.2	53.7	-0.0013	mg/L	-0.0013	mg/L	10:24:40
2	Tl 190.801†	7.5	5.3	0.0050	mg/L	0.0050	mg/L	10:25:01
2	V 292.402†	-1610.4	-14.1	-0.0015	mg/L	-0.0015	mg/L	10:24:40
2	Zn 213.857†	629.7	-9.7	-0.0018	mg/L	-0.0018	mg/L	10:25:01

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3681201.9	1.01	mg/L	0.000				0.01%
Ag 328.068†	167.3	-0.0004	mg/L	0.00014	-0.0004	mg/L	0.00014	30.92%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	-6.0	-0.0060	mg/L	0.00035	-0.0060	mg/L	0.00035	5.83%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	-3.2	-0.0056	mg/L	0.00191	-0.0056	mg/L	0.00191	34.37%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	6.5	0.0153	mg/L	0.00250	0.0153	mg/L	0.00250	16.32%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	-27.0	-0.0028	mg/L	0.00007	-0.0028	mg/L	0.00007	2.55%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	7.9	-0.0001	mg/L	0.00003	-0.0001	mg/L	0.00003	21.45%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	32.8	-0.0113	mg/L	0.00048	-0.0113	mg/L	0.00048	4.22%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	-0.9	-0.0009	mg/L	0.00013	-0.0009	mg/L	0.00013	14.89%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	12.1	-0.0019	mg/L	0.00003	-0.0019	mg/L	0.00003	1.48%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-108.2	-0.0030	mg/L	0.00011	-0.0030	mg/L	0.00011	3.82%
QC value less than the lower limit for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	79.9	-0.0021	mg/L	0.00015	-0.0021	mg/L	0.00015	6.76%
QC value less than the lower limit for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	-2.5	-0.0118	mg/L	0.00042	-0.0118	mg/L	0.00042	3.54%
QC value within limits for Fe 234.349 Recovery = Not calculated								
Fe 238.204†	7.1	-0.0150	mg/L	0.00017	-0.0150	mg/L	0.00017	1.13%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	79.3	0.0034	mg/L	0.04450	0.0034	mg/L	0.04450	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	15.0	-0.0042	mg/L	0.00022	-0.0042	mg/L	0.00022	5.09%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	-23.0	-0.0354	mg/L	0.00170	-0.0354	mg/L	0.00170	4.81%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-977.1	-0.0043	mg/L	0.00001	-0.0043	mg/L	0.00001	0.21%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	10.3	-0.0015	mg/L	0.00001	-0.0015	mg/L	0.00001	0.49%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-1237.6	-0.2835	mg/L	0.00298	-0.2835	mg/L	0.00298	1.05%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	6.7	-0.0024	mg/L	0.00034	-0.0024	mg/L	0.00034	14.27%
QC value less than the lower limit for Ni 231.604 Recovery = Not calculated								
P 214.914†	-4.4	-0.0035	mg/L	0.00225	-0.0035	mg/L	0.00225	64.02%
QC value within limits for P 214.914 Recovery = Not calculated								
Pb 220.353†	10.7	-0.0030	mg/L	0.00024	-0.0030	mg/L	0.00024	8.06%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-1.5	-0.0041	mg/L	0.00091	-0.0041	mg/L	0.00091	22.15%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	0.5	-0.0027	mg/L	0.00728	-0.0027	mg/L	0.00728	265.47%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-23.1	-0.0079	mg/L	0.00006	-0.0079	mg/L	0.00006	0.71%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 407.771†	132.1	-0.0003	mg/L	0.00000	-0.0003	mg/L	0.00000	0.30%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Ti 337.279†	128.4	-0.0012	mg/L	0.00013	-0.0012	mg/L	0.00013	11.07%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801†	5.0	0.0048	mg/L	0.00029	0.0048	mg/L	0.00029	6.13%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-19.0	-0.0015	mg/L	0.00003	-0.0015	mg/L	0.00003	1.75%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	-10.9	-0.0018	mg/L	0.00002	-0.0018	mg/L	0.00002	1.10%
QC value within limits for Zn 213.857 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 8
Sample ID: CRI1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/30/2006 10:26:38 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRI1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	K 766.490†	4886.0	4172.1	2.621	mg/L	2.621	mg/L	10:28:13
1	Li 670.784†	1878.0	1736.2	0.0495	mg/L	0.0495	mg/L	10:28:13
1	Na 589.592	25491.2	19374.2	2.347	mg/L	2.347	mg/L	10:28:13
1	Y 371.029	3638504.9	3638504.9	0.996	mg/L			10:28:27
1	Ag 328.068†	5114.9	7769.9	0.0257	mg/L	0.0257	mg/L	10:28:32
1	Al 237.313†	2326.6	2366.5	0.2569	mg/L	0.2569	mg/L	10:28:32
1	As 188.979†	41.3	35.5	0.0476	mg/L	0.0476	mg/L	10:28:52
1	B 182.528†	20.7	25.4	0.0593	mg/L	0.0593	mg/L	10:28:52
1	Ba 233.527†	6187.4	6364.1	0.0500	mg/L	0.0500	mg/L	10:28:32
1	Be 313.107†	28354.4	25911.1	0.0051	mg/L	0.0051	mg/L	10:28:32
1	Ca 315.886†	78403.2	77257.8	0.5210	mg/L	0.5210	mg/L	10:28:32
1	Cd 228.802†	1143.7	1027.0	0.0249	mg/L	0.0249	mg/L	10:28:52
1	Co 228.616†	1829.4	2020.3	0.0515	mg/L	0.0515	mg/L	10:28:52
1	Cr 267.716†	9359.3	8218.6	0.0501	mg/L	0.0501	mg/L	10:28:32
1	Cu 324.752†	16803.4	14485.3	0.0506	mg/L	0.0506	mg/L	10:28:32
1	Fe 234.349†	15159.2	13658.4	0.2512	mg/L	0.2512	mg/L	10:28:32
1	Fe 238.204†	33601.2	31663.8	0.2516	mg/L	0.2516	mg/L	10:28:32
1	Mg 279.077†	14190.7	13738.8	0.5022	mg/L	0.5022	mg/L	10:28:32
1	Mn 257.610†	51345.8	47813.4	0.0498	mg/L	0.0498	mg/L	10:28:32
1	Mo 202.031†	806.1	775.7	0.0499	mg/L	0.0499	mg/L	10:28:52
1	Ni 231.604†	1725.7	1697.7	0.0518	mg/L	0.0518	mg/L	10:28:52
1	P 214.914†	749.1	705.7	0.5031	mg/L	0.5031	mg/L	10:28:52
1	Pb 220.353†	333.0	499.5	0.0521	mg/L	0.0521	mg/L	10:28:52
1	Sb 206.836†	109.1	98.7	0.0440	mg/L	0.0440	mg/L	10:28:52
1	Se 196.026†	71.0	78.7	0.0970	mg/L	0.0970	mg/L	10:28:52
1	Sn 189.927†	399.6	162.7	0.0428	mg/L	0.0428	mg/L	10:28:52
1	Sr 407.771†	127405.5	121371.4	0.0050	mg/L	0.0050	mg/L	10:28:27
1	Ti 337.279†	39008.9	41267.9	0.0505	mg/L	0.0505	mg/L	10:28:32
1	Tl 190.801†	67.3	65.5	0.0523	mg/L	0.0523	mg/L	10:28:52
1	V 292.402†	11945.6	13582.2	0.0511	mg/L	0.0511	mg/L	10:28:32
1	Zn 213.857†	4626.1	4011.5	0.0509	mg/L	0.0509	mg/L	10:28:52
2	K 766.490†	4936.3	4239.4	2.664	mg/L	2.664	mg/L	10:28:19
2	Li 670.784†	1941.8	1806.8	0.0517	mg/L	0.0517	mg/L	10:28:19
2	Na 589.592	25715.7	19598.7	2.375	mg/L	2.375	mg/L	10:28:19
2	Y 371.029	3626262.8	3626262.8	0.992	mg/L			10:28:58
2	Ag 328.068†	4852.2	7522.5	0.0248	mg/L	0.0248	mg/L	10:29:03
2	Al 237.313†	2265.3	2312.6	0.2509	mg/L	0.2509	mg/L	10:29:03
2	As 188.979†	41.0	35.3	0.0473	mg/L	0.0473	mg/L	10:29:24
2	B 182.528†	20.8	25.5	0.0597	mg/L	0.0597	mg/L	10:29:24
2	Ba 233.527†	6185.1	6382.9	0.0502	mg/L	0.0502	mg/L	10:29:03
2	Be 313.107†	28230.0	25881.8	0.0051	mg/L	0.0051	mg/L	10:29:03
2	Ca 315.886†	78368.3	77488.5	0.5226	mg/L	0.5226	mg/L	10:29:03
2	Cd 228.802†	1146.4	1033.6	0.0251	mg/L	0.0251	mg/L	10:29:24
2	Co 228.616†	1810.1	2007.1	0.0512	mg/L	0.0512	mg/L	10:29:24
2	Cr 267.716†	9411.0	8302.5	0.0506	mg/L	0.0506	mg/L	10:29:03
2	Cu 324.752†	16805.7	14544.6	0.0508	mg/L	0.0508	mg/L	10:29:03
2	Fe 234.349†	15095.5	13645.7	0.2510	mg/L	0.2510	mg/L	10:29:03
2	Fe 238.204†	33576.4	31752.7	0.2524	mg/L	0.2524	mg/L	10:29:03
2	Mg 279.077†	14104.9	13700.4	0.5007	mg/L	0.5007	mg/L	10:29:03
2	Mn 257.610†	51290.5	47931.7	0.0499	mg/L	0.0499	mg/L	10:29:03
2	Mo 202.031†	825.7	798.2	0.0514	mg/L	0.0514	mg/L	10:29:24
2	Ni 231.604†	1705.1	1682.8	0.0513	mg/L	0.0513	mg/L	10:29:24
2	P 214.914†	765.3	724.6	0.5166	mg/L	0.5166	mg/L	10:29:24
2	Pb 220.353†	317.7	485.2	0.0504	mg/L	0.0504	mg/L	10:29:24
2	Sb 206.836†	123.6	113.7	0.0514	mg/L	0.0514	mg/L	10:29:24
2	Se 196.026†	75.4	83.4	0.1029	mg/L	0.1029	mg/L	10:29:24
2	Sn 189.927†	395.6	159.9	0.0421	mg/L	0.0421	mg/L	10:29:24
2	Sr 407.771†	127144.1	121539.9	0.0050	mg/L	0.0050	mg/L	10:28:58
2	Ti 337.279†	39098.0	41490.0	0.0508	mg/L	0.0508	mg/L	10:29:03
2	Tl 190.801†	67.9	66.3	0.0529	mg/L	0.0529	mg/L	10:29:24
2	V 292.402†	11967.6	13644.8	0.0514	mg/L	0.0514	mg/L	10:29:03
2	Zn 213.857†	4615.2	4016.2	0.0509	mg/L	0.0509	mg/L	10:29:24

Mean Data: CRI1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3632383.8	0.994	mg/L	0.0024				0.24%

Ag 328.068†	7646.2	0.0253 mg/L	0.00060	0.0253 mg/L	0.00060	2.37%
QC value within limits for Ag 328.068 Recovery = 101.09%						
Al 237.313†	2339.6	0.2539 mg/L	0.00424	0.2539 mg/L	0.00424	1.67%
QC value within limits for Al 237.313 Recovery = 101.57%						
As 188.979†	35.4	0.0475 mg/L	0.00019	0.0475 mg/L	0.00019	0.41%
QC value within limits for As 188.979 Recovery = 94.92%						
B 182.528†	25.5	0.0595 mg/L	0.00029	0.0595 mg/L	0.00029	0.49%
QC value within limits for B 182.528 Recovery = 118.99%						
Ba 233.527†	6373.5	0.0501 mg/L	0.00011	0.0501 mg/L	0.00011	0.22%
QC value within limits for Ba 233.527 Recovery = 100.23%						
Be 313.107†	25896.5	0.0051 mg/L	0.00000	0.0051 mg/L	0.00000	0.08%
QC value within limits for Be 313.107 Recovery = 101.25%						
Ca 315.886†	77373.1	0.5218 mg/L	0.00112	0.5218 mg/L	0.00112	0.22%
QC value within limits for Ca 315.886 Recovery = 104.36%						
Cd 228.802†	1030.3	0.0250 mg/L	0.00012	0.0250 mg/L	0.00012	0.47%
QC value within limits for Cd 228.802 Recovery = 100.08%						
Co 228.616†	2013.7	0.0513 mg/L	0.00025	0.0513 mg/L	0.00025	0.49%
QC value within limits for Co 228.616 Recovery = 102.66%						
Cr 267.716†	8260.6	0.0503 mg/L	0.00038	0.0503 mg/L	0.00038	0.75%
QC value within limits for Cr 267.716 Recovery = 100.65%						
Cu 324.752†	14515.0	0.0507 mg/L	0.00015	0.0507 mg/L	0.00015	0.30%
QC value within limits for Cu 324.752 Recovery = 101.34%						
Fe 234.349†	13652.0	0.2511 mg/L	0.00017	0.2511 mg/L	0.00017	0.07%
QC value within limits for Fe 234.349 Recovery = 100.45%						
Fe 238.204†	31708.2	0.2520 mg/L	0.00053	0.2520 mg/L	0.00053	0.21%
QC value within limits for Fe 238.204 Recovery = 100.80%						
K 766.490†	4205.8	2.642 mg/L	0.0304	2.642 mg/L	0.0304	1.15%
QC value within limits for K 766.490 Recovery = 105.69%						
Li 670.784†	1771.5	0.0506 mg/L	0.00156	0.0506 mg/L	0.00156	3.08%
QC value within limits for Li 670.784 Recovery = 101.27%						
Mg 279.077†	13719.6	0.5015 mg/L	0.00106	0.5015 mg/L	0.00106	0.21%
QC value within limits for Mg 279.077 Recovery = 100.30%						
Mn 257.610†	47872.6	0.0499 mg/L	0.00009	0.0499 mg/L	0.00009	0.19%
QC value within limits for Mn 257.610 Recovery = 99.70%						
Mo 202.031†	786.9	0.0506 mg/L	0.00107	0.0506 mg/L	0.00107	2.11%
QC value within limits for Mo 202.031 Recovery = 101.21%						
Na 589.592	19486.4	2.361 mg/L	0.0203	2.361 mg/L	0.0203	0.86%
QC value within limits for Na 589.592 Recovery = 94.44%						
Ni 231.604†	1690.2	0.0516 mg/L	0.00034	0.0516 mg/L	0.00034	0.65%
QC value within limits for Ni 231.604 Recovery = 103.17%						
P 214.914†	715.2	0.5099 mg/L	0.00955	0.5099 mg/L	0.00955	1.87%
QC value within limits for P 214.914 Recovery = 101.98%						
Pb 220.353†	492.3	0.0513 mg/L	0.00114	0.0513 mg/L	0.00114	2.22%
QC value within limits for Pb 220.353 Recovery = 102.51%						
Sb 206.836†	106.2	0.0477 mg/L	0.00518	0.0477 mg/L	0.00518	10.87%
QC value within limits for Sb 206.836 Recovery = 95.38%						
Se 196.026†	81.0	0.0999 mg/L	0.00417	0.0999 mg/L	0.00417	4.17%
QC value within limits for Se 196.026 Recovery = 99.94%						
Sn 189.927†	161.3	0.0425 mg/L	0.00052	0.0425 mg/L	0.00052	1.24%
QC value within limits for Sn 189.927 Recovery = 84.94%						
Sr 407.771†	121455.6	0.0050 mg/L	0.00001	0.0050 mg/L	0.00001	0.10%
QC value within limits for Sr 407.771 Recovery = 100.62%						
Ti 337.279†	41378.9	0.0506 mg/L	0.00020	0.0506 mg/L	0.00020	0.39%
QC value within limits for Ti 337.279 Recovery = 101.27%						
Tl 190.801†	65.9	0.0526 mg/L	0.00046	0.0526 mg/L	0.00046	0.87%
QC value within limits for Tl 190.801 Recovery = 105.16%						
V 292.402†	13613.5	0.0513 mg/L	0.00019	0.0513 mg/L	0.00019	0.36%
QC value within limits for V 292.402 Recovery = 102.55%						
Zn 213.857†	4013.9	0.0509 mg/L	0.00005	0.0509 mg/L	0.00005	0.09%
QC value within limits for Zn 213.857 Recovery = 101.80%						

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: CRI2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 6/30/2006 10:31:03 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRI2

	Net	Corrected	Calib.	Sample	Analysis

Repl#	Analyte	Intensity	Intensity	Conc.	Units	Conc.	Units	Time
1	K 766.490†	2393.2	1653.1	1.010	mg/L	1.010	mg/L	10:32:39
1	Li 670.784†	850.9	699.1	0.0171	mg/L	0.0171	mg/L	10:32:39
1	Na 589.592	12460.7	6343.7	0.6839	mg/L	0.6839	mg/L	10:32:39
1	Y 371.029	3661937.2	3661937.2	1.00	mg/L			10:32:52
1	Ag 328.068†	322.1	2954.1	0.0091	mg/L	0.0091	mg/L	10:32:58
1	Al 237.313†	865.0	893.0	0.0936	mg/L	0.0936	mg/L	10:32:58
1	As 188.979†	16.6	10.5	0.0133	mg/L	0.0133	mg/L	10:33:18
1	B 182.528†	7.1	11.7	0.0276	mg/L	0.0276	mg/L	10:33:18
1	Ba 233.527†	2281.0	2426.1	0.0175	mg/L	0.0175	mg/L	10:33:18
1	Be 313.107†	12339.4	9746.9	0.0018	mg/L	0.0018	mg/L	10:32:58
1	Ca 315.886†	30487.3	28936.8	0.1879	mg/L	0.1879	mg/L	10:32:58
1	Cd 228.802†	509.0	386.3	0.0088	mg/L	0.0088	mg/L	10:33:18
1	Co 228.616†	580.8	762.5	0.0181	mg/L	0.0181	mg/L	10:33:18
1	Cr 267.716†	4142.6	2952.6	0.0165	mg/L	0.0165	mg/L	10:32:58
1	Cu 324.752†	7835.4	5427.8	0.0174	mg/L	0.0174	mg/L	10:32:58
1	Fe 234.349†	6678.9	5098.2	0.0864	mg/L	0.0864	mg/L	10:32:58
1	Fe 238.204†	13930.2	11817.3	0.0845	mg/L	0.0845	mg/L	10:32:58
1	Mg 279.077†	5680.5	5154.9	0.1669	mg/L	0.1669	mg/L	10:32:58
1	Mn 257.610†	21073.5	17273.5	0.0159	mg/L	0.0159	mg/L	10:32:58
1	Mo 202.031†	329.6	295.0	0.0176	mg/L	0.0176	mg/L	10:33:18
1	Ni 231.604†	656.7	619.8	0.0173	mg/L	0.0173	mg/L	10:33:18
1	P 214.914†	316.1	268.8	0.1914	mg/L	0.1914	mg/L	10:33:18
1	Pb 220.353†	13.6	178.6	0.0159	mg/L	0.0159	mg/L	10:33:18
1	Sb 206.836†	56.8	45.9	0.0188	mg/L	0.0188	mg/L	10:33:18
1	Se 196.026†	22.3	29.6	0.0343	mg/L	0.0343	mg/L	10:33:18
1	Sn 189.927†	284.0	44.7	0.0106	mg/L	0.0106	mg/L	10:33:18
1	Sr 407.771†	53060.3	46360.7	0.0017	mg/L	0.0017	mg/L	10:32:52
1	Ti 337.279†	13386.8	15448.0	0.0181	mg/L	0.0181	mg/L	10:32:58
1	Tl 190.801†	28.2	26.0	0.0213	mg/L	0.0213	mg/L	10:33:18
1	V 292.402†	3491.2	5068.4	0.0182	mg/L	0.0182	mg/L	10:32:58
1	Zn 213.857†	2133.3	1494.1	0.0179	mg/L	0.0179	mg/L	10:33:18
2	K 766.490†	2290.6	1531.7	0.9322	mg/L	0.9322	mg/L	10:32:45
2	Li 670.784†	804.8	646.5	0.0155	mg/L	0.0155	mg/L	10:32:45
2	Na 589.592	12438.1	6321.1	0.6810	mg/L	0.6810	mg/L	10:32:45
2	Y 371.029	3692704.0	3692704.0	1.01	mg/L			10:33:24
2	Ag 328.068†	219.7	2850.1	0.0088	mg/L	0.0088	mg/L	10:33:29
2	Al 237.313†	819.9	841.2	0.0879	mg/L	0.0879	mg/L	10:33:29
2	As 188.979†	23.4	17.1	0.0224	mg/L	0.0224	mg/L	10:33:49
2	B 182.528†	6.6	11.1	0.0262	mg/L	0.0262	mg/L	10:33:49
2	Ba 233.527†	2265.1	2391.4	0.0172	mg/L	0.0172	mg/L	10:33:49
2	Be 313.107†	12302.2	9607.5	0.0018	mg/L	0.0018	mg/L	10:33:29
2	Ca 315.886†	30353.7	28551.1	0.1852	mg/L	0.1852	mg/L	10:33:29
2	Cd 228.802†	523.6	396.5	0.0090	mg/L	0.0090	mg/L	10:33:49
2	Co 228.616†	577.8	754.7	0.0179	mg/L	0.0179	mg/L	10:33:49
2	Cr 267.716†	4198.2	2973.2	0.0166	mg/L	0.0166	mg/L	10:33:29
2	Cu 324.752†	7790.9	5318.7	0.0170	mg/L	0.0170	mg/L	10:33:29
2	Fe 234.349†	6831.0	5193.2	0.0883	mg/L	0.0883	mg/L	10:33:29
2	Fe 238.204†	13958.8	11729.8	0.0837	mg/L	0.0837	mg/L	10:33:29
2	Mg 279.077†	5683.0	5110.2	0.1651	mg/L	0.1651	mg/L	10:33:29
2	Mn 257.610†	21081.7	17106.4	0.0158	mg/L	0.0158	mg/L	10:33:29
2	Mo 202.031†	333.6	296.2	0.0177	mg/L	0.0177	mg/L	10:33:49
2	Ni 231.604†	676.1	633.5	0.0177	mg/L	0.0177	mg/L	10:33:49
2	P 214.914†	303.6	253.8	0.1808	mg/L	0.1808	mg/L	10:33:49
2	Pb 220.353†	9.9	174.8	0.0155	mg/L	0.0155	mg/L	10:33:49
2	Sb 206.836†	51.7	40.4	0.0161	mg/L	0.0161	mg/L	10:33:49
2	Se 196.026†	24.7	31.8	0.0372	mg/L	0.0372	mg/L	10:33:49
2	Sn 189.927†	279.9	38.3	0.0089	mg/L	0.0089	mg/L	10:33:49
2	Sr 407.771†	53425.4	46280.8	0.0017	mg/L	0.0017	mg/L	10:33:24
2	Ti 337.279†	13555.0	15503.1	0.0181	mg/L	0.0181	mg/L	10:33:29
2	Tl 190.801†	25.3	22.9	0.0189	mg/L	0.0189	mg/L	10:33:49
2	V 292.402†	3538.6	5086.2	0.0183	mg/L	0.0183	mg/L	10:33:29
2	Zn 213.857†	2127.3	1470.4	0.0176	mg/L	0.0176	mg/L	10:33:49

Mean Data: CRI2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3677320.6	1.01	mg/L	0.006				0.59%
Ag 328.068†	2902.1	0.0090	mg/L	0.00025	0.0090	mg/L	0.00025	2.82%
QC value within limits for Ag 328.068 Recovery = 89.63%								
Al 237.313†	867.1	0.0907	mg/L	0.00408	0.0907	mg/L	0.00408	4.50%

QC value within limits for Al 237.313 Recovery = 90.75%

As 188.979†	13.8	0.0178 mg/L	0.00643	0.0178 mg/L	0.00643	36.04%

QC value within limits for As 188.979 Recovery = 89.14%

B 182.528†	11.4	0.0269 mg/L	0.00092	0.0269 mg/L	0.00092	3.43%

QC value greater than the upper limit for B 182.528 Recovery = 134.51%

Ba 233.527†	2408.7	0.0174 mg/L	0.00020	0.0174 mg/L	0.00020	1.17%

QC value within limits for Ba 233.527 Recovery = 86.79%

Be 313.107†	9677.2	0.0018 mg/L	0.00002	0.0018 mg/L	0.00002	1.09%

QC value within limits for Be 313.107 Recovery = 90.86%

Ca 315.886†	28744.0	0.1866 mg/L	0.00188	0.1866 mg/L	0.00188	1.01%

QC value within limits for Ca 315.886 Recovery = 93.29%

Cd 228.802†	391.4	0.0089 mg/L	0.00014	0.0089 mg/L	0.00014	1.61%

QC value within limits for Cd 228.802 Recovery = 89.38%

Co 228.616†	758.6	0.0180 mg/L	0.00015	0.0180 mg/L	0.00015	0.82%

QC value within limits for Co 228.616 Recovery = 89.80%

Cr 267.716†	2962.9	0.0166 mg/L	0.00009	0.0166 mg/L	0.00009	0.56%

QC value within limits for Cr 267.716 Recovery = 82.81%

Cu 324.752†	5373.3	0.0172 mg/L	0.00028	0.0172 mg/L	0.00028	1.64%

QC value within limits for Cu 324.752 Recovery = 86.11%

Fe 234.349†	5145.7	0.0874 mg/L	0.00129	0.0874 mg/L	0.00129	1.48%

QC value within limits for Fe 234.349 Recovery = 87.36%

Fe 238.204†	11773.6	0.0841 mg/L	0.00052	0.0841 mg/L	0.00052	0.62%

QC value within limits for Fe 238.204 Recovery = 84.10%

K 766.490†	1592.4	0.9710 mg/L	0.05489	0.9710 mg/L	0.05489	5.65%

QC value within limits for K 766.490 Recovery = 97.10%

Li 670.784†	672.8	0.0163 mg/L	0.00116	0.0163 mg/L	0.00116	7.13%

QC value within limits for Li 670.784 Recovery = 81.54%

Mg 279.077†	5132.5	0.1660 mg/L	0.00124	0.1660 mg/L	0.00124	0.74%

QC value within limits for Mg 279.077 Recovery = 83.00%

Mn 257.610†	17190.0	0.0158 mg/L	0.00013	0.0158 mg/L	0.00013	0.83%

QC value within limits for Mn 257.610 Recovery = 79.24%

Mo 202.031†	295.6	0.0177 mg/L	0.00006	0.0177 mg/L	0.00006	0.34%

QC value within limits for Mo 202.031 Recovery = 88.32%

Na 589.592	6332.4	0.6825 mg/L	0.00205	0.6825 mg/L	0.00205	0.30%

QC value less than the lower limit for Na 589.592 Recovery = 68.25%

Ni 231.604†	626.6	0.0175 mg/L	0.00031	0.0175 mg/L	0.00031	1.78%

QC value within limits for Ni 231.604 Recovery = 87.41%

P 214.914†	261.3	0.1861 mg/L	0.00755	0.1861 mg/L	0.00755	4.06%

QC value within limits for P 214.914 Recovery = 93.04%

Pb 220.353†	176.7	0.0157 mg/L	0.00030	0.0157 mg/L	0.00030	1.92%

QC value within limits for Pb 220.353 Recovery = 78.53%

Sb 206.836†	43.1	0.0174 mg/L	0.00191	0.0174 mg/L	0.00191	10.95%

QC value within limits for Sb 206.836 Recovery = 87.09%

Se 196.026†	30.7	0.0358 mg/L	0.00202	0.0358 mg/L	0.00202	5.66%

QC value within limits for Se 196.026 Recovery = 89.44%

Sn 189.927†	41.5	0.0097 mg/L	0.00124	0.0097 mg/L	0.00124	12.75%

QC value less than the lower limit for Sn 189.927 Recovery = 48.68%

Sr 407.771†	46320.8	0.0017 mg/L	0.00000	0.0017 mg/L	0.00000	0.15%

QC value within limits for Sr 407.771 Recovery = 85.34%

Ti 337.279†	15475.5	0.0181 mg/L	0.00005	0.0181 mg/L	0.00005	0.27%

QC value within limits for Ti 337.279 Recovery = 90.43%

Tl 190.801†	24.5	0.0201 mg/L	0.00170	0.0201 mg/L	0.00170	8.47%

QC value within limits for Tl 190.801 Recovery = 100.48%

V 292.402†	5077.3	0.0182 mg/L	0.00005	0.0182 mg/L	0.00005	0.27%

QC value within limits for V 292.402 Recovery = 91.10%

Zn 213.857†	1482.2	0.0177 mg/L	0.00022	0.0177 mg/L	0.00022	1.25%

QC value within limits for Zn 213.857 Recovery = 88.73%

QC Failed. Continue with analysis.

Sequence No.: 10
Sample ID: CRI3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 6/30/2006 10:35:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRI3

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1526.8	794.0	0.4604	mg/L	0.4604	mg/L	10:37:07
1	Li 670.784†	464.7	315.4	0.0051	mg/L	0.0051	mg/L	10:37:07

1	Na 589.592	8149.9	2032.9	0.1338 mg/L	0.1338 mg/L	10:37:07
1	Y 371.029	3648761.6	3648761.6	0.998 mg/L		10:37:21
1	Ag 328.068†	-1182.0	1448.8	0.0040 mg/L	0.0040 mg/L	10:37:26
1	Al 237.313†	451.7	482.2	0.0481 mg/L	0.0481 mg/L	10:37:46
1	As 188.979†	13.8	7.9	0.0096 mg/L	0.0096 mg/L	10:37:46
1	B 182.528†	1.7	6.3	0.0150 mg/L	0.0150 mg/L	10:37:46
1	Ba 233.527†	1050.5	1201.9	0.0074 mg/L	0.0074 mg/L	10:37:46
1	Be 313.107†	7362.4	4806.7	0.0008 mg/L	0.0008 mg/L	10:37:26
1	Ca 315.886†	16139.1	14676.4	0.0896 mg/L	0.0896 mg/L	10:37:26
1	Cd 228.802†	320.6	199.4	0.0041 mg/L	0.0041 mg/L	10:37:46
1	Co 228.616†	213.4	396.6	0.0083 mg/L	0.0083 mg/L	10:37:46
1	Cr 267.716†	2653.3	1475.9	0.0071 mg/L	0.0071 mg/L	10:37:26
1	Cu 324.752†	5090.6	2707.1	0.0075 mg/L	0.0075 mg/L	10:37:26
1	Fe 234.349†	4076.3	2515.6	0.0367 mg/L	0.0367 mg/L	10:37:26
1	Fe 238.204†	7942.6	5870.7	0.0344 mg/L	0.0344 mg/L	10:37:26
1	Mg 279.077†	3124.8	2615.8	0.0677 mg/L	0.0677 mg/L	10:37:26
1	Mn 257.610†	11979.5	8241.4	0.0059 mg/L	0.0059 mg/L	10:37:26
1	Mo 202.031†	175.2	141.6	0.0073 mg/L	0.0073 mg/L	10:37:46
1	Ni 231.604†	344.7	309.7	0.0073 mg/L	0.0073 mg/L	10:37:46
1	P 214.914†	197.5	151.2	0.1075 mg/L	0.1075 mg/L	10:37:46
1	Pb 220.353†	-59.2	105.7	0.0077 mg/L	0.0077 mg/L	10:37:46
1	Sb 206.836†	23.3	12.6	0.0026 mg/L	0.0026 mg/L	10:37:46
1	Se 196.026†	4.0	11.4	0.0111 mg/L	0.0111 mg/L	10:37:46
1	Sn 189.927†	234.2	-4.2	-0.0027 mg/L	-0.0027 mg/L	10:37:46
1	Sr 407.771†	29946.2	23402.2	0.0007 mg/L	0.0007 mg/L	10:37:21
1	Ti 337.279†	5744.6	7842.3	0.0085 mg/L	0.0085 mg/L	10:37:26
1	Tl 190.801†	10.5	8.4	0.0075 mg/L	0.0075 mg/L	10:37:46
1	V 292.402†	994.1	2580.1	0.0085 mg/L	0.0085 mg/L	10:37:26
1	Zn 213.857†	1401.3	768.6	0.0084 mg/L	0.0084 mg/L	10:37:46
2	K 766.490†	1549.1	824.4	0.4799 mg/L	0.4799 mg/L	10:37:13
2	Li 670.784†	429.1	282.0	0.0041 mg/L	0.0041 mg/L	10:37:13
2	Na 589.592	8159.1	2042.1	0.1350 mg/L	0.1350 mg/L	10:37:13
2	Y 371.029	3629893.2	3629893.2	0.993 mg/L		10:37:52
2	Ag 328.068†	-1122.3	1502.8	0.0042 mg/L	0.0042 mg/L	10:37:57
2	Al 237.313†	448.3	481.0	0.0480 mg/L	0.0480 mg/L	10:38:18
2	As 188.979†	8.0	2.1	0.0017 mg/L	0.0017 mg/L	10:38:18
2	B 182.528†	0.6	5.2	0.0125 mg/L	0.0125 mg/L	10:38:18
2	Ba 233.527†	1044.6	1201.4	0.0074 mg/L	0.0074 mg/L	10:38:18
2	Be 313.107†	7364.4	4847.0	0.0009 mg/L	0.0009 mg/L	10:37:57
2	Ca 315.886†	16110.4	14731.4	0.0900 mg/L	0.0900 mg/L	10:37:57
2	Cd 228.802†	325.3	205.8	0.0043 mg/L	0.0043 mg/L	10:38:18
2	Co 228.616†	192.6	376.8	0.0078 mg/L	0.0078 mg/L	10:38:18
2	Cr 267.716†	2716.8	1553.6	0.0076 mg/L	0.0076 mg/L	10:37:57
2	Cu 324.752†	5084.6	2727.5	0.0075 mg/L	0.0075 mg/L	10:37:57
2	Fe 234.349†	4115.9	2576.7	0.0379 mg/L	0.0379 mg/L	10:37:57
2	Fe 238.204†	7853.4	5822.3	0.0340 mg/L	0.0340 mg/L	10:37:57
2	Mg 279.077†	3076.9	2583.7	0.0664 mg/L	0.0664 mg/L	10:37:57
2	Mn 257.610†	11888.0	8211.7	0.0059 mg/L	0.0059 mg/L	10:37:57
2	Mo 202.031†	191.9	159.2	0.0085 mg/L	0.0085 mg/L	10:38:18
2	Ni 231.604†	358.1	324.9	0.0078 mg/L	0.0078 mg/L	10:38:18
2	P 214.914†	166.5	121.0	0.0860 mg/L	0.0860 mg/L	10:38:18
2	Pb 220.353†	-72.8	91.7	0.0061 mg/L	0.0061 mg/L	10:38:18
2	Sb 206.836†	33.5	22.9	0.0077 mg/L	0.0077 mg/L	10:38:18
2	Se 196.026†	9.1	16.6	0.0177 mg/L	0.0177 mg/L	10:38:18
2	Sn 189.927†	239.6	2.5	-0.0009 mg/L	-0.0009 mg/L	10:38:18
2	Sr 407.771†	29953.5	23565.4	0.0007 mg/L	0.0007 mg/L	10:37:52
2	Ti 337.279†	5773.9	7901.7	0.0086 mg/L	0.0086 mg/L	10:37:57
2	Tl 190.801†	12.9	10.8	0.0094 mg/L	0.0094 mg/L	10:38:18
2	V 292.402†	907.5	2498.0	0.0082 mg/L	0.0082 mg/L	10:37:57
2	Zn 213.857†	1398.6	773.3	0.0085 mg/L	0.0085 mg/L	10:38:18

Mean Data: CRI3

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3639327.4	0.996	mg/L	0.0037				0.37%
Ag 328.068†	1475.8	0.0041	mg/L	0.00013	0.0041	mg/L	0.00013	3.24%
QC value within limits for Ag 328.068 Recovery = 81.19%								
Al 237.313†	481.6	0.0481	mg/L	0.00009	0.0481	mg/L	0.00009	0.19%
QC value within limits for Al 237.313 Recovery = 96.11%								
As 188.979†	5.0	0.0057	mg/L	0.00563	0.0057	mg/L	0.00563	99.64%
QC value less than the lower limit for As 188.979 Recovery = 56.55%								

B 182.528†	5.8	0.0137 mg/L	0.00177	0.0137 mg/L	0.00177	12.90%
QC value greater than the upper limit for B 182.528 Recovery = 137.27%						
Ba 233.527†	1201.6	0.0074 mg/L	0.00000	0.0074 mg/L	0.00000	0.03%
QC value within limits for Ba 233.527 Recovery = 73.87%						
Be 313.107†	4826.9	0.0008 mg/L	0.00001	0.0008 mg/L	0.00001	0.69%
QC value within limits for Be 313.107 Recovery = 84.68%						
Ca 315.886†	14703.9	0.0898 mg/L	0.00027	0.0898 mg/L	0.00027	0.30%
QC value within limits for Ca 315.886 Recovery = 89.79%						
Cd 228.802†	202.6	0.0042 mg/L	0.00014	0.0042 mg/L	0.00014	3.43%
QC value within limits for Cd 228.802 Recovery = 84.14%						
Co 228.616†	386.7	0.0081 mg/L	0.00037	0.0081 mg/L	0.00037	4.64%
QC value within limits for Co 228.616 Recovery = 80.71%						
Cr 267.716†	1514.8	0.0073 mg/L	0.00035	0.0073 mg/L	0.00035	4.78%
QC value within limits for Cr 267.716 Recovery = 73.33%						
Cu 324.752†	2717.3	0.0075 mg/L	0.00005	0.0075 mg/L	0.00005	0.70%
QC value within limits for Cu 324.752 Recovery = 75.04%						
Fe 234.349†	2546.2	0.0373 mg/L	0.00083	0.0373 mg/L	0.00083	2.22%
QC value within limits for Fe 234.349 Recovery = 74.63%						
Fe 238.204†	5846.5	0.0342 mg/L	0.00029	0.0342 mg/L	0.00029	0.84%
QC value less than the lower limit for Fe 238.204 Recovery = 68.35%						
K 766.490†	809.2	0.4702 mg/L	0.01375	0.4702 mg/L	0.01375	2.92%
QC value within limits for K 766.490 Recovery = 94.03%						
Li 670.784†	298.7	0.0046 mg/L	0.00074	0.0046 mg/L	0.00074	15.94%
QC value less than the lower limit for Li 670.784 Recovery = 46.21%						
Mg 279.077†	2599.8	0.0671 mg/L	0.00089	0.0671 mg/L	0.00089	1.32%
QC value less than the lower limit for Mg 279.077 Recovery = 67.06%						
Mn 257.610†	8226.6	0.0059 mg/L	0.00002	0.0059 mg/L	0.00002	0.39%
QC value less than the lower limit for Mn 257.610 Recovery = 59.15%						
Mo 202.031†	150.4	0.0079 mg/L	0.00084	0.0079 mg/L	0.00084	10.58%
QC value within limits for Mo 202.031 Recovery = 79.28%						
Na 589.592	2037.5	0.1344 mg/L	0.00082	0.1344 mg/L	0.00082	0.61%
QC value less than the lower limit for Na 589.592 Recovery = 26.88%						
Ni 231.604†	317.3	0.0076 mg/L	0.00035	0.0076 mg/L	0.00035	4.58%
QC value within limits for Ni 231.604 Recovery = 75.63%						
P 214.914†	136.1	0.0967 mg/L	0.01525	0.0967 mg/L	0.01525	15.76%
QC value within limits for P 214.914 Recovery = 96.74%						
Pb 220.353†	98.7	0.0069 mg/L	0.00111	0.0069 mg/L	0.00111	16.06%
QC value less than the lower limit for Pb 220.353 Recovery = 69.23%						
Sb 206.836†	17.7	0.0051 mg/L	0.00358	0.0051 mg/L	0.00358	69.80%
QC value less than the lower limit for Sb 206.836 Recovery = 51.36%						
Se 196.026†	14.0	0.0144 mg/L	0.00470	0.0144 mg/L	0.00470	32.60%
QC value within limits for Se 196.026 Recovery = 72.11%						
Sn 189.927†	-0.8	-0.0018 mg/L	0.00128	-0.0018 mg/L	0.00128	70.24%
QC value less than the lower limit for Sn 189.927 Recovery = -18.29%						
Sr 407.771†	23483.8	0.0007 mg/L	0.00001	0.0007 mg/L	0.00001	0.73%
QC value less than the lower limit for Sr 407.771 Recovery = 69.64%						
Ti 337.279†	7872.0	0.0085 mg/L	0.00005	0.0085 mg/L	0.00005	0.62%
QC value within limits for Ti 337.279 Recovery = 85.32%						
Tl 190.801†	9.6	0.0085 mg/L	0.00136	0.0085 mg/L	0.00136	16.05%
QC value within limits for Tl 190.801 Recovery = 84.52%						
V 292.402†	2539.0	0.0084 mg/L	0.00021	0.0084 mg/L	0.00021	2.48%
QC value within limits for V 292.402 Recovery = 83.93%						
Zn 213.857†	771.0	0.0084 mg/L	0.00004	0.0084 mg/L	0.00004	0.48%
QC value within limits for Zn 213.857 Recovery = 84.31%						

QC Failed. Continue with analysis.

Sequence No.: 11
Sample ID: ICSA
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 160
Date Collected: 6/30/2006 10:39:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	932.7	282.7	0.1335	mg/L	0.1335	mg/L	10:41:33
1	Li 670.784†	146.2	9.6	-0.0044	mg/L	-0.0044	mg/L	10:41:33
1	Na 589.592	4872.2	-1244.8	-0.2844	mg/L	-0.2844	mg/L	10:41:33
1	Y 371.029	3348646.9	3348646.9	0.916	mg/L			10:41:59
1	Ag 328.068†	-3184.7	-842.8	-0.0002	mg/L	-0.0002	mg/L	10:42:05

1	Al 237.313†	2104488.0	2296661.1	255.0 mg/L	255.0 mg/L	10:41:59
1	As 188.979†	10.1	5.1	0.0058 mg/L	0.0058 mg/L	10:42:25
1	B 182.528†	12.5	18.2	0.0427 mg/L	0.0427 mg/L	10:42:25
1	Ba 233.527†	96.2	254.7	-0.0004 mg/L	-0.0004 mg/L	10:42:25
1	Be 313.107†	111.9	-2444.9	-0.0001 mg/L	-0.0001 mg/L	10:42:05
1	Ca 315.886†	32368161.7	35321942.1	243.4 mg/L	243.4 mg/L	10:41:52
1	Cd 228.802†	68.8	-46.6	-0.0015 mg/L	-0.0015 mg/L	10:42:25
1	Co 228.616†	-121.3	50.5	-0.0009 mg/L	-0.0009 mg/L	10:42:25
1	Cr 267.716†	505.6	-629.7	-0.0008 mg/L	-0.0008 mg/L	10:42:05
1	Cu 324.752†	84.3	-2299.3	0.0057 mg/L	0.0057 mg/L	10:42:05
1	Fe 234.349†	4363413.0	4760233.0	91.84 mg/L	91.84 mg/L	10:41:59
1	Fe 238.204†	9483628.0	10347415.2	87.12 mg/L	87.12 mg/L	10:41:52
1	Mg 279.077†	5600991.8	6111858.0	238.5 mg/L	238.5 mg/L	10:41:59
1	Mn 257.610†	7006.4	3889.6	0.0011 mg/L	0.0011 mg/L	10:42:05
1	Mo 202.031†	226.4	213.2	0.0121 mg/L	0.0121 mg/L	10:42:25
1	Ni 231.604†	59.4	29.2	-0.0017 mg/L	-0.0017 mg/L	10:42:25
1	P 214.914†	-74.8	-128.3	-0.0919 mg/L	-0.0919 mg/L	10:42:25
1	Pb 220.353†	-585.6	-474.0	-0.0109 mg/L	-0.0109 mg/L	10:42:25
1	Sb 206.836†	12.4	2.7	-0.0020 mg/L	-0.0020 mg/L	10:42:25
1	Se 196.026†	17.8	26.8	0.0308 mg/L	0.0308 mg/L	10:42:25
1	Sn 189.927†	27.5	-208.7	-0.0549 mg/L	-0.0549 mg/L	10:42:25
1	Sr 407.771†	24157.5	19772.9	0.0005 mg/L	0.0005 mg/L	10:42:05
1	Ti 337.279†	1942.9	4209.1	0.0039 mg/L	0.0039 mg/L	10:42:05
1	Tl 190.801†	50.3	52.7	0.0420 mg/L	0.0420 mg/L	10:42:25
1	V 292.402†	1525.6	3249.3	-0.0007 mg/L	-0.0007 mg/L	10:42:05
1	Zn 213.857†	2266.4	1838.6	0.0143 mg/L	0.0143 mg/L	10:42:25
2	K 766.490†	993.1	365.1	0.1862 mg/L	0.1862 mg/L	10:41:38
2	Li 670.784†	138.9	3.9	-0.0046 mg/L	-0.0046 mg/L	10:41:38
2	Na 589.592	4994.8	-1122.2	-0.2688 mg/L	-0.2688 mg/L	10:41:38
2	Y 371.029	3298419.9	3298419.9	0.903 mg/L		10:42:43
2	Ag 328.068†	-3100.6	-802.5	-0.0001 mg/L	-0.0001 mg/L	10:42:49
2	Al 237.313†	2069762.2	2293159.8	254.6 mg/L	254.6 mg/L	10:42:43
2	As 188.979†	13.9	9.4	0.0118 mg/L	0.0118 mg/L	10:43:09
2	B 182.528†	16.9	23.3	0.0545 mg/L	0.0545 mg/L	10:43:09
2	Ba 233.527†	93.0	252.8	-0.0005 mg/L	-0.0005 mg/L	10:43:09
2	Be 313.107†	11.7	-2554.1	-0.0001 mg/L	-0.0001 mg/L	10:42:49
2	Ca 315.886†	32266976.9	35747728.3	246.3 mg/L	246.3 mg/L	10:42:36
2	Cd 228.802†	90.9	-20.9	-0.0009 mg/L	-0.0009 mg/L	10:43:09
2	Co 228.616†	-131.2	37.5	-0.0012 mg/L	-0.0012 mg/L	10:43:09
2	Cr 267.716†	506.3	-620.5	-0.0008 mg/L	-0.0008 mg/L	10:42:49
2	Cu 324.752†	80.8	-2301.9	0.0057 mg/L	0.0057 mg/L	10:42:49
2	Fe 234.349†	4295510.1	4757512.8	91.78 mg/L	91.78 mg/L	10:42:43
2	Fe 238.204†	9460659.7	10479566.1	88.23 mg/L	88.23 mg/L	10:42:36
2	Mg 279.077†	5490179.3	6082163.3	237.3 mg/L	237.3 mg/L	10:42:43
2	Mn 257.610†	6941.0	3933.5	0.0012 mg/L	0.0012 mg/L	10:42:49
2	Mo 202.031†	231.7	222.7	0.0128 mg/L	0.0128 mg/L	10:43:09
2	Ni 231.604†	61.6	32.7	-0.0016 mg/L	-0.0016 mg/L	10:43:09
2	P 214.914†	-92.1	-148.6	-0.1064 mg/L	-0.1064 mg/L	10:43:09
2	Pb 220.353†	-582.6	-480.5	-0.0117 mg/L	-0.0117 mg/L	10:43:09
2	Sb 206.836†	-5.5	-16.9	-0.0116 mg/L	-0.0116 mg/L	10:43:09
2	Se 196.026†	15.4	24.5	0.0278 mg/L	0.0278 mg/L	10:43:09
2	Sn 189.927†	14.3	-222.9	-0.0588 mg/L	-0.0588 mg/L	10:43:09
2	Sr 407.771†	23730.0	19700.7	0.0005 mg/L	0.0005 mg/L	10:42:49
2	Ti 337.279†	1983.2	4286.0	0.0040 mg/L	0.0040 mg/L	10:42:49
2	Tl 190.801†	55.4	59.2	0.0471 mg/L	0.0471 mg/L	10:43:09
2	V 292.402†	1665.8	3429.9	0.0000 mg/L	0.0000 mg/L	10:42:49
2	Zn 213.857†	2280.0	1891.2	0.0150 mg/L	0.0150 mg/L	10:43:09

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3323533.4	0.909	mg/L	0.0097				1.07%
Ag 328.068†	-822.7	-0.0002	mg/L	0.00010	-0.0002	mg/L	0.00010	62.96%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	2294910.4	254.8	mg/L	0.28	254.8	mg/L	0.28	0.11%
QC value within limits for Al 237.313 Recovery = 101.94%								
As 188.979†	7.2	0.0088	mg/L	0.00423	0.0088	mg/L	0.00423	48.13%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	20.8	0.0486	mg/L	0.00835	0.0486	mg/L	0.00835	17.16%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	253.8	-0.0004	mg/L	0.00001	-0.0004	mg/L	0.00001	2.52%

QC value within limits for Ba 233.527 Recovery = Not calculated

Be 313.107†	-2499.5	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	20.41%

QC value within limits for Be 313.107 Recovery = Not calculated

Ca 315.886†	35534835.2	244.8 mg/L	2.07	244.8 mg/L	2.07	0.85%

QC value within limits for Ca 315.886 Recovery = 97.93%

Cd 228.802†	-33.7	-0.0012 mg/L	0.00043	-0.0012 mg/L	0.00043	36.92%

QC value within limits for Cd 228.802 Recovery = Not calculated

Co 228.616†	44.0	-0.0010 mg/L	0.00024	-0.0010 mg/L	0.00024	23.32%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716†	-625.1	-0.0008 mg/L	0.00004	-0.0008 mg/L	0.00004	4.82%

QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 324.752†	-2300.6	0.0057 mg/L	0.00001	0.0057 mg/L	0.00001	0.23%

QC value within limits for Cu 324.752 Recovery = Not calculated

Fe 234.349†	4758872.9	91.81 mg/L	0.037	91.81 mg/L	0.037	0.04%

QC value within limits for Fe 234.349 Recovery = 91.81%

Fe 238.204†	10413490.6	87.67 mg/L	0.787	87.67 mg/L	0.787	0.90%

QC value within limits for Fe 238.204 Recovery = 87.67%

K 766.490†	323.9	0.1598 mg/L	0.03727	0.1598 mg/L	0.03727	23.31%

QC value within limits for K 766.490 Recovery = Not calculated

Li 670.784†	6.7	-0.0045 mg/L	0.00012	-0.0045 mg/L	0.00012	2.78%

QC value within limits for Li 670.784 Recovery = Not calculated

Mg 279.077†	6097010.7	237.9 mg/L	0.82	237.9 mg/L	0.82	0.34%

QC value within limits for Mg 279.077 Recovery = 95.17%

Mn 257.610†	3911.6	0.0011 mg/L	0.00003	0.0011 mg/L	0.00003	3.04%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031†	218.0	0.0125 mg/L	0.00045	0.0125 mg/L	0.00045	3.64%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592	-1183.5	-0.2766 mg/L	0.01106	-0.2766 mg/L	0.01106	4.00%

QC value within limits for Na 589.592 Recovery = Not calculated

Ni 231.604†	31.0	-0.0016 mg/L	0.00008	-0.0016 mg/L	0.00008	4.85%

QC value within limits for Ni 231.604 Recovery = Not calculated

P 214.914†	-138.4	-0.0991 mg/L	0.01028	-0.0991 mg/L	0.01028	10.37%

QC value within limits for P 214.914 Recovery = Not calculated

Pb 220.353†	-477.2	-0.0113 mg/L	0.00056	-0.0113 mg/L	0.00056	4.95%

QC value less than the lower limit for Pb 220.353 Recovery = Not calculated

Sb 206.836†	-7.1	-0.0068 mg/L	0.00680	-0.0068 mg/L	0.00680	100.20%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026†	25.6	0.0293 mg/L	0.00206	0.0293 mg/L	0.00206	7.03%

QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.927†	-215.8	-0.0568 mg/L	0.00273	-0.0568 mg/L	0.00273	4.81%

QC value less than the lower limit for Sn 189.927 Recovery = Not calculated

Sr 407.771†	19736.8	0.0005 mg/L	0.00000	0.0005 mg/L	0.00000	0.43%

QC value within limits for Sr 407.771 Recovery = Not calculated

Ti 337.279†	4247.6	0.0040 mg/L	0.00007	0.0040 mg/L	0.00007	1.72%

QC value within limits for Ti 337.279 Recovery = Not calculated

Tl 190.801†	56.0	0.0446 mg/L	0.00360	0.0446 mg/L	0.00360	8.08%

QC value within limits for Tl 190.801 Recovery = Not calculated

V 292.402†	3339.6	-0.0004 mg/L	0.00050	-0.0004 mg/L	0.00050	128.71%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857†	1864.9	0.0146 mg/L	0.00049	0.0146 mg/L	0.00049	3.38%

QC value within limits for Zn 213.857 Recovery = Not calculated

QC Failed. Continue with analysis.

Sequence No.: 12
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 159
Date Collected: 6/30/2006 10:44:48 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	907.3	266.0	0.1228	mg/L	0.1228	mg/L	10:46:22
1	Li 670.784†	149.7	15.2	-0.0042	mg/L	-0.0042	mg/L	10:46:22
1	Na 589.592	4896.7	-1220.2	-0.2813	mg/L	-0.2813	mg/L	10:46:22
1	Y 371.029	3311781.7	3311781.7	0.906	mg/L			10:46:50
1	Ag 328.068†	131799.4	148066.7	0.5108	mg/L	0.5108	mg/L	10:46:55
1	Al 237.313†	2081132.6	2296454.5	255.0	mg/L	255.0	mg/L	10:46:50
1	As 188.979†	12.1	7.3	0.0086	mg/L	0.0086	mg/L	10:47:15
1	B 182.528†	13.8	19.8	0.0463	mg/L	0.0463	mg/L	10:47:15

1	Ba 233.527†	26081.9	28929.8	0.2363 mg/L	0.2363 mg/L	10:46:55
1	Be 313.107†	1103750.3	1215365.8	0.2452 mg/L	0.2452 mg/L	10:46:50
1	Ca 315.886†	32144370.8	35468204.2	244.4 mg/L	244.4 mg/L	10:46:42
1	Cd 228.802†	16447.9	18027.7	0.4544 mg/L	0.4544 mg/L	10:46:55
1	Co 228.616†	7095.9	8012.9	0.2112 mg/L	0.2112 mg/L	10:47:15
1	Cr 267.716†	33807.3	36123.1	0.2334 mg/L	0.2334 mg/L	10:46:55
1	Cu 324.752†	58544.6	62209.6	0.2414 mg/L	0.2414 mg/L	10:46:55
1	Fe 234.349†	4322716.4	4768332.5	91.99 mg/L	91.99 mg/L	10:46:50
1	Fe 238.204†	9430566.3	10404070.1	87.59 mg/L	87.59 mg/L	10:46:42
1	Mg 279.077†	5526190.4	6097358.5	237.9 mg/L	237.9 mg/L	10:46:50
1	Mn 257.610†	198102.6	214839.7	0.2349 mg/L	0.2349 mg/L	10:46:55
1	Mo 202.031†	225.7	215.2	0.0123 mg/L	0.0123 mg/L	10:47:15
1	Ni 231.604†	12331.0	13571.1	0.4322 mg/L	0.4322 mg/L	10:46:55
1	P 214.914†	-26.9	-76.3	-0.0548 mg/L	-0.0548 mg/L	10:47:15
1	Pb 220.353†	3059.4	3540.9	0.4401 mg/L	0.4401 mg/L	10:47:15
1	Sb 206.836†	18.3	9.4	-0.0025 mg/L	-0.0025 mg/L	10:47:15
1	Se 196.026†	9.5	17.9	0.0194 mg/L	0.0194 mg/L	10:47:15
1	Sn 189.927†	36.4	-198.6	-0.0521 mg/L	-0.0521 mg/L	10:47:15
1	Sr 407.771†	23327.7	19150.7	0.0005 mg/L	0.0005 mg/L	10:46:55
1	Ti 337.279†	2086.8	4391.5	0.0042 mg/L	0.0042 mg/L	10:46:55
1	Tl 190.801†	67.3	72.1	0.0589 mg/L	0.0589 mg/L	10:47:15
1	V 292.402†	58034.4	65622.5	0.2372 mg/L	0.2372 mg/L	10:46:55
1	Zn 213.857†	34565.8	37506.9	0.4813 mg/L	0.4813 mg/L	10:46:55
2	K 766.490†	920.3	278.7	0.1309 mg/L	0.1309 mg/L	10:46:28
2	Li 670.784†	111.6	-27.0	-0.0056 mg/L	-0.0056 mg/L	10:46:28
2	Na 589.592	4860.9	-1256.1	-0.2859 mg/L	-0.2859 mg/L	10:46:28
2	Y 371.029	3317371.4	3317371.4	0.908 mg/L		10:47:34
2	Ag 328.068†	130698.3	146608.6	0.5058 mg/L	0.5058 mg/L	10:47:40
2	Al 237.313†	2082769.8	2294388.6	254.8 mg/L	254.8 mg/L	10:47:34
2	As 188.979†	11.2	6.3	0.0072 mg/L	0.0072 mg/L	10:48:00
2	B 182.528†	12.6	18.5	0.0432 mg/L	0.0432 mg/L	10:48:00
2	Ba 233.527†	25669.5	28427.1	0.2322 mg/L	0.2322 mg/L	10:47:40
2	Be 313.107†	1103214.5	1212723.3	0.2447 mg/L	0.2447 mg/L	10:47:34
2	Ca 315.886†	32303523.9	35583759.4	245.2 mg/L	245.2 mg/L	10:47:27
2	Cd 228.802†	16214.9	17740.5	0.4472 mg/L	0.4472 mg/L	10:47:40
2	Co 228.616†	7104.8	8009.5	0.2111 mg/L	0.2111 mg/L	10:48:00
2	Cr 267.716†	33474.7	35693.9	0.2306 mg/L	0.2306 mg/L	10:47:40
2	Cu 324.752†	58314.5	61847.3	0.2400 mg/L	0.2400 mg/L	10:47:40
2	Fe 234.349†	4317076.8	4754082.8	91.71 mg/L	91.71 mg/L	10:47:34
2	Fe 238.204†	9460913.6	10419966.0	87.73 mg/L	87.73 mg/L	10:47:27
2	Mg 279.077†	5536135.9	6098039.4	238.0 mg/L	238.0 mg/L	10:47:34
2	Mn 257.610†	195981.4	212134.7	0.2319 mg/L	0.2319 mg/L	10:47:40
2	Mo 202.031†	239.8	230.2	0.0133 mg/L	0.0133 mg/L	10:48:00
2	Ni 231.604†	12210.8	13415.8	0.4272 mg/L	0.4272 mg/L	10:47:40
2	P 214.914†	-38.4	-88.9	-0.0638 mg/L	-0.0638 mg/L	10:48:00
2	Pb 220.353†	3070.6	3547.6	0.4408 mg/L	0.4408 mg/L	10:48:00
2	Sb 206.836†	1.7	-9.0	-0.0114 mg/L	-0.0114 mg/L	10:48:00
2	Se 196.026†	19.2	28.5	0.0330 mg/L	0.0330 mg/L	10:48:00
2	Sn 189.927†	11.0	-226.6	-0.0598 mg/L	-0.0598 mg/L	10:48:00
2	Sr 407.771†	23033.5	18783.2	0.0005 mg/L	0.0005 mg/L	10:47:40
2	Ti 337.279†	1984.0	4274.3	0.0040 mg/L	0.0040 mg/L	10:47:40
2	Tl 190.801†	59.4	63.3	0.0520 mg/L	0.0520 mg/L	10:48:00
2	V 292.402†	57251.0	64651.5	0.2335 mg/L	0.2335 mg/L	10:47:40
2	Zn 213.857†	34027.3	36849.3	0.4727 mg/L	0.4727 mg/L	10:47:40

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3314576.6	0.907	mg/L	0.0011				0.12%
Ag 328.068†	147337.6	0.5083	mg/L	0.00355	0.5083	mg/L	0.00355	0.70%
QC value within limits for Ag 328.068 Recovery = 101.66%								
Al 237.313†	2295421.6	254.9	mg/L	0.16	254.9	mg/L	0.16	0.06%
QC value within limits for Al 237.313 Recovery = 101.96%								
As 188.979†	6.8	0.0079	mg/L	0.00095	0.0079	mg/L	0.00095	12.09%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	19.1	0.0448	mg/L	0.00218	0.0448	mg/L	0.00218	4.88%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	28678.5	0.2343	mg/L	0.00294	0.2343	mg/L	0.00294	1.25%
QC value within limits for Ba 233.527 Recovery = 93.70%								
Be 313.107†	1214044.5	0.2449	mg/L	0.00038	0.2449	mg/L	0.00038	0.15%
QC value within limits for Be 313.107 Recovery = 97.97%								

Ca 315.886†	35525981.8	244.8 mg/L	0.56	244.8 mg/L	0.56	0.23%
QC value within limits for Ca 315.886 Recovery = 97.91%						
Cd 228.802†	17884.1	0.4508 mg/L	0.00511	0.4508 mg/L	0.00511	1.13%
QC value within limits for Cd 228.802 Recovery = 90.16%						
Co 228.616†	8011.2	0.2112 mg/L	0.00006	0.2112 mg/L	0.00006	0.03%
QC value within limits for Co 228.616 Recovery = 84.47%						
Cr 267.716†	35908.5	0.2320 mg/L	0.00195	0.2320 mg/L	0.00195	0.84%
QC value within limits for Cr 267.716 Recovery = 92.80%						
Cu 324.752†	62028.5	0.2407 mg/L	0.00097	0.2407 mg/L	0.00097	0.40%
QC value within limits for Cu 324.752 Recovery = 96.29%						
Fe 234.349†	4761207.6	91.85 mg/L	0.194	91.85 mg/L	0.194	0.21%
QC value within limits for Fe 234.349 Recovery = 91.85%						
Fe 238.204†	10412018.0	87.66 mg/L	0.095	87.66 mg/L	0.095	0.11%
QC value within limits for Fe 238.204 Recovery = 87.66%						
K 766.490†	272.3	0.1269 mg/L	0.00572	0.1269 mg/L	0.00572	4.51%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 670.784†	-5.9	-0.0049 mg/L	0.00093	-0.0049 mg/L	0.00093	19.03%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	6097699.0	238.0 mg/L	0.02	238.0 mg/L	0.02	0.01%
QC value within limits for Mg 279.077 Recovery = 95.18%						
Mn 257.610†	213487.2	0.2334 mg/L	0.00212	0.2334 mg/L	0.00212	0.91%
QC value within limits for Mn 257.610 Recovery = 93.36%						
Mo 202.031†	222.7	0.0128 mg/L	0.00071	0.0128 mg/L	0.00071	5.58%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	-1238.2	-0.2836 mg/L	0.00324	-0.2836 mg/L	0.00324	1.14%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	13493.4	0.4297 mg/L	0.00352	0.4297 mg/L	0.00352	0.82%
QC value within limits for Ni 231.604 Recovery = 85.94%						
P 214.914†	-82.6	-0.0593 mg/L	0.00636	-0.0593 mg/L	0.00636	10.72%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	3544.2	0.4404 mg/L	0.00051	0.4404 mg/L	0.00051	0.12%
QC value within limits for Pb 220.353 Recovery = 88.08%						
Sb 206.836†	0.2	-0.0069 mg/L	0.00633	-0.0069 mg/L	0.00633	91.24%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	23.2	0.0262 mg/L	0.00957	0.0262 mg/L	0.00957	36.53%
QC value greater than the upper limit for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-212.6	-0.0560 mg/L	0.00542	-0.0560 mg/L	0.00542	9.69%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	18967.0	0.0005 mg/L	0.00001	0.0005 mg/L	0.00001	2.31%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	4332.9	0.0041 mg/L	0.00010	0.0041 mg/L	0.00010	2.55%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	67.7	0.0554 mg/L	0.00486	0.0554 mg/L	0.00486	8.78%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated						
V 292.402†	65137.0	0.2353 mg/L	0.00258	0.2353 mg/L	0.00258	1.10%
QC value within limits for V 292.402 Recovery = 94.13%						
Zn 213.857†	37178.1	0.4770 mg/L	0.00608	0.4770 mg/L	0.00608	1.28%
QC value within limits for Zn 213.857 Recovery = 95.40%						

QC Failed. Continue with analysis.

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Sequence No.: 13
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/30/2006 10:49:39 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	38300.2	38421.6	24.52	mg/L	24.52	mg/L	10:51:14
1	Li 670.784†	16120.2	16330.7	0.5055	mg/L	0.5055	mg/L	10:51:14
1	Na 589.592	199246.6	193129.6	24.52	mg/L	24.52	mg/L	10:51:14
1	Y 371.029	3574448.0	3574448.0	0.978	mg/L			10:51:29
1	Ag 328.068†	68501.7	72666.3	0.2488	mg/L	0.2488	mg/L	10:51:34
1	Al 237.313†	21828.7	22346.6	2.471	mg/L	2.471	mg/L	10:51:34
1	As 188.979†	350.6	352.4	0.4823	mg/L	0.4823	mg/L	10:51:54
1	B 182.528†	199.8	208.9	0.4856	mg/L	0.4856	mg/L	10:51:54
1	Ba 233.527†	58913.9	60381.2	0.4963	mg/L	0.4963	mg/L	10:51:34
1	Be 313.107†	244704.0	247609.4	0.0494	mg/L	0.0494	mg/L	10:51:34
1	Ca 315.886†	709697.8	724081.3	4.980	mg/L	4.980	mg/L	10:51:29

Mg 279.077†	255277.9	9.936 mg/L	0.0096	9.936 mg/L	0.0096	0.10%
Mn 257.610†	632459.0	0.6977 mg/L	0.00031	0.6977 mg/L	0.00031	0.04%
Mo 202.031†	7964.3	0.5318 mg/L	0.00189	0.5318 mg/L	0.00189	0.36%
Na 589.592	1235762.8	157.6 mg/L	1.80	157.6 mg/L	1.80	1.14%
Ni 231.604†	15660.6	0.4996 mg/L	0.00119	0.4996 mg/L	0.00119	0.24%
P 214.914†	29649.4	21.15 mg/L	0.042	21.15 mg/L	0.042	0.20%
Pb 220.353†	4691.5	0.5243 mg/L	0.00130	0.5243 mg/L	0.00130	0.25%
Sb 206.836†	1104.5	0.5248 mg/L	0.00064	0.5248 mg/L	0.00064	0.12%
Se 196.026†	782.0	0.9938 mg/L	0.00539	0.9938 mg/L	0.00539	0.54%
Sn 189.927†	1975.8	0.5382 mg/L	0.00076	0.5382 mg/L	0.00076	0.14%
Sr 407.771†	2965602.4	0.1309 mg/L	0.00001	0.1309 mg/L	0.00001	0.00%
Ti 337.279†	336763.2	0.4218 mg/L	0.00052	0.4218 mg/L	0.00052	0.12%
Tl 190.801†	644.8	0.5095 mg/L	0.00099	0.5095 mg/L	0.00099	0.20%
V 292.402†	138266.9	0.5338 mg/L	0.00006	0.5338 mg/L	0.00006	0.01%
Zn 213.857†	50622.5	0.6622 mg/L	0.00191	0.6622 mg/L	0.00191	0.29%

Matrix Recovery Check: BF62920-MS2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	34.48	34.83	0.111	mg/L	101.4
Li 670.784	0.5146	0.5682	0.000	mg/L	110.7
Na 589.592	172.5	157.6	1.803	mg/L	40.1
Ag 328.068	0.2478	0.2714	0.000	mg/L	109.5
Al 237.313	2.826	2.948	0.008	mg/L	104.9
As 188.979	0.5019	0.4668	0.007	mg/L	93.0
B 182.528	2.225	2.180	0.001	mg/L	91.1
Ba 233.527	0.5169	0.5395	0.001	mg/L	104.5
Be 313.107	0.0500	0.0546	0.000	mg/L	109.3
Ca 315.886	16.35	16.38	0.007	mg/L	100.6
Cd 228.802	0.2496	0.2671	0.001	mg/L	107.0
Co 228.616	0.5111	0.5343	0.002	mg/L	104.6
Cr 267.716	0.6645	0.6874	0.001	mg/L	104.6
Cu 324.752	0.6144	0.6529	0.000	mg/L	107.7
Fe 234.349	3.407	3.544	0.010	mg/L	105.5
Fe 238.204	3.404	3.568	0.012	mg/L	106.6
Mg 279.077	9.986	9.936	0.010	mg/L	99.0
Mn 257.610	0.6691	0.6977	0.000	mg/L	105.7
Mo 202.031	0.5036	0.5318	0.002	mg/L	105.7
Ni 231.604	0.5084	0.4996	0.001	mg/L	98.2
P 214.914	21.50	21.15	0.042	mg/L	93.0
Pb 220.353	0.4990	0.5243	0.001	mg/L	105.1
Sb 206.836	0.5181	0.5248	0.001	mg/L	101.3
Se 196.026	0.9897	0.9938	0.005	mg/L	100.4
Sn 189.927	0.4798	0.5382	0.001	mg/L	111.7
Sr 407.771	0.1293	0.1309	0.000	mg/L	103.0
Ti 337.279	0.5034	0.4218	0.001	mg/L	83.7
Tl 190.801	0.5040	0.5095	0.001	mg/L	101.1
V 292.402	0.5064	0.5338	0.000	mg/L	105.5
Zn 213.857	0.6253	0.6622	0.002	mg/L	107.4

Sequence No.: 45
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/30/2006 1:35:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	35587.0	35914.9	22.92	mg/L	22.92	mg/L	13:36:34
1	Li 670.784†	15278.0	15584.4	0.4822	mg/L	0.4822	mg/L	13:36:34
1	Na 589.592	200288.1	194171.1	24.65	mg/L	24.65	mg/L	13:36:34
1	Y 371.029	3548390.7	3548390.7	0.971	mg/L			13:36:49
1	Ag 328.068†	67501.8	72150.8	0.2470	mg/L	0.2470	mg/L	13:36:54
1	Al 237.313†	21291.5	21957.3	2.428	mg/L	2.428	mg/L	13:36:54
1	As 188.979†	313.7	317.1	0.4337	mg/L	0.4337	mg/L	13:37:14
1	B 182.528†	197.1	207.6	0.4826	mg/L	0.4826	mg/L	13:37:14
1	Ba 233.527†	57827.6	59704.7	0.4907	mg/L	0.4907	mg/L	13:36:54
1	Be 313.107†	240562.2	245181.0	0.0489	mg/L	0.0489	mg/L	13:36:54

1	Ca 315.886†	689300.7	708403.1	4.872 mg/L	4.872 mg/L	13:36:49
1	Cd 228.802†	9526.8	9689.7	0.2430 mg/L	0.2430 mg/L	13:37:14
1	Co 228.616†	17754.4	18467.6	0.4888 mg/L	0.4888 mg/L	13:36:54
1	Cr 267.716†	75175.9	76240.0	0.4835 mg/L	0.4835 mg/L	13:36:54
1	Cu 324.752†	131803.0	133348.7	0.4855 mg/L	0.4855 mg/L	13:36:54
1	Fe 234.349†	125178.8	127351.0	2.440 mg/L	2.440 mg/L	13:36:54
1	Fe 238.204†	287067.0	293557.8	2.457 mg/L	2.457 mg/L	13:36:54
1	Mg 279.077†	122733.1	125885.4	4.883 mg/L	4.883 mg/L	13:36:54
1	Mn 257.610†	437299.7	446605.7	0.4917 mg/L	0.4917 mg/L	13:36:49
1	Mo 202.031†	7187.9	7368.7	0.4919 mg/L	0.4919 mg/L	13:37:14
1	Ni 231.604†	14017.8	14401.0	0.4592 mg/L	0.4592 mg/L	13:36:54
1	P 214.914†	6628.0	6779.3	4.837 mg/L	4.837 mg/L	13:37:14
1	Pb 220.353†	4136.2	4424.7	0.4942 mg/L	0.4942 mg/L	13:37:14
1	Sb 206.836†	1000.5	1019.6	0.4871 mg/L	0.4871 mg/L	13:37:14
1	Se 196.026†	700.1	728.4	0.9254 mg/L	0.9254 mg/L	13:37:14
1	Sn 189.927†	1896.5	1714.4	0.4668 mg/L	0.4668 mg/L	13:37:14
1	Sr 407.771†	1088605.3	1114532.6	0.0490 mg/L	0.0490 mg/L	13:36:49
1	Ti 337.279†	369843.2	382979.5	0.4799 mg/L	0.4799 mg/L	13:36:49
1	Tl 190.801†	599.1	614.8	0.4829 mg/L	0.4829 mg/L	13:37:14
1	V 292.402†	120563.4	125749.1	0.4856 mg/L	0.4856 mg/L	13:36:54
1	Zn 213.857†	36378.6	36830.5	0.4809 mg/L	0.4809 mg/L	13:36:54
2	K 766.490†	35499.7	36120.6	23.05 mg/L	23.05 mg/L	13:36:40
2	Li 670.784†	15236.6	15668.7	0.4848 mg/L	0.4848 mg/L	13:36:40
2	Na 589.592	201181.1	195064.1	24.77 mg/L	24.77 mg/L	13:36:40
2	Y 371.029	3519919.0	3519919.0	0.963 mg/L		13:37:21
2	Ag 328.068†	66609.9	71787.1	0.2458 mg/L	0.2458 mg/L	13:37:27
2	Al 237.313†	21102.4	21938.3	2.426 mg/L	2.426 mg/L	13:37:27
2	As 188.979†	308.9	314.7	0.4304 mg/L	0.4304 mg/L	13:37:47
2	B 182.528†	191.3	203.2	0.4724 mg/L	0.4724 mg/L	13:37:47
2	Ba 233.527†	57182.0	59516.2	0.4892 mg/L	0.4892 mg/L	13:37:27
2	Be 313.107†	237863.4	244383.0	0.0488 mg/L	0.0488 mg/L	13:37:27
2	Ca 315.886†	682857.1	707455.5	4.865 mg/L	4.865 mg/L	13:37:21
2	Cd 228.802†	9525.1	9767.3	0.2449 mg/L	0.2449 mg/L	13:37:47
2	Co 228.616†	17550.8	18404.1	0.4871 mg/L	0.4871 mg/L	13:37:27
2	Cr 267.716†	74362.7	76021.9	0.4821 mg/L	0.4821 mg/L	13:37:27
2	Cu 324.752†	130683.8	133284.7	0.4852 mg/L	0.4852 mg/L	13:37:27
2	Fe 234.349†	123634.6	126790.7	2.430 mg/L	2.430 mg/L	13:37:27
2	Fe 238.204†	283846.3	292605.4	2.449 mg/L	2.449 mg/L	13:37:27
2	Mg 279.077†	121077.6	125189.0	4.856 mg/L	4.856 mg/L	13:37:27
2	Mn 257.610†	434114.7	446941.9	0.4921 mg/L	0.4921 mg/L	13:37:21
2	Mo 202.031†	7184.3	7424.9	0.4957 mg/L	0.4957 mg/L	13:37:47
2	Ni 231.604†	13892.3	14387.5	0.4588 mg/L	0.4588 mg/L	13:37:27
2	P 214.914†	6640.4	6847.4	4.885 mg/L	4.885 mg/L	13:37:47
2	Pb 220.353†	4162.9	4486.9	0.5012 mg/L	0.5012 mg/L	13:37:47
2	Sb 206.836†	1007.8	1035.5	0.4949 mg/L	0.4949 mg/L	13:37:47
2	Se 196.026†	695.2	729.1	0.9263 mg/L	0.9263 mg/L	13:37:47
2	Sn 189.927†	1908.7	1742.9	0.4746 mg/L	0.4746 mg/L	13:37:47
2	Sr 407.771†	1080971.3	1115675.5	0.0490 mg/L	0.0490 mg/L	13:37:21
2	Ti 337.279†	367032.7	383142.6	0.4801 mg/L	0.4801 mg/L	13:37:21
2	Tl 190.801†	603.4	624.3	0.4903 mg/L	0.4903 mg/L	13:37:47
2	V 292.402†	119397.9	125543.5	0.4849 mg/L	0.4849 mg/L	13:37:27
2	Zn 213.857†	35939.3	36677.4	0.4789 mg/L	0.4789 mg/L	13:37:27

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3534154.8	0.967	mg/L	0.0055				0.57%
Ag 328.068†	71968.9	0.2464	mg/L	0.00088	0.2464	mg/L	0.00088	0.36%
QC value within limits for Ag 328.068 Recovery = 98.56%								
Al 237.313†	21947.8	2.427	mg/L	0.0015	2.427	mg/L	0.0015	0.06%
QC value within limits for Al 237.313 Recovery = 97.08%								
As 188.979†	315.9	0.4321	mg/L	0.00232	0.4321	mg/L	0.00232	0.54%
QC value less than the lower limit for As 188.979 Recovery = 86.42%								
B 182.528†	205.4	0.4775	mg/L	0.00724	0.4775	mg/L	0.00724	1.52%
QC value within limits for B 182.528 Recovery = 95.50%								
Ba 233.527†	59610.5	0.4899	mg/L	0.00110	0.4899	mg/L	0.00110	0.22%
QC value within limits for Ba 233.527 Recovery = 97.99%								
Be 313.107†	244782.0	0.0489	mg/L	0.00011	0.0489	mg/L	0.00011	0.23%
QC value within limits for Be 313.107 Recovery = 97.73%								
Ca 315.886†	707929.3	4.869	mg/L	0.0046	4.869	mg/L	0.0046	0.09%
QC value within limits for Ca 315.886 Recovery = 97.37%								

Cd 228.802†	9728.5	0.2439 mg/L	0.00139	0.2439 mg/L	0.00139	0.57%
QC value within limits for Cd 228.802 Recovery = 97.58%						
Co 228.616†	18435.9	0.4880 mg/L	0.00120	0.4880 mg/L	0.00120	0.25%
QC value within limits for Co 228.616 Recovery = 97.59%						
Cr 267.716†	76130.9	0.4828 mg/L	0.00098	0.4828 mg/L	0.00098	0.20%
QC value within limits for Cr 267.716 Recovery = 96.57%						
Cu 324.752†	133316.7	0.4854 mg/L	0.00017	0.4854 mg/L	0.00017	0.03%
QC value within limits for Cu 324.752 Recovery = 97.07%						
Fe 234.349†	127070.8	2.435 mg/L	0.0076	2.435 mg/L	0.0076	0.31%
QC value within limits for Fe 234.349 Recovery = 97.40%						
Fe 238.204†	293081.6	2.453 mg/L	0.0057	2.453 mg/L	0.0057	0.23%
QC value within limits for Fe 238.204 Recovery = 98.14%						
K 766.490†	36017.7	22.99 mg/L	0.093	22.99 mg/L	0.093	0.40%
QC value within limits for K 766.490 Recovery = 91.94%						
Li 670.784†	15626.5	0.4835 mg/L	0.00186	0.4835 mg/L	0.00186	0.39%
QC value within limits for Li 670.784 Recovery = 96.70%						
Mg 279.077†	125537.2	4.870 mg/L	0.0192	4.870 mg/L	0.0192	0.39%
QC value within limits for Mg 279.077 Recovery = 97.40%						
Mn 257.610†	446773.8	0.4919 mg/L	0.00026	0.4919 mg/L	0.00026	0.05%
QC value within limits for Mn 257.610 Recovery = 98.38%						
Mo 202.031†	7396.8	0.4938 mg/L	0.00266	0.4938 mg/L	0.00266	0.54%
QC value within limits for Mo 202.031 Recovery = 98.76%						
Na 589.592	194617.6	24.71 mg/L	0.081	24.71 mg/L	0.081	0.33%
QC value within limits for Na 589.592 Recovery = 98.84%						
Ni 231.604†	14394.2	0.4590 mg/L	0.00031	0.4590 mg/L	0.00031	0.07%
QC value within limits for Ni 231.604 Recovery = 91.79%						
P 214.914†	6813.3	4.861 mg/L	0.0344	4.861 mg/L	0.0344	0.71%
QC value within limits for P 214.914 Recovery = 97.22%						
Pb 220.353†	4455.8	0.4977 mg/L	0.00495	0.4977 mg/L	0.00495	0.99%
QC value within limits for Pb 220.353 Recovery = 99.54%						
Sb 206.836†	1027.5	0.4910 mg/L	0.00551	0.4910 mg/L	0.00551	1.12%
QC value within limits for Sb 206.836 Recovery = 98.20%						
Se 196.026†	728.8	0.9259 mg/L	0.00062	0.9259 mg/L	0.00062	0.07%
QC value within limits for Se 196.026 Recovery = 92.59%						
Sn 189.927†	1728.7	0.4707 mg/L	0.00551	0.4707 mg/L	0.00551	1.17%
QC value within limits for Sn 189.927 Recovery = 94.15%						
Sr 407.771†	1115104.1	0.0490 mg/L	0.00004	0.0490 mg/L	0.00004	0.07%
QC value within limits for Sr 407.771 Recovery = 97.98%						
Ti 337.279†	383061.0	0.4800 mg/L	0.00014	0.4800 mg/L	0.00014	0.03%
QC value within limits for Ti 337.279 Recovery = 96.00%						
Tl 190.801†	619.5	0.4866 mg/L	0.00524	0.4866 mg/L	0.00524	1.08%
QC value within limits for Tl 190.801 Recovery = 97.32%						
V 292.402†	125646.3	0.4853 mg/L	0.00051	0.4853 mg/L	0.00051	0.10%
QC value within limits for V 292.402 Recovery = 97.05%						
Zn 213.857†	36753.9	0.4799 mg/L	0.00142	0.4799 mg/L	0.00142	0.30%
QC value within limits for Zn 213.857 Recovery = 95.98%						

QC Failed. Continue with analysis.

==========

Sequence No.: 46
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/30/2006 1:39:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	860.1	132.0	0.0371	mg/L	0.0371	mg/L	13:41:00
1	Li 670.784†	159.5	10.8	-0.0044	mg/L	-0.0044	mg/L	13:41:00
1	Na 589.592	6619.2	502.2	-0.0615	mg/L	-0.0615	mg/L	13:41:00
1	Y 371.029	3624924.8	3624924.8	0.992	mg/L			13:41:14
1	Ag 328.068†	-2982.3	-373.9	-0.0023	mg/L	-0.0023	mg/L	13:41:19
1	Al 237.313†	-12.0	17.7	-0.0034	mg/L	-0.0034	mg/L	13:41:39
1	As 188.979†	8.4	2.5	0.0023	mg/L	0.0023	mg/L	13:41:39
1	B 182.528†	10.1	14.8	0.0346	mg/L	0.0346	mg/L	13:41:39
1	Ba 233.527†	-168.0	-19.6	-0.0027	mg/L	-0.0027	mg/L	13:41:39
1	Be 313.107†	2630.3	84.7	-0.0001	mg/L	-0.0001	mg/L	13:41:19
1	Ca 315.886†	1869.7	397.3	-0.0088	mg/L	-0.0088	mg/L	13:41:19
1	Cd 228.802†	117.9	-2.8	-0.0010	mg/L	-0.0010	mg/L	13:41:39
1	Co 228.616†	-173.4	8.1	-0.0020	mg/L	-0.0020	mg/L	13:41:39

1	Cr 267.716†	1077.5	-95.3	-0.0029 mg/L	-0.0029 mg/L	13:41:19
1	Cu 324.752†	2026.9	-348.0	-0.0037 mg/L	-0.0037 mg/L	13:41:19
1	Fe 234.349†	1425.8	-129.6	-0.0142 mg/L	-0.0142 mg/L	13:41:39
1	Fe 238.204†	1915.0	-153.6	-0.0164 mg/L	-0.0164 mg/L	13:41:39
1	Mg 279.077†	632.4	123.7	-0.0297 mg/L	-0.0297 mg/L	13:41:19
1	Mn 257.610†	2626.0	-1109.1	-0.0044 mg/L	-0.0044 mg/L	13:41:19
1	Mo 202.031†	51.3	17.8	-0.0010 mg/L	-0.0010 mg/L	13:41:39
1	Ni 231.604†	32.7	-2.5	-0.0027 mg/L	-0.0027 mg/L	13:41:39
1	P 214.914†	59.8	13.7	0.0094 mg/L	0.0094 mg/L	13:41:39
1	Pb 220.353†	-143.1	20.7	-0.0019 mg/L	-0.0019 mg/L	13:41:39
1	Sb 206.836†	17.3	6.7	-0.0001 mg/L	-0.0001 mg/L	13:41:39
1	Se 196.026†	-9.7	-2.4	-0.0065 mg/L	-0.0065 mg/L	13:41:39
1	Sn 189.927†	133.4	-104.2	-0.0301 mg/L	-0.0301 mg/L	13:41:39
1	Sr 407.771†	6394.3	-144.0	-0.0003 mg/L	-0.0003 mg/L	13:41:14
1	Ti 337.279†	-1871.2	202.3	-0.0011 mg/L	-0.0011 mg/L	13:41:19
1	Tl 190.801†	-4.1	-6.2	-0.0040 mg/L	-0.0040 mg/L	13:41:39
1	V 292.402†	-1419.1	153.8	-0.0008 mg/L	-0.0008 mg/L	13:41:19
1	Zn 213.857†	580.0	-50.1	-0.0023 mg/L	-0.0023 mg/L	13:41:39
2	K 766.490†	895.5	160.4	0.0553 mg/L	0.0553 mg/L	13:41:06
2	Li 670.784†	123.4	-26.6	-0.0055 mg/L	-0.0055 mg/L	13:41:06
2	Na 589.592	6577.2	460.3	-0.0668 mg/L	-0.0668 mg/L	13:41:06
2	Y 371.029	3654271.3	3654271.3	1.000 mg/L		13:41:45
2	Ag 328.068†	-2930.6	-298.0	-0.0020 mg/L	-0.0020 mg/L	13:41:50
2	Al 237.313†	-3.5	26.3	-0.0024 mg/L	-0.0024 mg/L	13:42:11
2	As 188.979†	6.5	0.5	-0.0005 mg/L	-0.0005 mg/L	13:42:11
2	B 182.528†	7.5	12.1	0.0285 mg/L	0.0285 mg/L	13:42:11
2	Ba 233.527†	-178.2	-28.4	-0.0028 mg/L	-0.0028 mg/L	13:42:11
2	Be 313.107†	2451.9	-115.0	-0.0001 mg/L	-0.0001 mg/L	13:41:50
2	Ca 315.886†	1765.6	278.1	-0.0097 mg/L	-0.0097 mg/L	13:41:50
2	Cd 228.802†	120.2	-1.5	-0.0009 mg/L	-0.0009 mg/L	13:42:11
2	Co 228.616†	-169.7	13.2	-0.0019 mg/L	-0.0019 mg/L	13:42:11
2	Cr 267.716†	1116.9	-64.5	-0.0027 mg/L	-0.0027 mg/L	13:41:50
2	Cu 324.752†	2048.5	-342.9	-0.0037 mg/L	-0.0037 mg/L	13:41:50
2	Fe 234.349†	1445.8	-121.1	-0.0140 mg/L	-0.0140 mg/L	13:42:11
2	Fe 238.204†	1933.2	-150.9	-0.0163 mg/L	-0.0163 mg/L	13:42:11
2	Mg 279.077†	500.3	-13.6	-0.0350 mg/L	-0.0350 mg/L	13:41:50
2	Mn 257.610†	2531.8	-1224.6	-0.0046 mg/L	-0.0046 mg/L	13:41:50
2	Mo 202.031†	42.0	8.1	-0.0016 mg/L	-0.0016 mg/L	13:42:11
2	Ni 231.604†	31.3	-4.3	-0.0027 mg/L	-0.0027 mg/L	13:42:11
2	P 214.914†	63.5	16.9	0.0117 mg/L	0.0117 mg/L	13:42:11
2	Pb 220.353†	-139.4	25.6	-0.0013 mg/L	-0.0013 mg/L	13:42:11
2	Sb 206.836†	15.4	4.6	-0.0011 mg/L	-0.0011 mg/L	13:42:11
2	Se 196.026†	-4.0	3.4	0.0009 mg/L	0.0009 mg/L	13:42:11
2	Sn 189.927†	127.5	-111.3	-0.0320 mg/L	-0.0320 mg/L	13:42:11
2	Sr 407.771†	6443.8	-146.2	-0.0003 mg/L	-0.0003 mg/L	13:41:45
2	Ti 337.279†	-2012.3	76.4	-0.0013 mg/L	-0.0013 mg/L	13:41:50
2	Tl 190.801†	6.3	4.1	0.0041 mg/L	0.0041 mg/L	13:42:11
2	V 292.402†	-1503.3	81.1	-0.0011 mg/L	-0.0011 mg/L	13:41:50
2	Zn 213.857†	589.7	-45.1	-0.0023 mg/L	-0.0023 mg/L	13:42:11

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3639598.1	0.996	mg/L	0.0057				0.57%
Ag 328.068†	-336.0	-0.0022	mg/L	0.00018	-0.0022	mg/L	0.00018	8.48%
QC value less than the lower limit for Ag 328.068 Recovery = Not calculated								
Al 237.313†	22.0	-0.0029	mg/L	0.00068	-0.0029	mg/L	0.00068	23.49%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	1.5	0.0009	mg/L	0.00195	0.0009	mg/L	0.00195	211.44%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	13.4	0.0316	mg/L	0.00432	0.0316	mg/L	0.00432	13.69%
QC value greater than the upper limit for B 182.528 Recovery = Not calculated								
Ba 233.527†	-24.0	-0.0027	mg/L	0.00005	-0.0027	mg/L	0.00005	1.88%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-15.2	-0.0001	mg/L	0.00003	-0.0001	mg/L	0.00003	23.16%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	337.7	-0.0092	mg/L	0.00058	-0.0092	mg/L	0.00058	6.29%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	-2.1	-0.0010	mg/L	0.00004	-0.0010	mg/L	0.00004	3.66%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	10.6	-0.0019	mg/L	0.00010	-0.0019	mg/L	0.00010	4.95%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716†	-79.9	-0.0028	mg/L	0.00014	-0.0028	mg/L	0.00014 4.90%

QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 324.752†	-345.4	-0.0037	mg/L	0.00001	-0.0037	mg/L	0.00001 0.36%

QC value less than the lower limit for Cu 324.752 Recovery = Not calculated

Fe 234.349†	-125.3	-0.0141	mg/L	0.00012	-0.0141	mg/L	0.00012 0.83%

QC value within limits for Fe 234.349 Recovery = Not calculated

Fe 238.204†	-152.2	-0.0164	mg/L	0.00002	-0.0164	mg/L	0.00002 0.10%

QC value within limits for Fe 238.204 Recovery = Not calculated

K 766.490†	146.2	0.0462	mg/L	0.01285	0.0462	mg/L	0.01285 27.84%

QC value within limits for K 766.490 Recovery = Not calculated

Li 670.784†	-7.9	-0.0050	mg/L	0.00083	-0.0050	mg/L	0.00083 16.66%

QC value within limits for Li 670.784 Recovery = Not calculated

Mg 279.077†	55.0	-0.0324	mg/L	0.00379	-0.0324	mg/L	0.00379 11.71%

QC value less than the lower limit for Mg 279.077 Recovery = Not calculated

Mn 257.610†	-1166.9	-0.0045	mg/L	0.00009	-0.0045	mg/L	0.00009 2.01%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031†	12.9	-0.0013	mg/L	0.00046	-0.0013	mg/L	0.00046 35.74%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592	481.2	-0.0642	mg/L	0.00378	-0.0642	mg/L	0.00378 5.90%

QC value within limits for Na 589.592 Recovery = Not calculated

Ni 231.604†	-3.4	-0.0027	mg/L	0.00004	-0.0027	mg/L	0.00004 1.44%

QC value less than the lower limit for Ni 231.604 Recovery = Not calculated

P 214.914†	15.3	0.0105	mg/L	0.00162	0.0105	mg/L	0.00162 15.42%

QC value within limits for P 214.914 Recovery = Not calculated

Pb 220.353†	23.1	-0.0016	mg/L	0.00039	-0.0016	mg/L	0.00039 24.29%

QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.836†	5.6	-0.0006	mg/L	0.00073	-0.0006	mg/L	0.00073 120.73%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026†	0.5	-0.0028	mg/L	0.00521	-0.0028	mg/L	0.00521 187.95%

QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.927†	-107.7	-0.0310	mg/L	0.00136	-0.0310	mg/L	0.00136 4.39%

QC value less than the lower limit for Sn 189.927 Recovery = Not calculated

Sr 407.771†	-145.1	-0.0003	mg/L	0.00000	-0.0003	mg/L	0.00000 0.02%

QC value within limits for Sr 407.771 Recovery = Not calculated

Ti 337.279†	139.4	-0.0012	mg/L	0.00011	-0.0012	mg/L	0.00011 9.44%

QC value within limits for Ti 337.279 Recovery = Not calculated

Tl 190.801†	-1.1	0.0001	mg/L	0.00572	0.0001	mg/L	0.00572 >999.9%

QC value within limits for Tl 190.801 Recovery = Not calculated

V 292.402†	117.4	-0.0010	mg/L	0.00020	-0.0010	mg/L	0.00020 20.81%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857†	-47.6	-0.0023	mg/L	0.00005	-0.0023	mg/L	0.00005 2.02%

QC value within limits for Zn 213.857 Recovery = Not calculated

QC Failed. Continue with analysis.

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Sequence No.: 47
Sample ID: BF62920-SD2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 6/30/2006 1:43:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62920-SD2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	3389.8	2908.4	1.813	mg/L	1.813	mg/L	13:45:24
1	Li 670.784†	264.9	134.7	-0.0005	mg/L	-0.0005	mg/L	13:45:24
1	Na 589.592	254141.3	248024.3	31.52	mg/L	31.52	mg/L	13:45:24
1	Y 371.029	3399843.6	3399843.6	0.930	mg/L			13:45:38
1	Ag 328.068†	-2968.5	-558.1	-0.0029	mg/L	-0.0029	mg/L	13:45:43
1	Al 237.313†	596.7	671.1	0.0684	mg/L	0.0684	mg/L	13:46:03
1	As 188.979†	3.1	-2.6	-0.0048	mg/L	-0.0048	mg/L	13:46:03
1	B 182.528†	139.1	154.2	0.3584	mg/L	0.3584	mg/L	13:46:03
1	Ba 233.527†	319.4	493.1	0.0015	mg/L	0.0015	mg/L	13:46:03
1	Be 313.107†	2466.4	84.0	-0.0001	mg/L	-0.0001	mg/L	13:45:43
1	Ca 315.886†	327721.7	350770.0	2.405	mg/L	2.405	mg/L	13:45:38
1	Cd 228.802†	117.6	4.7	-0.0008	mg/L	-0.0008	mg/L	13:46:03
1	Co 228.616†	-84.3	92.2	0.0002	mg/L	0.0002	mg/L	13:46:03
1	Cr 267.716†	6224.4	5508.9	0.0328	mg/L	0.0328	mg/L	13:45:43
1	Cu 324.752†	8169.2	6389.4	0.0209	mg/L	0.0209	mg/L	13:45:43
1	Fe 234.349†	10709.1	9943.9	0.1801	mg/L	0.1801	mg/L	13:45:43

2	Fe 234.349†	1639192.0	1639685.2	31.63 mg/L	31.63 mg/L	13:59:33
2	Fe 238.204†	3738352.3	3740966.5	31.49 mg/L	31.49 mg/L	13:59:33
2	Mg 279.077†	131081.2	130732.1	5.062 mg/L	5.062 mg/L	13:59:39
2	Mn 257.610†	529317.7	526226.4	0.5799 mg/L	0.5799 mg/L	13:59:33
2	Mo 202.031†	429.9	396.5	0.0244 mg/L	0.0244 mg/L	13:59:59
2	Ni 231.604†	1824.0	1790.8	0.0548 mg/L	0.0548 mg/L	13:59:39
2	P 214.914†	1810.3	1766.0	1.260 mg/L	1.260 mg/L	13:59:59
2	Pb 220.353†	2782.7	2951.2	0.3287 mg/L	0.3287 mg/L	13:59:59
2	Sb 206.836†	22.1	11.3	0.0011 mg/L	0.0011 mg/L	13:59:59
2	Se 196.026†	44.9	52.4	0.0634 mg/L	0.0634 mg/L	13:59:59
2	Sn 189.927†	193.4	-45.1	-0.0119 mg/L	-0.0119 mg/L	13:59:59
2	Sr 407.771†	Saturated2	Saturated2			13:59:59
Saturated in preshot (code 2)						
2	Ti 337.279†	584681.3	587504.9	0.7369 mg/L	0.7369 mg/L	13:59:33
2	Tl 190.801†	3.7	1.6	0.0100 mg/L	0.0100 mg/L	13:59:59
2	V 292.402†	43236.3	44875.1	0.1652 mg/L	0.1652 mg/L	13:59:39
2	Zn 213.857†	23436.0	22830.7	0.2963 mg/L	0.2963 mg/L	13:59:39

Mean Data: 0606383-08 X5

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3650785.0	0.999	mg/L	0.0004				0.04%
Ag 328.068†	6640.7	0.0231	mg/L	0.00006	0.0231	mg/L	0.00006	0.25%
Al 237.313†	128524.9	14.15	mg/L	0.019	14.15	mg/L	0.019	0.13%
As 188.979†	65.0	0.0873	mg/L	0.00316	0.0873	mg/L	0.00316	3.62%
B 182.528†	14.9	0.0351	mg/L	0.00047	0.0351	mg/L	0.00047	1.33%
Ba 233.527†	481508.2	3.976	mg/L	0.0070	3.976	mg/L	0.0070	0.18%
Be 313.107†	18978.4	0.0033	mg/L	0.00000	0.0033	mg/L	0.00000	0.14%
Ca 315.886†	1056521.4	7.269	mg/L	0.0036	7.269	mg/L	0.0036	0.05%
Cd 228.802†	147.1	0.0026	mg/L	0.00008	0.0026	mg/L	0.00008	3.00%
Co 228.616†	928.6	0.0210	mg/L	0.00032	0.0210	mg/L	0.00032	1.51%
Cr 267.716†	6570.2	0.0411	mg/L	0.00025	0.0411	mg/L	0.00025	0.62%
Cu 324.752†	66879.5	0.2482	mg/L	0.00059	0.2482	mg/L	0.00059	0.24%
Fe 234.349†	1641406.9	31.66	mg/L	0.047	31.66	mg/L	0.047	0.15%
Fe 238.204†	3738081.5	31.46	mg/L	0.034	31.46	mg/L	0.034	0.11%
K 766.490†	1304.6	0.7870	mg/L	0.00480	0.7870	mg/L	0.00480	0.61%
Li 670.784†	541.2	0.0122	mg/L	0.00034	0.0122	mg/L	0.00034	2.77%
Mg 279.077†	130728.5	5.062	mg/L	0.0002	5.062	mg/L	0.0002	0.00%
Mn 257.610†	526123.9	0.5798	mg/L	0.00016	0.5798	mg/L	0.00016	0.03%
Mo 202.031†	402.7	0.0248	mg/L	0.00059	0.0248	mg/L	0.00059	2.36%
Na 589.592	20864.1	2.537	mg/L	0.0042	2.537	mg/L	0.0042	0.16%
Ni 231.604†	1782.3	0.0545	mg/L	0.00038	0.0545	mg/L	0.00038	0.70%
P 214.914†	1767.4	1.261	mg/L	0.0015	1.261	mg/L	0.0015	0.12%
Pb 220.353†	2958.8	0.3295	mg/L	0.00121	0.3295	mg/L	0.00121	0.37%
Sb 206.836†	10.6	0.0008	mg/L	0.00049	0.0008	mg/L	0.00049	64.40%
Se 196.026†	50.0	0.0604	mg/L	0.00426	0.0604	mg/L	0.00426	7.06%
Sn 189.927†	-42.5	-0.0112	mg/L	0.00098	-0.0112	mg/L	0.00098	8.78%
Sr 407.771†	Saturated2							
Ti 337.279†	587389.5	0.7368	mg/L	0.00021	0.7368	mg/L	0.00021	0.03%
Tl 190.801†	-4.0	0.0057	mg/L	0.00615	0.0057	mg/L	0.00615	108.50%
V 292.402†	44855.3	0.1651	mg/L	0.00010	0.1651	mg/L	0.00010	0.06%
Zn 213.857†	22873.5	0.2968	mg/L	0.00080	0.2968	mg/L	0.00080	0.27%

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Sequence No.: 51
Sample ID: 0606494-01 X5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 6/30/2006 2:01:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606494-01 X5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	12337.8	12783.4	8.127	mg/L	8.127	mg/L	14:03:11
1	Li 670.784†	64.4	-79.4	-0.0072	mg/L	-0.0072	mg/L	14:03:11
1	Na 589.592	101627.1	95510.1	12.06	mg/L	12.06	mg/L	14:03:11
1	Y 371.029	3335201.2	3335201.2	0.913	mg/L			14:03:25
1	Ag 328.068†	-3306.2	-990.0	-0.0044	mg/L	-0.0044	mg/L	14:03:30
1	Al 237.313†	129.4	171.5	0.0136	mg/L	0.0136	mg/L	14:03:50
1	As 188.979†	43.2	41.4	0.0557	mg/L	0.0557	mg/L	14:03:50

Fe 234.349†	989.0	0.0074 mg/L	0.00153	0.0074 mg/L	0.00153	20.74%
Fe 238.204†	1962.7	0.0015 mg/L	0.00118	0.0015 mg/L	0.00118	80.71%
K 766.490†	12792.3	8.133 mg/L	0.0081	8.133 mg/L	0.0081	0.10%
Li 670.784†	-57.2	-0.0065 mg/L	0.00098	-0.0065 mg/L	0.00098	15.09%
Mg 279.077†	19066.2	0.7098 mg/L	0.00805	0.7098 mg/L	0.00805	1.13%
Mn 257.610†	5133.9	0.0025 mg/L	0.00011	0.0025 mg/L	0.00011	4.24%
Mo 202.031†	26.3	-0.0004 mg/L	0.00078	-0.0004 mg/L	0.00078	198.84%
Na 589.592	95231.8	12.03 mg/L	0.050	12.03 mg/L	0.050	0.42%
Ni 231.604†	4.4	-0.0025 mg/L	0.00014	-0.0025 mg/L	0.00014	5.82%
P 214.914†	88.3	0.0627 mg/L	0.00822	0.0627 mg/L	0.00822	13.12%
Pb 220.353†	53.5	0.0018 mg/L	0.00058	0.0018 mg/L	0.00058	31.94%
Sb 206.836†	-3.4	-0.0050 mg/L	0.00203	-0.0050 mg/L	0.00203	40.25%
Se 196.026†	-4.8	-0.0095 mg/L	0.00467	-0.0095 mg/L	0.00467	49.04%
Sn 189.927†	-87.7	-0.0256 mg/L	0.00218	-0.0256 mg/L	0.00218	8.55%
Sr 407.771†	1228212.4	0.0540 mg/L	0.00003	0.0540 mg/L	0.00003	0.05%
Ti 337.279†	39.6	-0.0013 mg/L	0.00002	-0.0013 mg/L	0.00002	1.36%
Tl 190.801†	7.0	0.0065 mg/L	0.00069	0.0065 mg/L	0.00069	10.54%
V 292.402†	509.2	0.0005 mg/L	0.00011	0.0005 mg/L	0.00011	21.69%
Zn 213.857†	2030.6	0.0251 mg/L	0.00012	0.0251 mg/L	0.00012	0.47%

Sequence No.: 52
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/30/2006 2:05:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	36231.7	36755.3	23.46	mg/L	23.46	mg/L	14:07:34
1	Li 670.784†	15472.8	15860.4	0.4908	mg/L	0.4908	mg/L	14:07:34
1	Na 589.592	194351.2	188234.2	23.89	mg/L	23.89	mg/L	14:07:34
1	Y 371.029	3531681.0	3531681.0	0.966	mg/L			14:07:48
1	Ag 328.068†	67102.1	72066.2	0.2467	mg/L	0.2467	mg/L	14:07:54
1	Al 237.313†	21295.6	22065.3	2.440	mg/L	2.440	mg/L	14:07:54
1	As 188.979†	317.9	322.9	0.4418	mg/L	0.4418	mg/L	14:08:14
1	B 182.528†	186.6	197.7	0.4595	mg/L	0.4595	mg/L	14:08:14
1	Ba 233.527†	57552.9	59702.2	0.4907	mg/L	0.4907	mg/L	14:07:54
1	Be 313.107†	239716.5	245478.0	0.0490	mg/L	0.0490	mg/L	14:07:54
1	Ca 315.886†	685264.1	707585.0	4.866	mg/L	4.866	mg/L	14:07:48
1	Cd 228.802†	9408.8	9614.1	0.2410	mg/L	0.2410	mg/L	14:08:14
1	Co 228.616†	17630.0	18425.4	0.4877	mg/L	0.4877	mg/L	14:07:54
1	Cr 267.716†	75097.7	76525.4	0.4854	mg/L	0.4854	mg/L	14:07:54
1	Cu 324.752†	132966.2	135194.6	0.4922	mg/L	0.4922	mg/L	14:07:54
1	Fe 234.349†	124737.1	127504.0	2.443	mg/L	2.443	mg/L	14:07:54
1	Fe 238.204†	285709.3	293551.7	2.457	mg/L	2.457	mg/L	14:07:54
1	Mg 279.077†	122480.3	126221.8	4.897	mg/L	4.897	mg/L	14:07:54
1	Mn 257.610†	433520.9	444826.5	0.4898	mg/L	0.4898	mg/L	14:07:48
1	Mo 202.031†	7076.1	7288.0	0.4865	mg/L	0.4865	mg/L	14:08:14
1	Ni 231.604†	14529.7	14998.9	0.4783	mg/L	0.4783	mg/L	14:07:54
1	P 214.914†	6557.7	6738.9	4.808	mg/L	4.808	mg/L	14:08:14
1	Pb 220.353†	4080.9	4387.7	0.4900	mg/L	0.4900	mg/L	14:08:14
1	Sb 206.836†	990.1	1013.7	0.4842	mg/L	0.4842	mg/L	14:08:14
1	Se 196.026†	702.9	734.7	0.9334	mg/L	0.9334	mg/L	14:08:14
1	Sn 189.927†	1865.8	1691.9	0.4607	mg/L	0.4607	mg/L	14:08:14
1	Sr 407.771†	1081309.5	1112287.8	0.0489	mg/L	0.0489	mg/L	14:07:48
1	Ti 337.279†	372735.0	387773.9	0.4859	mg/L	0.4859	mg/L	14:07:54
1	Tl 190.801†	582.4	600.5	0.4716	mg/L	0.4716	mg/L	14:08:14
1	V 292.402†	121004.8	126793.3	0.4895	mg/L	0.4895	mg/L	14:07:54
1	Zn 213.857†	36453.7	37085.4	0.4842	mg/L	0.4842	mg/L	14:07:54
2	K 766.490†	36226.0	36728.9	23.44	mg/L	23.44	mg/L	14:07:39
2	Li 670.784†	15465.3	15843.8	0.4903	mg/L	0.4903	mg/L	14:07:39
2	Na 589.592	196080.2	189963.2	24.11	mg/L	24.11	mg/L	14:07:39
2	Y 371.029	3533615.8	3533615.8	0.967	mg/L			14:08:20
2	Ag 328.068†	66310.6	71209.6	0.2438	mg/L	0.2438	mg/L	14:08:26
2	Al 237.313†	20857.9	21600.5	2.388	mg/L	2.388	mg/L	14:08:26
2	As 188.979†	317.5	322.3	0.4409	mg/L	0.4409	mg/L	14:08:46
2	B 182.528†	185.5	196.5	0.4568	mg/L	0.4568	mg/L	14:08:46
2	Ba 233.527†	56467.8	58547.5	0.4812	mg/L	0.4812	mg/L	14:08:26
2	Be 313.107†	235529.4	241012.0	0.0481	mg/L	0.0481	mg/L	14:08:26

2	Ca 315.886†	684339.8	706240.9	4.857 mg/L	4.857 mg/L	14:08:20
2	Cd 228.802†	9456.7	9658.2	0.2421 mg/L	0.2421 mg/L	14:08:46
2	Co 228.616†	17353.5	18129.5	0.4798 mg/L	0.4798 mg/L	14:08:26
2	Cr 267.716†	73693.0	75030.1	0.4758 mg/L	0.4758 mg/L	14:08:26
2	Cu 324.752†	130946.1	133030.1	0.4843 mg/L	0.4843 mg/L	14:08:26
2	Fe 234.349†	122184.7	124793.6	2.391 mg/L	2.391 mg/L	14:08:26
2	Fe 238.204†	280633.4	288140.5	2.412 mg/L	2.412 mg/L	14:08:26
2	Mg 279.077†	120091.9	123682.4	4.797 mg/L	4.797 mg/L	14:08:26
2	Mn 257.610†	432732.4	443765.4	0.4886 mg/L	0.4886 mg/L	14:08:20
2	Mo 202.031†	7121.4	7330.9	0.4894 mg/L	0.4894 mg/L	14:08:46
2	Ni 231.604†	14198.3	14648.0	0.4671 mg/L	0.4671 mg/L	14:08:26
2	P 214.914†	6568.7	6746.5	4.813 mg/L	4.813 mg/L	14:08:46
2	Pb 220.353†	4077.2	4381.5	0.4893 mg/L	0.4893 mg/L	14:08:46
2	Sb 206.836†	987.7	1010.6	0.4828 mg/L	0.4828 mg/L	14:08:46
2	Se 196.026†	699.6	730.9	0.9286 mg/L	0.9286 mg/L	14:08:46
2	Sn 189.927†	1868.5	1693.6	0.4612 mg/L	0.4612 mg/L	14:08:46
2	Sr 407.771†	1080548.7	1110888.4	0.0488 mg/L	0.0488 mg/L	14:08:20
2	Ti 337.279†	366467.9	381081.4	0.4775 mg/L	0.4775 mg/L	14:08:26
2	Tl 190.801†	597.8	616.1	0.4839 mg/L	0.4839 mg/L	14:08:46
2	V 292.402†	118765.2	124408.6	0.4805 mg/L	0.4805 mg/L	14:08:26
2	Zn 213.857†	35677.8	36262.4	0.4734 mg/L	0.4734 mg/L	14:08:26

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3532648.4	0.967	mg/L	0.0004				0.04%
Ag 328.068†	71637.9	0.2452	mg/L	0.00208	0.2452	mg/L	0.00208	0.85%
QC value within limits for Ag 328.068 Recovery = 98.10%								
Al 237.313†	21832.9	2.414	mg/L	0.0364	2.414	mg/L	0.0364	1.51%
QC value within limits for Al 237.313 Recovery = 96.57%								
As 188.979†	322.6	0.4414	mg/L	0.00058	0.4414	mg/L	0.00058	0.13%
QC value less than the lower limit for As 188.979 Recovery = 88.27%								
B 182.528†	197.1	0.4582	mg/L	0.00196	0.4582	mg/L	0.00196	0.43%
QC value within limits for B 182.528 Recovery = 91.63%								
Ba 233.527†	59124.9	0.4859	mg/L	0.00674	0.4859	mg/L	0.00674	1.39%
QC value within limits for Ba 233.527 Recovery = 97.18%								
Be 313.107†	243245.0	0.0486	mg/L	0.00063	0.0486	mg/L	0.00063	1.30%
QC value within limits for Be 313.107 Recovery = 97.10%								
Ca 315.886†	706912.9	4.862	mg/L	0.0066	4.862	mg/L	0.0066	0.14%
QC value within limits for Ca 315.886 Recovery = 97.23%								
Cd 228.802†	9636.1	0.2416	mg/L	0.00076	0.2416	mg/L	0.00076	0.31%
QC value within limits for Cd 228.802 Recovery = 96.62%								
Co 228.616†	18277.5	0.4837	mg/L	0.00556	0.4837	mg/L	0.00556	1.15%
QC value within limits for Co 228.616 Recovery = 96.74%								
Cr 267.716†	75777.7	0.4806	mg/L	0.00674	0.4806	mg/L	0.00674	1.40%
QC value within limits for Cr 267.716 Recovery = 96.12%								
Cu 324.752†	134112.3	0.4883	mg/L	0.00560	0.4883	mg/L	0.00560	1.15%
QC value within limits for Cu 324.752 Recovery = 97.65%								
Fe 234.349†	126148.8	2.417	mg/L	0.0369	2.417	mg/L	0.0369	1.53%
QC value within limits for Fe 234.349 Recovery = 96.68%								
Fe 238.204†	290846.1	2.435	mg/L	0.0322	2.435	mg/L	0.0322	1.32%
QC value within limits for Fe 238.204 Recovery = 97.39%								
K 766.490†	36742.1	23.45	mg/L	0.012	23.45	mg/L	0.012	0.05%
QC value within limits for K 766.490 Recovery = 93.79%								
Li 670.784†	15852.1	0.4905	mg/L	0.00037	0.4905	mg/L	0.00037	0.07%
QC value within limits for Li 670.784 Recovery = 98.11%								
Mg 279.077†	124952.1	4.847	mg/L	0.0701	4.847	mg/L	0.0701	1.45%
QC value within limits for Mg 279.077 Recovery = 96.94%								
Mn 257.610†	444295.9	0.4892	mg/L	0.00083	0.4892	mg/L	0.00083	0.17%
QC value within limits for Mn 257.610 Recovery = 97.83%								
Mo 202.031†	7309.4	0.4879	mg/L	0.00203	0.4879	mg/L	0.00203	0.42%
QC value within limits for Mo 202.031 Recovery = 97.59%								
Na 589.592	189098.7	24.00	mg/L	0.156	24.00	mg/L	0.156	0.65%
QC value within limits for Na 589.592 Recovery = 96.02%								
Ni 231.604†	14823.5	0.4727	mg/L	0.00795	0.4727	mg/L	0.00795	1.68%
QC value within limits for Ni 231.604 Recovery = 94.54%								
P 214.914†	6742.7	4.810	mg/L	0.0038	4.810	mg/L	0.0038	0.08%
QC value within limits for P 214.914 Recovery = 96.21%								
Pb 220.353†	4384.6	0.4897	mg/L	0.00049	0.4897	mg/L	0.00049	0.10%
QC value within limits for Pb 220.353 Recovery = 97.93%								
Sb 206.836†	1012.2	0.4835	mg/L	0.00097	0.4835	mg/L	0.00097	0.20%

QC value within limits for Sb 206.836 Recovery = 96.70%

Se 196.026†	732.8	0.9310 mg/L	0.00343	0.9310 mg/L	0.00343	0.37%

QC value within limits for Se 196.026 Recovery = 93.10%

Sn 189.927†	1692.8	0.4609 mg/L	0.00032	0.4609 mg/L	0.00032	0.07%

QC value within limits for Sn 189.927 Recovery = 92.19%

Sr 407.771†	1111588.1	0.0488 mg/L	0.00004	0.0488 mg/L	0.00004	0.09%

QC value within limits for Sr 407.771 Recovery = 97.67%

Ti 337.279†	384427.6	0.4817 mg/L	0.00595	0.4817 mg/L	0.00595	1.23%

QC value within limits for Ti 337.279 Recovery = 96.34%

Tl 190.801†	608.3	0.4778 mg/L	0.00867	0.4778 mg/L	0.00867	1.81%

QC value within limits for Tl 190.801 Recovery = 95.55%

V 292.402†	125601.0	0.4850 mg/L	0.00638	0.4850 mg/L	0.00638	1.32%

QC value within limits for V 292.402 Recovery = 97.00%

Zn 213.857†	36673.9	0.4788 mg/L	0.00762	0.4788 mg/L	0.00762	1.59%

QC value within limits for Zn 213.857 Recovery = 95.75%

QC Failed. Continue with analysis.

Sequence No.: 53
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/30/2006 2:10:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	728.2	6.4	-0.0432	mg/L	-0.0432	mg/L	14:11:57
1	Li 670.784†	148.6	1.3	-0.0047	mg/L	-0.0047	mg/L	14:11:57
1	Na 589.592	3217.5	-2899.5	-0.4956	mg/L	-0.4956	mg/L	14:11:57
1	Y 371.029	3588032.9	3588032.9	0.982	mg/L			14:12:10
1	Ag 328.068†	-2958.9	-380.9	-0.0023	mg/L	-0.0023	mg/L	14:12:15
1	Al 237.313†	3.2	33.0	-0.0017	mg/L	-0.0017	mg/L	14:12:36
1	As 188.979†	4.6	-1.3	-0.0030	mg/L	-0.0030	mg/L	14:12:36
1	B 182.528†	3.0	7.7	0.0182	mg/L	0.0182	mg/L	14:12:36
1	Ba 233.527†	-164.9	-18.1	-0.0027	mg/L	-0.0027	mg/L	14:12:36
1	Be 313.107†	2605.0	86.1	-0.0001	mg/L	-0.0001	mg/L	14:12:15
1	Ca 315.886†	1930.2	478.2	-0.0083	mg/L	-0.0083	mg/L	14:12:15
1	Cd 228.802†	112.7	-6.9	-0.0011	mg/L	-0.0011	mg/L	14:12:36
1	Co 228.616†	-165.1	14.8	-0.0018	mg/L	-0.0018	mg/L	14:12:36
1	Cr 267.716†	1145.5	-14.8	-0.0024	mg/L	-0.0024	mg/L	14:12:15
1	Cu 324.752†	1926.6	-429.1	-0.0040	mg/L	-0.0040	mg/L	14:12:15
1	Fe 234.349†	1382.5	-158.9	-0.0148	mg/L	-0.0148	mg/L	14:12:36
1	Fe 238.204†	1820.7	-229.7	-0.0170	mg/L	-0.0170	mg/L	14:12:36
1	Mg 279.077†	533.6	29.6	-0.0334	mg/L	-0.0334	mg/L	14:12:15
1	Mn 257.610†	2367.7	-1345.0	-0.0047	mg/L	-0.0047	mg/L	14:12:15
1	Mo 202.031†	34.1	0.8	-0.0021	mg/L	-0.0021	mg/L	14:12:36
1	Ni 231.604†	14.2	-21.1	-0.0033	mg/L	-0.0033	mg/L	14:12:36
1	P 214.914†	61.5	15.9	0.0110	mg/L	0.0110	mg/L	14:12:36
1	Pb 220.353†	-140.9	21.5	-0.0018	mg/L	-0.0018	mg/L	14:12:36
1	Sb 206.836†	16.4	5.9	-0.0005	mg/L	-0.0005	mg/L	14:12:36
1	Se 196.026†	-8.7	-1.5	-0.0053	mg/L	-0.0053	mg/L	14:12:36
1	Sn 189.927†	131.2	-105.1	-0.0303	mg/L	-0.0303	mg/L	14:12:36
1	Sr 407.771†	6445.4	-25.6	-0.0003	mg/L	-0.0003	mg/L	14:12:10
1	Ti 337.279†	-1868.4	185.8	-0.0011	mg/L	-0.0011	mg/L	14:12:15
1	Tl 190.801†	7.0	4.9	0.0048	mg/L	0.0048	mg/L	14:12:36
1	V 292.402†	-1499.0	57.6	-0.0012	mg/L	-0.0012	mg/L	14:12:15
1	Zn 213.857†	589.2	-34.8	-0.0021	mg/L	-0.0021	mg/L	14:12:36
2	K 766.490†	755.5	39.0	-0.0223	mg/L	-0.0223	mg/L	14:12:02
2	Li 670.784†	130.7	-16.1	-0.0052	mg/L	-0.0052	mg/L	14:12:02
2	Na 589.592	3216.6	-2900.4	-0.4957	mg/L	-0.4957	mg/L	14:12:02
2	Y 371.029	3565885.9	3565885.9	0.976	mg/L			14:12:41
2	Ag 328.068†	-2951.7	-392.3	-0.0024	mg/L	-0.0024	mg/L	14:12:47
2	Al 237.313†	-35.5	-6.6	-0.0061	mg/L	-0.0061	mg/L	14:13:07
2	As 188.979†	8.5	2.7	0.0025	mg/L	0.0025	mg/L	14:13:07
2	B 182.528†	3.6	8.3	0.0196	mg/L	0.0196	mg/L	14:13:07
2	Ba 233.527†	-179.2	-33.9	-0.0028	mg/L	-0.0028	mg/L	14:13:07
2	Be 313.107†	2588.0	85.2	-0.0001	mg/L	-0.0001	mg/L	14:12:47
2	Ca 315.886†	1856.3	414.8	-0.0087	mg/L	-0.0087	mg/L	14:12:47
2	Cd 228.802†	121.3	2.7	-0.0009	mg/L	-0.0009	mg/L	14:13:07
2	Co 228.616†	-180.7	-2.3	-0.0023	mg/L	-0.0023	mg/L	14:13:07

2	Cr 267.716†	1120.6	-33.1	-0.0025 mg/L	-0.0025 mg/L	14:12:47
2	Cu 324.752†	2046.7	-293.9	-0.0035 mg/L	-0.0035 mg/L	14:12:47
2	Fe 234.349†	1379.6	-153.1	-0.0147 mg/L	-0.0147 mg/L	14:13:07
2	Fe 238.204†	1808.5	-230.7	-0.0170 mg/L	-0.0170 mg/L	14:13:07
2	Mg 279.077†	570.8	71.1	-0.0317 mg/L	-0.0317 mg/L	14:12:47
2	Mn 257.610†	2424.2	-1272.2	-0.0046 mg/L	-0.0046 mg/L	14:12:47
2	Mo 202.031†	54.0	21.4	-0.0007 mg/L	-0.0007 mg/L	14:13:07
2	Ni 231.604†	26.6	-8.3	-0.0029 mg/L	-0.0029 mg/L	14:13:07
2	P 214.914†	68.1	23.1	0.0161 mg/L	0.0161 mg/L	14:13:07
2	Pb 220.353†	-140.4	21.1	-0.0018 mg/L	-0.0018 mg/L	14:13:07
2	Sb 206.836†	13.0	2.5	-0.0021 mg/L	-0.0021 mg/L	14:13:07
2	Se 196.026†	-6.8	0.5	-0.0028 mg/L	-0.0028 mg/L	14:13:07
2	Sn 189.927†	124.6	-111.1	-0.0319 mg/L	-0.0319 mg/L	14:13:07
2	Sr 407.771†	6531.7	103.6	-0.0003 mg/L	-0.0003 mg/L	14:12:41
2	Ti 337.279†	-1927.1	113.8	-0.0012 mg/L	-0.0012 mg/L	14:12:47
2	Tl 190.801†	6.2	4.2	0.0042 mg/L	0.0042 mg/L	14:13:07
2	V 292.402†	-1537.4	8.9	-0.0014 mg/L	-0.0014 mg/L	14:12:47
2	Zn 213.857†	595.3	-24.8	-0.0020 mg/L	-0.0020 mg/L	14:13:07

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3576959.4	0.979	mg/L	0.0043				0.44%
Ag 328.068†	-386.6	-0.0023	mg/L	0.00003	-0.0023	mg/L	0.00003	1.16%
QC value less than the lower limit for Ag 328.068 Recovery = Not calculated								
Al 237.313†	13.2	-0.0039	mg/L	0.00311	-0.0039	mg/L	0.00311	80.82%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	0.7	-0.0002	mg/L	0.00390	-0.0002	mg/L	0.00390	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	8.0	0.0189	mg/L	0.00096	0.0189	mg/L	0.00096	5.10%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	-26.0	-0.0028	mg/L	0.00009	-0.0028	mg/L	0.00009	3.32%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	85.7	-0.0001	mg/L	0.00000	-0.0001	mg/L	0.00000	0.08%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	446.5	-0.0085	mg/L	0.00031	-0.0085	mg/L	0.00031	3.66%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	-2.1	-0.0010	mg/L	0.00015	-0.0010	mg/L	0.00015	15.21%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	6.2	-0.0020	mg/L	0.00032	-0.0020	mg/L	0.00032	15.74%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-24.0	-0.0025	mg/L	0.00008	-0.0025	mg/L	0.00008	3.34%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-361.5	-0.0038	mg/L	0.00035	-0.0038	mg/L	0.00035	9.29%
QC value less than the lower limit for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	-156.0	-0.0147	mg/L	0.00007	-0.0147	mg/L	0.00007	0.51%
QC value within limits for Fe 234.349 Recovery = Not calculated								
Fe 238.204†	-230.2	-0.0170	mg/L	0.00001	-0.0170	mg/L	0.00001	0.04%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	22.7	-0.0328	mg/L	0.01474	-0.0328	mg/L	0.01474	45.01%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	-7.4	-0.0049	mg/L	0.00038	-0.0049	mg/L	0.00038	7.78%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	50.3	-0.0325	mg/L	0.00115	-0.0325	mg/L	0.00115	3.52%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-1308.6	-0.0047	mg/L	0.00006	-0.0047	mg/L	0.00006	1.23%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	11.1	-0.0014	mg/L	0.00098	-0.0014	mg/L	0.00098	69.36%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-2899.9	-0.4956	mg/L	0.00008	-0.4956	mg/L	0.00008	0.02%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-14.7	-0.0031	mg/L	0.00029	-0.0031	mg/L	0.00029	9.44%
QC value less than the lower limit for Ni 231.604 Recovery = Not calculated								
P 214.914†	19.5	0.0136	mg/L	0.00362	0.0136	mg/L	0.00362	26.64%
QC value within limits for P 214.914 Recovery = Not calculated								
Pb 220.353†	21.3	-0.0018	mg/L	0.00003	-0.0018	mg/L	0.00003	1.65%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	4.2	-0.0013	mg/L	0.00119	-0.0013	mg/L	0.00119	92.11%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.5	-0.0041	mg/L	0.00178	-0.0041	mg/L	0.00178	43.82%
QC value within limits for Se 196.026 Recovery = Not calculated								

Sn 189.927†	-108.1	-0.0311 mg/L	0.00116	-0.0311 mg/L	0.00116	3.72%	
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated							
Sr 407.771†	39.0	-0.0003 mg/L	0.00000	-0.0003 mg/L	0.00000	1.19%	
QC value within limits for Sr 407.771 Recovery = Not calculated							
Ti 337.279†	149.8	-0.0012 mg/L	0.00006	-0.0012 mg/L	0.00006	5.46%	
QC value within limits for Ti 337.279 Recovery = Not calculated							
Tl 190.801†	4.6	0.0045 mg/L	0.00038	0.0045 mg/L	0.00038	8.57%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	33.3	-0.0013 mg/L	0.00011	-0.0013 mg/L	0.00011	8.82%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-29.8	-0.0021 mg/L	0.00009	-0.0021 mg/L	0.00009	4.42%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
QC Failed. Continue with analysis.							

Sequence No.: 54
Sample ID: ICSA
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 160
Date Collected: 6/30/2006 2:14:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	917.1	294.0	0.1407	mg/L	0.1407	mg/L	14:16:19
1	Li 670.784†	164.8	34.9	-0.0036	mg/L	-0.0036	mg/L	14:16:19
1	Na 589.592	3836.0	-2281.0	-0.4166	mg/L	-0.4166	mg/L	14:16:19
1	Y 371.029	3256507.1	3256507.1	0.891	mg/L			14:16:46
1	Ag 328.068†	-3437.9	-1225.3	-0.0016	mg/L	-0.0016	mg/L	14:16:51
1	Al 237.313†	1992946.8	2236472.9	248.4	mg/L	248.4	mg/L	14:16:46
1	As 188.979†	12.2	7.7	0.0095	mg/L	0.0095	mg/L	14:17:12
1	B 182.528†	18.0	24.8	0.0579	mg/L	0.0579	mg/L	14:17:12
1	Ba 233.527†	98.5	260.3	-0.0004	mg/L	-0.0004	mg/L	14:17:12
1	Be 313.107†	95.6	-2459.7	-0.0001	mg/L	-0.0001	mg/L	14:16:51
1	Ca 315.886†	30640521.7	34382664.1	236.9	mg/L	236.9	mg/L	14:16:39
1	Cd 228.802†	73.5	-39.2	-0.0013	mg/L	-0.0013	mg/L	14:17:12
1	Co 228.616†	-139.0	26.9	-0.0015	mg/L	-0.0015	mg/L	14:17:12
1	Cr 267.716†	614.4	-492.0	-0.0001	mg/L	-0.0001	mg/L	14:16:51
1	Cu 324.752†	-44.5	-2441.3	0.0048	mg/L	0.0048	mg/L	14:16:51
1	Fe 234.349†	4142909.9	4647519.7	89.66	mg/L	89.66	mg/L	14:16:46
1	Fe 238.204†	9040987.4	10143522.6	85.40	mg/L	85.40	mg/L	14:16:39
1	Mg 279.077†	5249502.2	5890367.6	229.9	mg/L	229.9	mg/L	14:16:46
1	Mn 257.610†	6748.3	3816.3	0.0010	mg/L	0.0010	mg/L	14:16:51
1	Mo 202.031†	241.0	236.6	0.0137	mg/L	0.0137	mg/L	14:17:12
1	Ni 231.604†	42.0	11.6	-0.0022	mg/L	-0.0022	mg/L	14:17:12
1	P 214.914†	-74.8	-130.5	-0.0935	mg/L	-0.0935	mg/L	14:17:12
1	Pb 220.353†	-541.4	-442.5	-0.0086	mg/L	-0.0086	mg/L	14:17:12
1	Sb 206.836†	11.3	1.9	-0.0024	mg/L	-0.0024	mg/L	14:17:12
1	Se 196.026†	7.5	15.9	0.0168	mg/L	0.0168	mg/L	14:17:12
1	Sn 189.927†	-2.1	-241.1	-0.0638	mg/L	-0.0638	mg/L	14:17:12
1	Sr 407.771†	23299.1	19555.5	0.0005	mg/L	0.0005	mg/L	14:16:51
1	Ti 337.279†	1935.3	4260.5	0.0040	mg/L	0.0040	mg/L	14:16:51
1	Tl 190.801†	53.6	58.0	0.0462	mg/L	0.0462	mg/L	14:17:12
1	V 292.402†	1709.6	3502.9	0.0005	mg/L	0.0005	mg/L	14:16:51
1	Zn 213.857†	2174.1	1805.0	0.0141	mg/L	0.0141	mg/L	14:17:12
2	K 766.490†	863.5	230.9	0.1004	mg/L	0.1004	mg/L	14:16:25
2	Li 670.784†	182.4	54.1	-0.0030	mg/L	-0.0030	mg/L	14:16:25
2	Na 589.592	3825.4	-2291.6	-0.4180	mg/L	-0.4180	mg/L	14:16:25
2	Y 371.029	3266533.7	3266533.7	0.894	mg/L			14:17:30
2	Ag 328.068†	-3472.7	-1252.4	-0.0017	mg/L	-0.0017	mg/L	14:17:35
2	Al 237.313†	1998387.9	2235695.3	248.3	mg/L	248.3	mg/L	14:17:30
2	As 188.979†	11.4	6.7	0.0081	mg/L	0.0081	mg/L	14:17:56
2	B 182.528†	20.2	27.2	0.0635	mg/L	0.0635	mg/L	14:17:56
2	Ba 233.527†	68.7	226.7	-0.0007	mg/L	-0.0007	mg/L	14:17:56
2	Be 313.107†	250.9	-2286.4	0.0000	mg/L	0.0000	mg/L	14:17:35
2	Ca 315.886†	30881620.5	34546847.9	238.0	mg/L	238.0	mg/L	14:17:23
2	Cd 228.802†	91.9	-18.9	-0.0008	mg/L	-0.0008	mg/L	14:17:56
2	Co 228.616†	-134.7	32.1	-0.0014	mg/L	-0.0014	mg/L	14:17:56
2	Cr 267.716†	498.0	-624.4	-0.0009	mg/L	-0.0009	mg/L	14:17:35
2	Cu 324.752†	50.5	-2334.9	0.0051	mg/L	0.0051	mg/L	14:17:35
2	Fe 234.349†	4143239.4	4633618.1	89.39	mg/L	89.39	mg/L	14:17:30

2	Fe 238.204†	9096943.0	10174980.2	85.66 mg/L	85.66 mg/L	14:17:23
2	Mg 279.077†	5285090.2	5912099.1	230.7 mg/L	230.7 mg/L	14:17:30
2	Mn 257.610†	6539.8	3559.7	0.0007 mg/L	0.0007 mg/L	14:17:35
2	Mo 202.031†	212.9	204.3	0.0115 mg/L	0.0115 mg/L	14:17:56
2	Ni 231.604†	45.6	15.4	-0.0021 mg/L	-0.0021 mg/L	14:17:56
2	P 214.914†	-73.6	-129.0	-0.0924 mg/L	-0.0924 mg/L	14:17:56
2	Pb 220.353†	-560.3	-461.8	-0.0108 mg/L	-0.0108 mg/L	14:17:56
2	Sb 206.836†	4.5	-5.8	-0.0062 mg/L	-0.0062 mg/L	14:17:56
2	Se 196.026†	14.6	23.8	0.0269 mg/L	0.0269 mg/L	14:17:56
2	Sn 189.927†	-21.7	-262.9	-0.0698 mg/L	-0.0698 mg/L	14:17:56
2	Sr 407.771†	23307.0	19484.2	0.0005 mg/L	0.0005 mg/L	14:17:35
2	Ti 337.279†	1903.5	4218.3	0.0039 mg/L	0.0039 mg/L	14:17:35
2	Tl 190.801†	62.6	67.9	0.0539 mg/L	0.0539 mg/L	14:17:56
2	V 292.402†	1657.1	3438.3	0.0003 mg/L	0.0003 mg/L	14:17:35
2	Zn 213.857†	2178.0	1801.8	0.0140 mg/L	0.0140 mg/L	14:17:56

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3261520.4	0.892	mg/L	0.0019				0.22%
Ag 328.068†	-1238.8	-0.0017	mg/L	0.00007	-0.0017	mg/L	0.00007	4.43%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	2236084.1	248.3	mg/L	0.06	248.3	mg/L	0.06	0.02%
QC value within limits for Al 237.313 Recovery = 99.32%								
As 188.979†	7.2	0.0088	mg/L	0.00096	0.0088	mg/L	0.00096	10.92%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	26.0	0.0607	mg/L	0.00395	0.0607	mg/L	0.00395	6.51%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	243.5	-0.0005	mg/L	0.00020	-0.0005	mg/L	0.00020	37.12%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-2373.1	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	35.61%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	34464756.0	237.5	mg/L	0.80	237.5	mg/L	0.80	0.34%
QC value within limits for Ca 315.886 Recovery = 94.98%								
Cd 228.802†	-29.0	-0.0011	mg/L	0.00037	-0.0011	mg/L	0.00037	34.43%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	29.5	-0.0014	mg/L	0.00010	-0.0014	mg/L	0.00010	6.85%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-558.2	-0.0005	mg/L	0.00061	-0.0005	mg/L	0.00061	117.44%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-2388.1	0.0050	mg/L	0.00024	0.0050	mg/L	0.00024	4.87%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	4640568.9	89.53	mg/L	0.190	89.53	mg/L	0.190	0.21%
QC value within limits for Fe 234.349 Recovery = 89.53%								
Fe 238.204†	10159251.4	85.53	mg/L	0.187	85.53	mg/L	0.187	0.22%
QC value within limits for Fe 238.204 Recovery = 85.53%								
K 766.490†	262.5	0.1205	mg/L	0.02854	0.1205	mg/L	0.02854	23.68%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	44.5	-0.0033	mg/L	0.00042	-0.0033	mg/L	0.00042	12.76%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	5901233.3	230.3	mg/L	0.60	230.3	mg/L	0.60	0.26%
QC value within limits for Mg 279.077 Recovery = 92.11%								
Mn 257.610†	3688.0	0.0009	mg/L	0.00020	0.0009	mg/L	0.00020	22.67%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	220.4	0.0126	mg/L	0.00153	0.0126	mg/L	0.00153	12.14%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-2286.3	-0.4173	mg/L	0.00096	-0.4173	mg/L	0.00096	0.23%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	13.5	-0.0022	mg/L	0.00009	-0.0022	mg/L	0.00009	3.99%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 214.914†	-129.8	-0.0929	mg/L	0.00079	-0.0929	mg/L	0.00079	0.85%
QC value within limits for P 214.914 Recovery = Not calculated								
Pb 220.353†	-452.2	-0.0097	mg/L	0.00154	-0.0097	mg/L	0.00154	15.83%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-2.0	-0.0043	mg/L	0.00265	-0.0043	mg/L	0.00265	61.85%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	19.8	0.0219	mg/L	0.00713	0.0219	mg/L	0.00713	32.62%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-252.0	-0.0668	mg/L	0.00422	-0.0668	mg/L	0.00422	6.32%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated								
Sr 407.771†	19519.9	0.0005	mg/L	0.00000	0.0005	mg/L	0.00000	0.43%

QC value within limits for Sr 407.771 Recovery = Not calculated

Ti 337.279†	4239.4	0.0040 mg/L	0.00004	0.0040 mg/L	0.00004	0.95%

QC value within limits for Ti 337.279 Recovery = Not calculated

Tl 190.801†	63.0	0.0500 mg/L	0.00544	0.0500 mg/L	0.00544	10.86%

QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated

V 292.402†	3470.6	0.0004 mg/L	0.00018	0.0004 mg/L	0.00018	42.64%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857†	1803.4	0.0140 mg/L	0.00001	0.0140 mg/L	0.00001	0.10%

QC value within limits for Zn 213.857 Recovery = Not calculated

QC Failed. Continue with analysis.

Sequence No.: 55
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 159
Date Collected: 6/30/2006 2:19:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	K 766.490†	834.6	206.0	0.0845	mg/L	0.0845	mg/L	14:21:08
1	Li 670.784†	175.5	48.0	-0.0032	mg/L	-0.0032	mg/L	14:21:08
1	Na 589.592	3707.6	-2409.4	-0.4330	mg/L	-0.4330	mg/L	14:21:08
1	Y 371.029	3240259.5	3240259.5	0.887	mg/L			14:21:36
1	Ag 328.068†	126084.2	144831.2	0.4996	mg/L	0.4996	mg/L	14:21:41
1	Al 237.313†	2013173.7	2270499.0	252.1	mg/L	252.1	mg/L	14:21:36
1	As 188.979†	8.7	3.8	0.0038	mg/L	0.0038	mg/L	14:22:01
1	B 182.528†	18.5	25.4	0.0595	mg/L	0.0595	mg/L	14:22:01
1	Ba 233.527†	24686.9	27991.8	0.2286	mg/L	0.2286	mg/L	14:21:41
1	Be 313.107†	1062446.8	1195666.8	0.2412	mg/L	0.2412	mg/L	14:21:36
1	Ca 315.886†	31081553.3	35052473.9	241.5	mg/L	241.5	mg/L	14:21:28
1	Cd 228.802†	15596.6	17468.2	0.4403	mg/L	0.4403	mg/L	14:21:41
1	Co 228.616†	6881.3	7943.6	0.2094	mg/L	0.2094	mg/L	14:22:01
1	Cr 267.716†	32021.7	34932.7	0.2257	mg/L	0.2257	mg/L	14:21:41
1	Cu 324.752†	55843.9	60589.7	0.2353	mg/L	0.2353	mg/L	14:21:41
1	Fe 234.349†	4172390.3	4704079.7	90.75	mg/L	90.75	mg/L	14:21:36
1	Fe 238.204†	9165161.8	10334440.1	87.01	mg/L	87.01	mg/L	14:21:28
1	Mg 279.077†	5307673.8	5985512.3	233.6	mg/L	233.6	mg/L	14:21:36
1	Mn 257.610†	188184.6	208479.2	0.2278	mg/L	0.2278	mg/L	14:21:41
1	Mo 202.031†	228.7	224.0	0.0129	mg/L	0.0129	mg/L	14:22:01
1	Ni 231.604†	11317.6	12728.5	0.4052	mg/L	0.4052	mg/L	14:21:41
1	P 214.914†	-17.9	-66.8	-0.0480	mg/L	-0.0480	mg/L	14:22:01
1	Pb 220.353†	2972.8	3517.8	0.4370	mg/L	0.4370	mg/L	14:22:01
1	Sb 206.836†	15.3	6.5	-0.0038	mg/L	-0.0038	mg/L	14:22:01
1	Se 196.026†	16.0	25.5	0.0291	mg/L	0.0291	mg/L	14:22:01
1	Sn 189.927†	-2.3	-241.3	-0.0638	mg/L	-0.0638	mg/L	14:22:01
1	Sr 407.771†	22412.3	18686.6	0.0005	mg/L	0.0005	mg/L	14:21:41
1	Ti 337.279†	1817.1	4138.2	0.0038	mg/L	0.0038	mg/L	14:21:41
1	Tl 190.801†	53.3	58.0	0.0478	mg/L	0.0478	mg/L	14:22:01
1	V 292.402†	54721.1	63299.2	0.2285	mg/L	0.2285	mg/L	14:21:41
1	Zn 213.857†	32521.2	36042.8	0.4623	mg/L	0.4623	mg/L	14:21:41
2	K 766.490†	837.9	209.6	0.0867	mg/L	0.0867	mg/L	14:21:14
2	Li 670.784†	176.6	49.1	-0.0032	mg/L	-0.0032	mg/L	14:21:14
2	Na 589.592	3766.9	-2350.1	-0.4255	mg/L	-0.4255	mg/L	14:21:14
2	Y 371.029	3240909.0	3240909.0	0.887	mg/L			14:22:20
2	Ag 328.068†	127267.3	146136.8	0.5041	mg/L	0.5041	mg/L	14:22:26
2	Al 237.313†	2020333.2	2278117.0	253.0	mg/L	253.0	mg/L	14:22:20
2	As 188.979†	10.8	6.2	0.0070	mg/L	0.0070	mg/L	14:22:46
2	B 182.528†	20.9	28.1	0.0657	mg/L	0.0657	mg/L	14:22:46
2	Ba 233.527†	24946.8	28279.2	0.2310	mg/L	0.2310	mg/L	14:22:26
2	Be 313.107†	1064946.1	1198244.9	0.2417	mg/L	0.2417	mg/L	14:22:20
2	Ca 315.886†	31013443.9	34968650.7	240.9	mg/L	240.9	mg/L	14:22:12
2	Cd 228.802†	15792.1	17685.2	0.4458	mg/L	0.4458	mg/L	14:22:26
2	Co 228.616†	6817.4	7870.1	0.2074	mg/L	0.2074	mg/L	14:22:46
2	Cr 267.716†	32286.5	35224.1	0.2276	mg/L	0.2276	mg/L	14:22:26
2	Cu 324.752†	56315.0	61108.3	0.2373	mg/L	0.2373	mg/L	14:22:26
2	Fe 234.349†	4197993.5	4732006.4	91.29	mg/L	91.29	mg/L	14:22:20
2	Fe 238.204†	9154531.9	10320382.7	86.89	mg/L	86.89	mg/L	14:22:12
2	Mg 279.077†	5320784.1	5999095.8	234.1	mg/L	234.1	mg/L	14:22:20
2	Mn 257.610†	190405.6	210941.0	0.2306	mg/L	0.2306	mg/L	14:22:26

2	Mo 202.031†	234.1	230.1	0.0133 mg/L	0.0133 mg/L	14:22:46
2	Ni 231.604†	11398.8	12817.6	0.4081 mg/L	0.4081 mg/L	14:22:26
2	P 214.914†	-28.3	-78.6	-0.0564 mg/L	-0.0564 mg/L	14:22:46
2	Pb 220.353†	2953.0	3494.7	0.4345 mg/L	0.4345 mg/L	14:22:46
2	Sb 206.836†	9.6	-0.0	-0.0070 mg/L	-0.0070 mg/L	14:22:46
2	Se 196.026†	17.2	26.8	0.0308 mg/L	0.0308 mg/L	14:22:46
2	Sn 189.927†	-13.8	-254.3	-0.0674 mg/L	-0.0674 mg/L	14:22:46
2	Sr 407.771†	22742.3	19053.6	0.0005 mg/L	0.0005 mg/L	14:22:26
2	Ti 337.279†	1978.7	4320.0	0.0041 mg/L	0.0041 mg/L	14:22:26
2	Tl 190.801†	48.2	52.2	0.0433 mg/L	0.0433 mg/L	14:22:46
2	V 292.402†	55365.1	64013.0	0.2311 mg/L	0.2311 mg/L	14:22:26
2	Zn 213.857†	32807.8	36358.6	0.4664 mg/L	0.4664 mg/L	14:22:26

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3240584.2	0.887	mg/L	0.0001				0.01%
Ag 328.068†	145484.0	0.5019	mg/L	0.00318	0.5019	mg/L	0.00318	0.63%
QC value within limits for Ag 328.068 Recovery = 100.38%								
Al 237.313†	2274308.0	252.6	mg/L	0.60	252.6	mg/L	0.60	0.24%
QC value within limits for Al 237.313 Recovery = 101.02%								
As 188.979†	5.0	0.0054	mg/L	0.00229	0.0054	mg/L	0.00229	42.19%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	26.8	0.0626	mg/L	0.00445	0.0626	mg/L	0.00445	7.11%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	28135.5	0.2298	mg/L	0.00168	0.2298	mg/L	0.00168	0.73%
QC value within limits for Ba 233.527 Recovery = 91.91%								
Be 313.107†	1196955.9	0.2415	mg/L	0.00037	0.2415	mg/L	0.00037	0.15%
QC value within limits for Be 313.107 Recovery = 96.59%								
Ca 315.886†	35010562.3	241.2	mg/L	0.41	241.2	mg/L	0.41	0.17%
QC value within limits for Ca 315.886 Recovery = 96.49%								
Cd 228.802†	17576.7	0.4430	mg/L	0.00384	0.4430	mg/L	0.00384	0.87%
QC value within limits for Cd 228.802 Recovery = 88.61%								
Co 228.616†	7906.8	0.2084	mg/L	0.00139	0.2084	mg/L	0.00139	0.67%
QC value within limits for Co 228.616 Recovery = 83.36%								
Cr 267.716†	35078.4	0.2266	mg/L	0.00133	0.2266	mg/L	0.00133	0.59%
QC value within limits for Cr 267.716 Recovery = 90.66%								
Cu 324.752†	60849.0	0.2363	mg/L	0.00141	0.2363	mg/L	0.00141	0.60%
QC value within limits for Cu 324.752 Recovery = 94.51%								
Fe 234.349†	4718043.1	91.02	mg/L	0.381	91.02	mg/L	0.381	0.42%
QC value within limits for Fe 234.349 Recovery = 91.02%								
Fe 238.204†	10327411.4	86.95	mg/L	0.084	86.95	mg/L	0.084	0.10%
QC value within limits for Fe 238.204 Recovery = 86.95%								
K 766.490†	207.8	0.0856	mg/L	0.00162	0.0856	mg/L	0.00162	1.89%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	48.6	-0.0032	mg/L	0.00003	-0.0032	mg/L	0.00003	0.79%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	5992304.1	233.8	mg/L	0.37	233.8	mg/L	0.37	0.16%
QC value within limits for Mg 279.077 Recovery = 93.54%								
Mn 257.610†	209710.1	0.2292	mg/L	0.00193	0.2292	mg/L	0.00193	0.84%
QC value within limits for Mn 257.610 Recovery = 91.68%								
Mo 202.031†	227.1	0.0131	mg/L	0.00029	0.0131	mg/L	0.00029	2.20%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-2379.7	-0.4292	mg/L	0.00535	-0.4292	mg/L	0.00535	1.25%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	12773.1	0.4066	mg/L	0.00202	0.4066	mg/L	0.00202	0.50%
QC value within limits for Ni 231.604 Recovery = 81.33%								
P 214.914†	-72.7	-0.0522	mg/L	0.00595	-0.0522	mg/L	0.00595	11.38%
QC value within limits for P 214.914 Recovery = Not calculated								
Pb 220.353†	3506.2	0.4357	mg/L	0.00173	0.4357	mg/L	0.00173	0.40%
QC value within limits for Pb 220.353 Recovery = 87.15%								
Sb 206.836†	3.2	-0.0054	mg/L	0.00228	-0.0054	mg/L	0.00228	42.38%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	26.1	0.0299	mg/L	0.00122	0.0299	mg/L	0.00122	4.08%
QC value greater than the upper limit for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-247.8	-0.0656	mg/L	0.00251	-0.0656	mg/L	0.00251	3.82%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated								
Sr 407.771†	18870.1	0.0005	mg/L	0.00001	0.0005	mg/L	0.00001	2.33%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Ti 337.279†	4229.1	0.0040	mg/L	0.00016	0.0040	mg/L	0.00016	4.09%
QC value within limits for Ti 337.279 Recovery = Not calculated								

Tl 190.801†	55.1	0.0456 mg/L	0.00318	0.0456 mg/L	0.00318	6.98%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	63656.1	0.2298 mg/L	0.00188	0.2298 mg/L	0.00188	0.82%	
QC value within limits for V 292.402 Recovery = 91.92%							
Zn 213.857†	36200.7	0.4644 mg/L	0.00290	0.4644 mg/L	0.00290	0.62%	
QC value within limits for Zn 213.857 Recovery = 92.87%							

QC Failed. Continue with analysis.

Sequence No.: 56
Sample ID: WASH
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 6/30/2006 2:24:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: WASH

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	654.5	-62.0	-0.0869	mg/L	-0.0869	mg/L	14:25:54
1	Li 670.784†	168.4	23.3	-0.0040	mg/L	-0.0040	mg/L	14:25:54
1	Na 589.592	3508.2	-2608.7	-0.4585	mg/L	-0.4585	mg/L	14:25:54
1	Y 371.029	3552876.8	3552876.8	0.972	mg/L			14:26:08
1	Ag 328.068†	-2966.2	-418.2	-0.0024	mg/L	-0.0024	mg/L	14:26:13
1	Al 237.313†	158.1	192.3	0.0160	mg/L	0.0160	mg/L	14:26:33
1	As 188.979†	5.9	0.1	-0.0010	mg/L	-0.0010	mg/L	14:26:33
1	B 182.528†	-1.5	3.0	0.0074	mg/L	0.0074	mg/L	14:26:33
1	Ba 233.527†	-133.9	12.0	-0.0024	mg/L	-0.0024	mg/L	14:26:33
1	Be 313.107†	2591.3	98.3	-0.0001	mg/L	-0.0001	mg/L	14:26:13
1	Ca 315.886†	7998.8	6739.7	0.0349	mg/L	0.0349	mg/L	14:26:13
1	Cd 228.802†	123.6	5.4	-0.0008	mg/L	-0.0008	mg/L	14:26:33
1	Co 228.616†	-187.5	-10.0	-0.0025	mg/L	-0.0025	mg/L	14:26:33
1	Cr 267.716†	1220.7	74.0	-0.0018	mg/L	-0.0018	mg/L	14:26:13
1	Cu 324.752†	2062.9	-269.5	-0.0034	mg/L	-0.0034	mg/L	14:26:13
1	Fe 234.349†	2253.6	751.0	0.0028	mg/L	0.0028	mg/L	14:26:13
1	Fe 238.204†	3935.7	1964.0	0.0015	mg/L	0.0015	mg/L	14:26:33
1	Mg 279.077†	1063.7	580.3	-0.0119	mg/L	-0.0119	mg/L	14:26:13
1	Mn 257.610†	3611.2	-42.2	-0.0032	mg/L	-0.0032	mg/L	14:26:13
1	Mo 202.031†	48.1	15.5	-0.0011	mg/L	-0.0011	mg/L	14:26:33
1	Ni 231.604†	39.2	4.8	-0.0025	mg/L	-0.0025	mg/L	14:26:33
1	P 214.914†	73.8	29.3	0.0206	mg/L	0.0206	mg/L	14:26:33
1	Pb 220.353†	-142.6	18.3	-0.0021	mg/L	-0.0021	mg/L	14:26:33
1	Sb 206.836†	10.3	-0.2	-0.0035	mg/L	-0.0035	mg/L	14:26:33
1	Se 196.026†	-12.1	-5.0	-0.0098	mg/L	-0.0098	mg/L	14:26:33
1	Sn 189.927†	132.1	-102.8	-0.0297	mg/L	-0.0297	mg/L	14:26:33
1	Sr 407.771†	8419.7	2070.0	-0.0003	mg/L	-0.0003	mg/L	14:26:08
1	Ti 337.279†	-1704.9	335.2	-0.0009	mg/L	-0.0009	mg/L	14:26:13
1	Tl 190.801†	-4.3	-6.6	-0.0042	mg/L	-0.0042	mg/L	14:26:33
1	V 292.402†	-1481.0	61.1	-0.0012	mg/L	-0.0012	mg/L	14:26:13
1	Zn 213.857†	677.0	61.5	-0.0009	mg/L	-0.0009	mg/L	14:26:33
2	K 766.490†	639.8	-89.8	-0.1047	mg/L	-0.1047	mg/L	14:26:00
2	Li 670.784†	133.0	-15.8	-0.0052	mg/L	-0.0052	mg/L	14:26:00
2	Na 589.592	3508.9	-2608.1	-0.4584	mg/L	-0.4584	mg/L	14:26:00
2	Y 371.029	3622464.6	3622464.6	0.991	mg/L			14:26:39
2	Ag 328.068†	-2990.1	-383.8	-0.0023	mg/L	-0.0023	mg/L	14:26:44
2	Al 237.313†	137.6	168.6	0.0134	mg/L	0.0134	mg/L	14:27:05
2	As 188.979†	7.6	1.6	0.0011	mg/L	0.0011	mg/L	14:27:05
2	B 182.528†	-0.2	4.4	0.0105	mg/L	0.0105	mg/L	14:27:05
2	Ba 233.527†	-153.1	-4.7	-0.0026	mg/L	-0.0026	mg/L	14:27:05
2	Be 313.107†	2571.4	27.1	-0.0001	mg/L	-0.0001	mg/L	14:26:44
2	Ca 315.886†	7343.4	5920.5	0.0292	mg/L	0.0292	mg/L	14:26:44
2	Cd 228.802†	133.1	12.6	-0.0006	mg/L	-0.0006	mg/L	14:27:05
2	Co 228.616†	-170.9	10.5	-0.0019	mg/L	-0.0019	mg/L	14:27:05
2	Cr 267.716†	1135.3	-36.2	-0.0026	mg/L	-0.0026	mg/L	14:26:44
2	Cu 324.752†	2104.5	-268.4	-0.0034	mg/L	-0.0034	mg/L	14:26:44
2	Fe 234.349†	2252.5	705.4	0.0019	mg/L	0.0019	mg/L	14:26:44
2	Fe 238.204†	3746.4	1695.3	-0.0008	mg/L	-0.0008	mg/L	14:27:05
2	Mg 279.077†	904.0	398.1	-0.0190	mg/L	-0.0190	mg/L	14:26:44
2	Mn 257.610†	3606.2	-118.5	-0.0033	mg/L	-0.0033	mg/L	14:26:44
2	Mo 202.031†	35.4	1.8	-0.0020	mg/L	-0.0020	mg/L	14:27:05
2	Ni 231.604†	31.4	-3.8	-0.0027	mg/L	-0.0027	mg/L	14:27:05
2	P 214.914†	58.3	12.2	0.0083	mg/L	0.0083	mg/L	14:27:05

ANALYSIS SEQUENCE

BPG0225

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0225-CAL1	QC		5		6F28044		
BPG0225-CAL2	QC		6		6F28010		
BPG0225-CAL3	QC		7		6F28011		
BPG0225-CAL4	QC		8		6F28012		
BPG0225-CAL5	QC		9		6F28013		
BPG0225-ICV1	QC		10		6F28012		
BPG0225-CCB1	QC		11		6F28014		
BPG0225-CCV1	QC		12		6F28012		
BPG0225-SCV1	QC		13				
BPG0225-ICB1	QC		14				
BF62317-BLK2	QC		15				
BF62317-BS2	QC		16				
BF62317-BSD2	QC		17				
BF62317-SRM2	QC		18				
BF62317-DUP3	QC		19				
BF62317-MS3	QC		20				
BF62317-PS3	QC		21				
BF62317-DUP4	QC		22				
BF62317-MS4	QC		23				
BPG0225-CCB2	QC		24				
BPG0225-CCV2	QC		25		6F28012		
BF62317-PS4	QC		26				
0606373-01	As: ppm Arsenic 7060	F	27				MACTEC Engineering & Consulting, In
0606373-01	Tl: ppm Thallium 7841	F	27				MACTEC Engineering & Consulting, In
0606373-02	Tl: ppm Thallium 7841	F	28				MACTEC Engineering & Consulting, In
0606373-02	As: ppm Arsenic 7060	F	28				MACTEC Engineering & Consulting, In
0606373-03	As: ppm Arsenic 7060	F	29				MACTEC Engineering & Consulting, In
0606373-03	Tl: ppm Thallium 7841	F	29				MACTEC Engineering & Consulting, In
0606373-04	Tl: ppm Thallium 7841	F	30				MACTEC Engineering & Consulting, In
0606373-04	As: ppm Arsenic 7060	F	30				MACTEC Engineering & Consulting, In
0606373-05	As: ppm Arsenic 7060	F	31				MACTEC Engineering & Consulting, In
0606373-05	Tl: ppm Thallium 7841	F	31				MACTEC Engineering & Consulting, In
0606373-06	As: ppm Arsenic 7060	F	32				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0225

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606373-06	Tl: ppm Thallium 7841	F	32				MACTEC Engineering & Consulting, In
0606373-07	Tl: ppm Thallium 7841	F	33				MACTEC Engineering & Consulting, In
0606373-07	As: ppm Arsenic 7060	F	33				MACTEC Engineering & Consulting, In
0606373-08	Tl: ppm Thallium 7841	F	34				MACTEC Engineering & Consulting, In
0606373-08	As: ppm Arsenic 7060	F	34				MACTEC Engineering & Consulting, In
0606373-09	Tl: ppm Thallium 7841	F	35				MACTEC Engineering & Consulting, In
0606373-09	As: ppm Arsenic 7060	F	35				MACTEC Engineering & Consulting, In
BPG0225-CCB3	QC		36				
BPG0225-CCV3	QC		37		6F28012		
0606373-10	Tl: ppm Thallium 7841	F	38				MACTEC Engineering & Consulting, In
0606373-10	As: ppm Arsenic 7060	F	38				MACTEC Engineering & Consulting, In
0606373-12	Tl: ppm Thallium 7841	F	39				MACTEC Engineering & Consulting, In
0606373-12	As: ppm Arsenic 7060	F	39				MACTEC Engineering & Consulting, In
0606373-13	Tl: ppm Thallium 7841	F	40				MACTEC Engineering & Consulting, In
0606373-13	As: ppm Arsenic 7060	F	40				MACTEC Engineering & Consulting, In
0606373-14	As: ppm Arsenic 7060	F	41				MACTEC Engineering & Consulting, In
0606373-14	Tl: ppm Thallium 7841	F	41				MACTEC Engineering & Consulting, In
0606373-15	Tl: ppm Thallium 7841	F	42				MACTEC Engineering & Consulting, In
0606373-15	As: ppm Arsenic 7060	F	42				MACTEC Engineering & Consulting, In
0606373-16	As: ppm Arsenic 7060	F	43				MACTEC Engineering & Consulting, In
0606373-16	Tl: ppm Thallium 7841	F	43				MACTEC Engineering & Consulting, In
0606373-17	As: ppm Arsenic 7060	F	44				MACTEC Engineering & Consulting, In
0606373-17	Tl: ppm Thallium 7841	F	44				MACTEC Engineering & Consulting, In
0606373-18	Tl: ppm Thallium 7841	F	45				MACTEC Engineering & Consulting, In
0606373-18	As: ppm Arsenic 7060	F	45				MACTEC Engineering & Consulting, In
0606373-19	As: ppm Arsenic 7060	F	46				MACTEC Engineering & Consulting, In
0606373-19	Tl: ppm Thallium 7841	F	46				MACTEC Engineering & Consulting, In
BPG0225-SRD1	QC		47				
BPG0225-CCB4	QC		48				
BPG0225-CCV4	QC		49		6F28012		
BPG0225-SRD2	QC		50				
BF62320-BLK2	QC		51				
BF62320-BS2	QC		52				

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0225

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BF62320-BSD2	QC		53				
BF62320-SRM2	QC		54				
BF62320-DUP3	QC		55				
BF62320-MS3	QC		56				
BF62320-PS3	QC		57				
BF62320-DUP4	QC		58				
BF62320-MS4	QC		59				
BPG0225-CCB5	QC		60				
BPG0225-CCV5	QC		61		6F28012		
BF62320-PS4	QC		62				
0606373-20	Tl: ppm Thallium 7841	F	63				MACTEC Engineering & Consulting, In
0606373-21	Tl: ppm Thallium 7841	F	64				MACTEC Engineering & Consulting, In
0606374-01	As: ppm Arsenic 7060	F	65				MACTEC Engineering & Consulting, In
0606374-01	Tl: ppm Thallium 7841	F	65				MACTEC Engineering & Consulting, In
0606374-02	Tl: ppm Thallium 7841	F	66				MACTEC Engineering & Consulting, In
0606374-02	As: ppm Arsenic 7060	F	66				MACTEC Engineering & Consulting, In
0606374-03	As: ppm Arsenic 7060	F	67				MACTEC Engineering & Consulting, In
0606374-03	Tl: ppm Thallium 7841	F	67				MACTEC Engineering & Consulting, In
0606374-03RE1	As: ppm Arsenic 7060	F	68				MACTEC Engineering & Consulting, In
0606374-04	As: ppm Arsenic 7060	F	69				MACTEC Engineering & Consulting, In
0606374-04	Tl: ppm Thallium 7841	F	69				MACTEC Engineering & Consulting, In
0606374-05	As: ppm Arsenic 7060	F	70				MACTEC Engineering & Consulting, In
0606374-05	Tl: ppm Thallium 7841	F	70				MACTEC Engineering & Consulting, In
0606374-06	Tl: ppm Thallium 7841	F	71				MACTEC Engineering & Consulting, In
0606374-06	As: ppm Arsenic 7060	F	71				MACTEC Engineering & Consulting, In
BPG0225-CCB6	QC		72				
BPG0225-CCV6	QC		73		6F28012		
0606374-07	Tl: ppm Thallium 7841	F	74				MACTEC Engineering & Consulting, In
0606374-08	Tl: ppm Thallium 7841	F	75				MACTEC Engineering & Consulting, In
0606374-09	Tl: ppm Thallium 7841	F	76				MACTEC Engineering & Consulting, In
0606374-10	Tl: ppm Thallium 7841	F	77				MACTEC Engineering & Consulting, In
0606374-11	Tl: ppm Thallium 7841	F	78				MACTEC Engineering & Consulting, In
0606374-12	Tl: ppm Thallium 7841	F	79				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0225

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606374-13	Tl: ppm Thallium 7841	F	80				MACTEC Engineering & Consulti
0606374-14	Tl: ppm Thallium 7841	F	81				MACTEC Engineering & Consulti
0606374-15	Tl: ppm Thallium 7841	F	82				MACTEC Engineering & Consulti
0606374-16	Tl: ppm Thallium 7841	F	83				MACTEC Engineering & Consulti
BPG0225-CCB7	QC		84				
BPG0225-CCV7	QC		85		6F28012		
BPG0225-SRD3	QC		86				
BPG0225-SRD4	QC		87				
BF62617-BLK2	QC		88				
BF62617-BS2	QC		89				
BF62617-BSD2	QC		90				
BF62617-SRM2	QC		91				
BF62617-PS3	QC		92				
BF62617-DUP3	QC		93				
BF62617-MS3	QC		94				
BF62617-DUP4	QC		95				
BPG0225-CCB8	QC		96				
BPG0225-CCV8	QC		97		6F28012		
BF62617-MS4	QC		98				
BF62617-PS4	QC		99				
0606383-14	Tl: ppm Thallium 7841	E	100				MACTEC Engineering & Consulti
0606383-13	Tl: ppm Thallium 7841	E	101				MACTEC Engineering & Consulti
0606383-12	Tl: ppm Thallium 7841	E	102				MACTEC Engineering & Consulti
0606383-11	Tl: ppm Thallium 7841	E	103				MACTEC Engineering & Consulti
0606383-10	Tl: ppm Thallium 7841	G	104				MACTEC Engineering & Consulti
0606383-09	Tl: ppm Thallium 7841	E	105				MACTEC Engineering & Consulti
0606383-08	Tl: ppm Thallium 7841	E	106				MACTEC Engineering & Consulti
0606383-07	Tl: ppm Thallium 7841	G	107				MACTEC Engineering & Consulti
BPG0225-CCB9	QC		108				
BPG0225-CCV9	QC		109		6F28012		
0606383-06	Tl: ppm Thallium 7841	E	110				MACTEC Engineering & Consulti
0606383-05	Tl: ppm Thallium 7841	G	111				MACTEC Engineering & Consulti
0606383-04	Tl: ppm Thallium 7841	E	112				MACTEC Engineering & Consulti

Samples Loaded By Date Data Processed By Date

ANALYSIS SEQUENCE

BPG0225

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606383-03	Tl: ppm Thallium 7841	G	113				MACTEC Engineering & Consulting, In
0606383-02	Tl: ppm Thallium 7841	E	114				MACTEC Engineering & Consulting, In
0606383-01	Tl: ppm Thallium 7841	G	115				MACTEC Engineering & Consulting, In
BPG0225-SRD5	QC		116				
BPG0225-SRD6	QC		117				
BPG0225-CCBA	QC		118				
BPG0225-CCVA	QC		119		6F28012		

Samples Loaded By Date Data Processed By Date

ESS LABORATORY
GFAA Data Review Check List

SIF Method: Pb Tl2 Tl5 As Sb sequential **Run Date:** 6/28/06

Project Number(s): 06346-05d,06d, ~~375~~, 361,373,374,360,383,405, 428, 430, 429

Batch Number (s): 062806A

SOP NO. 30_2009

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the cal curve consist of four Calibration Standards including a blank and is its correlation within QC limits (≥0.995)?	X		
2. Is the low calibration standard at the reporting limit?	X		
3. If the low standard is above the reporting limit, is a CRI analyzed at the beginning of the run? Does the recovery meet QC limits(80-120%)?			X
4. Is the midpoint calibration standard reanalyzed immediately after the curve and is it within QC limits of 90-110% (± 5% for 200.9)?	X		
5. Is the ICV from a second source and is its recovery within QC limits (90-110%)	X		
6. Is the mid-point calibration standard re-analyzed every 10 samples and at the end of the run and are its recoveries within QC limits (90-110%)?		X	
7. Is the CCB analyzed at beginning, after every 10 samples and at end of the run and are its recoveries within QC limits (<2xMDL)?	X		
8. Are the method blank recoveries within QC limits?		X	
9. Are the LCS and ERA recoveries within QC limits (LCS: 80-120% for 7000, 85-115% for 200.9, ERA see COA)?	X		
10. Are matrix dups run at desired frequency (1 per 10 samples or per analytical batch) and are RPD's within QC limits (<20%)?	X		
11. Are matrix spikes run at desired frequency frequency (1 per 10 samples or per analytical batch) and are recoveries within QC limits (80-120%)?	X		
12. Are all samples with concentrations > the highest calibration standard diluted and reanalyzed?	X		
13. Has the serial dilution been analyzed at the required frequency (once per analytical batch) and are results within criterion (± 10%RPD)?	X		
14. Is the batch post digestion spike within QC limits (85-115%)?	X		
15. Are all sample hold times met?	X		
16. Are all non-conformances included and noted?	X		
17. Is the correct methodology used for sample prep and analysis?	X		
18. Are all calculations checked?	X		
19. Did analyst sign/date appropriate printouts and report sheets?	X		
20. Are all samples located in the correct auto-sampler locations?	X		

Comments on any "No" response:

Pb - Blank hits redigest all smps w/ hits

Tl2 - OK (Rla329-03d5), Tl5 - CCVs out high - smps ND

As - 06374-03 X15

Sb - OK

Analyst: [signature] Date: 6/30/06 2nd Rvw: [signature] Date: 6/30/06

Control Number: 30.0022-0602A Page _____

002

Autosampler Loading List

Sample Information File: 062806YA.SIF
Methods: Pb 2 ^ Tl 5 As 5 Sb 5 ~~Tl 2~~ 5 6/29/06
T/2

Location	Elements	Solution
1	Pb	Sample: BF62206-DUP2
2	Pb	Sample: 0606346-05DIS
3	Pb	Sample: 0606346-06DIS
4	Pb	Sample: BF62301-BLK1
5	Pb	Sample: BF62301-BS2
6	Pb	Sample: BF62301-BSD2
7	Pb	Sample: BF62302-BLK1
8	Pb	Sample: BF62302-DUP1
9	Pb	Sample: 0606375-01
10	Pb	Sample: BF62403-BLK1
11	Pb	Sample: BF62403-BS2
12	Pb	Sample: BF62403-BSD2
13	Pb	Sample: 0606407-01
14	Pb	Sample: 0606407-02
15	Pb	Sample: BF62403-DUP1
16	Pb	Sample: BF62403-MS3
17	Pb	Sample: BF62403-SD1
18	Pb	Sample: 0606407-03
19	Pb	Sample: 0606407-01DIS
20	Pb	Sample: 0606407-02DIS
21	Pb	Sample: 0606407-03DIS
22	Pb	Sample: 0606382-01
23	Tl,As	Sample: BF62317-BLK1
24	Tl,As	Sample: BF62317-BS1X20
25	Tl,As	Sample: BF62317-BSD1X20
26	Tl,As	Sample: BF62317-SRM1X50
27	Tl,As	Sample: 0606361-01X5
28	As, Tl	Sample: 0606361-02X5
29	Tl,As	Sample: 0606373-01X5
30	Tl,As	Sample: 0606373-02X5
31	Tl,As	Sample: 0606373-03X5
32	Tl,As	Sample: 0606373-04X5
33	Tl,As	Sample: 0606373-05X5
34	Tl,As	Sample: 0606373-06X5
35	Tl,As	Sample: 0606373-07X5
36	Tl,As	Sample: 0606373-08X5
37	Tl,As	Sample: BF62317-DUP1X5
38	Tl,As	Sample: BF62317-MS1X20
39	Tl,As	Sample: BF62317-SD1X25
40	Tl,As	Sample: 0606373-09X5
41	Tl,As	Sample: 0606373-10X5
42	Tl,As	Sample: 0606373-19X5
43	Tl,As	Sample: 0606373-12X5
44	Tl,As	Sample: 0606373-13X5
45	Tl,As	Sample: 0606373-14X5
46	Tl,As	Sample: 0606373-15X5
47	Tl,As	Sample: 0606373-16X5
48	Tl,As	Sample: 0606373-17X5
49	Tl,As	Sample: 0606373-18X5
50	Tl,As	Sample: BF62317-DUP2X5
51	Tl,As	Sample: BF62317-MS2X20
52	Tl,As	Sample: BF62317-SD2X25
53	Tl,As	Sample: BF62320-BLK1
54	Tl,As	Sample: BF62320-BS1X20
55	Tl,As	Sample: BF62320-BSD1X20
56	Tl,As	Sample: BF62320-SRM1X50
57	Tl,As	Sample: 0606374-01X5
58	Tl,As	Sample: 0606374-02X5
59	Tl,As	Sample: 0606374-03X5
60	Tl,As	Sample: 0606374-04X5
61	Tl,As	Sample: 0606374-05X5

→ As taken from loc 35-61 SP 6/30/06

62	Tl,As	Sample: 0606374-06X5
63	Tl,As	Sample: 0606374-07X5
64	Tl,As	Sample: 0606374-08X5
65	Tl,As	Sample: 0606374-09X5
66	Tl,As	Sample: 0606374-10X5
67	Tl,As	Sample: BF62320-DUP1X5
68	Tl,As	Sample: BF62320-MS1X20
69	Tl,As	Sample: BF62320-SD1X25
70	Tl,As	Sample: 0606374-11X5
71	Tl,As	Sample: 0606374-12X5
72	Tl,As	Sample: 0606374-13X5
73	Tl,As	Sample: 0606374-14X5
74	Tl,As	Sample: BF62320-DUP2X5
75	Tl,As	Sample: BF62320-MS2X20
76	Tl,As	Sample: BF62320-SD2X25
77	Tl,As	Sample: 0606374-15X5
78	Tl,As	Sample: 0606374-16X5
79	Tl,As	Sample: 0606373-20X5
80	Tl,As	Sample: 0606373-21X5
81	Tl,As	Sample: BF62713-BLK1
82	Tl,As	Sample: BF62713-BS1X20
83	Tl,As	Sample: BF62713-BSD1X20
84	Tl,As	Sample: BF62713-SRM1X50
85	Tl,As	Sample: 0606360-01X5
86	Tl,As	Sample: BF62617-BLK1
87	Tl,As	Sample: BF62617-BS1X20
88	Tl,As	Sample: BF62617-BSD1X20
89	Tl,As	Sample: BF62617-SRM1X50
90	Tl,As	Sample: 0606383-01X5
91	Tl,As	Sample: 0606383-02X5
92	Tl,As	Sample: 0606383-03X5
93	Tl,As	Sample: 0606383-04X5
94	Tl,As	Sample: 0606383-05X5
95	Tl,As	Sample: 0606383-06X5
96	Tl,As	Sample: 0606383-07X5
97	Tl,As	Sample: 0606383-08X5
98	Tl,As	Sample: 0606383-09X5
99	Tl,As	Sample: 0606383-10X5
100	Tl,As	Sample: 0606383-11X5
101	Tl,As	Sample: BF62617-DUP1X5
102	Tl,As	Sample: BF62617-MS1X20
103	Tl,As	Sample: BF62617-SD1X25
104	Tl,As	Sample: 0606383-12X5
105	Tl,As	Sample: 0606383-13X5
106	Tl,As	Sample: BF62617-DUP2X5
107	Tl,As	Sample: BF62617-MS2X20
108	Tl,As	Sample: BF62617-SD2X25
109	Tl,As	Sample: 0606383-14X5
110	Tl,As	Sample: 0606405-01X5
111	Tl,As	Sample: 0606405-02X5
112	Tl,As	Sample: 0606405-03X5
113	Tl,As	Sample: 0606405-04X5
114	Pb,As,Sb,Tl	Sample: BF62705-BLK1
115	Pb,As,Sb,Tl	Sample: BF62705-BS2
116	Pb,As,Sb,Tl	Sample: BF62705-BSD2
117	Pb,As	Sample: 0606428-01
118	Pb,As,Sb,Tl	Sample: 0606430-01
119	Pb,As,Sb,Tl	Sample: 0606430-02
120	Pb,As,Sb,Tl	Sample: BF62705-BLK2
121	Pb,Tl,As,Sb	Stock Standard: 5.0 µg/L
122	Pb,As,Sb,Tl	Sample: 0606429-01DIS
123	Pb,As,Sb,Tl	Sample: 0606429-02DIS
124	Pb,Tl,As,Sb	Stock Standard: 10.0 µg/L
	Tl	STD 3: 10.0000 µg/L
	Tl	CCV: 10.0000 µg/L
125	Pb,As,Sb,Tl	Sample: 0606429-03DIS
126	Pb,Tl,As,Sb	Stock Standard: 25.0 µg/L

	Pb,Tl,As,Sb	STD 3: 25.0000 µg/L
	Pb,Tl,As,Sb	CCV: 25.0000 µg/L
127	Pb,As,Sb,Tl	Sample: 0606429-04DIS
128	Pb,As,Sb,Tl	Sample: 0606429-05DIS
129	Pb,Tl,As,Sb	Stock Standard: 50.0 µg/L
130	Pb,As,Sb,Tl	Sample: 0606430-01DIS
131	Pb,Tl,As,Sb	Recovery Stock: 50.0 µg/L
132	Pb,As,Sb,Tl	Sample: 0606430-02DIS
133	Pb,As,Sb,Tl	Sample: BF62705-DUP2
134	Pb,Tl,As,Sb	ICV: 25.0000 µg/L
135	Pb,As,Sb,Tl	Sample: BF62705-MS4
136	Pb,Tl,As,Sb	CRA 2: 2.0000 µg/L
	Tl	Stock Standard: 2.0 µg/L
137	Pb,As,Sb,Tl	Sample: BF62705-SD2X5
139	Tl	ICV: 10.0000 µg/L
141	Pb	Standard 0
	Pb	ICB/CCB: 0.0000 µg/L
	Pb	Diluent
146	Pb	Modifier 2
147	Tl,As,Sb	Modifier 1
148	Tl,As,Sb	Standard 0
	Tl,As,Sb	ICB/CCB: 0.0000 µg/L
	Tl,As,Sb	Diluent

Method Name: Tl 5
Method Description: Tl 5
Element: Tl

Date: 06/29/2006
Technique:Furnace
Calibration Type:
Tl, Calc. Intercept : Linear
Wavelength: 276.8 nm
Energy: 100
Slit Width: 0.7
Lamp Current: 6 mA
Sample Info Name: 062806YA.SIF Results Data Set Name: 062806YAD

Element: Tl Seq. No.: 90 AS Loc.: 148 Date: 06/29/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0011	0.0011	0.0034	-0.0008	0.0031	12:44:30	No
2			0.0012	0.0012	0.0051	-0.0009	0.0055	12:47:19	No
Mean:			0.0011						
SD :			0.0001						
%RSD:			5.64						

Auto-zero performed.

Element: Tl Seq. No.: 91 AS Loc.: 121 Date: 06/29/2006
Sample ID: Standard 5
µL dispensed: 10 from 148, 5 from 147, 15 from 121

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0077	0.0089	0.0129	0.0036	0.0078	12:50:34	No
2			0.0077	0.0088	0.0133	0.0056	0.0102	12:53:25	No
Mean:			0.0077						
SD :			0.0001						
%RSD:			0.76						

[Tl] Standard number 1 applied. [5.0]
Correlation Coefficient: 1.00000 Slope: 0.00154
Intercept : 0.00000

Element: Tl Seq. No.: 92 AS Loc.: 124 Date: 06/29/2006
Sample ID: Standard 10
µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0165	0.0176	0.0230	0.0113	0.0146	12:56:42	No
2			0.0169	0.0180	0.0222	0.0104	0.0138	12:59:33	No
Mean:			0.0167						
SD :			0.0003						
%RSD:			1.70						

[Tl] Standard number 2 applied. [10.0]
Correlation Coefficient: 0.99908 Slope: 0.00167
Intercept : -0.00021

Element: Tl Seq. No.: 93 AS Loc.: 126 Date: 06/29/2006
Sample ID: Standard 25
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Bkgnd	Bkgnd	Time	Peak

#	µg/L	µg/L	Signal	Area	Height	Area	Height		Stored
1			0.0413	0.0424	0.0645	0.0271	0.0411	01:02:52	No
2			0.0438	0.0449	0.0581	0.0267	0.0356	01:05:44	No
Mean:			0.0426						
SD :			0.0018						
%RSD:			4.19						

[Tl] Standard number 3 applied. [25.0]
Correlation Coefficient: 0.99981 Slope: 0.00171
Intercept : -0.00041

Element: Tl Seq. No.: 94 AS Loc.: 129 Date: 06/29/2006
Sample ID: Standard 50
µL dispensed: 10 from 148, 5 from 147, 15 from 129

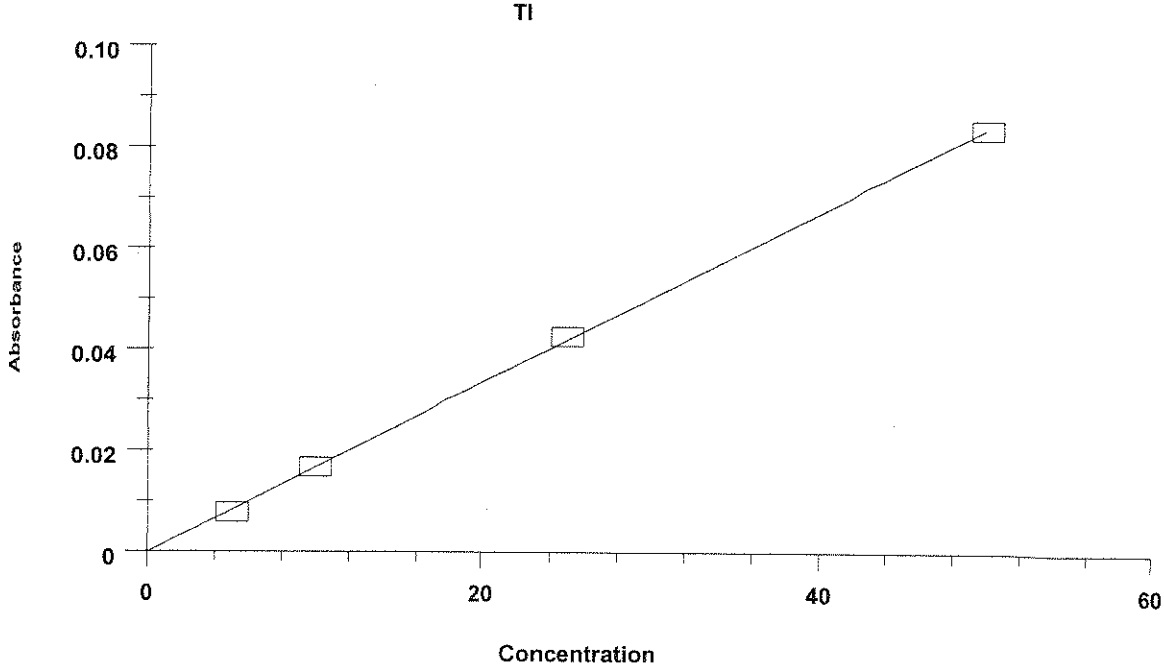
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0836	0.0847	0.1067	0.0514	0.0659	01:09:01	No
2			0.0837	0.0848	0.1211	0.0525	0.0747	01:11:51	No
Mean:			0.0836						
SD :			0.0000						
%RSD:			0.05						

[Tl] Standard number 4 applied. [50.0]
Correlation Coefficient: 0.99991 Slope: 0.00168
Intercept : -0.00015

Calibration data for Tl

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0011	-	----	----	----
Standard 5	0.0077	5.0	4.7	0.00	0.76
Standard 10	0.0167	10.0	10.0	0.00	1.70
Standard 25	0.0426	25.0	25.4	0.00	4.19
Standard 50	0.0836	50.0	49.8	0.00	0.05

Correlation Coefficient: 0.99991 Slope: 0.00168 Intercept: -0.0002



Element: Tl Seq. No.: 95 AS Loc.: 126 Date: 06/29/2006
Sample ID: STD 3
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.9	25.9	0.0435	0.0446	0.0690	0.0256	0.0435	01:14:50	No
2	24.8	24.8	0.0416	0.0427	0.0601	0.0257	0.0364	01:17:43	No
Mean:	25.4	25.4	0.0425						
SD :	0.78	0.78	0.0013						
%RSD:	3.06	3.06	3.07						

QC value within specified limits.

Element: Tl Seq. No.: 96 AS Loc.: 134 Date: 06/29/2006
Sample ID: ICV
µL dispensed: 10 from 148, 5 from 147, 15 from 134

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.2	25.2	0.0422	0.0433	0.0482	0.0246	0.0293	01:20:33	No
2	25.3	25.3	0.0424	0.0435	0.0498	0.0263	0.0307	01:23:23	No
Mean:	25.2	25.2	0.0423						
SD :	0.09	0.09	0.0001						
%RSD:	0.34	0.34	0.34						

QC value within specified limits.

Element: Tl Seq. No.: 97 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0006	0.0005	0.0037	-0.0001	0.0031	01:26:13	No
2	-0.2	-0.2	-0.0005	0.0006	0.0043	-0.0010	0.0049	01:29:02	No
Mean:	-0.3	-0.3	-0.0006						
SD :	0.06	0.06	0.0001						
%RSD:	22.19	22.19	16.29						

QC value within specified limits.

Element: Tl Seq. No.: 98 AS Loc.: 23 Date: 06/29/2006
Sample ID: BF62317-BLK1
µL dispensed: 10 from 148, 5 from 147, 15 from 23

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0005	0.0007	0.0042	-0.0005	0.0047	01:31:52	No
2	-0.8	-0.8	-0.0015	-0.0004	0.0050	-0.0006	0.0052	01:34:42	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.43	0.43	0.0007						
%RSD:	88.56	88.56	74.70						

Element: Tl Seq. No.: 99 AS Loc.: 24 Date: 06/29/2006
Sample ID: BF62317-BS1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 24

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.3	25.3	0.0424	0.0435	0.0547	0.0276	0.0352	01:37:32	No
2	26.6	26.6	0.0445	0.0456	0.0556	0.0256	0.0344	01:40:23	No
Mean:	25.9	25.9	0.0434						
SD :	0.91	0.91	0.0015						
%RSD:	3.49	3.49	3.50						

104%

Element: Tl Seq. No.: 100 AS Loc.: 25 Date: 06/29/2006
Sample ID: BF62317-BSD1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 25

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.3	25.3	0.0424	0.0435	0.0560	0.0271	0.0325	01:43:14	No
2	26.2	26.2	0.0439	0.0450	0.0573	0.0254	0.0333	01:46:04	No
Mean:	25.8	25.8	0.0431						
SD :	0.63	0.63	0.0011						
%RSD:	2.44	2.44	2.45						

103%

Element: Tl Seq. No.: 101 AS Loc.: 26 Date: 06/29/2006
Sample ID: BF62317-SRM1X50
µL dispensed: 10 from 148, 5 from 147, 15 from 26

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	15.5	15.5	0.0259	0.0270	0.0380	0.0169	0.0234	01:48:54	No
2	16.1	16.1	0.0269	0.0280	0.0390	0.0155	0.0243	01:51:43	No
Mean:	15.8	15.8	0.0264						
SD :	0.41	0.41	0.0007						
%RSD:	2.61	2.61	2.62						

$\frac{15.8(50)100}{1} / 1000 = 79$

Element: Tl Seq. No.: 102 AS Loc.: 27 Date: 06/29/2006
Sample ID: 0606361-01X5
µL dispensed: 10 from 148, 5 from 147, 15 from 27

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0013	-0.0002	0.0036	-0.0001	0.0046	01:54:32	No
2	0.6	0.6	0.0008	0.0019	0.0045	-0.0011	0.0038	01:57:21	No
Mean:	0.0	0.0	-0.0002						
SD :	0.88	0.88	0.0015						
%RSD:	1842	1842	636.70						

ND

Element: Tl Seq. No.: 103 AS Loc.: 28 Date: 06/29/2006
Sample ID: 0606361-02X5
µL dispensed: 10 from 148, 5 from 147, 15 from 28

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0003	0.0014	0.0043	0.0002	0.0058	02:00:10	No
2	-0.1	-0.1	-0.0003	0.0008	0.0041	0.0008	0.0060	02:03:00	No
Mean:	0.1	0.1	0.0000						
SD :	0.25	0.25	0.0004						
%RSD:	332.5	332.5	1463.93						

ND

Element: Tl Seq. No.: 104 AS Loc.: 29 Date: 06/29/2006
Sample ID: 0606373-01X5
µL dispensed: 10 from 148, 5 from 147, 15 from 29

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0004	0.0008	0.0044	0.0006	0.0047	02:05:49	No
2	-1.0	-1.0	-0.0019	-0.0007	0.0040	0.0009	0.0038	02:08:38	No
Mean:	-0.6	-0.6	-0.0011						
SD :	0.64	0.64	0.0011						
%RSD:	112.3	112.3	96.86						

ND

Element: Tl Seq. No.: 105 AS Loc.: 30 Date: 06/29/2006
Sample ID: 0606373-02X5
µL dispensed: 10 from 148, 5 from 147, 228 from 30

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0009	0.0002	0.0035	-0.0003	0.0047	02:11:27	No
2	-0.8	-0.8	-0.0015	-0.0004	0.0035	0.0000	0.0044	02:14:17	No
Mean:	-0.6	-0.6	-0.0012						
SD :	0.25	0.25	0.0004						
%RSD:	40.32	40.32	35.21						

Element: Tl Seq. No.: 106 AS Loc.: 31 Date: 06/29/2006
Sample ID: 0606373-03X5
µL dispensed: 10 from 148, 5 from 147, 15 from 31

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0009	0.0003	0.0034	0.0018	0.0053	02:17:06	No
2	-1.3	-1.3	-0.0023	-0.0012	0.0055	0.0005	0.0040	02:19:55	No
Mean:	-0.9	-0.9	-0.0016						
SD :	0.61	0.61	0.0010						
%RSD:	71.17	71.17	64.32						

Element: Tl Seq. No.: 107 AS Loc.: 32 Date: 06/29/2006
Sample ID: 0606373-04X5
µL dispensed: 10 from 148, 5 from 147, 15 from 32

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0011	0.0000	0.0032	0.0020	0.0042	02:22:45	No
2	-1.0	-1.0	-0.0019	-0.0007	0.0035	0.0012	0.0047	02:25:35	No
Mean:	-0.8	-0.8	-0.0015						
SD :	0.31	0.31	0.0005						
%RSD:	38.21	38.21	34.33						

Element: Tl Seq. No.: 108 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.5	25.5	0.0427	0.0438	0.0649	0.0271	0.0410	02:28:27	No
2	26.2	26.2	0.0440	0.0451	0.0578	0.0267	0.0383	02:31:19	No
Mean:	25.9	25.9	0.0433						
SD :	0.53	0.53	0.0009						
%RSD:	2.05	2.05	2.06						

QC value within specified limits.

Element: Tl Seq. No.: 109 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0002	0.0013	0.0043	-0.0003	0.0043	02:34:09	No
2	-0.5	-0.5	-0.0010	0.0002	0.0044	-0.0008	0.0050	02:36:59	No
Mean:	-0.1	-0.1	-0.0004						
SD :	0.48	0.48	0.0008						
%RSD:	321.3	321.3	199.35						

QC value within specified limits.

Element: Tl Seq. No.: 110 AS Loc.: 33 Date: 06/29/2006
Sample ID: 0606373-05X5
µL dispensed: 10 from 148, 5 from 147, 15 from 33

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	0.1	0.1	0.0000	0.0011	0.0042	0.0000	0.0057	02:39:48	No
2	-0.5	-0.5	-0.0010	0.0002	0.0020	0.0008	0.0025	02:42:38	No
Mean:	-0.2	-0.2	-0.0005						
SD :	0.39	0.39	0.0007						
%RSD:	186.3	186.3	130.35						

Element: Tl Seq. No.: 111 AS Loc.: 34 Date: 06/29/2006
Sample ID: 0606373-06X5
µL dispensed: 10 from 148, 5 from 147, 15 from 34

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	0.1	0.1	0.0000	0.0012	0.0026	-0.0004	0.0023	02:45:28	No
2	0.0	0.0	-0.0001	0.0010	0.0035	-0.0011	0.0042	02:48:19	No
Mean:	0.1	0.1	-0.0001						
SD :	0.08	0.08	0.0001						
%RSD:	125.1	125.1	256.25						

Element: Tl Seq. No.: 112 AS Loc.: 35 Date: 06/29/2006
Sample ID: 0606373-07X5
µL dispensed: 10 from 148, 5 from 147, 15 from 35

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	0.1	0.1	0.0000	0.0011	0.0060	0.0023	0.0067	02:51:09	No
2	1.1	1.1	0.0017	0.0028	0.0057	-0.0013	0.0050	02:53:59	No
Mean:	0.6	0.6	0.0008						
SD :	0.73	0.73	0.0012						
%RSD:	126.4	126.4	149.83						

Element: Tl Seq. No.: 113 AS Loc.: 36 Date: 06/29/2006
Sample ID: 0606373-08X5
µL dispensed: 10 from 148, 5 from 147, 15 from 36

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	-0.1	-0.1	-0.0003	0.0009	0.0045	0.0002	0.0053	02:56:49	No
2	0.1	0.1	0.0001	0.0012	0.0031	0.0004	0.0035	02:59:40	No
Mean:	0.0	0.0	-0.0001						
SD :	0.15	0.15	0.0002						
%RSD:	326.0	326.0	321.16						

Element: Tl Seq. No.: 114 AS Loc.: 36 Date: 06/29/2006
Sample ID: 0606373-08X5
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 36

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	20.8	20.8	0.0348	0.0360	0.0591	0.0220	0.0368	03:02:38	No
2	20.3	20.3	0.0340	0.0351	0.0583	0.0260	0.0348	03:05:36	No
Mean:	20.6	20.6	0.0344						
SD :	0.36	0.36	0.0006						
%RSD:	1.74	1.74	1.75						

Recovery for Tl = 102.8 % within 85 % to 115 %

Element: Tl Seq. No.: 115 AS Loc.: 37 Date: 06/29/2006
Sample ID: BF62317-DUP1X5
µL dispensed: 10 from 148, 5 from 147, 15 from 37

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0004	0.0016	0.0043	0.0018	0.0044	03:08:26	No
2	-0.5	-0.5	-0.0009	0.0002	0.0043	0.0001	0.0034	03:11:17	No
Mean:	-0.1	-0.1	-0.0002						
SD :	0.57	0.57	0.0010						
%RSD:	1134	1134	404.10						

ND

Element: Tl Seq. No.: 116 AS Loc.: 38 Date: 06/29/2006
Sample ID: BF62317-MS1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 38

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.5	23.5	0.0394	0.0405	0.0587	0.0249	0.0368	03:14:07	No
2	23.3	23.3	0.0390	0.0401	0.0593	0.0270	0.0404	03:16:57	No
Mean:	23.4	23.4	0.0392						
SD :	0.18	0.18	0.0003						
%RSD:	0.78	0.78	0.78						

94%

Element: Tl Seq. No.: 117 AS Loc.: 39 Date: 06/29/2006
Sample ID: BF62317-SD1X25
µL dispensed: 10 from 148, 5 from 147, 15 from 39

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	-0.0001	0.0010	0.0043	-0.0005	0.0039	03:19:47	No
2	0.0	0.0	-0.0002	0.0009	0.0050	-0.0009	0.0042	03:22:38	No
Mean:	0.0	0.0	-0.0001						
SD :	0.04	0.04	0.0001						
%RSD:	753.4	753.4	42.65						

ND

Element: Tl Seq. No.: 118 AS Loc.: 40 Date: 06/29/2006
Sample ID: 0606373-09X5
µL dispensed: 10 from 148, 5 from 147, 15 from 40

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0005	0.0006	0.0046	0.0011	0.0045	03:25:28	No
2	-0.4	-0.4	-0.0008	0.0004	0.0050	0.0009	0.0044	03:28:18	No
Mean:	-0.3	-0.3	-0.0006						
SD :	0.10	0.10	0.0002						
%RSD:	35.80	35.80	27.28						

ND

Element: Tl Seq. No.: 119 AS Loc.: 41 Date: 06/29/2006
Sample ID: 0606373-10X5
µL dispensed: 10 from 148, 5 from 147, 15 from 41

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0004	0.0007	0.0042	-0.0006	0.0034	03:31:07	No
2	0.0	0.0	-0.0002	0.0009	0.0029	0.0000	0.0023	03:33:57	No
Mean:	-0.1	-0.1	-0.0003						
SD :	0.08	0.08	0.0001						
%RSD:	94.93	94.93	45.62						

ND

Element: Tl Seq. No.: 120 AS Loc.: 42 Date: 06/29/2006
Sample ID: 0606373-19X5
µL dispensed: 10 from 148, 5 from 147, 15 from 42

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored

1	-0.4	-0.4	-0.0008	0.0003	0.0033	0.0000	0.0051	03:36:47	No
2	-0.6	-0.6	-0.0012	0.0000	0.0035	-0.0004	0.0047	03:39:36	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.15	0.15	0.0003						
%RSD:	31.03	31.03	26.18						

Element: Tl Seq. No.: 121 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.2	25.2	0.0423	0.0434	0.0640	0.0274	0.0389	03:42:28	No
2	26.6	26.6	0.0446	0.0458	0.0685	0.0278	0.0419	03:45:20	No
Mean:	25.9	25.9	0.0434						
SD :	1.00	1.00	0.0017						
%RSD:	3.85	3.85	3.87						

QC value within specified limits.

Element: Tl Seq. No.: 122 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0008	0.0004	0.0046	0.0002	0.0040	03:48:11	No
2	-0.4	-0.4	-0.0008	0.0003	0.0037	0.0012	0.0040	03:51:00	No
Mean:	-0.4	-0.4	-0.0008						
SD :	0.02	0.02	0.0000						
%RSD:	5.05	5.05	4.07						

QC value within specified limits.

Element: Tl Seq. No.: 123 AS Loc.: 43 Date: 06/29/2006
Sample ID: 0606373-12X5
µL dispensed: 10 from 148, 5 from 147, 15 from 43

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0005	0.0016	0.0051	0.0014	0.0046	03:53:49	No
2	0.2	0.2	0.0002	0.0013	0.0036	-0.0005	0.0037	03:56:38	No
Mean:	0.3	0.3	0.0003						
SD :	0.13	0.13	0.0002						
%RSD:	42.89	42.89	62.15						

Element: Tl Seq. No.: 124 AS Loc.: 44 Date: 06/29/2006
Sample ID: 0606373-13X5
µL dispensed: 10 from 148, 5 from 147, 15 from 44

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0005	0.0007	0.0044	0.0006	0.0040	03:59:29	No
2	-0.4	-0.4	-0.0009	0.0002	0.0047	-0.0001	0.0050	04:02:20	No
Mean:	-0.3	-0.3	-0.0007						
SD :	0.18	0.18	0.0003						
%RSD:	58.67	58.67	45.50						

Element: Tl Seq. No.: 125 AS Loc.: 45 Date: 06/29/2006
Sample ID: 0606373-14X5
µL dispensed: 10 from 148, 5 from 147, 15 from 45

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored

1	0.3	0.3	0.0004	0.0015	0.0051	-0.0007	0.0044	04:05:10	No
2	-0.3	-0.3	-0.0007	0.0004	0.0033	0.0001	0.0046	04:08:01	No
Mean:	0.0	0.0	-0.0001						
SD :	0.47	0.47	0.0008						
%RSD:	16970	16970	527.95						

Element: Tl Seq. No.: 126 AS Loc.: 46 Date: 06/29/2006
Sample ID: 0606373-15X5
µL dispensed: 10 from 148, 5 from 147, 15 from 46

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0005	0.0006	0.0026	0.0001	0.0021	04:10:53	No
2	0.2	0.2	0.0001	0.0012	0.0027	-0.0006	0.0022	04:13:44	No
Mean:	0.0	0.0	-0.0002						
SD :	0.27	0.27	0.0004						
%RSD:	723.8	723.8	208.55						

Element: Tl Seq. No.: 127 AS Loc.: 47 Date: 06/29/2006
Sample ID: 0606373-16X5
µL dispensed: 10 from 148, 5 from 147, 15 from 47

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0007	0.0005	0.0042	0.0005	0.0041	04:16:34	No
2	-0.3	-0.3	-0.0007	0.0004	0.0042	-0.0012	0.0051	04:19:24	No
Mean:	-0.3	-0.3	-0.0007						
SD :	0.02	0.02	0.0000						
%RSD:	7.07	7.07	5.50						

Element: Tl Seq. No.: 128 AS Loc.: 48 Date: 06/29/2006
Sample ID: 0606373-17X5
µL dispensed: 10 from 148, 5 from 147, 15 from 48

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0007	0.0004	0.0022	0.0008	0.0022	04:22:15	No
2	-0.2	-0.2	-0.0006	0.0006	0.0027	-0.0004	0.0021	04:25:04	No
Mean:	-0.3	-0.3	-0.0006						
SD :	0.06	0.06	0.0001						
%RSD:	21.35	21.35	16.26						

Element: Tl Seq. No.: 129 AS Loc.: 49 Date: 06/29/2006
Sample ID: 0606373-18X5
µL dispensed: 10 from 148, 5 from 147, 15 from 49

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0008	0.0003	0.0027	0.0001	0.0025	04:27:53	No
2	0.0	0.0	-0.0002	0.0010	0.0028	0.0011	0.0024	04:30:43	No
Mean:	-0.2	-0.2	-0.0005						
SD :	0.26	0.26	0.0004						
%RSD:	132.5	132.5	90.58						

Element: Tl Seq. No.: 130 AS Loc.: 49 Date: 06/29/2006
Sample ID: 0606373-18X5
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 49

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.2	20.2	0.0337	0.0349	0.0691	0.0215	0.0428	04:33:42	No
2	19.2	19.2	0.0321	0.0332	0.0676	0.0210	0.0435	04:36:40	No

Mean:	19.7	19.7	0.0329
SD :	0.71	0.71	0.0012
%RSD:	3.59	3.59	3.61

Recovery for Tl = 98.3 % within 85 % to 115 %

Element: Tl Seq. No.: 131 AS Loc.: 50 Date: 06/29/2006
Sample ID: BF62317-DUP2X5
µL dispensed: 10 from 148, 5 from 147, 15 from 50

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0003	0.0009	0.0052	-0.0001	0.0052	04:39:32	No
2	0.2	0.2	0.0002	0.0013	0.0034	0.0006	0.0021	04:42:22	No
Mean:	0.1	0.1	0.0000						
SD :	0.18	0.18	0.0003						
%RSD:	275.7	275.7	738.76						

Element: Tl Seq. No.: 132 AS Loc.: 51 Date: 06/29/2006
Sample ID: BF62317-MS2X20
µL dispensed: 10 from 148, 5 from 147, 15 from 51

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.1	23.1	0.0386	0.0398	0.0712	0.0254	0.0447	04:45:13	No
2	23.8	23.8	0.0399	0.0410	0.0731	0.0249	0.0462	04:48:02	No
Mean:	23.4	23.4	0.0393						
SD :	0.53	0.53	0.0009						
%RSD:	2.28	2.28	2.29						

94.1.

Element: Tl Seq. No.: 133 AS Loc.: 52 Date: 06/29/2006
Sample ID: BF62317-SD2X25
µL dispensed: 10 from 148, 5 from 147, 15 from 52

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0006	0.0017	0.0035	0.0000	0.0022	04:50:51	No
2	-0.4	-0.4	-0.0009	0.0003	0.0038	-0.0012	0.0042	04:53:42	No
Mean:	0.0	0.0	-0.0002						
SD :	0.60	0.60	0.0010						
%RSD:	17240	17240	639.89						

Element: Tl Seq. No.: 134 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.8	25.8	0.0433	0.0444	0.0681	0.0282	0.0407	04:56:33	No
2	25.9	25.9	0.0433	0.0444	0.0598	0.0276	0.0395	04:59:25	No
Mean:	25.8	25.8	0.0433						
SD :	0.01	0.01	0.0000						
%RSD:	0.04	0.04	0.04						

QC value within specified limits.

Element: Tl Seq. No.: 135 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0009	0.0020	0.0035	0.0001	0.0042	05:02:15	No
2	0.3	0.3	0.0003	0.0014	0.0058	-0.0005	0.0038	05:05:06	No

Mean:	0.4	0.4	0.0006
SD :	0.26	0.26	0.0004
%RSD:	58.06	58.06	72.88

QC value within specified limits.

Element: Tl Seq. No.: 136 AS Loc.: 53 Date: 06/29/2006
Sample ID: BF62320-BLK1
µL dispensed: 10 from 148, 5 from 147, 15 from 53

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0010	0.0001	0.0024	-0.0005	0.0024	05:07:59	No
2	-0.2	-0.2	-0.0005	0.0006	0.0026	0.0001	0.0023	05:10:49	No
Mean:	-0.4	-0.4	-0.0007						
SD :	0.22	0.22	0.0004						
%RSD:	61.75	61.75	49.09						

Element: Tl Seq. No.: 137 AS Loc.: 54 Date: 06/29/2006
Sample ID: BF62320-BS1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 54

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.0	25.0	0.0420	0.0431	0.0510	0.0258	0.0324	05:13:37	No
2	25.2	25.2	0.0422	0.0433	0.0563	0.0263	0.0355	05:16:26	No
Mean:	25.1	25.1	0.0421						
SD :	0.08	0.08	0.0001						
%RSD:	0.33	0.33	0.33						

100%

Element: Tl Seq. No.: 138 AS Loc.: 55 Date: 06/29/2006
Sample ID: BF62320-BSD1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 55

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.0	27.0	0.0452	0.0463	0.0565	0.0277	0.0337	05:19:14	No
2	26.9	26.9	0.0450	0.0462	0.0599	0.0279	0.0359	05:22:03	No
Mean:	26.9	26.9	0.0451						
SD :	0.05	0.05	0.0001						
%RSD:	0.19	0.19	0.19						

108%

Element: Tl Seq. No.: 139 AS Loc.: 56 Date: 06/29/2006
Sample ID: BF62320-SRM1X50
µL dispensed: 10 from 148, 5 from 147, 15 from 56

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	17.4	17.4	0.0290	0.0302	0.0466	0.0180	0.0270	05:24:51	No
2	18.0	18.0	0.0300	0.0312	0.0435	0.0183	0.0264	05:27:39	No
Mean:	17.7	17.7	0.0295						
SD :	0.41	0.41	0.0007						
%RSD:	2.34	2.34	2.35						

$\frac{17.7(50)100}{1} / 1000 = 88.5$

Element: Tl Seq. No.: 140 AS Loc.: 57 Date: 06/29/2006
Sample ID: 0606374-01X5
µL dispensed: 10 from 148, 5 from 147, 15 from 57

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.1	3.1	0.0051	0.0062	0.0114	0.0040	0.0090	05:30:29	No
2	2.8	2.8	0.0046	0.0057	0.0128	0.0038	0.0094	05:33:19	No
Mean:	3.0	3.0	0.0048						

SD :	0.21	0.21	0.0003
%RSD:	6.94	6.94	7.16

Element: Tl Seq. No.: 141 AS Loc.: 58 Date: 06/29/2006
Sample ID: 0606374-02X5
µL dispensed: 10 from 148, 5 from 147, 15 from 58

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	-0.0002	0.0010	0.0048	0.0007	0.0032	05:36:11	No
2	-0.4	-0.4	-0.0009	0.0002	0.0049	0.0012	0.0051	05:39:01	No
Mean:	-0.2	-0.2	-0.0005						
SD :	0.31	0.31	0.0005						
%RSD:	138.0	138.0	97.92						

Element: Tl Seq. No.: 142 AS Loc.: 59 Date: 06/29/2006
Sample ID: 0606374-03X5
µL dispensed: 10 from 148, 5 from 147, 15 from 59

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0001	0.0012	0.0044	-0.0005	0.0039	05:41:52	No
2	0.6	0.6	0.0009	0.0020	0.0042	0.0016	0.0068	05:44:41	No
Mean:	0.4	0.4	0.0005						
SD :	0.32	0.32	0.0005						
%RSD:	83.93	83.93	109.96						

Element: Tl Seq. No.: 143 AS Loc.: 60 Date: 06/29/2006
Sample ID: 0606374-04X5
µL dispensed: 10 from 148, 5 from 147, 15 from 60

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0008	0.0004	0.0023	0.0002	0.0023	05:47:30	No
2	-0.5	-0.5	-0.0010	0.0002	0.0027	0.0012	0.0024	05:50:20	No
Mean:	-0.4	-0.4	-0.0009						
SD :	0.09	0.09	0.0002						
%RSD:	21.43	21.43	17.66						

Element: Tl Seq. No.: 144 AS Loc.: 61 Date: 06/29/2006
Sample ID: 0606374-05X5
µL dispensed: 10 from 148, 5 from 147, 15 from 61

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0001	0.0013	0.0048	-0.0019	0.0062	05:53:10	No
2	0.0	0.0	-0.0002	0.0010	0.0043	0.0014	0.0047	05:56:00	No
Mean:	0.1	0.1	0.0000						
SD :	0.13	0.13	0.0002						
%RSD:	147.1	147.1	3202.46						

Element: Tl Seq. No.: 145 AS Loc.: 62 Date: 06/29/2006
Sample ID: 0606374-06X5
µL dispensed: 10 from 148, 5 from 147, 15 from 62

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.9	-0.9	-0.0016	-0.0005	0.0040	-0.0006	0.0040	05:58:50	No
2	-1.7	-1.7	-0.0029	-0.0018	0.0036	0.0013	0.0048	06:01:39	No
Mean:	-1.3	-1.3	-0.0023						
SD :	0.56	0.56	0.0009						
%RSD:	44.45	44.45	41.46						

Element: Tl Seq. No.: 146 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.7	26.7	0.0448	0.0459	0.0687	0.0277	0.0417	06:04:34	No
2	26.7	26.7	0.0447	0.0458	0.0631	0.0271	0.0377	06:07:26	No
Mean:	26.7	26.7	0.0447						
SD :	0.05	0.05	0.0001						
%RSD:	0.19	0.19	0.19						

QC value within specified limits.

Element: Tl Seq. No.: 147 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0006	0.0005	0.0043	0.0002	0.0057	06:10:16	No
2	-0.3	-0.3	-0.0007	0.0005	0.0040	0.0020	0.0053	06:13:06	No
Mean:	-0.3	-0.3	-0.0006						
SD :	0.01	0.01	0.0000						
%RSD:	3.59	3.59	2.73						

QC value within specified limits.

Element: Tl Seq. No.: 148 AS Loc.: 63 Date: 06/29/2006
Sample ID: 0606374-07X5
µL dispensed: 10 from 148, 5 from 147, 15 from 63

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0009	0.0020	0.0053	-0.0005	0.0062	06:15:54	No
2	-0.2	-0.2	-0.0005	0.0007	0.0037	0.0010	0.0040	06:18:45	No
Mean:	0.2	0.2	0.0002						
SD :	0.57	0.57	0.0010						
%RSD:	251.1	251.1	416.53						

Element: Tl Seq. No.: 149 AS Loc.: 64 Date: 06/29/2006
Sample ID: 0606374-08X5
µL dispensed: 10 from 148, 5 from 147, 15 from 64

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.9	-0.9	-0.0017	-0.0006	0.0038	0.0011	0.0055	06:21:35	No
2	-0.2	-0.2	-0.0005	0.0007	0.0041	0.0003	0.0041	06:24:25	No
Mean:	-0.6	-0.6	-0.0011						
SD :	0.53	0.53	0.0009						
%RSD:	95.40	95.40	81.98						

Element: Tl Seq. No.: 150 AS Loc.: 65 Date: 06/29/2006
Sample ID: 0606374-09X5
µL dispensed: 10 from 148, 5 from 147, 15 from 65

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0005	0.0007	0.0045	0.0017	0.0053	06:27:16	No
2	-0.2	-0.2	-0.0005	0.0007	0.0045	0.0011	0.0042	06:30:06	No
Mean:	-0.2	-0.2	-0.0005						
SD :	0.01	0.01	0.0000						
%RSD:	5.07	5.07	3.40						

Element: Tl Seq. No.: 151 AS Loc.: 66 Date: 06/29/2006

Sample ID: 0606374-10X5
µL dispensed: 10 from 148, 5 from 147, 15 from 66

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0004	0.0007	0.0025	-0.0003	0.0021	06:32:56	No
2	-0.7	-0.7	-0.0013	-0.0002	0.0038	-0.0005	0.0046	06:35:46	No
Mean:	-0.4	-0.4	-0.0009						
SD :	0.37	0.37	0.0006						
%RSD:	89.12	89.12	73.24						

Element: Tl Seq. No.: 152 AS Loc.: 66 Date: 06/29/2006
Sample ID: 0606374-10X5
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 66

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.9	20.9	0.0350	0.0362	0.0684	0.0250	0.0431	06:38:46	No
2	21.3	21.3	0.0357	0.0368	0.0669	0.0217	0.0404	06:41:46	No
Mean:	21.1	21.1	0.0353						
SD :	0.27	0.27	0.0005						
%RSD:	1.28	1.28	1.28						

Recovery for Tl = 105.6 % within 85 % to 115 %

Element: Tl Seq. No.: 153 AS Loc.: 67 Date: 06/29/2006
Sample ID: BF62320-DUP1X5
µL dispensed: 10 from 148, 5 from 147, 15 from 67

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0013	-0.0002	0.0052	0.0011	0.0057	06:44:36	No
2	0.9	0.9	0.0014	0.0025	0.0039	0.0010	0.0053	06:47:26	No
Mean:	0.1	0.1	0.0000						
SD :	1.16	1.16	0.0020						
%RSD:	1034	1034	5379.36						

Element: Tl Seq. No.: 154 AS Loc.: 68 Date: 06/29/2006
Sample ID: BF62320-MS1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 68

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.1	25.1	0.0421	0.0432	0.0671	0.0260	0.0410	06:50:19	No
2	24.2	24.2	0.0406	0.0417	0.0672	0.0274	0.0432	06:53:10	No
Mean:	24.7	24.7	0.0413						
SD :	0.64	0.64	0.0011						
%RSD:	2.60	2.60	2.61						

Element: Tl Seq. No.: 155 AS Loc.: 69 Date: 06/29/2006
Sample ID: BF62320-SD1X25
µL dispensed: 10 from 148, 5 from 147, 15 from 69

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	-0.0001	0.0010	0.0042	-0.0006	0.0048	06:56:01	No
2	0.3	0.3	0.0004	0.0015	0.0029	-0.0009	0.0036	06:58:52	No
Mean:	0.2	0.2	0.0001						
SD :	0.21	0.21	0.0003						
%RSD:	128.4	128.4	292.78						

Element: Tl Seq. No.: 156 AS Loc.: 70 Date: 06/29/2006
Sample ID: 0606374-11X5

µL dispensed: 10 from 148, 5 from 147, 15 from 70

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	0.6	0.6	0.0009	0.0020	0.0048	0.0014	0.0030	07:01:44	No
2	1.2	1.2	0.0018	0.0030	0.0040	0.0002	0.0042	07:04:35	No
Mean:	0.9	0.9	0.0014						
SD :	0.40	0.40	0.0007						
%RSD:	44.09	44.09	49.05						

Element: Tl Seq. No.: 157 AS Loc.: 71 Date: 06/29/2006
Sample ID: 0606374-12X5
µL dispensed: 10 from 148, 5 from 147, 15 from 71

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	-0.6	-0.6	-0.0011	0.0000	0.0053	0.0002	0.0053	07:07:26	No
2	0.4	0.4	0.0004	0.0016	0.0036	-0.0013	0.0047	07:10:18	No
Mean:	-0.1	-0.1	-0.0003						
SD :	0.65	0.65	0.0011						
%RSD:	637.6	637.6	336.26						

Element: Tl Seq. No.: 158 AS Loc.: 72 Date: 06/29/2006
Sample ID: 0606374-13X5
µL dispensed: 10 from 148, 5 from 147, 15 from 72

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	-0.1	-0.1	-0.0003	0.0009	0.0043	-0.0002	0.0043	07:13:09	No
2	-0.9	-0.9	-0.0016	-0.0005	0.0036	0.0011	0.0054	07:16:00	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.58	0.58	0.0010						
%RSD:	121.1	121.1	101.70						

Element: Tl Seq. No.: 159 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	26.6	26.6	0.0446	0.0457	0.0695	0.0284	0.0420	07:18:53	No
2	26.3	26.3	0.0441	0.0453	0.0652	0.0262	0.0391	07:21:45	No
Mean:	26.5	26.5	0.0444						
SD :	0.19	0.19	0.0003						
%RSD:	0.73	0.73	0.73						

QC value within specified limits.

Element: Tl Seq. No.: 160 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	-0.3	-0.3	-0.0006	0.0005	0.0040	0.0016	0.0048	07:24:36	No
2	-0.4	-0.4	-0.0008	0.0003	0.0037	0.0022	0.0051	07:27:25	No
Mean:	-0.3	-0.3	-0.0007						
SD :	0.10	0.10	0.0002						
%RSD:	28.78	28.78	22.61						

QC value within specified limits.

Element: Tl Seq. No.: 161 AS Loc.: 73 Date: 06/29/2006
Sample ID: 0606374-14X5

µL dispensed: 10 from 148, 5 from 147, 15 from 73

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0005	0.0006	0.0056	-0.0002	0.0049	07:30:15	No
2	-0.4	-0.4	-0.0009	0.0002	0.0032	0.0005	0.0055	07:33:05	No
Mean:	-0.3	-0.3	-0.0007						
SD :	0.17	0.17	0.0003						
%RSD:	53.65	53.65	41.63						

Element: Tl Seq. No.: 162 AS Loc.: 73 Date: 06/29/2006
Sample ID: 0606374-14X5
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 73

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.4	19.4	0.0324	0.0335	0.0615	0.0198	0.0372	07:36:04	No
2	19.5	19.5	0.0326	0.0337	0.0620	0.0219	0.0402	07:39:01	No
Mean:	19.4	19.4	0.0325						
SD :	0.07	0.07	0.0001						
%RSD:	0.35	0.35	0.35						

Recovery for Tl = 97.1 % within 85 % to 115 %

Element: Tl Seq. No.: 163 AS Loc.: 74 Date: 06/29/2006
Sample ID: BF62320-DUP2X5
µL dispensed: 10 from 148, 5 from 147, 15 from 74

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	-0.0001	0.0011	0.0035	0.0004	0.0043	07:41:51	No
2	-0.4	-0.4	-0.0009	0.0003	0.0050	0.0005	0.0051	07:44:41	No
Mean:	-0.2	-0.2	-0.0005						
SD :	0.34	0.34	0.0006						
%RSD:	185.1	185.1	123.49						

Element: Tl Seq. No.: 164 AS Loc.: 75 Date: 06/29/2006
Sample ID: BF62320-MS2X20
µL dispensed: 10 from 148, 5 from 147, 15 from 75

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.8	23.8	0.0398	0.0409	0.0532	0.0251	0.0349	07:47:30	No
2	23.9	23.9	0.0400	0.0411	0.0599	0.0241	0.0355	07:50:20	No
Mean:	23.8	23.8	0.0399						
SD :	0.09	0.09	0.0002						
%RSD:	0.38	0.38	0.39						

Element: Tl Seq. No.: 165 AS Loc.: 76 Date: 06/29/2006
Sample ID: BF62320-SD2X25
µL dispensed: 10 from 148, 5 from 147, 15 from 76

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0003	0.0008	0.0049	0.0000	0.0048	07:53:09	No
2	-0.5	-0.5	-0.0010	0.0001	0.0032	0.0008	0.0051	07:55:58	No
Mean:	-0.3	-0.3	-0.0006						
SD :	0.28	0.28	0.0005						
%RSD:	96.67	96.67	73.74						

Element: Tl Seq. No.: 166 AS Loc.: 77 Date: 06/29/2006
Sample ID: 0606374-15X5
µL dispensed: 10 from 148, 5 from 147, 15 from 77

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-1.2	-1.2	-0.0022	-0.0010	0.0045	0.0008	0.0053	07:58:47	No
2	0.5	0.5	0.0007	0.0018	0.0048	0.0012	0.0052	08:01:37	No
Mean:	-0.4	-0.4	-0.0007						
SD :	1.19	1.19	0.0020						
%RSD:	339.7	339.7	269.80						

Element: Tl Seq. No.: 167 AS Loc.: 78 Date: 06/29/2006
Sample ID: 0606374-16X5
µL dispensed: 10 from 148, 5 from 147, 15 from 78

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0013	-0.0001	0.0049	0.0025	0.0063	08:04:27	No
2	-0.2	-0.2	-0.0005	0.0007	0.0047	-0.0010	0.0044	08:07:16	No
Mean:	-0.4	-0.4	-0.0009						
SD :	0.33	0.33	0.0006						
%RSD:	77.38	77.38	63.84						

Element: Tl Seq. No.: 168 AS Loc.: 79 Date: 06/29/2006
Sample ID: 0606373-20X5
µL dispensed: 10 from 148, 5 from 147, 15 from 79

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0006	0.0005	0.0045	0.0012	0.0043	08:10:06	No
2	0.0	0.0	-0.0001	0.0010	0.0037	0.0019	0.0048	08:12:55	No
Mean:	-0.1	-0.1	-0.0004						
SD :	0.21	0.21	0.0004						
%RSD:	163.3	163.3	95.98						

Element: Tl Seq. No.: 169 AS Loc.: 80 Date: 06/29/2006
Sample ID: 0606373-21X5
µL dispensed: 10 from 148, 5 from 147, 15 from 80

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0004	0.0007	0.0045	0.0013	0.0044	08:15:44	No
2	0.1	0.1	0.0001	0.0012	0.0037	0.0011	0.0044	08:18:33	No
Mean:	0.0	0.0	-0.0002						
SD :	0.19	0.19	0.0003						
%RSD:	84610	84610	212.80						

Element: Tl Seq. No.: 170 AS Loc.: 81 Date: 06/29/2006
Sample ID: BF62713-BLK1
µL dispensed: 10 from 148, 5 from 147, 15 from 81

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0012	-0.0001	0.0047	-0.0011	0.0040	08:21:23	No
2	-0.4	-0.4	-0.0008	0.0004	0.0049	-0.0004	0.0038	08:24:12	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.18	0.18	0.0003						
%RSD:	37.46	37.46	31.58						

Element: Tl Seq. No.: 171 AS Loc.: 82 Date: 06/29/2006
Sample ID: BF62713-BS1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 82

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Bkgnd	Bkgnd	Time	Peak

#	µg/L	µg/L	Signal	Area	Height	Area	Height		Stored
1	26.8	26.8	0.0448	0.0460	0.0499	0.0269	0.0304	08:27:01	No
2	26.4	26.4	0.0442	0.0453	0.0577	0.0286	0.0348	08:29:50	No
Mean:	26.6	26.6	0.0445						
SD :	0.27	0.27	0.0005						
%RSD:	1.01	1.01	1.01						

1060

Element: Tl Seq. No.: 172 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.9	26.9	0.0450	0.0462	0.0683	0.0277	0.0407	08:32:41	No
2	26.6	26.6	0.0445	0.0456	0.0675	0.0268	0.0407	08:35:34	No
Mean:	26.7	26.7	0.0448						
SD :	0.22	0.22	0.0004						
%RSD:	0.83	0.83	0.83						

QC value within specified limits.

Element: Tl Seq. No.: 173 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0012	0.0000	0.0053	-0.0003	0.0045	08:38:24	No
2	-0.5	-0.5	-0.0011	0.0001	0.0041	-0.0006	0.0030	08:41:13	No
Mean:	-0.6	-0.6	-0.0011						
SD :	0.04	0.04	0.0001						
%RSD:	6.30	6.30	5.43						

QC value within specified limits.

Element: Tl Seq. No.: 174 AS Loc.: 83 Date: 06/29/2006
Sample ID: BF62713-BSD1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 83

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.6	25.6	0.0429	0.0440	0.0517	0.0264	0.0309	08:44:03	No
2	26.1	26.1	0.0438	0.0449	0.0562	0.0271	0.0368	08:46:52	No
Mean:	25.9	25.9	0.0433						
SD :	0.38	0.38	0.0006						
%RSD:	1.46	1.46	1.47						

1045

Element: Tl Seq. No.: 175 AS Loc.: 84 Date: 06/29/2006
Sample ID: BF62713-SRM1X50
µL dispensed: 10 from 148, 5 from 147, 15 from 84

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	17.6	17.6	0.0295	0.0306	0.0448	0.0191	0.0278	08:49:41	No
2	17.7	17.7	0.0297	0.0308	0.0462	0.0200	0.0291	08:52:30	No
Mean:	17.7	17.7	0.0296						
SD :	0.07	0.07	0.0001						
%RSD:	0.38	0.38	0.38						

$\frac{17.7(50)(100)}{1000} \geq 88.5$

Element: Tl Seq. No.: 176 AS Loc.: 85 Date: 06/29/2006
Sample ID: 0606360-01X5
µL dispensed: 10 from 148, 5 from 147, 15 from 85

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Bkgnd	Bkgnd	Time	Peak

#	µg/L	µg/L	Signal	Area	Height	Area	Height		Sto
1	-0.3	-0.3	-0.0006	0.0005	0.0040	0.0018	0.0044	08:55:20	No
2	-0.4	-0.4	-0.0009	0.0002	0.0049	0.0003	0.0060	08:58:09	No
Mean:	-0.4	-0.4	-0.0008						
SD :	0.10	0.10	0.0002						
%RSD:	27.87	27.87	22.31						

MD

Element: Tl Seq. No.: 177 AS Loc.: 86 Date: 06/29/2006
Sample ID: BF62617-BLK1
µL dispensed: 10 from 148, 5 from 147, 15 from 86

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Pea Sto
1	-0.5	-0.5	-0.0009	0.0002	0.0031	0.0010	0.0042	09:00:58	No
2	0.2	0.2	0.0003	0.0014	0.0042	0.0003	0.0044	09:03:47	No
Mean:	-0.1	-0.1	-0.0003						
SD :	0.50	0.50	0.0008						
%RSD:	454.4	454.4	249.11						

MD

Element: Tl Seq. No.: 178 AS Loc.: 87 Date: 06/29/2006
Sample ID: BF62617-BS1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 87

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	26.0	26.0	0.0436	0.0447	0.0537	0.0258	0.0325	09:06:36	No
2	26.0	26.0	0.0435	0.0446	0.0513	0.0268	0.0307	09:09:26	No
Mean:	26.0	26.0	0.0436						
SD :	0.04	0.04	0.0001						
%RSD:	0.17	0.17	0.17						

1045

Element: Tl Seq. No.: 179 AS Loc.: 88 Date: 06/29/2006
Sample ID: BF62617-BSD1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 88

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	25.7	25.7	0.0430	0.0441	0.0522	0.0288	0.0336	09:12:14	No
2	26.4	26.4	0.0442	0.0453	0.0588	0.0279	0.0348	09:15:02	No
Mean:	26.0	26.0	0.0436						
SD :	0.50	0.50	0.0008						
%RSD:	1.91	1.91	1.91						

1045

Element: Tl Seq. No.: 180 AS Loc.: 89 Date: 06/29/2006
Sample ID: BF62617-SRM1X50
µL dispensed: 10 from 148, 5 from 147, 15 from 89

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	18.3	18.3	0.0306	0.0317	0.0429	0.0181	0.0253	09:17:50	No
2	18.8	18.8	0.0314	0.0326	0.0460	0.0187	0.0267	09:20:39	No
Mean:	18.5	18.5	0.0310						
SD :	0.36	0.36	0.0006						
%RSD:	1.96	1.96	1.97						

$\frac{18.5(50)(100)}{1000} = 92.5$

Element: Tl Seq. No.: 181 AS Loc.: 90 Date: 06/29/2006
Sample ID: 0606383-01X5
µL dispensed: 10 from 148, 5 from 147, 15 from 90

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	-0.1	-0.1	-0.0003	0.0008	0.0031	0.0015	0.0030	09:23:27	No

2	-0.3	-0.3	-0.0007	0.0004	0.0044	0.0011	0.0040	09:26:18 No
Mean:	-0.2	-0.2	-0.0005					
SD :	0.17	0.17	0.0003					
%RSD:	80.26	80.26	56.40					

Element: Tl Seq. No.: 182 AS Loc.: 91 Date: 06/29/2006
Sample ID: 0606383-02X5
µL dispensed: 10 from 148, 5 from 147, 15 from 91

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0013	-0.0002	0.0037	0.0005	0.0046	09:29:07	No
2	-0.6	-0.6	-0.0012	-0.0001	0.0033	0.0013	0.0038	09:31:56	No
Mean:	-0.7	-0.7	-0.0013						
SD :	0.05	0.05	0.0001						
%RSD:	8.24	8.24	7.25						

Element: Tl Seq. No.: 183 AS Loc.: 92 Date: 06/29/2006
Sample ID: 0606383-03X5
µL dispensed: 10 from 148, 5 from 147, 15 from 92

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	0.0007	0.0018	0.0051	0.0007	0.0043	09:34:44	No
2	-0.4	-0.4	-0.0008	0.0003	0.0037	0.0005	0.0021	09:37:34	No
Mean:	0.1	0.1	-0.0001						
SD :	0.64	0.64	0.0011						
%RSD:	1057	1057	2073.29						

Element: Tl Seq. No.: 184 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.7	27.7	0.0464	0.0476	0.0702	0.0286	0.0430	09:40:25	No
2	27.3	27.3	0.0457	0.0468	0.0701	0.0292	0.0425	09:43:19	No
Mean:	27.5	27.5	0.0461						
SD :	0.31	0.31	0.0005						
%RSD:	1.11	1.11	1.11						

QC value within specified limits.

Element: Tl Seq. No.: 185 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0010	0.0002	0.0034	0.0009	0.0060	09:46:09	No
2	0.3	0.3	0.0004	0.0015	0.0027	-0.0004	0.0025	09:48:58	No
Mean:	-0.1	-0.1	-0.0003						
SD :	0.57	0.57	0.0010						
%RSD:	710.5	710.5	333.92						

QC value within specified limits.

Element: Tl Seq. No.: 186 AS Loc.: 93 Date: 06/29/2006
Sample ID: 0606383-04X5
µL dispensed: 10 from 148, 5 from 147, 15 from 93

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0013	-0.0002	0.0035	0.0020	0.0049	09:51:46	No

2	-0.3	-0.3	-0.0007	0.0005	0.0065	0.0018	0.0054	09:54:35	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.27	0.27	0.0005						
%RSD:	54.19	54.19	45.88						

Element: Tl Seq. No.: 187 AS Loc.: 94 Date: 06/29/2006
Sample ID: 0606383-05X5
µL dispensed: 10 from 148, 5 from 147, 15 from 94

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.0	1.0	0.0015	0.0026	0.0059	0.0008	0.0041	09:57:23	No
2	0.7	0.7	0.0011	0.0022	0.0086	0.0010	0.0054	10:00:12	No
Mean:	0.9	0.9	0.0013						
SD :	0.19	0.19	0.0003						
%RSD:	22.17	22.17	24.80						

Element: Tl Seq. No.: 188 AS Loc.: 95 Date: 06/29/2006
Sample ID: 0606383-06X5
µL dispensed: 10 from 148, 5 from 147, 15 from 95

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0005	0.0006	0.0038	0.0018	0.0038	10:03:01	No
2	-0.7	-0.7	-0.0013	-0.0001	0.0048	0.0015	0.0053	10:05:51	No
Mean:	-0.4	-0.4	-0.0009						
SD :	0.33	0.33	0.0005						
%RSD:	76.76	76.76	63.24						

Element: Tl Seq. No.: 189 AS Loc.: 96 Date: 06/29/2006
Sample ID: 0606383-07X5
µL dispensed: 10 from 148, 5 from 147, 15 from 96

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.5	2.5	0.0040	0.0051	0.0117	0.0021	0.0065	10:08:40	No
2	2.8	2.8	0.0045	0.0056	0.0137	0.0031	0.0074	10:11:30	No
Mean:	2.6	2.6	0.0042						
SD :	0.22	0.22	0.0004						
%RSD:	8.28	8.28	8.58						

Element: Tl Seq. No.: 190 AS Loc.: 97 Date: 06/29/2006
Sample ID: 0606383-08X5
µL dispensed: 10 from 148, 5 from 147, 15 from 97

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.5	5.5	0.0091	0.0103	0.0175	0.0069	0.0118	10:14:19	No
2	4.9	4.9	0.0081	0.0092	0.0204	0.0070	0.0125	10:17:09	No
Mean:	5.2	5.2	0.0086						
SD :	0.44	0.44	0.0007						
%RSD:	8.52	8.52	8.67						

Element: Tl Seq. No.: 191 AS Loc.: 98 Date: 06/29/2006
Sample ID: 0606383-09X5
µL dispensed: 10 from 148, 5 from 147, 15 from 98

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.8	-0.8	-0.0016	-0.0004	0.0046	0.0011	0.0063	10:19:59	No
2	-0.3	-0.3	-0.0007	0.0004	0.0036	0.0014	0.0053	10:22:48	No
Mean:	-0.6	-0.6	-0.0011						

SD :	0.37	0.37	0.0006
%RSD:	63.21	63.21	54.69

Element: Tl Seq. No.: 192 AS Loc.: 99 Date: 06/29/2006
Sample ID: 0606383-10X5
µL dispensed: 10 from 148, 5 from 147, 15 from 99

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	0.0006	0.0017	0.0040	0.0015	0.0053	10:25:39	No
2	0.3	0.3	0.0004	0.0016	0.0038	0.0020	0.0033	10:28:28	No
Mean:	0.4	0.4	0.0005						
SD :	0.07	0.07	0.0001						
%RSD:	18.20	18.20	23.54						

Element: Tl Seq. No.: 193 AS Loc.: 100 Date: 06/29/2006
Sample ID: 0606383-11X5
µL dispensed: 10 from 148, 5 from 147, 15 from 100

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0010	0.0002	0.0027	0.0024	0.0027	10:31:18	No
2	-0.3	-0.3	-0.0007	0.0004	0.0036	0.0011	0.0047	10:34:07	No
Mean:	-0.4	-0.4	-0.0008						
SD :	0.10	0.10	0.0002						
%RSD:	23.45	23.45	19.19						

Element: Tl Seq. No.: 194 AS Loc.: 100 Date: 06/29/2006
Sample ID: 0606383-11X5
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 100

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	22.6	22.6	0.0379	0.0390	0.0671	0.0230	0.0436	10:37:06	No
2	20.8	20.8	0.0348	0.0360	0.0639	0.0214	0.0399	10:40:05	No
Mean:	21.7	21.7	0.0364						
SD :	1.28	1.28	0.0021						
%RSD:	5.88	5.88	5.90						

Recovery for Tl = 108.6 % within 85 % to 115 %

Element: Tl Seq. No.: 195 AS Loc.: 101 Date: 06/29/2006
Sample ID: BF62617-DUP1X5
µL dispensed: 10 from 148, 5 from 147, 15 from 101

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0008	0.0003	0.0026	0.0012	0.0022	10:42:56	No
2	0.0	0.0	-0.0002	0.0009	0.0049	0.0018	0.0048	10:45:46	No
Mean:	-0.2	-0.2	-0.0005						
SD :	0.26	0.26	0.0004						
%RSD:	114.3	114.3	81.23						

Element: Tl Seq. No.: 196 AS Loc.: 102 Date: 06/29/2006
Sample ID: BF62617-MS1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 102

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.8	24.8	0.0416	0.0427	0.0672	0.0282	0.0396	10:48:36	No
2	25.7	25.7	0.0430	0.0442	0.0707	0.0287	0.0463	10:51:26	No
Mean:	25.3	25.3	0.0423						
SD :	0.62	0.62	0.0010						

%RSD: 2.46 2.46 2.47

Element: Tl Seq. No.: 197 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	28.6	28.6	0.0479	0.0491	0.0789	0.0325	0.0497	10:54:21	No
2	27.6	27.6	0.0462	0.0474	0.0761	0.0303	0.0462	10:57:14	No
Mean:	28.1	28.1	0.0471						
SD :	0.72	0.72	0.0012						
%RSD:	2.55	2.55	2.56						

112-1.

QC failed, value greater than upper limit for Tl.

Element: Tl Seq. No.: 198 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	29.6	29.6	0.0496	0.0507	0.0800	0.0308	0.0464	11:00:06	No
2	27.8	27.8	0.0466	0.0477	0.0714	0.0293	0.0441	11:02:58	No
Mean:	28.7	28.7	0.0481						
SD :	1.24	1.24	0.0021						
%RSD:	4.31	4.31	4.33						

QC failed, value greater than upper limit for Tl.
Current analysis method being continued.

Element: Tl Seq. No.: 199 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0001	0.0012	0.0044	0.0001	0.0043	11:05:49	No
2	0.0	0.0	-0.0002	0.0009	0.0023	0.0005	0.0023	11:08:38	No
Mean:	0.1	0.1	-0.0001						
SD :	0.15	0.15	0.0002						
%RSD:	266.4	266.4	422.81						

QC value within specified limits.

Element: Tl Seq. No.: 200 AS Loc.: 103 Date: 06/29/2006
Sample ID: BF62617-SD1X25
µL dispensed: 10 from 148, 5 from 147, 15 from 103

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0013	-0.0001	0.0042	0.0001	0.0058	11:11:28	No
2	-0.3	-0.3	-0.0007	0.0005	0.0037	0.0022	0.0050	11:14:19	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.25	0.25	0.0004						
%RSD:	51.86	51.86	43.58						

Element: Tl Seq. No.: 201 AS Loc.: 104 Date: 06/29/2006
Sample ID: 0606383-12X5
µL dispensed: 10 from 148, 5 from 147, 15 from 104

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	-0.0001	0.0010	0.0044	0.0015	0.0047	11:17:11	No
2	-0.4	-0.4	-0.0009	0.0003	0.0039	0.0015	0.0051	11:20:02	No

Mean:	-0.2	-0.2	-0.0005
SD :	0.31	0.31	0.0005
%RSD:	149.0	149.0	103.70

MD

Element: Tl Seq. No.: 202 AS Loc.: 105 Date: 06/29/2006
Sample ID: 0606383-13X5
µL dispensed: 10 from 148, 5 from 147, 15 from 105

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0003	0.0009	0.0065	0.0019	0.0065	11:22:54	No
2	-0.9	-0.9	-0.0017	-0.0006	0.0041	0.0027	0.0045	11:25:46	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.61	0.61	0.0010						
%RSD:	121.0	121.0	102.58						

MP

Element: Tl Seq. No.: 203 AS Loc.: 105 Date: 06/29/2006
Sample ID: 0606383-13X5
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 105

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	22.3	22.3	0.0374	0.0385	0.0689	0.0248	0.0453	11:28:46	No
2	22.3	22.3	0.0374	0.0385	0.0709	0.0237	0.0446	11:31:45	No
Mean:	22.3	22.3	0.0374						
SD :	0.02	0.02	0.0000						
%RSD:	0.10	0.10	0.11						

Recovery for Tl = 111.6 % within 85 % to 115 %

✓

Element: Tl Seq. No.: 204 AS Loc.: 106 Date: 06/29/2006
Sample ID: BF62617-DUP2X5
µL dispensed: 10 from 148, 5 from 147, 15 from 106

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0011	0.0000	0.0027	0.0016	0.0031	11:34:37	No
2	-1.1	-1.1	-0.0019	-0.0008	0.0019	0.0012	0.0023	11:37:29	No
Mean:	-0.8	-0.8	-0.0015						
SD :	0.35	0.35	0.0006						
%RSD:	43.97	43.97	39.51						

MD

Element: Tl Seq. No.: 205 AS Loc.: 107 Date: 06/29/2006
Sample ID: BF62617-MS2X20
µL dispensed: 10 from 148, 5 from 147, 15 from 107

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.5	23.5	0.0393	0.0404	0.0646	0.0251	0.0380	11:40:22	No
2	23.4	23.4	0.0393	0.0404	0.0676	0.0274	0.0420	11:43:13	No
Mean:	23.4	23.4	0.0393						
SD :	0.01	0.01	0.0000						
%RSD:	0.04	0.04	0.04						

94%

Element: Tl Seq. No.: 206 AS Loc.: 108 Date: 06/29/2006
Sample ID: BF62617-SD2X25
µL dispensed: 10 from 148, 5 from 147, 15 from 108

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.8	-0.8	-0.0015	-0.0003	0.0057	0.0010	0.0051	11:46:03	No
2	-1.1	-1.1	-0.0021	-0.0009	0.0043	0.0019	0.0044	11:48:53	No
Mean:	-1.0	-1.0	-0.0018						

248

MD

SD :	0.25	0.25	0.0004
%RSD:	26.43	26.43	24.13

Element: Tl Seq. No.: 207 AS Loc.: 109 Date: 06/29/2006
Sample ID: 0606383-14X5
µL dispensed: 10 from 148, 5 from 147, 15 from 109

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	-0.0001	0.0010	0.0049	0.0010	0.0052	11:51:45	No
2	0.8	0.8	0.0011	0.0023	0.0048	0.0024	0.0053	11:54:35	No
Mean:	0.4	0.4	0.0005						
SD :	0.51	0.51	0.0009						
%RSD:	127.7	127.7	165.17						

Element: Tl Seq. No.: 208 AS Loc.: 110 Date: 06/29/2006
Sample ID: 0606405-01X5
µL dispensed: 10 from 148, 5 from 147, 15 from 110

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.3	0.3	0.0004	0.0015	0.0036	0.0000	0.0032	11:57:26	No
2	0.4	0.4	0.0005	0.0016	0.0043	-0.0014	0.0052	12:00:16	No
Mean:	0.3	0.3	0.0004						
SD :	0.05	0.05	0.0001						
%RSD:	13.18	13.18	17.93						

Element: Tl Seq. No.: 209 AS Loc.: 111 Date: 06/29/2006
Sample ID: 0606405-02X5
µL dispensed: 10 from 148, 5 from 147, 15 from 111

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0008	0.0020	0.0042	0.0005	0.0046	12:03:06	No
2	-0.2	-0.2	-0.0004	0.0007	0.0026	-0.0002	0.0027	12:05:57	No
Mean:	0.2	0.2	0.0002						
SD :	0.53	0.53	0.0009						
%RSD:	256.7	256.7	458.01						

Element: Tl Seq. No.: 210 AS Loc.: 112 Date: 06/29/2006
Sample ID: 0606405-03X5
µL dispensed: 10 from 148, 5 from 147, 15 from 112

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0002	0.0013	0.0045	0.0004	0.0029	12:08:47	No
2	-0.6	-0.6	-0.0011	0.0000	0.0040	0.0010	0.0044	12:11:37	No
Mean:	-0.2	-0.2	-0.0004						
SD :	0.55	0.55	0.0009						
%RSD:	323.2	323.2	210.69						

Element: Tl Seq. No.: 211 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	28.5	28.5	0.0478	0.0489	0.0674	0.0290	0.0432	12:14:28	No
2	28.6	28.6	0.0479	0.0490	0.0756	0.0297	0.0457	12:17:20	No
Mean:	28.5	28.5	0.0478						
SD :	0.03	0.03	0.0000						
%RSD:	0.09	0.09	0.09						

QC failed, value greater than upper limit for Tl.

Element: Tl Seq. No.: 212 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.5	27.5	0.0461	0.0472	0.0706	0.0292	0.0420	12:20:15	No
2	28.3	28.3	0.0474	0.0485	0.0687	0.0285	0.0413	12:23:09	No
Mean:	27.9	27.9	0.0467						
SD :	0.57	0.57	0.0010						
%RSD:	2.03	2.03	2.04						

112 1.

QC failed, value greater than upper limit for Tl.
Current analysis method being continued.

Element: Tl Seq. No.: 213 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0011	0.0000	0.0042	0.0006	0.0048	12:25:59	No
2	-0.4	-0.4	-0.0008	0.0003	0.0046	-0.0001	0.0053	12:28:48	No
Mean:	-0.5	-0.5	-0.0009						
SD :	0.12	0.12	0.0002						
%RSD:	25.00	25.00	20.96						

✓

QC value within specified limits.

Element: Tl Seq. No.: 214 AS Loc.: 113 Date: 06/29/2006
Sample ID: 0606405-04X5
µL dispensed: 10 from 148, 5 from 147, 15 from 113

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0000	0.0012	0.0042	0.0004	0.0037	12:31:38	No
2	-0.2	-0.2	-0.0005	0.0006	0.0032	0.0028	0.0053	12:34:29	No
Mean:	-0.1	-0.1	-0.0002						
SD :	0.23	0.23	0.0004						
%RSD:	433.7	433.7	158.13						

ND

Element: Tl Seq. No.: 215 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	28.3	28.3	0.0474	0.0485	0.0711	0.0298	0.0427	12:37:20	No
2	28.9	28.9	0.0484	0.0495	0.0698	0.0291	0.0438	12:40:12	No
Mean:	28.6	28.6	0.0479						
SD :	0.43	0.43	0.0007						
%RSD:	1.49	1.49	1.50						

114 1.

QC failed, value greater than upper limit for Tl.

Element: Tl Seq. No.: 216 AS Loc.: 126 Date: 06/29/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	29.3	29.3	0.0491	0.0502	0.0712	0.0296	0.0422	12:43:05	No
2	27.6	27.6	0.0462	0.0473	0.0677	0.0289	0.0417	12:45:58	No

250

Mean:	28.4	28.4	0.0476
SD :	1.24	1.24	0.0021
%RSD:	4.35	4.35	4.37

114%

QC failed, value greater than upper limit for Tl.
Current analysis method being continued.

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Element: Tl Seq. No.: 217 AS Loc.: 148 Date: 06/29/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0006	0.0005	0.0053	0.0003	0.0058	12:48:50	No
2	-0.8	-0.8	-0.0014	-0.0003	0.0024	0.0012	0.0023	12:51:39	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.34	0.34	0.0006						
%RSD:	63.24	63.24	53.99						

QC value within specified limits.

ANALYSIS SEQUENCE

BPG0228

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0228-CAL1	QC		1		6F28044		
BPG0228-CAL2	QC		2		6F30017		
BPG0228-CAL3	QC		3		6F30018		
BPG0228-CAL4	QC		4		6F30019		
BPG0228-CAL5	QC		5		6F30020		
BPG0228-ICV1	QC		6		6F30019		
BPG0228-SCV1	QC		7		6F30021		
BPG0228-ICB1	QC		8				
BF62320-DUP5	QC		9				
BF62320-MS5	QC		10				
BF62320-PS5	QC		11				
BPG0228-CCB1	QC		12		6F28014		
BPG0228-CCV1	QC		13		6F30019		
BF62320-PS6	QC		14				
BF62320-MS6	QC		15				
BF62320-DUP6	QC		16				
0606373-20	As: ppm Arsenic 7060	F	17				MACTEC Engineering & Consulti
0606373-21	As: ppm Arsenic 7060	F	18				MACTEC Engineering & Consulti
0606374-07	As: ppm Arsenic 7060	F	19				MACTEC Engineering & Consulti
0606374-08	As: ppm Arsenic 7060	F	20				MACTEC Engineering & Consulti
0606374-09	As: ppm Arsenic 7060	F	21				MACTEC Engineering & Consulti
0606374-10	As: ppm Arsenic 7060	F	22				MACTEC Engineering & Consulti
0606374-11	As: ppm Arsenic 7060	F	23				MACTEC Engineering & Consulti
BPG0228-CCB2	QC		24				
BPG0228-CCV2	QC		25		6F30019		
0606374-12	As: ppm Arsenic 7060	F	26				MACTEC Engineering & Consulti
0606374-12RE1	As: ppm Arsenic 7060	F	27				MACTEC Engineering & Consulti
0606374-13	As: ppm Arsenic 7060	F	28				MACTEC Engineering & Consulti
0606374-14	As: ppm Arsenic 7060	F	29				MACTEC Engineering & Consulti
0606374-15	As: ppm Arsenic 7060	F	30				MACTEC Engineering & Consulti
0606374-16	As: ppm Arsenic 7060	F	31				MACTEC Engineering & Consulti
BPG0228-SRD1	QC		32				
BPG0228-SRD2	QC		33				

Samples Loaded By Date Data Processed By Date

ANALYSIS SEQUENCE

BPG0228

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BF62617-BLK3	QC		34				
BF62617-BS3	QC		35				
BPG0228-CCB3	QC		36				
BPG0228-CCV3	QC		37		6F30019		
BF62617-BSD3	QC		38				
BF62617-SRM3	QC		39				
BF62617-DUP5	QC		40				
BF62617-MS5	QC		41				
BF62617-PS5	QC		42				
BF62617-DUP6	QC		43				
BF62617-MS6	QC		44				
BF62617-PS6	QC		45				
0606383-01	As: ppm Arsenic 7060	G	46				MACTEC Engineering & Consulting, In
0606383-02	As: ppm Arsenic 7060	E	47				MACTEC Engineering & Consulting, In
BPG0228-CCB4	QC		48				
BPG0228-CCV4	QC		49		6F30019		
0606383-03	As: ppm Arsenic 7060	G	50				MACTEC Engineering & Consulting, In
0606383-04	As: ppm Arsenic 7060	E	51				MACTEC Engineering & Consulting, In
0606383-05	As: ppm Arsenic 7060	G	52				MACTEC Engineering & Consulting, In
0606383-06	As: ppm Arsenic 7060	E	53				MACTEC Engineering & Consulting, In
0606383-07	As: ppm Arsenic 7060	G	54				MACTEC Engineering & Consulting, In
0606383-07RE1	As: ppm Arsenic 7060	G	55				MACTEC Engineering & Consulting, In
0606383-08	As: ppm Arsenic 7060	E	56				MACTEC Engineering & Consulting, In
0606383-08RE1	As: ppm Arsenic 7060	E	57				MACTEC Engineering & Consulting, In
0606383-09	As: ppm Arsenic 7060	E	58				MACTEC Engineering & Consulting, In
0606383-10	As: ppm Arsenic 7060	G	59				MACTEC Engineering & Consulting, In
BPG0228-CCB5	QC		60				
BPG0228-CCV5	QC		61		6F30019		
0606383-11	As: ppm Arsenic 7060	E	62				MACTEC Engineering & Consulting, In
0606383-12	As: ppm Arsenic 7060	E	63				MACTEC Engineering & Consulting, In
0606383-12RE1	As: ppm Arsenic 7060	E	64				MACTEC Engineering & Consulting, In
0606383-13	As: ppm Arsenic 7060	E	65				MACTEC Engineering & Consulting, In
0606383-14	As: ppm Arsenic 7060	E	66				MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

BPG0228

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0228-SRD3	QC		67				
BPG0228-SRD4	QC		68				
BPG0228-CCB6	QC		69				
BPG0228-CCV6	QC		70		6F30019		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GFAA Data Review Check List

SIF Method: Pb As **Run Date:** 6/30/06

Project Number(s): 06375, 371, 407, 382, 374, 373, 360, 383, 405, 428, 430, 429

Batch Number (s): 063006 4A

SOP NO. 30_2009

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the cal curve consist of four Calibration Standards including a blank and is its correlation within QC limits (≥0.995)?	X		
2. Is the low calibration standard at the reporting limit?	X		
3. If the low standard is above the reporting limit, is a CRI analyzed at the beginning of the run? Does the recovery meet QC limits(80-120%)?	X		
4. Is the midpoint calibration standard reanalyzed immediately after the curve and is it within QC limits of 90-110% (+ 5% for 200.9)?	X		
5. Is the ICV from a second source and is its recovery within QC limits (90-110%)	X		
6. Is the mid-point calibration standard re-analyzed every 10 samples and at the end of the run and are its recoveries within QC limits (90-110%)?	X		
7. Is the CCB analyzed at beginning, after every 10 samples and at end of the run and are its recoveries within QC limits (<2xMDL)?	X		
8. Are the method blank recoveries within QC limits?	X		
9. Are the LCS and ERA recoveries within QC limits (LCS: 80-120% for 7000, 85-115% for 200.9, ERA see COA)?		X	
10. Are matrix dups run at desired frequency (1 per 10 samples or per analytical batch) and are RPD's within QC limits (<20%)?	X		
11. Are matrix spikes run at desired frequency frequency (1 per 10 samples or per analytical batch) and are recoveries within QC limits (80-120%)?	X		
12. Are all samples with concentrations > the highest calibration standard diluted and reanalyzed?	X		
13. Has the serial dilution been analyzed at the required frequency (once per analytical batch) and are results within criterion (+ 10%RPD)?	X		
14. Is the batch post digestion spike within QC limits (85-115%)?	X		
15. Are all sample hold times met?	X		
16. Are all non-conformances included and noted?	X		
17. Is the correct methodology used for sample prep and analysis?	X		
18. Are all calculations checked?	X		
19. Did analyst sign/date appropriate printouts and report sheets?	X		
20. Are all samples located in the correct auto-sampler locations?	X		

Comments on any "No" response:

PD BF62906-BS1, BSD1 high redigest confirms hits from previous dig

PD 06374-12, 06383-07, 08, 12 06405-03, 04 use 15X

Analyst: [signature] Date: 7/1/06 2nd Rvw: SD Date: 7/3/06

Control Number: 30.0022-0602A Page _____

Autosampler Loading List

Sample Information File: 063006YA.SIF
Methods: Pb 2 As 5

Location	Elements	Solution
1	Pb	Sample: BF62902-blk1
2	Pb	Sample: BF62902-bs1
3	Pb	Sample: BF62902-bsd1
4	Pb	~~Sample: BF62902-blk2~~ 0606375-01
5	Pb	~~Sample: 0606375-01~~ BF62902-BLK2
6	Pb	Sample: 0606371-01
7	Pb	Sample: 0606407-01dis
8	Pb	Sample: 0606407-02dis
9	Pb	Sample: 0606407-03dis
10	Pb	Sample: 0606407-01
11	Pb	Sample: 0606407-02
12	Pb	Sample: 0606407-03
13	Pb	Sample: BF62902-dup1
14	Pb	Sample: BF62902-ms1
15	Pb	Sample: BF62902-sd1x5
16	Pb	Sample: 0606382-01
17	Pb	Sample: 0606430-02
18	Pb	Sample: BF62705-blk1
19	As	Sample: 0606374-07X5
20	As	Sample: 0606374-08X5
21	As	Sample: 0606374-09X5
22	As	Sample: 0606374-10X5
23	As	Sample: BF62320-DUP1X5
24	As	Sample: BF62320-MS1X20
25	As	Sample: BF62320-SD1X25
26	As	Sample: 0606374-11X5
27	As	Sample: 0606374-12X5
28	As	Sample: 0606374-13X5
29	As	Sample: 0606374-14X5
30	As	Sample: BF62320-DUP2X5
31	As	Sample: BF62320-MS2X20
32	As	Sample: BF62320-SD2X25
33	As	Sample: 0606374-15X5
34	As	Sample: 0606374-16X5
35	As	Sample: 0606373-20X5
36	As	Sample: 0606373-21X5
37	As	Sample: BF62713-BLK1
38	As	Sample: BF62713-BS1X20
39	As	Sample: BF62713-BSD1X20
40	As	Sample: BF62713-SRM1X50
41	As	Sample: 0606360-01X5
42	As	Sample: BF62617-BLK1
43	As	Sample: BF62617-BS1X20
44	As	Sample: BF62617-BSD1X20
45	As	Sample: BF62617-SRM1X50
46	As	Sample: 0606383-01X5
47	As	Sample: 0606383-02X5
48	As	Sample: 0606383-03X5
49	As	Sample: 0606383-04X5
50	As	Sample: 0606383-05X5
51	As	Sample: 0606383-06X5
52	As	Sample: 0606383-07X5
53	As	Sample: 0606383-08X5
54	As	Sample: 0606383-09X5
55	As	Sample: 0606383-10X5
56	As	Sample: 0606383-11X5
57	As	Sample: BF62617-DUP1X5
58	As	Sample: BF62617-MS1X20
59	As	Sample: BF62617-SD1X25
60	As	Sample: 0606383-12X5
61	As	Sample: 0606383-13X5

62	As	Sample: BF62617-DUP2X5
63	As	Sample: BF62617-MS2X20
64	As	Sample: BF62617-SD2X25
65	As	Sample: 0606383-14X5
66	As	Sample: 0606405-01X5
67	As	Sample: 0606405-02X5
68	As	Sample: 0606405-03X5
69	As	Sample: 0606405-04X5
70	As	Sample: BF62705-BLK1
71	As	Sample: BF62705-BS2
72	As	Sample: BF62705-BSD2
73	As	Sample: 0606428-01
74	As	Sample: 0606430-01
75	As	Sample: 0606430-02
76	As	Sample: BF62705-BLK2
77	As	Sample: 0606429-01DIS
78	As	Sample: 0606429-02DIS
79	As	Sample: 0606429-03DIS
80	As	Sample: 0606429-04DIS
81	As	Sample: 0606429-05DIS
82	As	Sample: 0606430-01DIS
83	As	Sample: 0606430-02DIS
84	As	Sample: BF62705-DUP2
85	As	Sample: BF62705-MS4
86	As	Sample: BF62705-SD2X5
87	Pb	Sample: 0606386-16dir
121	Pb,As	Stock Standard: 5.0 µg/L
124	Pb,As	Stock Standard: 10.0 µg/L
126	Pb,As	Stock Standard: 25.0 µg/L
	Pb,As	STD 3: 25.0000 µg/L
	Pb,As	CCV: 25.0000 µg/L
129	Pb,As	Stock Standard: 50.0 µg/L
131	Pb,As	Recovery Stock: 50.0 µg/L
134	Pb,As	ICV: 25.0000 µg/L
136	Pb,As	CRA 2: 2.0000 µg/L
141	Pb	Standard 0
	Pb	ICB/CCB: 0.0000 µg/L
	Pb	Diluent
146	Pb	Modifier 2
147	As	Modifier 1
148	As	Standard 0
	As	ICB/CCB: 0.0000 µg/L
	As	Diluent

==========

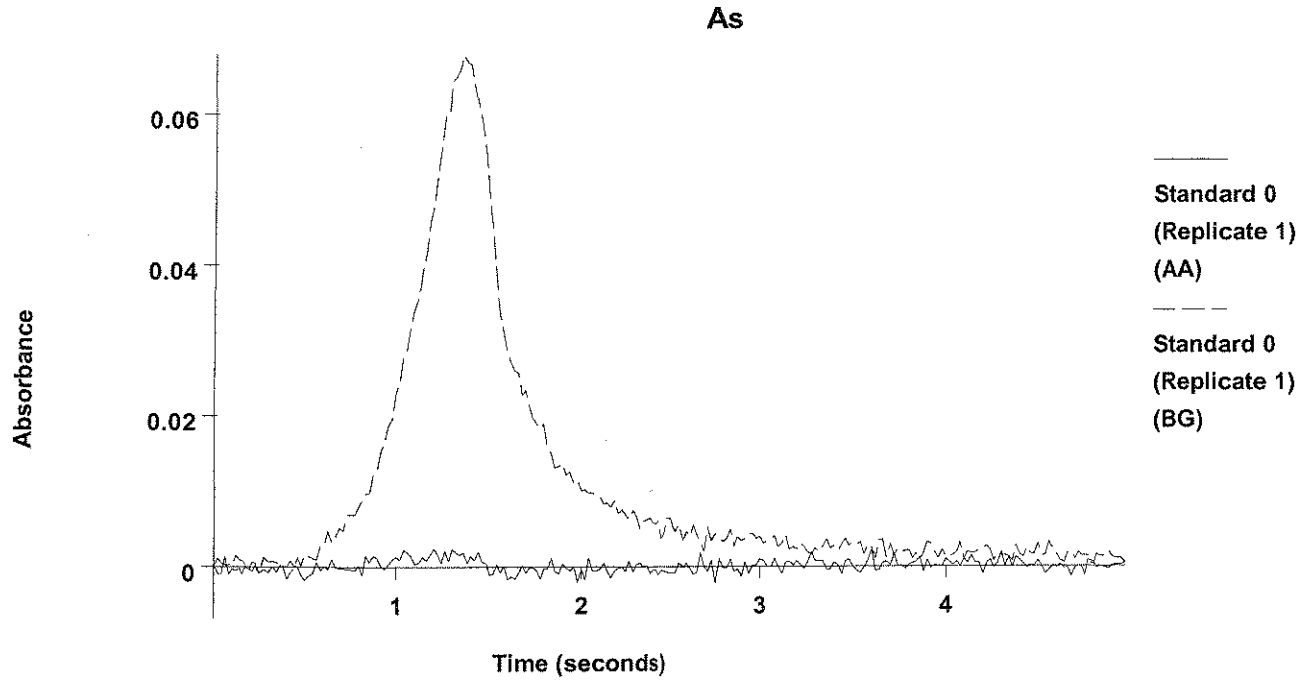
Method Name: As 5
Method Description: As
Element: As

Date: 06/30/2006
Technique:Furnace
Calibration Type:
As, Calc. Intercept : Linear
Wavelength: 193.7 nm
Energy: 100
Slit Width: 0.7
Lamp Current: 350mA
Sample Info Name: 063006YA.SIF Results Data Set Name: 063006yad

==========

Element: As Seq. No.: 39 AS Loc.: 148 Date: 06/30/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0006	0.0006	0.0024	0.0500	0.0680	01:33:44	Yes



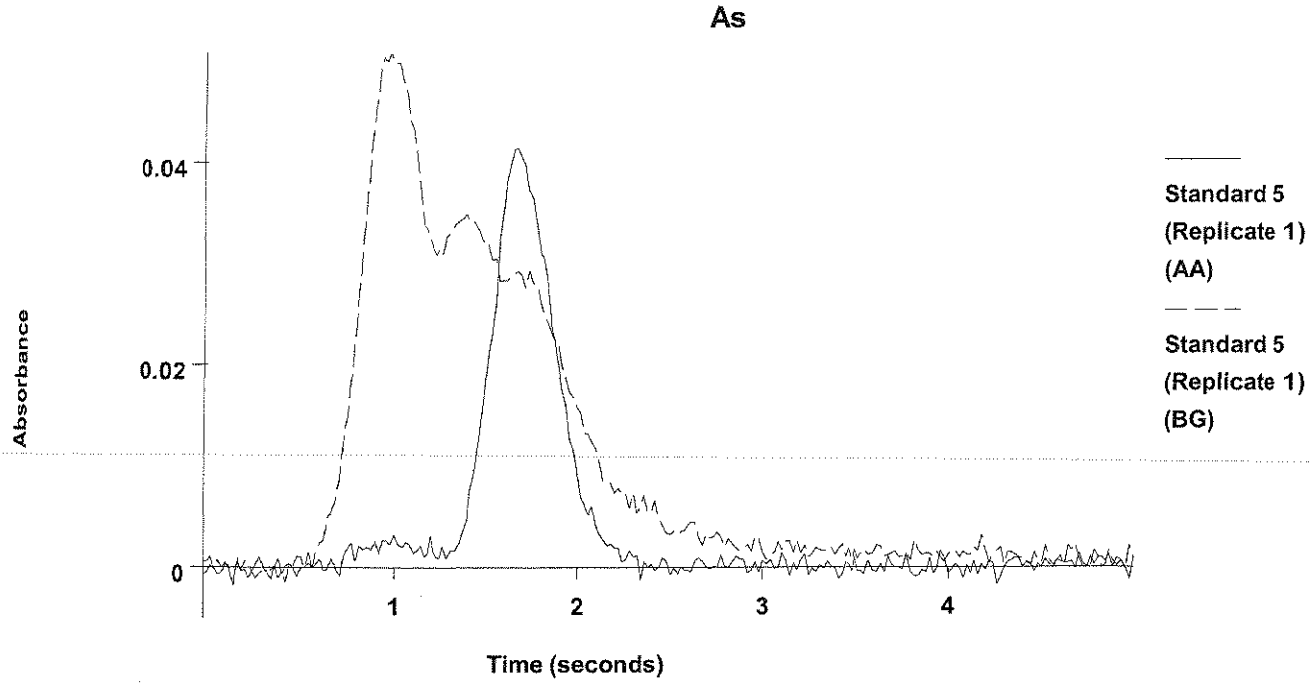
2			0.0010	0.0010	0.0024	0.0417	0.0710	01:36:33	Yes
Mean:			0.0008						
SD :			0.0003						
%RSD:			36.52						

Auto-zero performed.

==========

Element: As Seq. No.: 40 AS Loc.: 121 Date: 06/30/2006
Sample ID: Standard 5
µL dispensed: 10 from 148, 5 from 147, 15 from 121

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0173	0.0181	0.0415	0.0496	0.0508	01:39:48	Yes



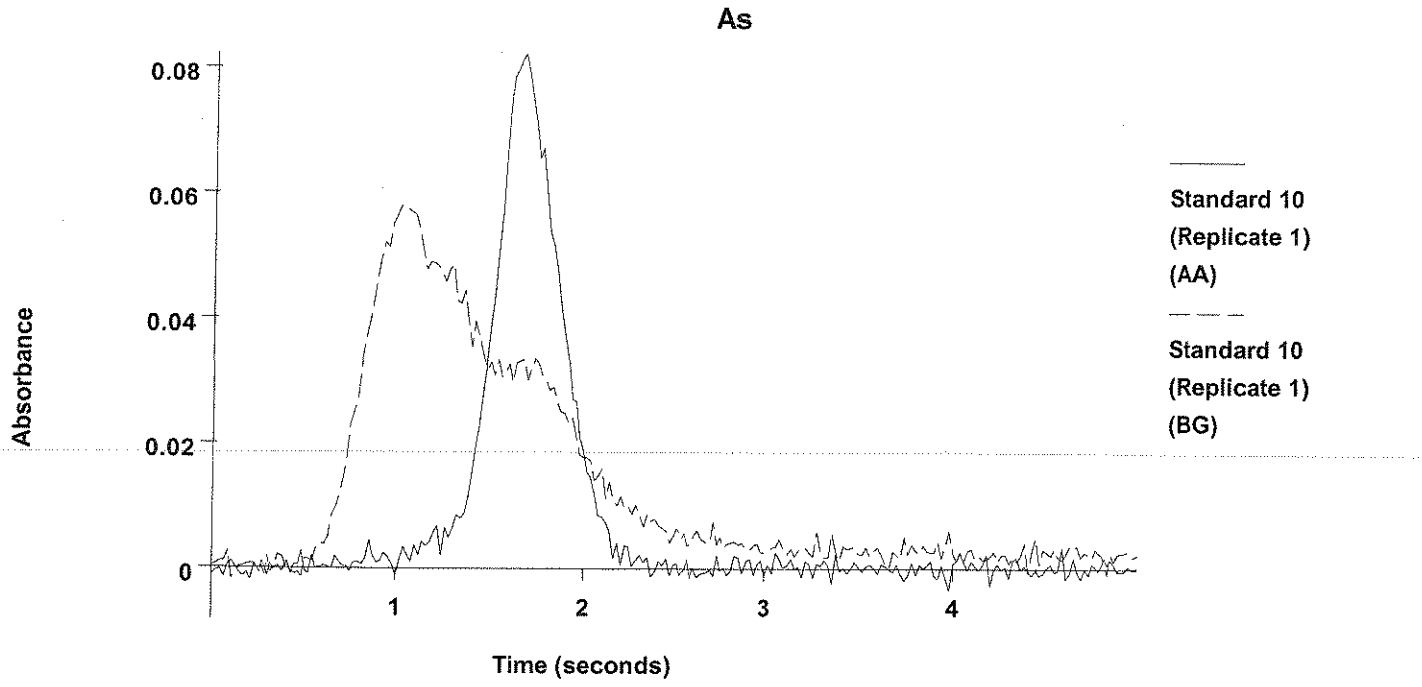
2		0.0166	0.0173	0.0407	0.0590	0.0571	01:42:40 Yes
Mean:		0.0169					
SD :		0.0005					
%RSD:		3.01					

[As] Standard number 1 applied. [5.0]
Correlation Coefficient: 1.00000 Slope: 0.00339
Intercept : 0.00000

==========

Element: As Seq. No.: 41 AS Loc.: 124 Date: 06/30/2006
Sample ID: Standard 10
µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0348	0.0355	0.0823	0.0623	0.0580	01:45:58	Yes

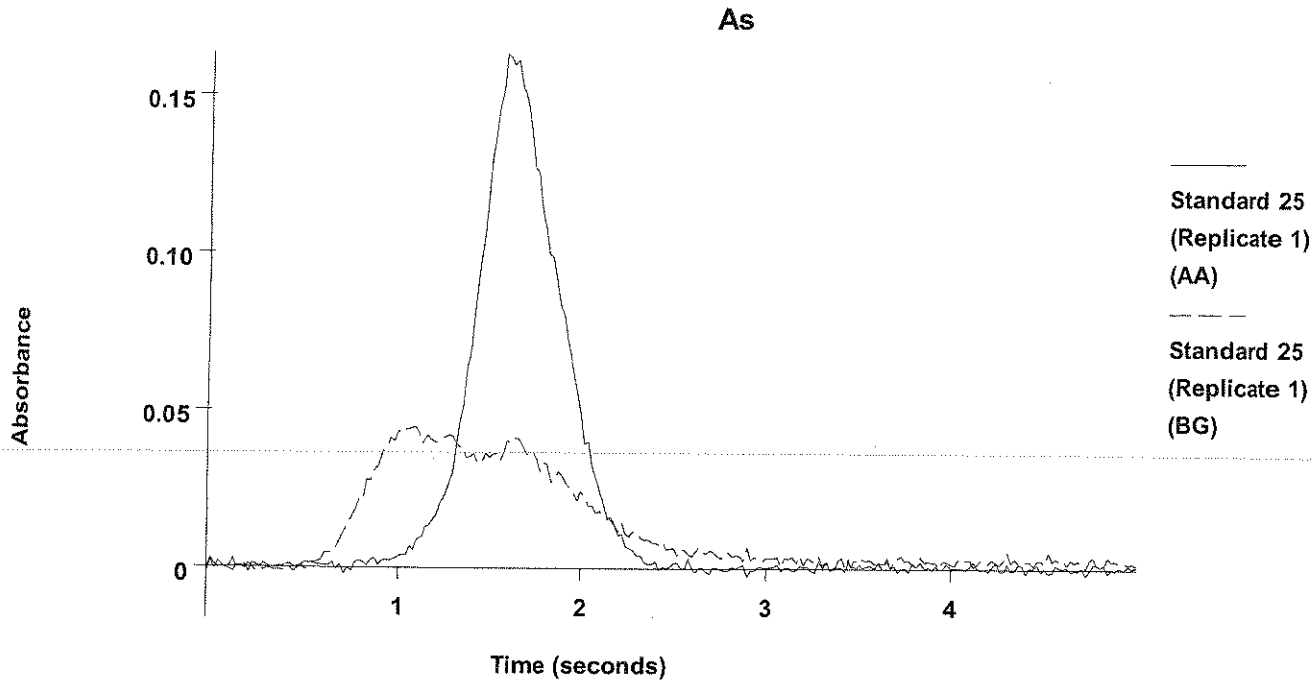


2		0.0339	0.0346	0.0833	0.0631	0.0581	01:48:51 Yes
Mean:		0.0343					
SD :		0.0006					
%RSD:		1.86					

[As] Standard number 2 applied. [10.0]
Correlation Coefficient: 0.99997 Slope: 0.00343
Intercept : -0.00007

Element: As Seq. No.: 42 AS Loc.: 126 Date: 06/30/2006
Sample ID: Standard 25
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0849	0.0857	0.1633	0.0584	0.0447	01:52:10	Yes



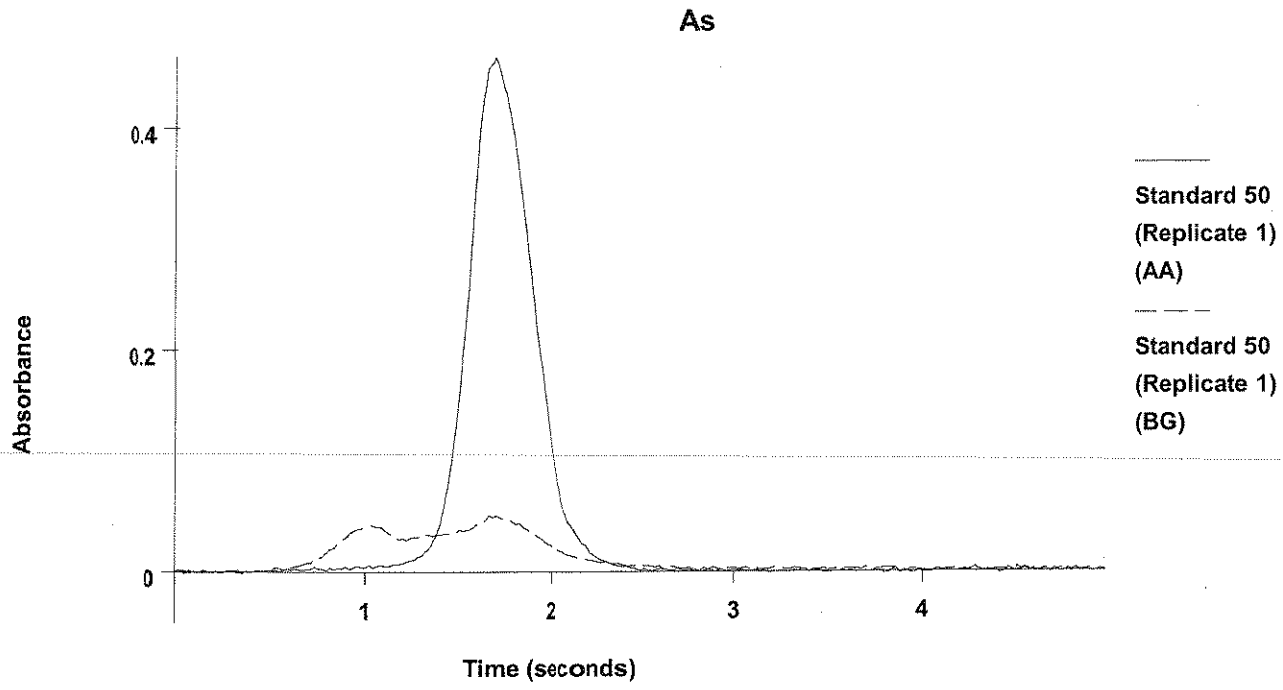
2	0.0869	0.0877	0.1649	0.0613	0.0510	01:55:03	Yes
Mean:	0.0859						
SD :	0.0014						
%RSD:	1.63						

[As] Standard number 3 applied. [25.0]
Correlation Coefficient: 1.00000 Slope: 0.00344
Intercept : -0.00012

==========

Element: As Seq. No.: 43 AS Loc.: 129 Date: 06/30/2006
Sample ID: Standard 50
µL dispensed: 10 from 148, 5 from 147, 15 from 129

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.1920	0.1928	0.4643	0.0565	0.0511	01:58:20	Yes



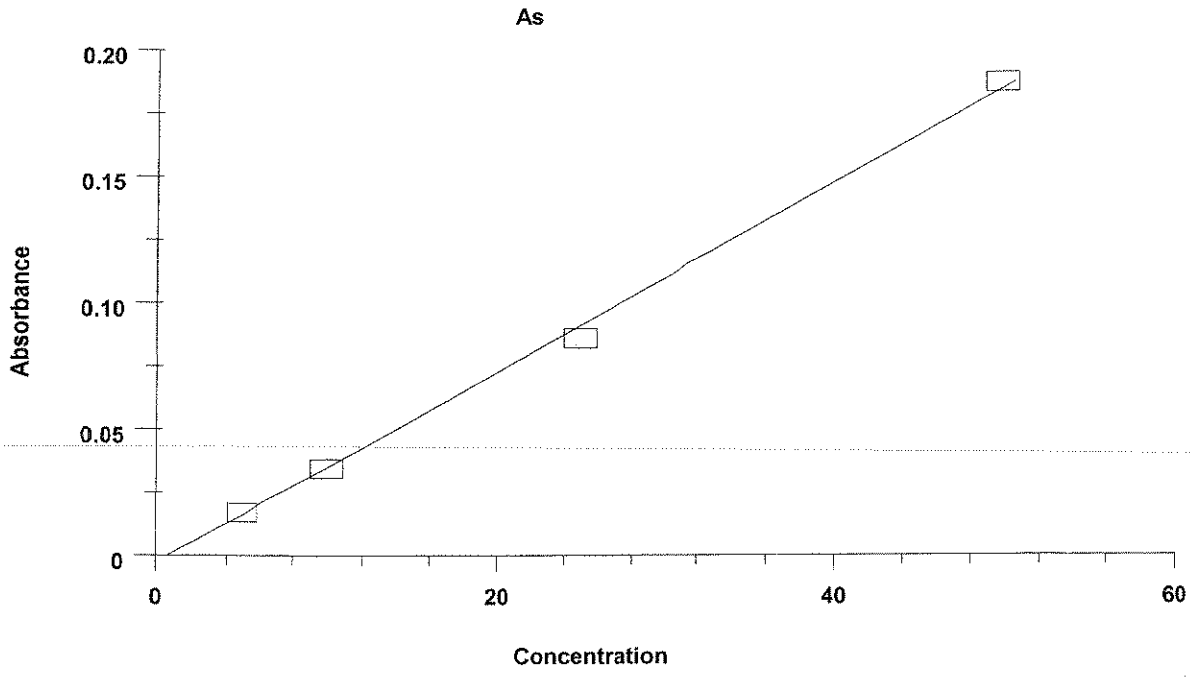
2	0.1819	0.1827	0.4463	0.0523	0.0472	02:01:10 Yes
Mean:	0.1870					
SD :	0.0071					
%RSD:	3.82					

[As] Standard number 4 applied. [50.0]
Correlation Coefficient: 0.99914 Slope: 0.00374
Intercept : -0.00243

Calibration data for As

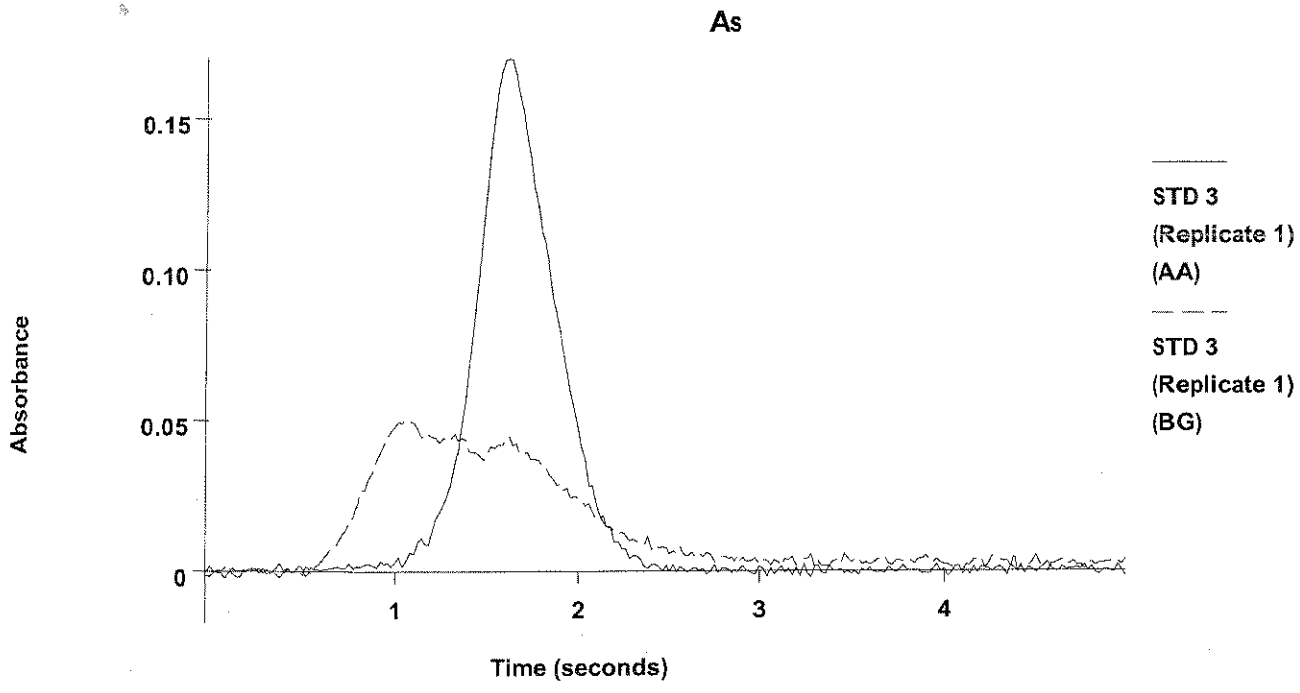
Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0008	-	----	----	----
Standard 5	0.0169	5.0	5.2	0.00	3.01
Standard 10	0.0343	10.0	9.8	0.00	1.86
Standard 25	0.0859	25.0	23.6	0.00	1.63
Standard 50	0.1870	50.0	50.7	0.01	3.82

Correlation Coefficient: 0.99914 Slope: 0.00374 Intercept: -0.0024



Element: As Seq. No.: 44 AS Loc.: 126 Date: 06/30/2006
Sample ID: STD 3
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.5	23.5	0.0855	0.0863	0.1701	0.0640	0.0506	02:04:07	Yes



2	23.7	23.7	0.0861	0.0869	0.1642	0.0665	0.0533	02:06:59	Yes

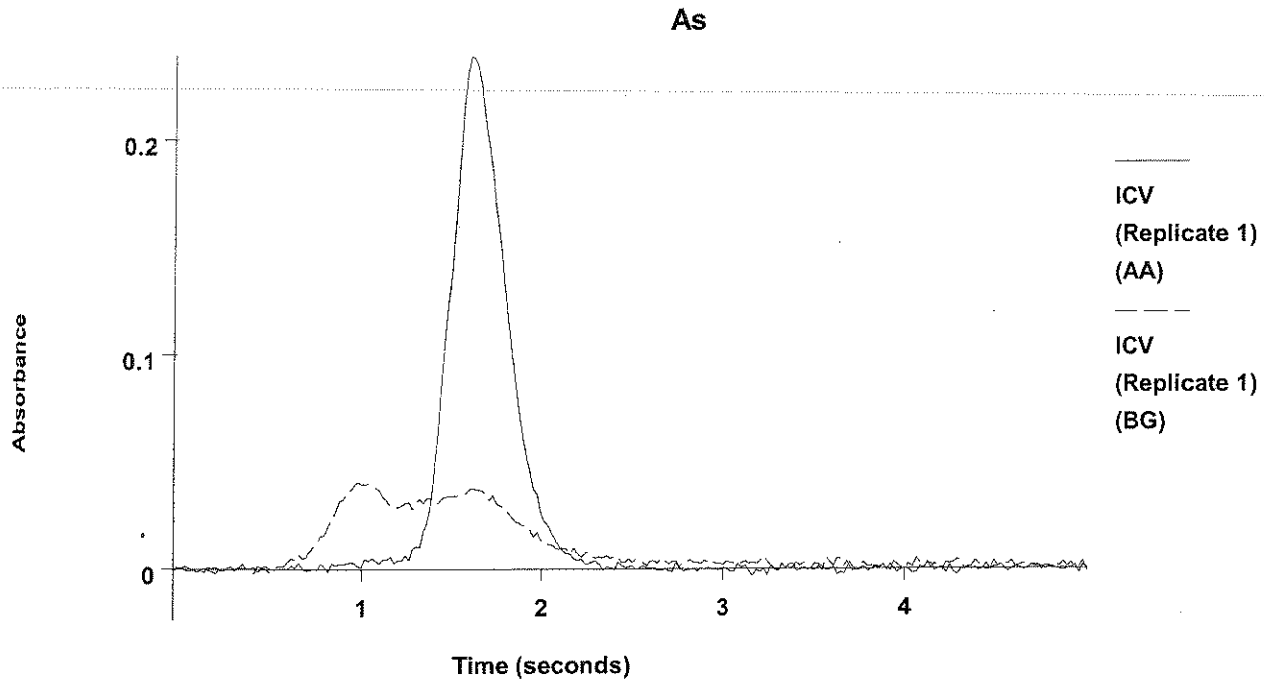
Mean:	23.6	23.6	0.0858
SD :	0.10	0.10	0.0004
%RSD:	0.44	0.44	0.45

QC value within specified limits.

==========

Element: As Seq. No.: 45 AS Loc.: 134 Date: 06/30/2006
Sample ID: ICV
µL dispensed: 10 from 148, 5 from 147, 15 from 134

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.9	23.9	0.0867	0.0875	0.2390	0.0477	0.0406	02:09:50	Yes



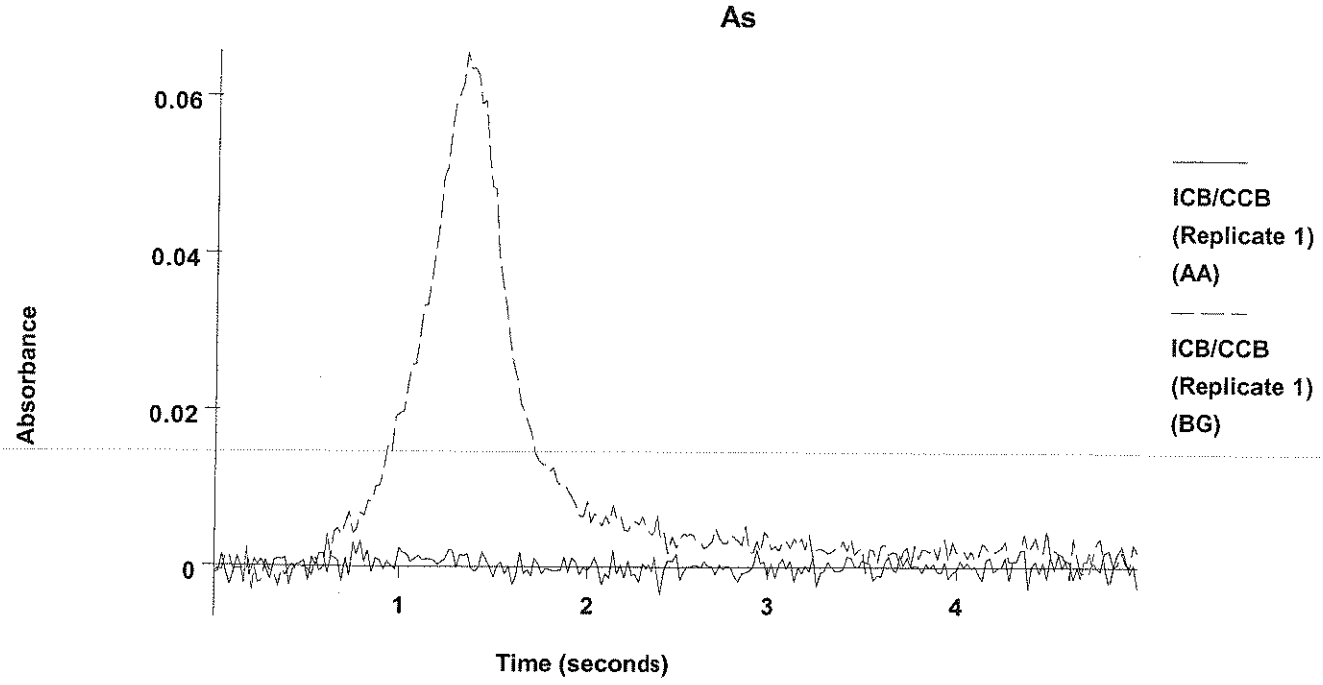
2	24.1	24.1	0.0877	0.0885	0.2135	0.0594	0.0491	02:12:39	Yes
Mean:	24.0	24.0	0.0872						
SD :	0.19	0.19	0.0007						
%RSD:	0.77	0.77	0.80						

QC value within specified limits.

==========

Element: As Seq. No.: 46 AS Loc.: 148 Date: 06/30/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	-0.0001	0.0006	0.0032	0.0433	0.0657	02:15:28	Yes



2	0.8	0.8	0.0004	0.0012	0.0042	0.0408	0.0678	02:18:17 Yes
Mean:	0.7	0.7	0.0001					
SD :	0.10	0.10	0.0004					
%RSD:	15.2	15.2	264.01					

QC value within specified limits.

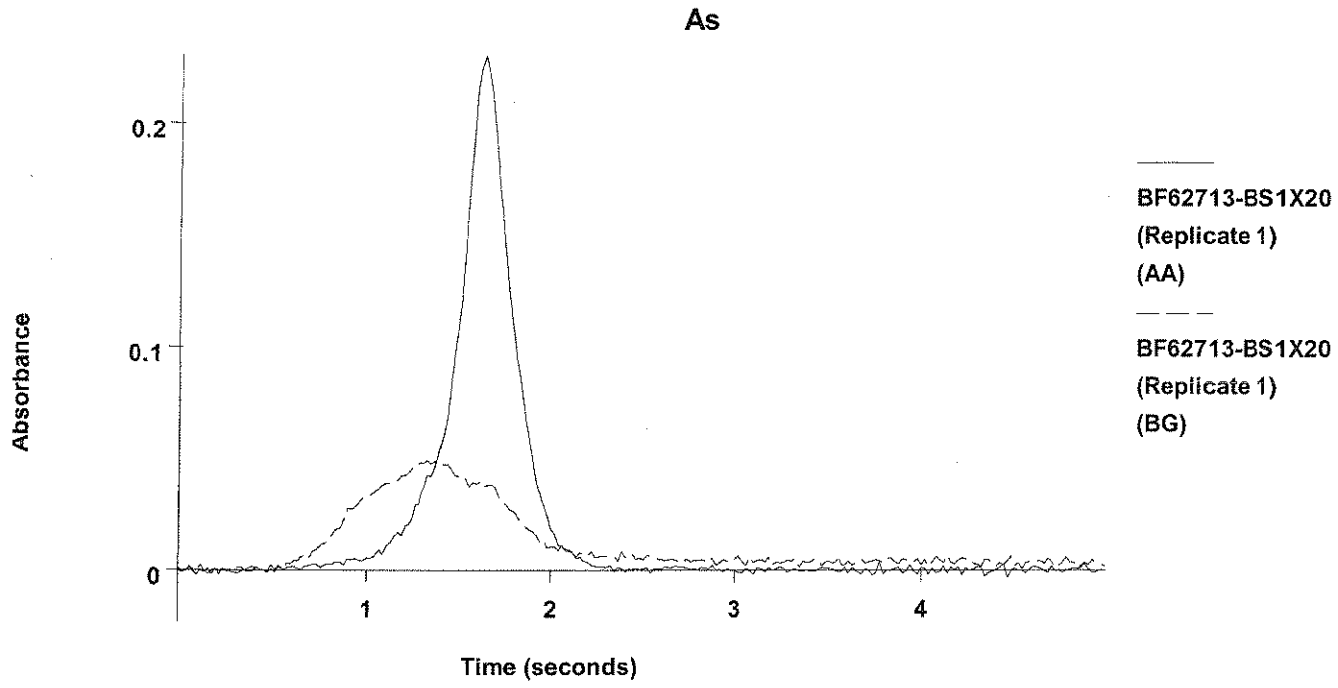
==========

Element: As Seq. No.: 47 AS Loc.: 19 Date: 06/30/2006

Sample ID: 0606374-07X5

µL dispensed: 10 from 148, 5 from 147, 15 from 19

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	17.7	17.7	0.0637	0.0644	0.1089	0.1059	0.0581	02:21:07	Yes

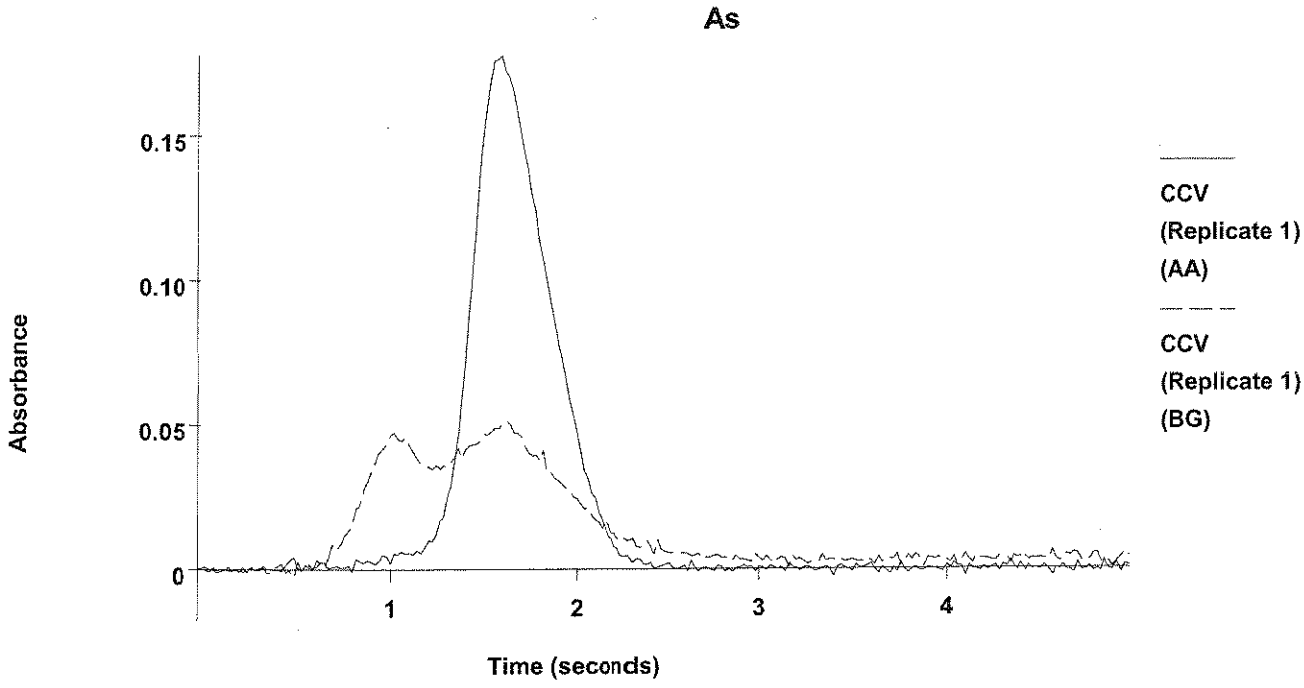


2	22.6	22.6	0.0822	0.0829	0.2306	0.0551	0.0499	04:46:15 Yes
Mean:	22.8	22.8	0.0826					
SD :	0.17	0.17	0.0006					
%RSD:	0.76	0.76	0.79					

915

Element: As Seq. No.: 73 AS Loc.: 126 Date: 06/30/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.9	23.9	0.0869	0.0887	0.1778	0.0631	0.0516	04:49:07	Yes



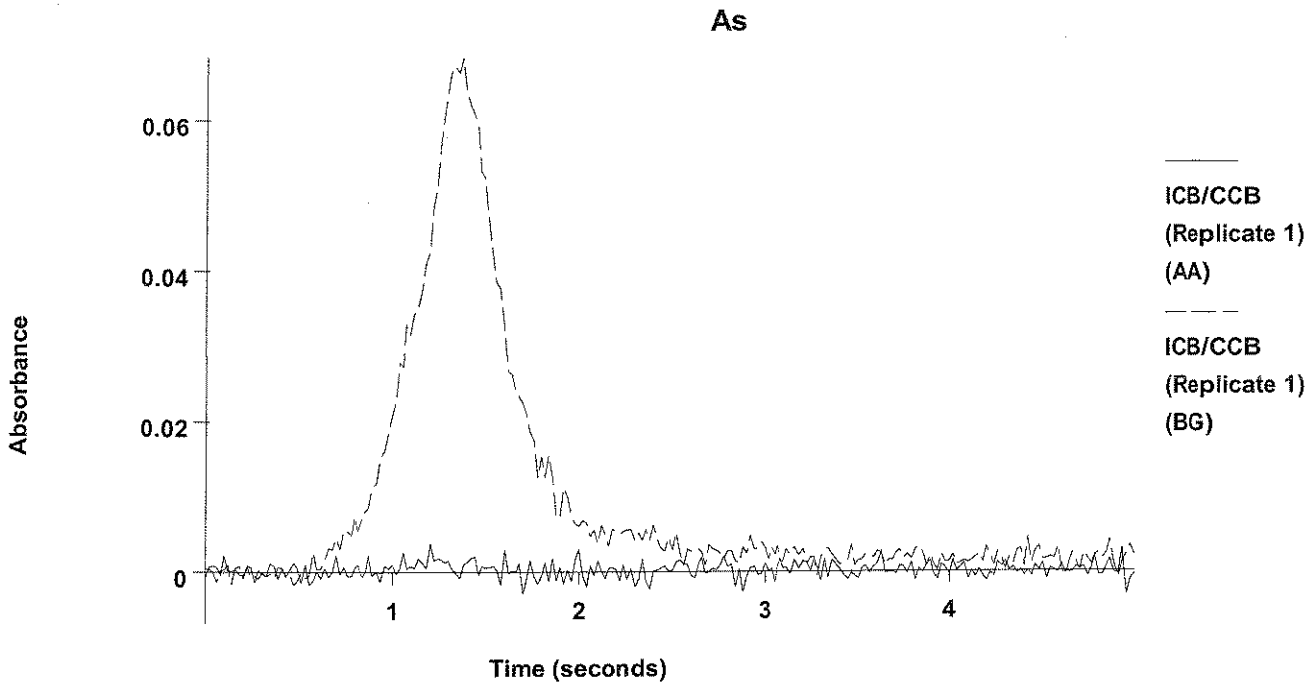
2	23.7	23.7	0.0861	0.0880	0.1710	0.0666	0.0526	04:52:00 Yes
Mean:	23.8	23.8	0.0865					
SD :	0.15	0.15	0.0005					
%RSD:	0.61	0.61	0.63					

QC value within specified limits.

==========

Element: As Seq. No.: 74 AS Loc.: 148 Date: 06/30/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	-0.0006	0.0012	0.0038	0.0456	0.0684	04:54:50	Yes



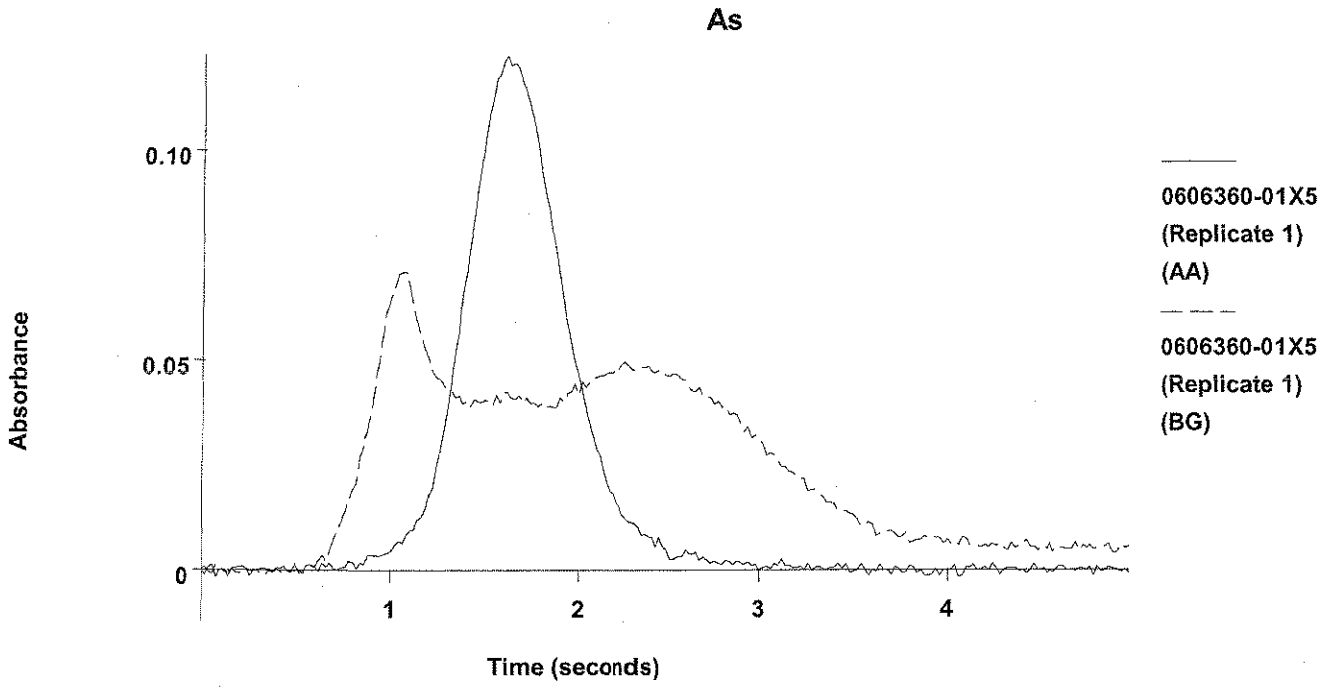
2	0.4	0.4	-0.0010	0.0008	0.0030	0.0442	0.0661	04:57:40 Yes
Mean:	0.4	0.4	-0.0008					
SD :	0.08	0.08	0.0003					
%RSD:	17.4	17.4	34.60					

QC value within specified limits.

==========

Element: As Seq. No.: 75 AS Loc.: 39 Date: 06/30/2006
Sample ID: BF62713-BSD1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 39

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.1	23.1	0.0840	0.0848	0.2410	0.0463	0.0429	05:00:29	Yes



2	20.6	20.6	0.0745	0.0752	0.1135	0.1186	0.0663	05:20:39 Yes
Mean:	21.0	21.0	0.0762					
SD :	0.64	0.64	0.0024					
%RSD:	3.05	3.05	3.15					

Recovery for As = 93.7 % within 85 % to 115 %

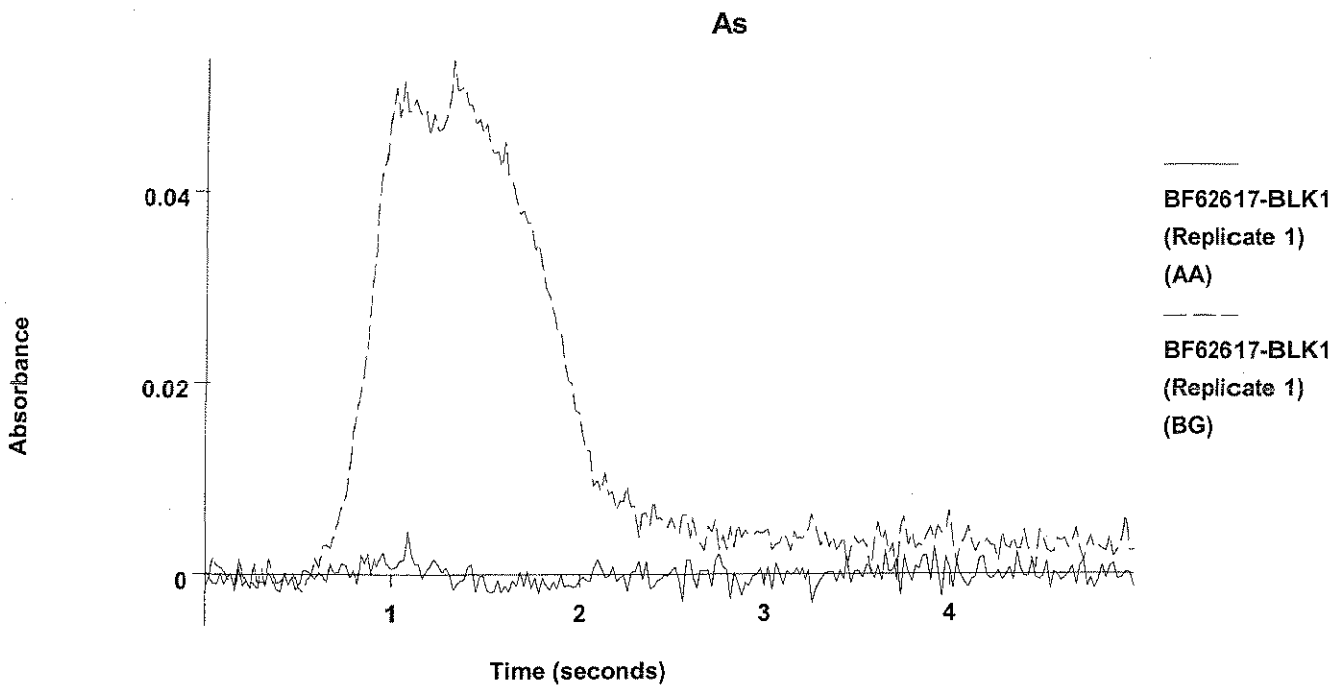
==========

Element: As Seq. No.: 79 AS Loc.: 42 Date: 06/30/2006

Sample ID: BF62617-BLK1

µL dispensed: 10 from 148, 5 from 147, 15 from 42

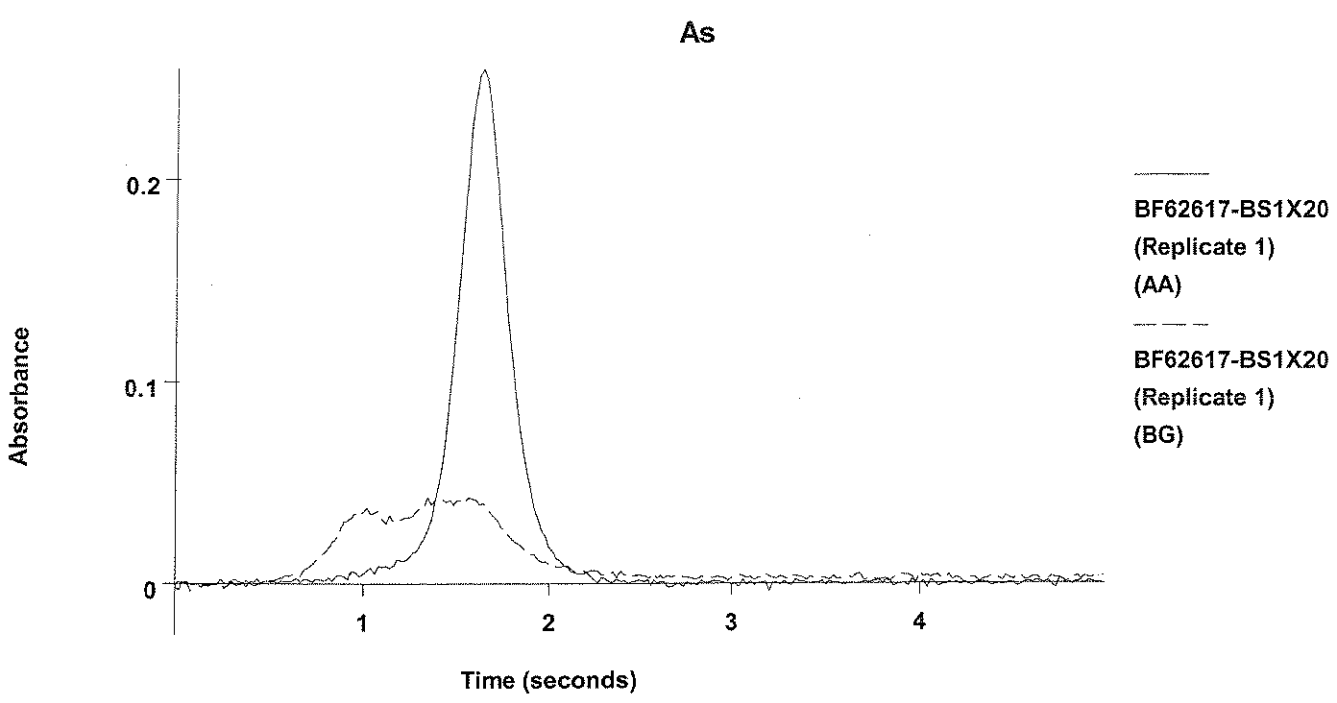
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.3	0.3	-0.0011	-0.0004	0.0045	0.0618	0.0538	05:23:30	Yes



2	0.1	0.1	-0.0020	-0.0012	0.0036	0.0606	0.0516	05:26:20 Yes
Mean:	0.2	0.2	-0.0016					
SD :	0.16	0.16	0.0006					
%RSD:	69.1	69.1	38.70					

Element: As Seq. No.: 80 AS Loc.: 43 Date: 06/30/2006
Sample ID: BF62617-BS1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 43

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.4	24.4	0.0887	0.0894	0.2547	0.0493	0.0431	05:29:10	Yes



2	23.6	23.6	0.0856	0.0864	0.2394	0.0551	0.0511	05:32:00 Yes
Mean:	24.0	24.0	0.0871					
SD :	0.58	0.58	0.0022					
%RSD:	2.40	2.40	2.47					

965

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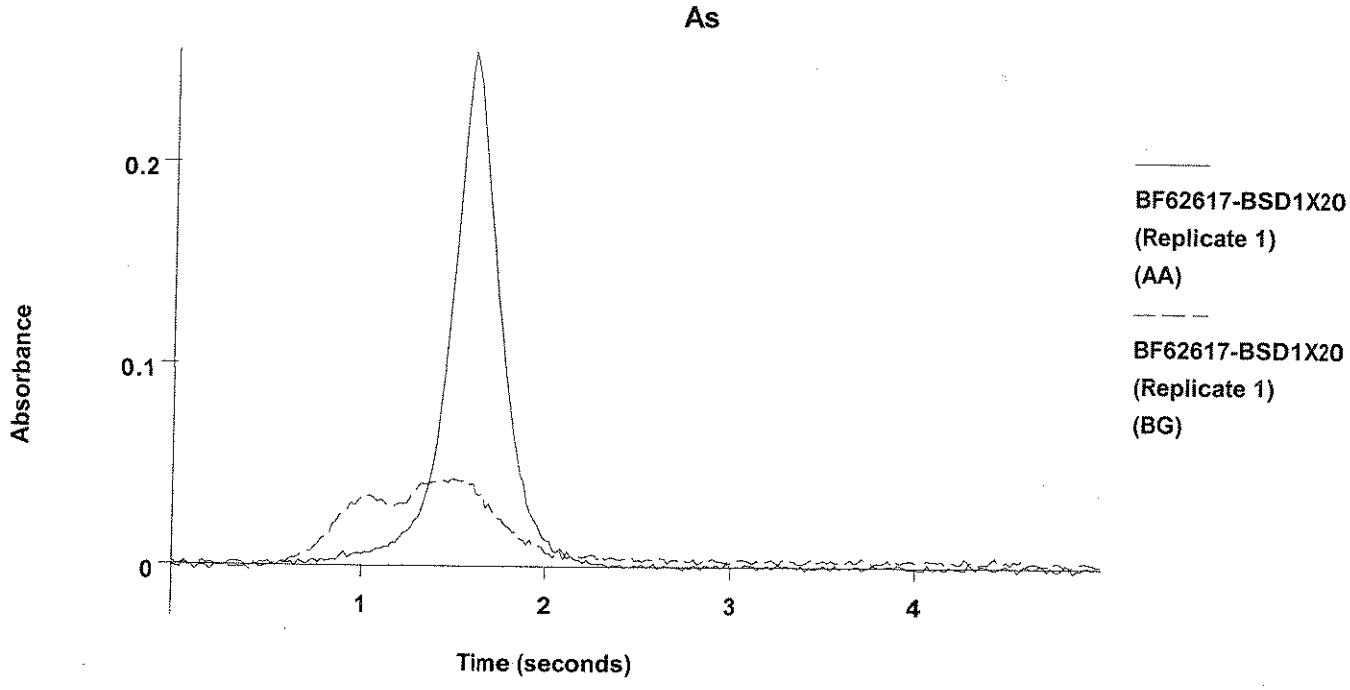
Element: As Seq. No.: 81 AS Loc.: 44 Date: 06/30/2006
Sample ID: BF62617-BSD1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 44

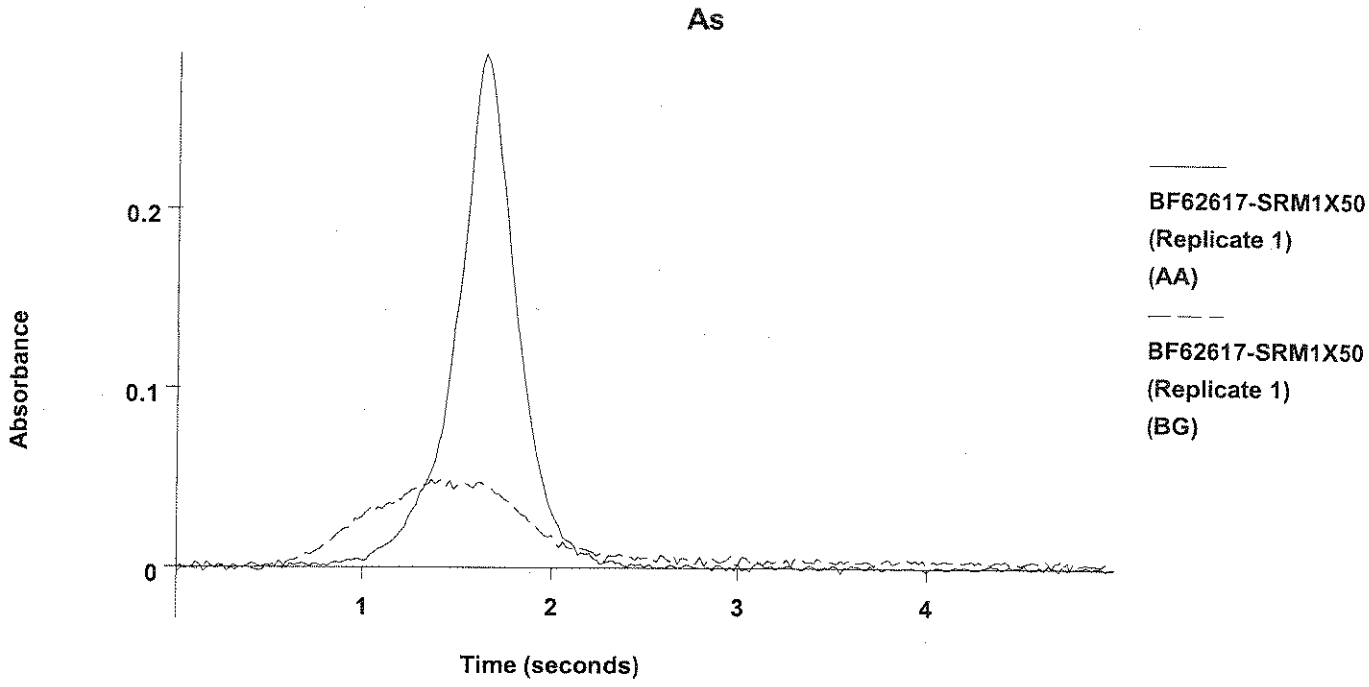
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.4	23.4	0.0851	0.0859	0.2554	0.0466	0.0433	05:34:51	Yes



2	23.2	23.2	0.0844	0.0852	0.2338	0.0529	0.0522	05:37:44 Yes
Mean:	23.3	23.3	0.0848					
SD :	0.12	0.12	0.0005					
%RSD:	0.52	0.52	0.54					

Element: As Seq. No.: 82 AS Loc.: 45 Date: 06/30/2006
Sample ID: BF62617-SRM1X50
µL dispensed: 10 from 148, 5 from 147, 15 from 45

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	30.0	30.0	0.1098	0.1106	0.2862	0.0570	0.0488	05:40:34	Yes

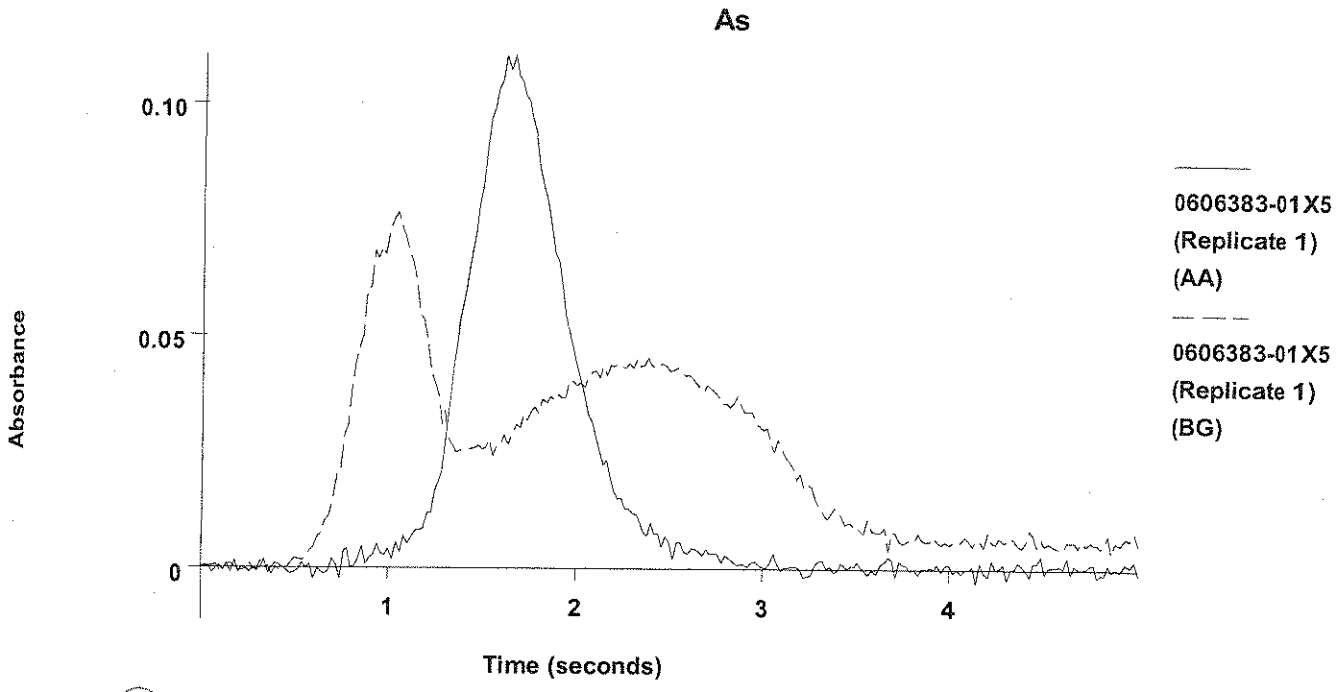


2	29.8	29.8	0.1088	0.1095	0.2852	0.0604	0.0505	05:43:25 Yes
Mean:	29.9	29.9	0.1093					
SD :	0.20	0.20	0.0008					
%RSD:	0.67	0.67	0.69					

$\frac{29.9(50)(100)}{1000} = 149.5$

Element: As Seq. No.: 83 AS Loc.: 46 Date: 06/30/2006
Sample ID: 0606383-01X5
µL dispensed: 10 from 148, 5 from 147, 15 from 46

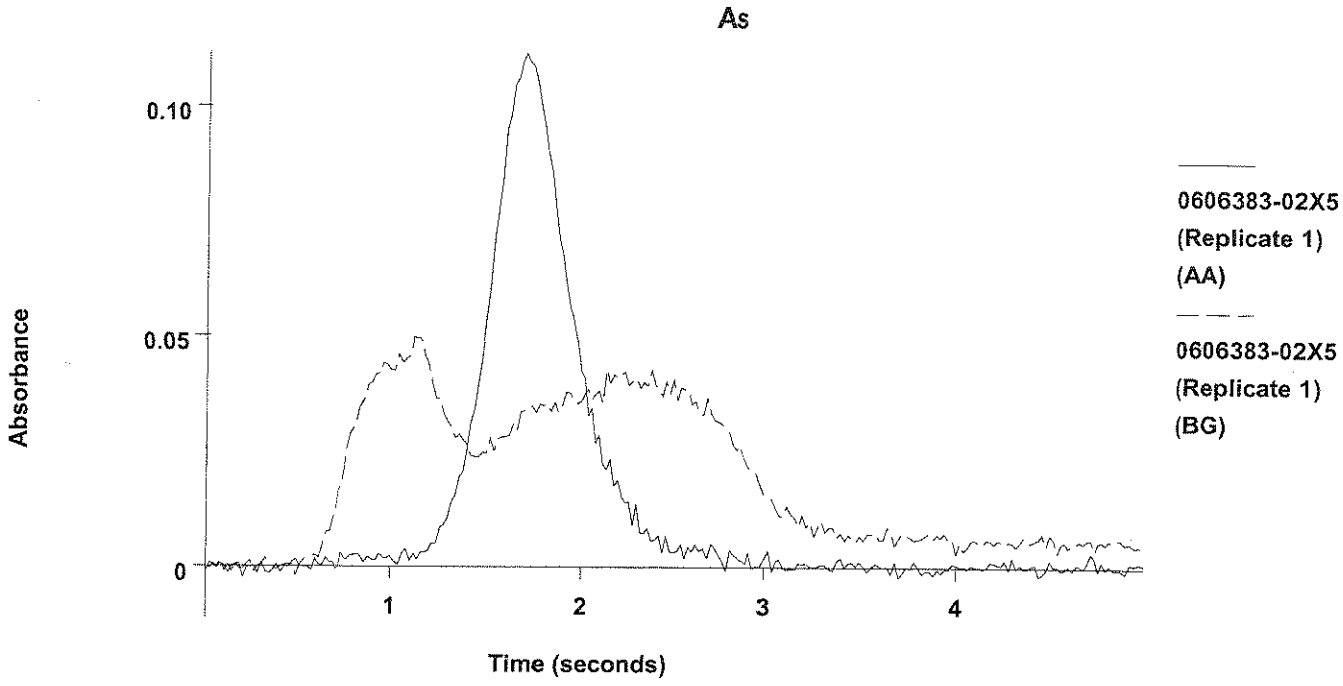
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	18.7	18.7	0.0676	0.0684	0.1105	0.1124	0.0766	05:46:16	Yes



2	19.1	19.1	0.0691	0.0699	0.1029	0.0958	0.0692	05:49:07 Yes
Mean:	18.9	18.9	0.0684					
SD :	0.29	0.29	0.0011					
%RSD:	1.51	1.51	1.56					

Element: As Seq. No.: 84 AS Loc.: 47 Date: 06/30/2006
Sample ID: 0606383-02X5
µL dispensed: 10 from 148, 5 from 147, 15 from 47

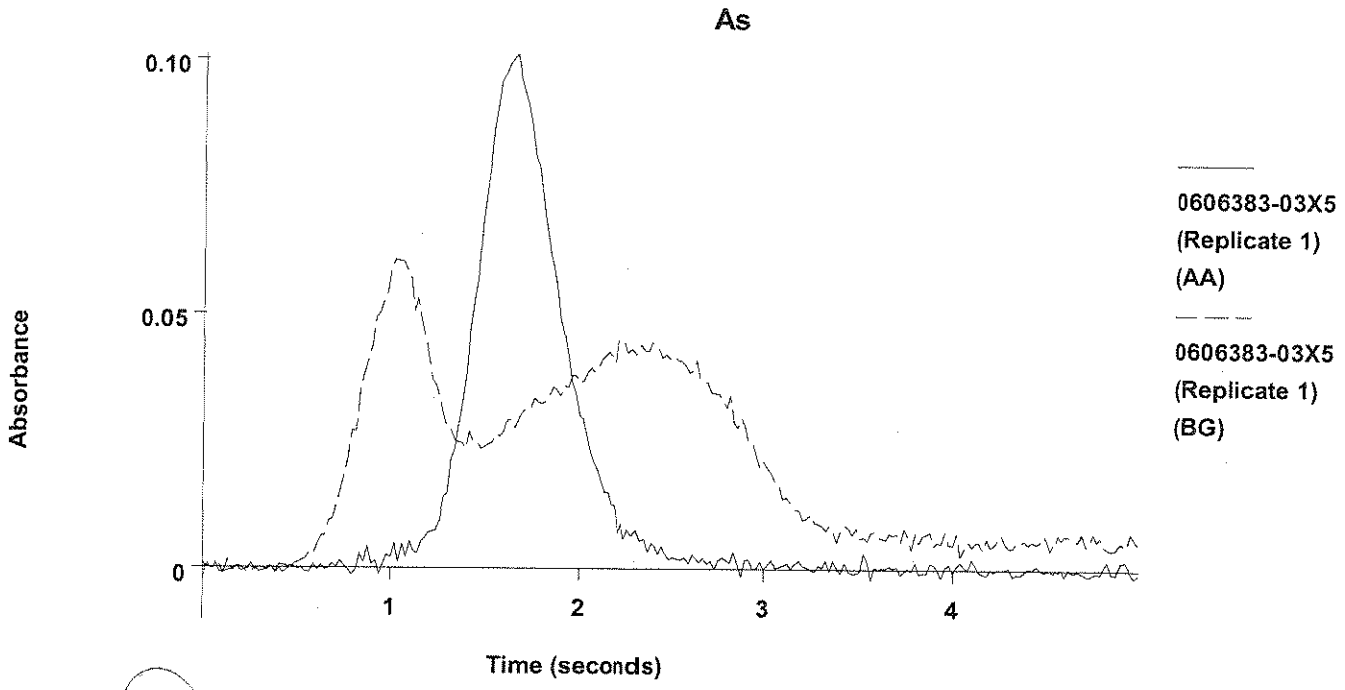
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	16.3	16.3	0.0585	0.0593	0.1116	0.0934	0.0498	05:51:57	Yes



2	16.3	16.3	0.0585	0.0592	0.1074	0.0947	0.0486 05:54:48	Yes
Mean:	16.3	16.3	0.0585					
SD :	0.02	0.02	0.0001					
%RSD:	0.09	0.09	0.10					

Element: As Seq. No.: 85 AS Loc.: 48 Date: 06/30/2006
Sample ID: 0606383-03X5
µL dispensed: 10 from 148, 5 from 147, 15 from 48

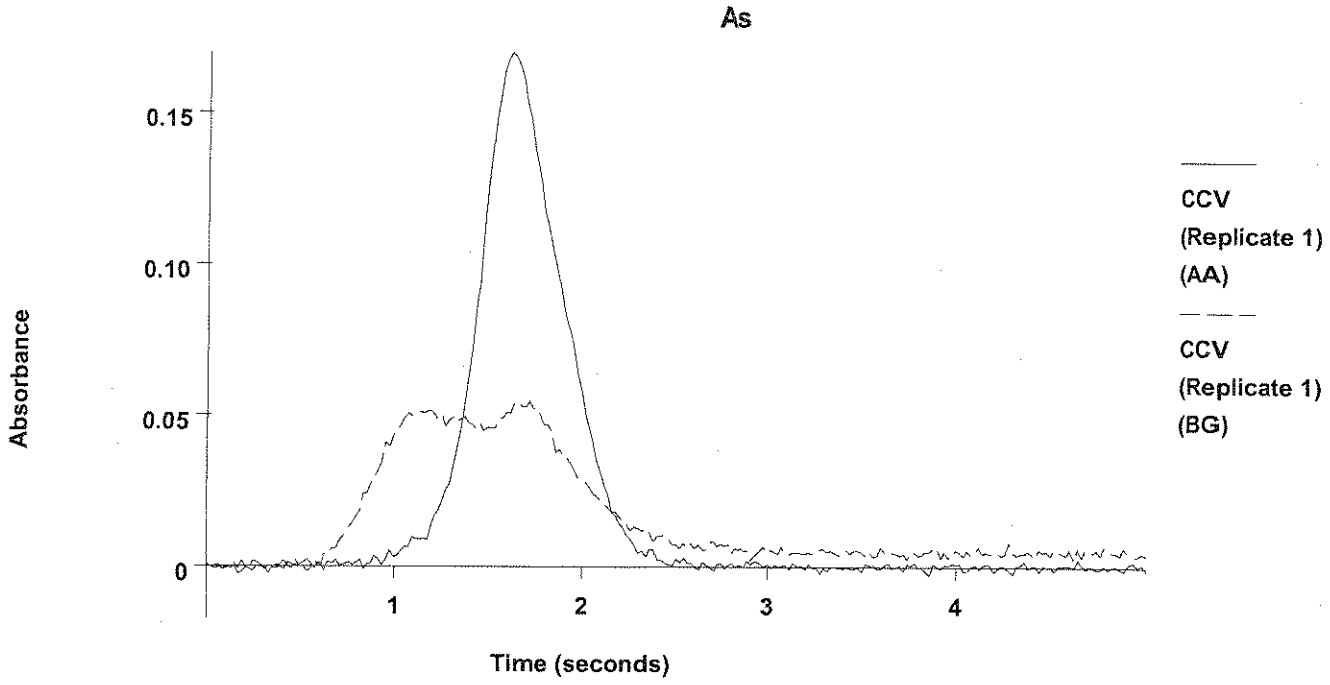
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	14.9	14.9	0.0531	0.0538	0.1010	0.0976	0.0606	05:57:37	Yes



2	15.5	15.5	0.0554	0.0562	0.0887	0.0985	0.0617	06:00:28 Yes
Mean:	15.2	15.2	0.0542					
SD :	0.44	0.44	0.0017					
%RSD:	2.92	2.92	3.05					

Element: As Seq. No.: 86 AS Loc.: 126 Date: 06/30/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.0	24.0	0.0873	0.0891	0.1698	0.0753	0.0546	06:03:20	Yes

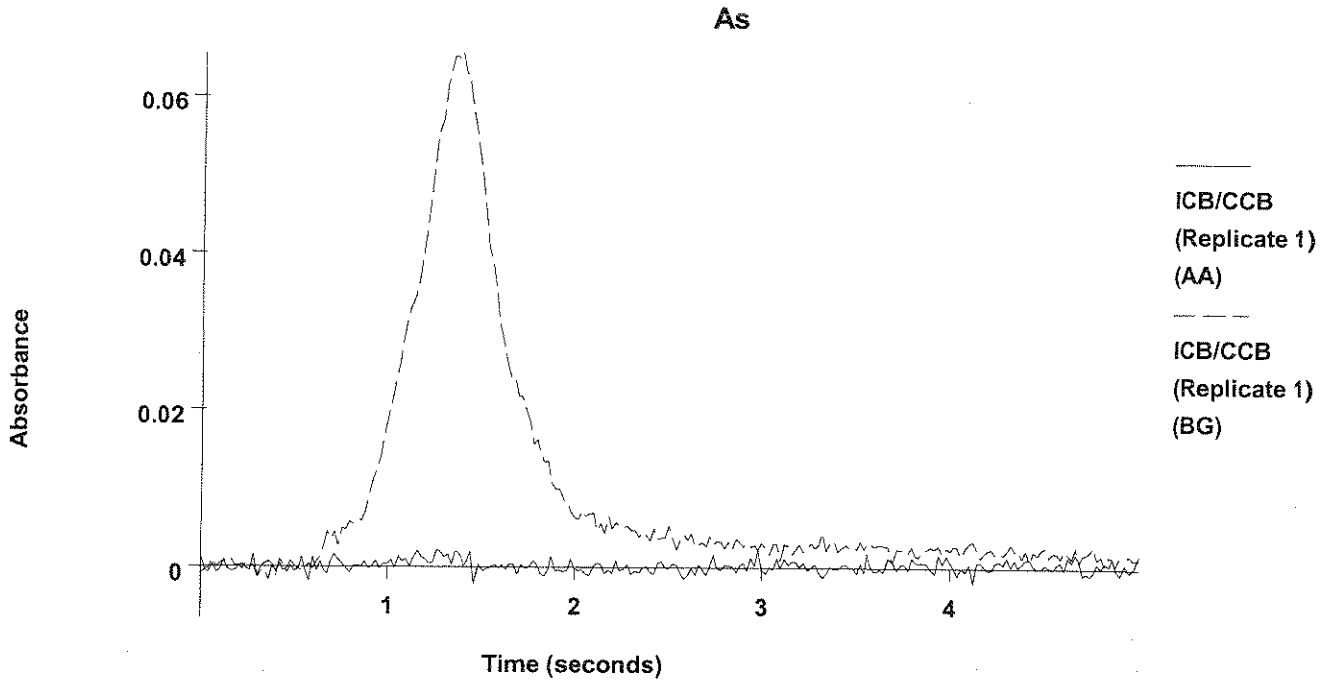


2	23.8	23.8	0.0863	0.0882	0.1658	0.0673	0.0529	06:06:12	Yes
Mean:	23.9	23.9	0.0868						
SD :	0.18	0.18	0.0007						
%RSD:	0.75	0.75	0.77						

QC value within specified limits.

Element: As Seq. No.: 87 AS Loc.: 148 Date: 06/30/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	-0.0009	0.0010	0.0023	0.0456	0.0655	06:09:02	Yes



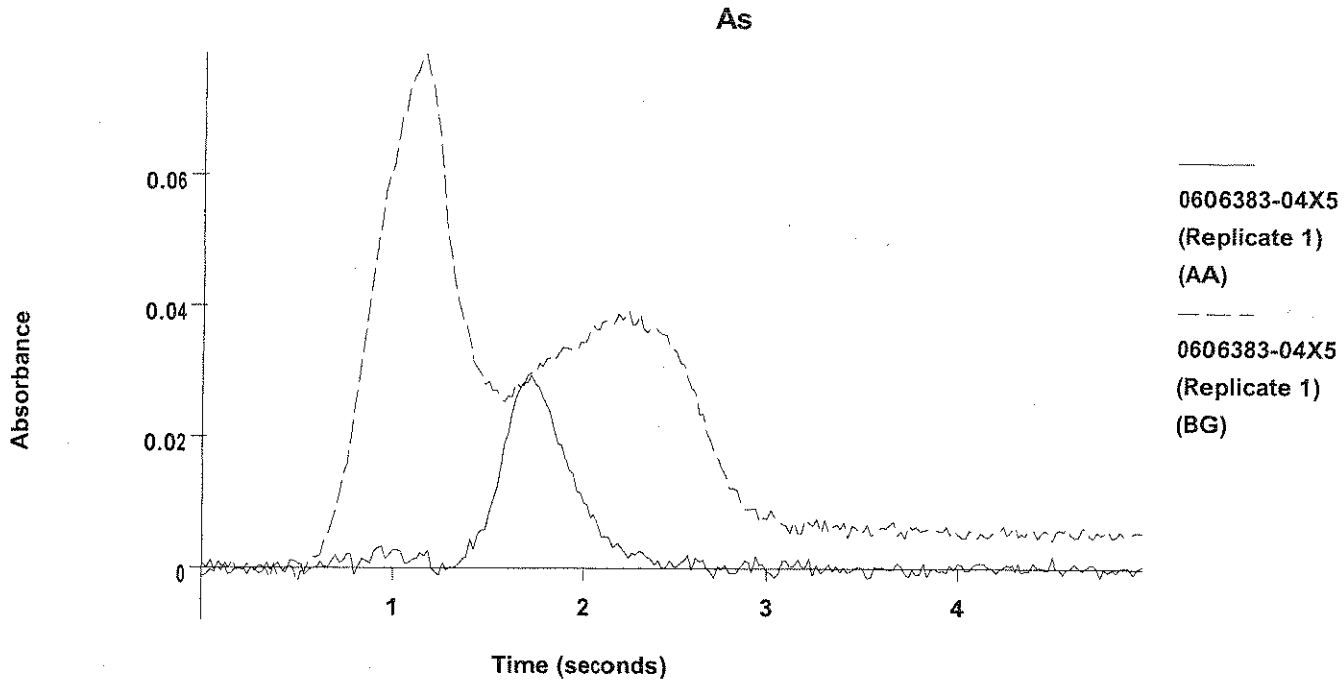
2	0.4	0.4	-0.0008	0.0011	0.0022	0.0440	0.0633	06:11:52	Yes
Mean:	0.4	0.4	-0.0008						
SD :	0.02	0.02	0.0001						
%RSD:	3.59	3.59	7.05						

QC value within specified limits.

==========

Element: As Seq. No.: 88 AS Loc.: 49 Date: 06/30/2006
Sample ID: 0606383-04X5
µL dispensed: 10 from 148, 5 from 147, 15 from 49

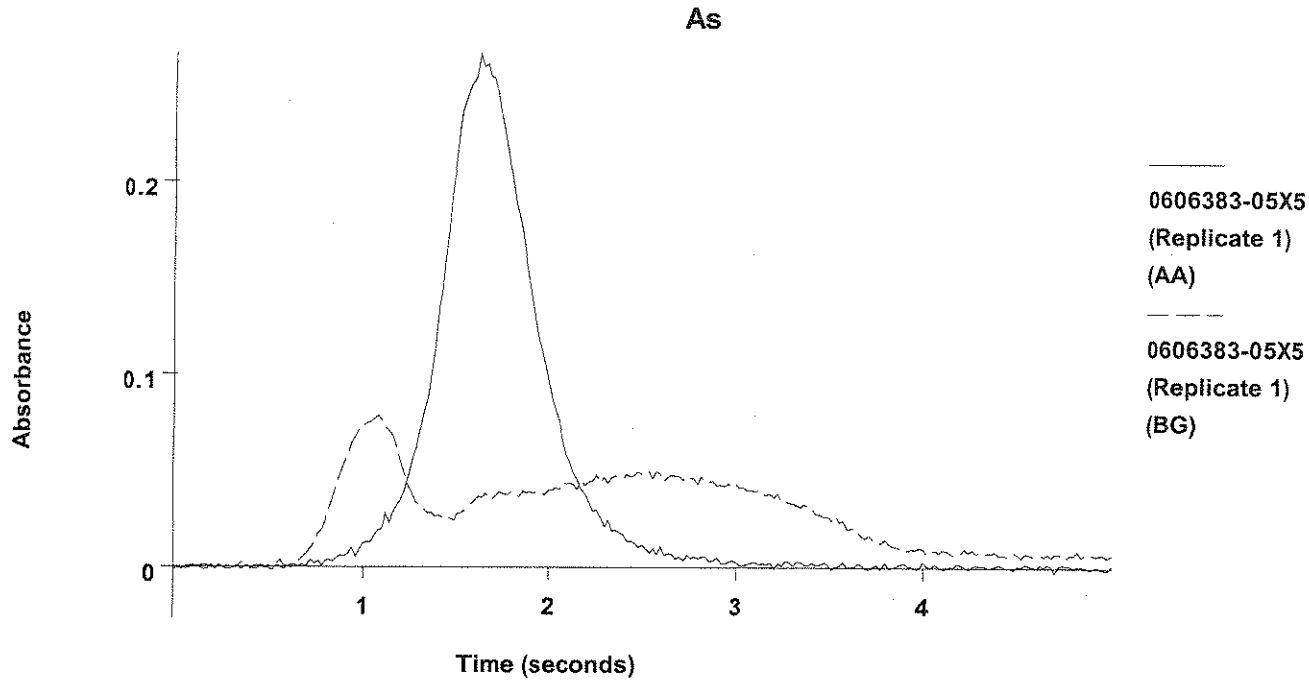
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.1	4.1	0.0128	0.0135	0.0293	0.0928	0.0785	06:14:41	Yes



2	4.3	4.3	0.0136	0.0144	0.0305	0.0924	0.0796	06:17:30 Yes
Mean:	4.2	4.2	0.0132					
SD :	0.16	0.16	0.0006					
%RSD:	3.82	3.82	4.53					

Element: As Seq. No.: 89 AS Loc.: 50 Date: 06/30/2006
Sample ID: 0606383-05X5
µL dispensed: 10 from 148, 5 from 147, 15 from 50

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	44.1	44.1	0.1622	0.1630	0.2664	0.1314	0.0785	06:20:20	Yes

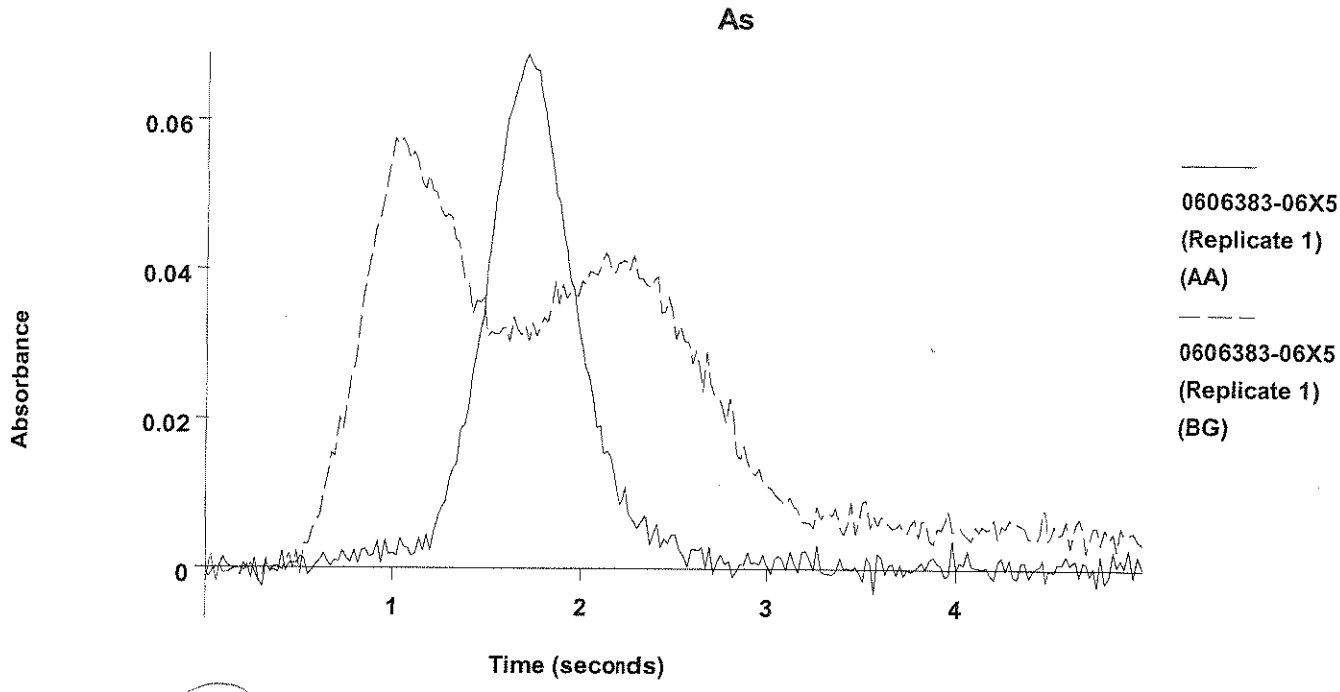


2	44.3	44.3	0.1629	0.1637	0.2462	0.1304	0.0818	06:23:11 Yes
Mean:	44.2	44.2	0.1626					
SD :	0.13	0.13	0.0005					
%RSD:	0.30	0.30	0.31					

==========

Element: As Seq. No.: 90 AS Loc.: 51 Date: 06/30/2006
Sample ID: 0606383-06X5
µL dispensed: 10 from 148, 5 from 147, 15 from 51

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	11.4	11.4	0.0402	0.0410	0.0689	0.0951	0.0576	06:26:01	Yes

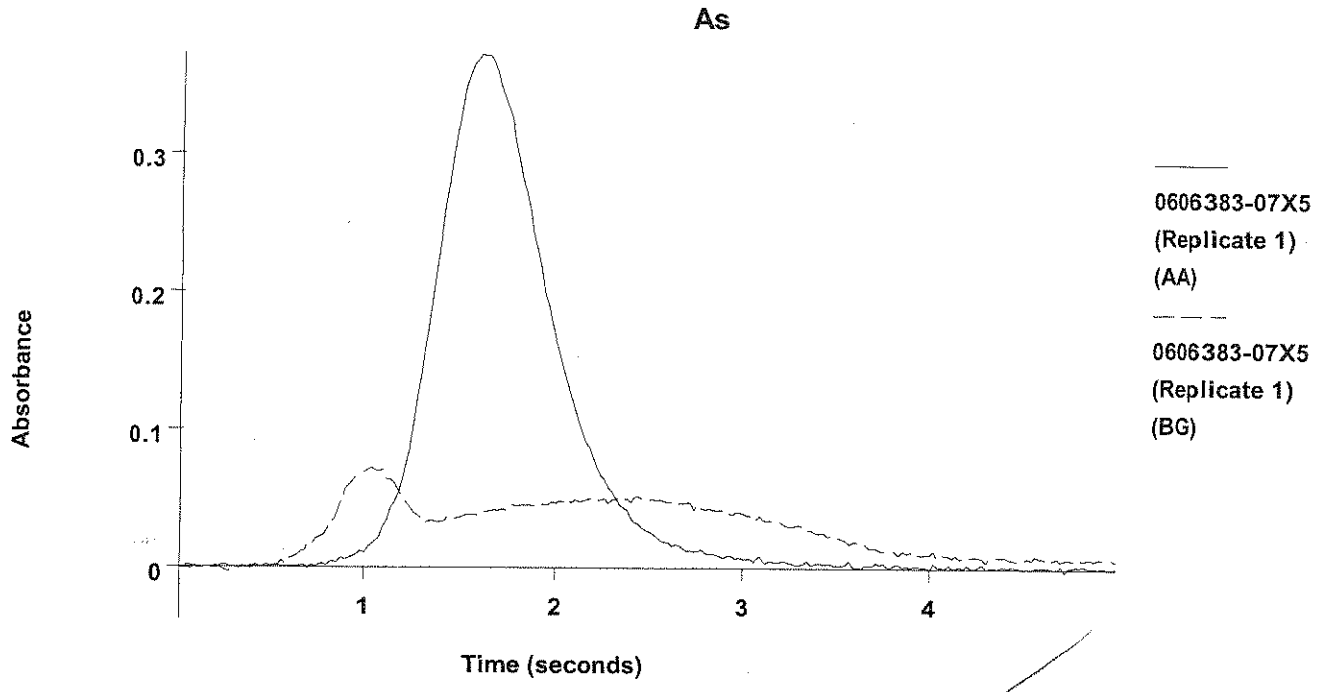


2	11.4	11.4	0.0401	0.0409	0.0663	0.0914	0.0554	06:28:51 Yes
Mean:	11.4	11.4	0.0402					
SD :	0.02	0.02	0.0001					
%RSD:	0.18	0.18	0.19					

==========

Element: As Seq. No.: 91 AS Loc.: 52 Date: 06/30/2006
Sample ID: 0606383-07X5
µL dispensed: 10 from 148, 5 from 147, 15 from 52

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	71.5	71.5	0.2646	0.2654	0.3719	0.1373	0.0721	06:31:40	Yes



Sample absorbance is greater than that of the highest standard.

2	73.8	73.8	0.2734	0.2741	0.3865	0.1355	0.0762	06:34:30 Yes

Sample absorbance is greater than that of the highest standard.

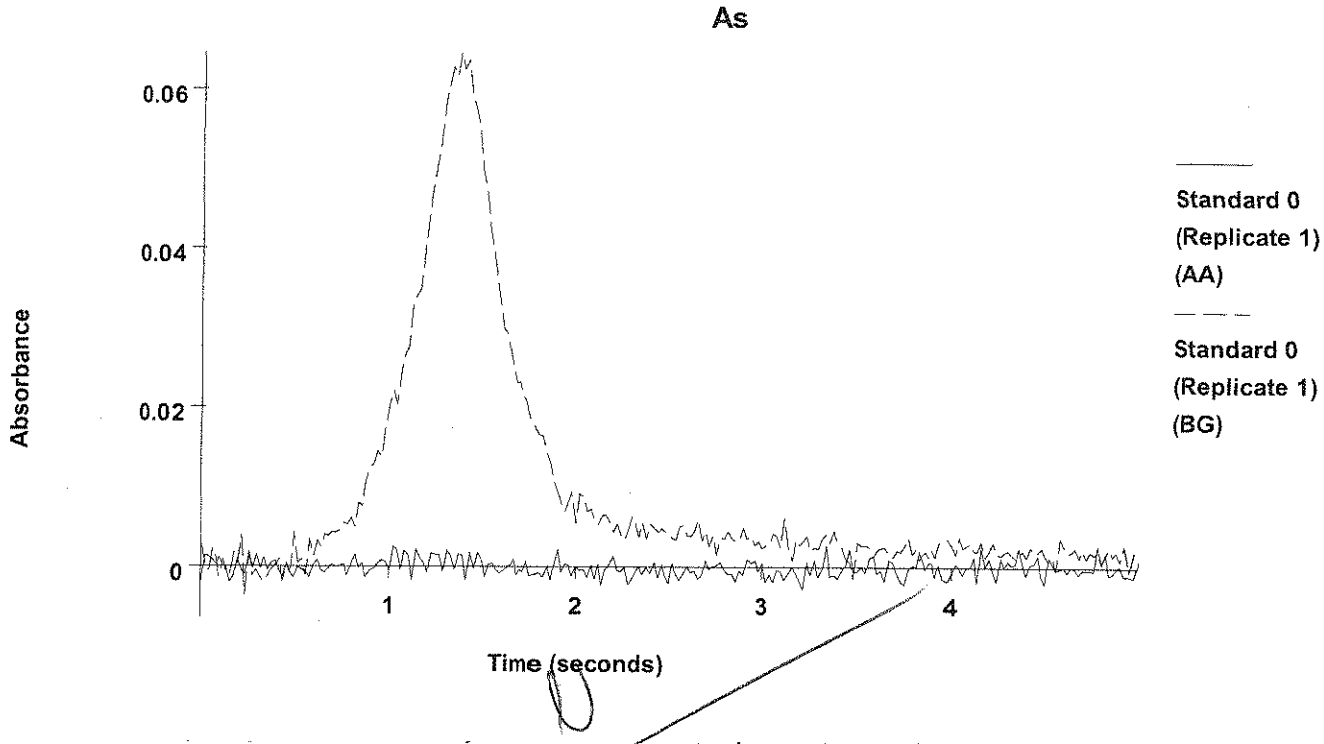
Mean:	72.6	72.6	0.2690
SD :	1.66	1.66	0.0062
%RSD:	2.29	2.29	2.31

Sample absorbance is greater than that of the highest standard.
Result for As is greater than 100 percent of calibration range.

==========

Element: As Seq. No.: 92 AS Loc.: 148 Date: 06/30/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			-0.0005	-0.0005	0.0027	0.0457	0.0646	06:37:19	Yes

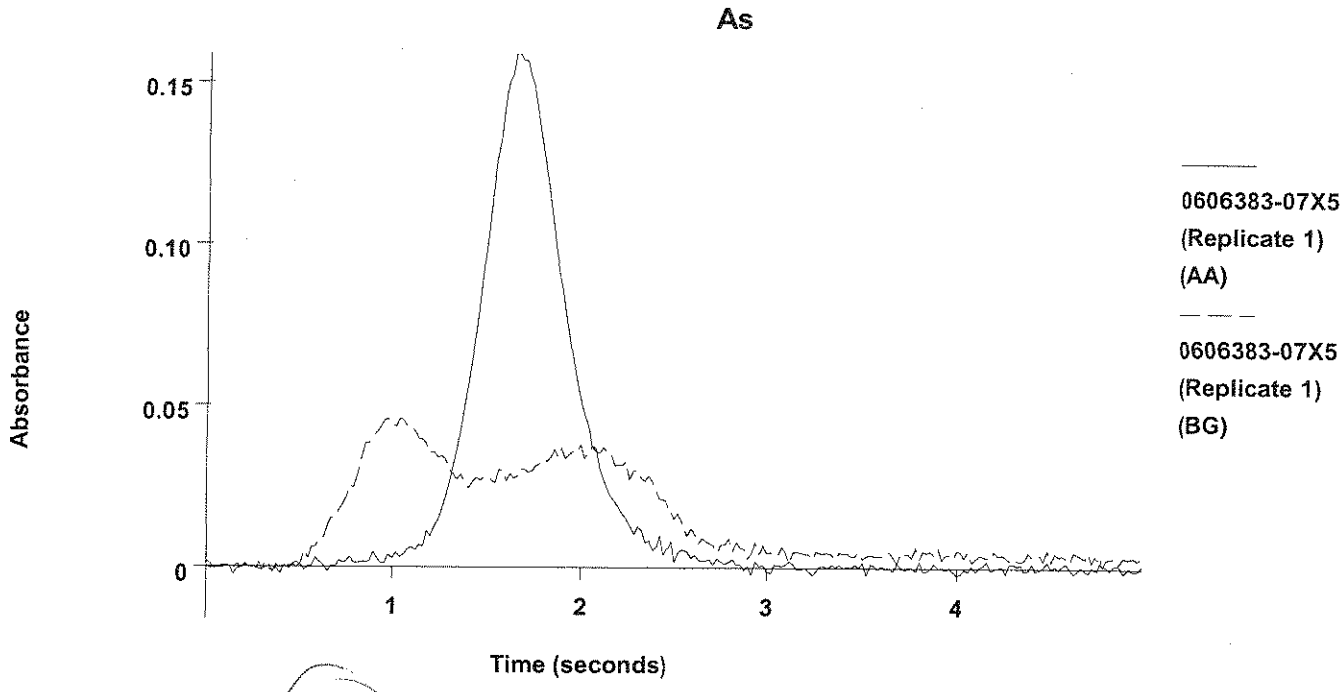


2	0.0003	0.0003	0.0043	0.0454	0.0681	06:40:08	Yes
Mean:	-0.0001						
SD :	0.0006						
%RSD:	403.18						

Auto-zero performed.

Element: As Seq. No.: 93 AS Loc.: 52 Date: 06/30/2006
Sample ID: 0606383-07X5
µL dispensed: 20 from 148, 5 from 147, 5 from 52

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	71.4	23.8	0.0865	0.0863	0.1590	0.0707	0.0459	06:42:57	Yes

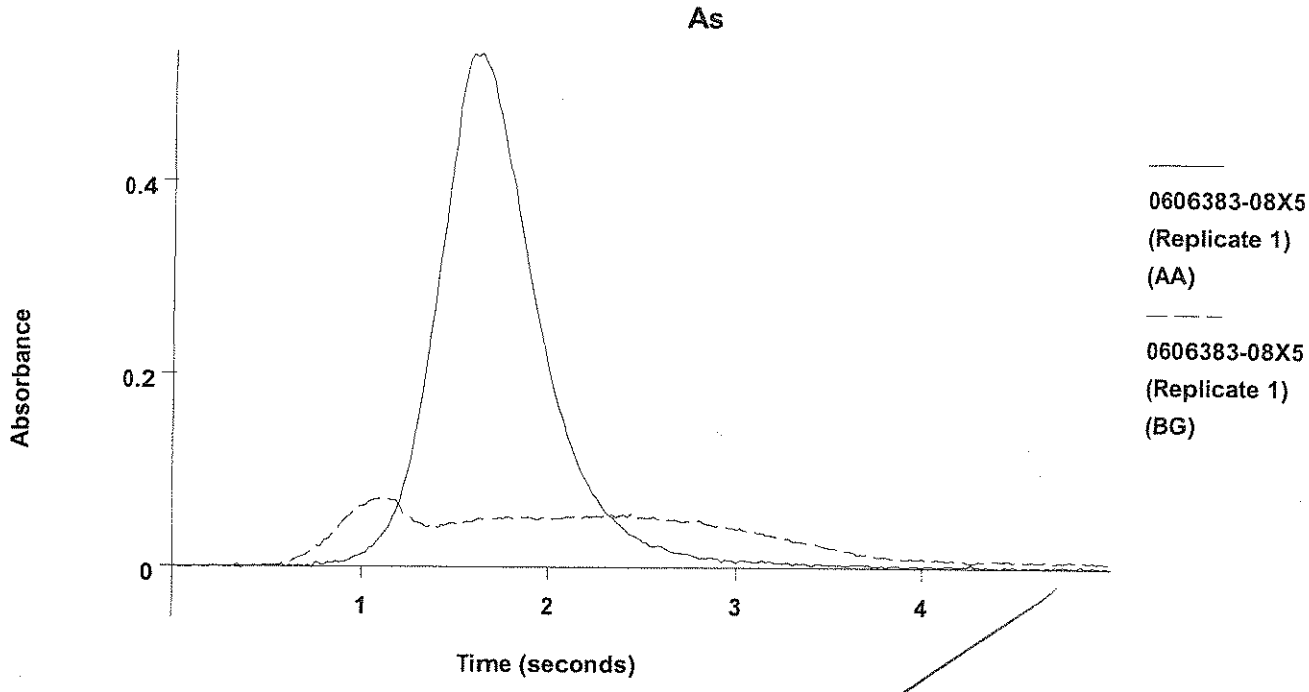


2	71.2	23.7	0.0862	0.0861	0.1622	0.0658	0.0504	06:45:48 Yes
Mean:	71.3	23.8	0.0864					
SD :	0.14	0.05	0.0002					
%RSD:	0.20	0.20	0.20					

15X

Element: As Seq. No.: 94 AS Loc.: 53 Date: 06/30/2006
Sample ID: 0606383-08X5
µL dispensed: 10 from 148, 5 from 147, 15 from 53

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	92.7	92.7	0.3440	0.3448	0.5331	0.1426	0.0707	06:48:38	Yes



Sample absorbance is greater than that of the highest standard.

2	66.2	66.2	0.2450	0.2458	0.2877	0.1342	0.0805	06:51:28 Yes

Sample absorbance is greater than that of the highest standard.

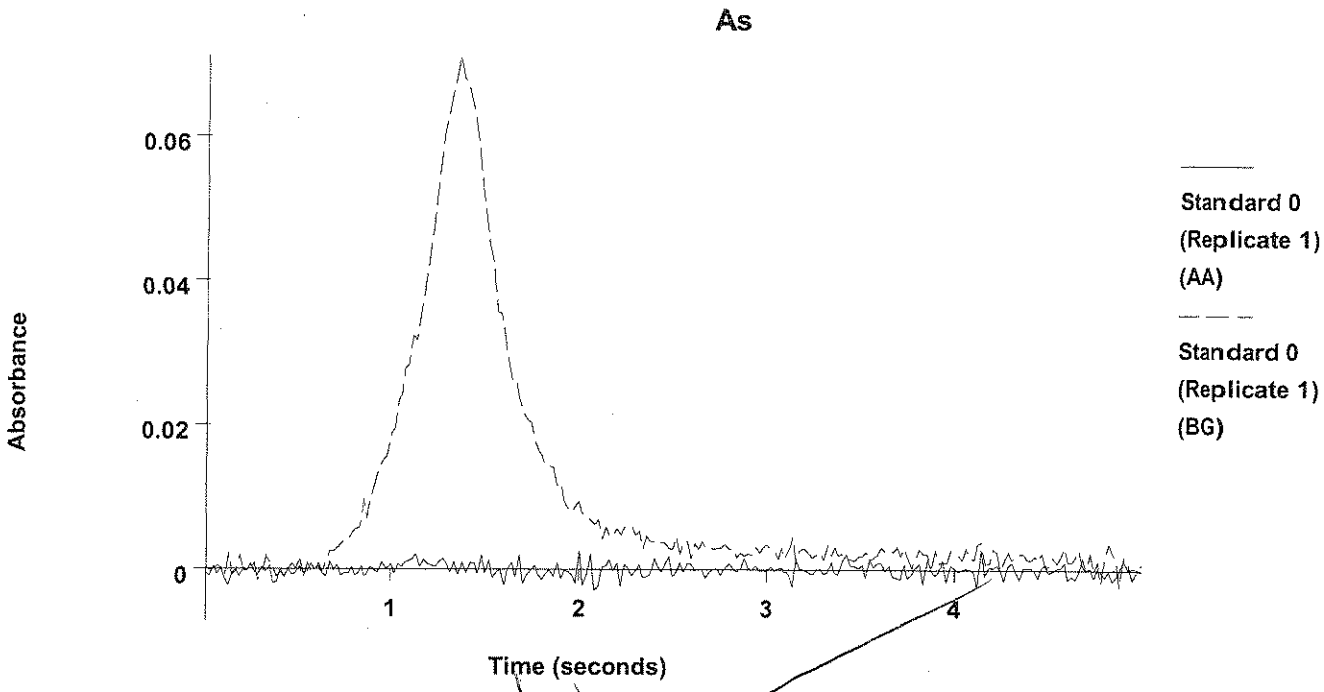
Mean:	79.5	79.5	0.2945
SD :	18.7	18.7	0.0700
%RSD:	23.6	23.6	23.76

Sample absorbance is greater than that of the highest standard.
Result for As is greater than 100 percent of calibration range.

==========

Element: As Seq. No.: 95 AS Loc.: 148 Date: 06/30/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			-0.0002	-0.0002	0.0027	0.0448	0.0712	06:54:18	Yes



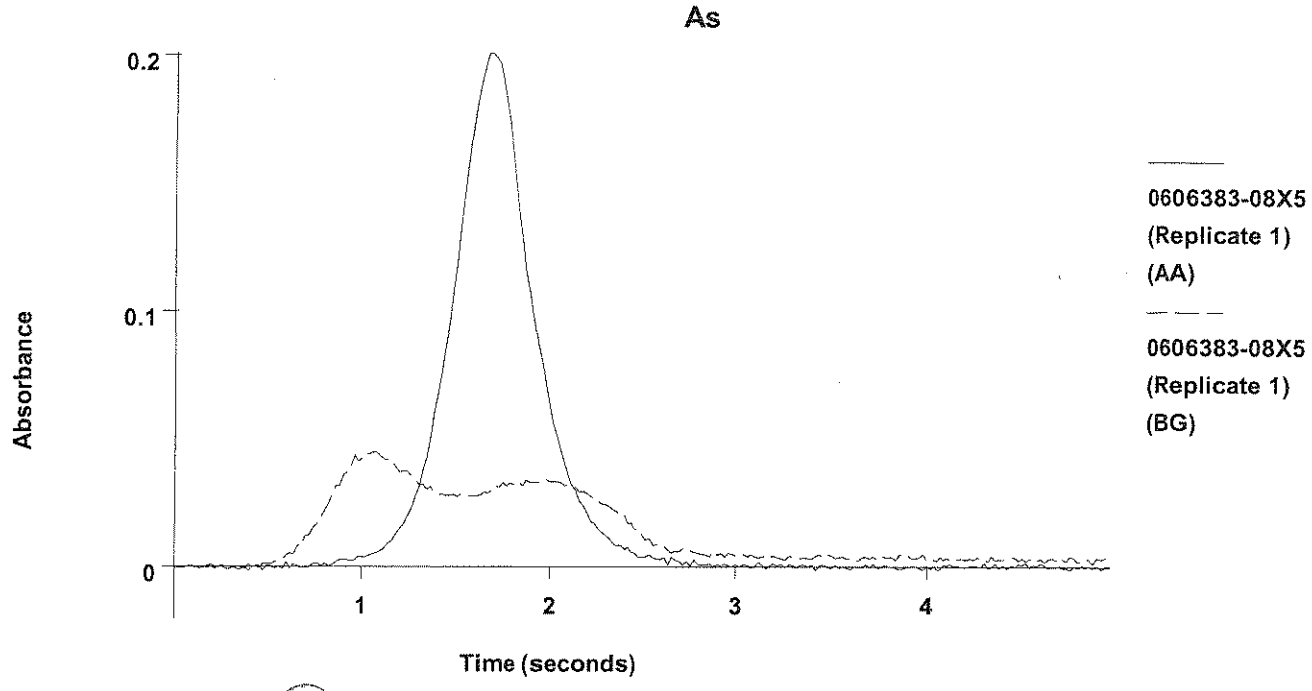
2	0.0006	0.0006	0.0025	0.0438	0.0658	06:57:08	Yes
Mean:	0.0002						
SD :	0.0006						
%RSD:	259.89						

Auto-zero performed.

==========

Element: As Seq. No.: 96 AS Loc.: 53 Date: 06/30/2006
Sample ID: 0606383-08X5
µL dispensed: 20 from 148, 5 from 147, 5 from 53

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	86.1	28.7	0.1047	0.1050	0.2011	0.0655	0.0448	06:59:59	Yes

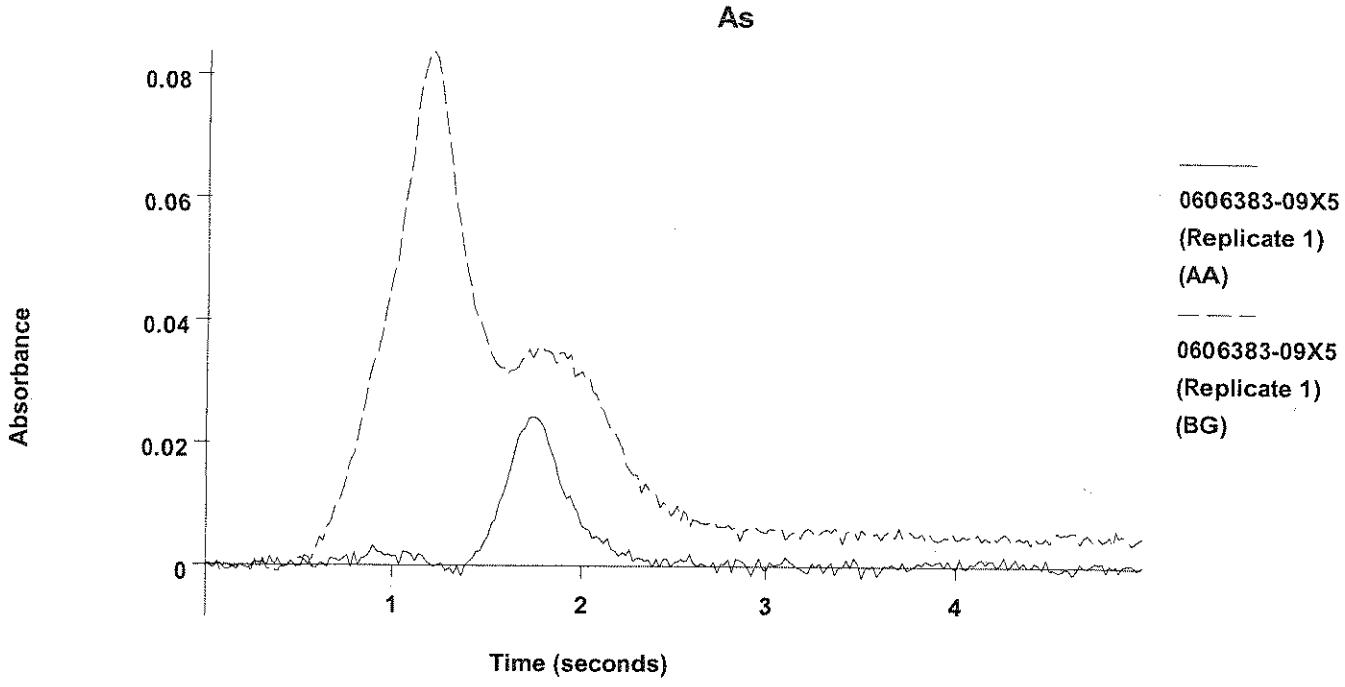


2	94.6	31.5	0.1154	0.1156	0.2149	0.0779	0.0528	07:02:49 Yes
Mean:	90.3	30.1	0.1101					
SD :	6.04	2.01	0.0075					
%RSD:	6.69	6.69	6.84					

1SX

Element: As Seq. No.: 97 AS Loc.: 54 Date: 06/30/2006
Sample ID: 0606383-09X5
µL dispensed: 10 from 148, 5 from 147, 15 from 54

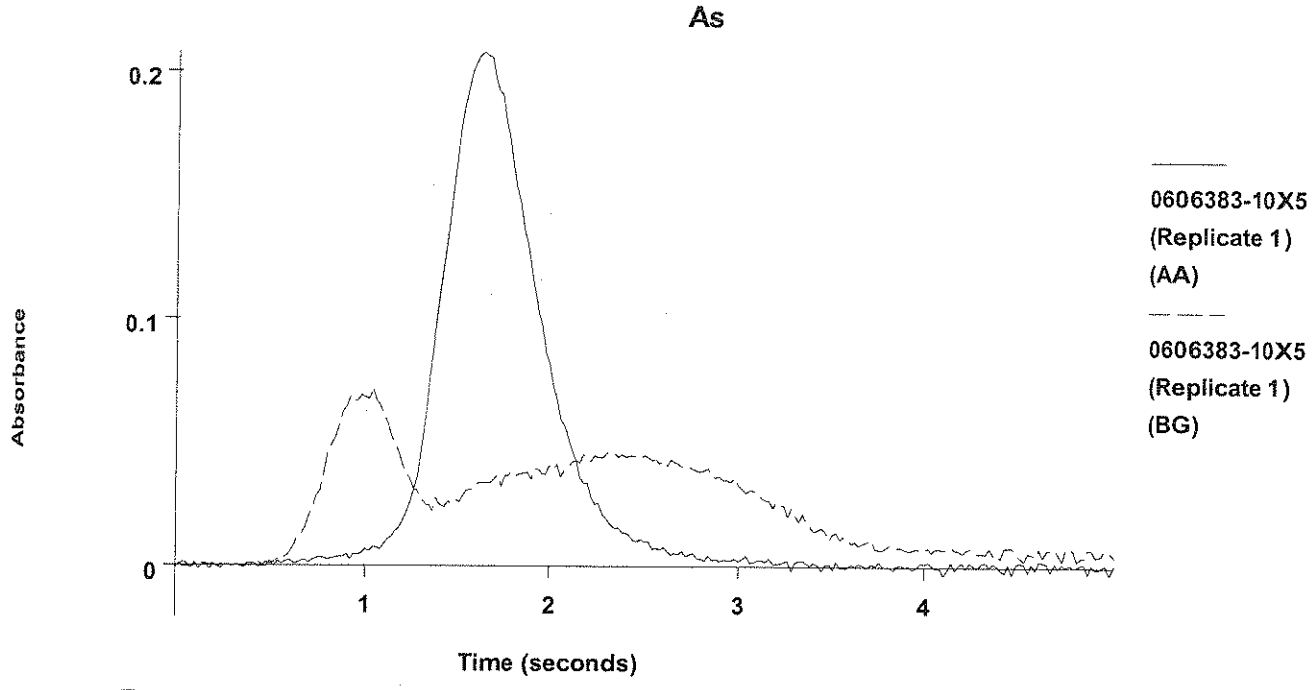
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.3	3.3	0.0099	0.0107	0.0243	0.0785	0.0837	07:05:37	Yes



2	3.3	3.3	0.0097	0.0105	0.0270	0.0818	0.0856	07:08:27	Yes
Mean:	3.3	3.3	0.0098						
SD :	0.03	0.03	0.0001						
%RSD:	1.01	1.01	1.26						

Element: As Seq. No.: 98 AS Loc.: 55 Date: 06/30/2006
Sample ID: 0606383-10X5
µL dispensed: 10 from 148, 5 from 147, 15 from 55

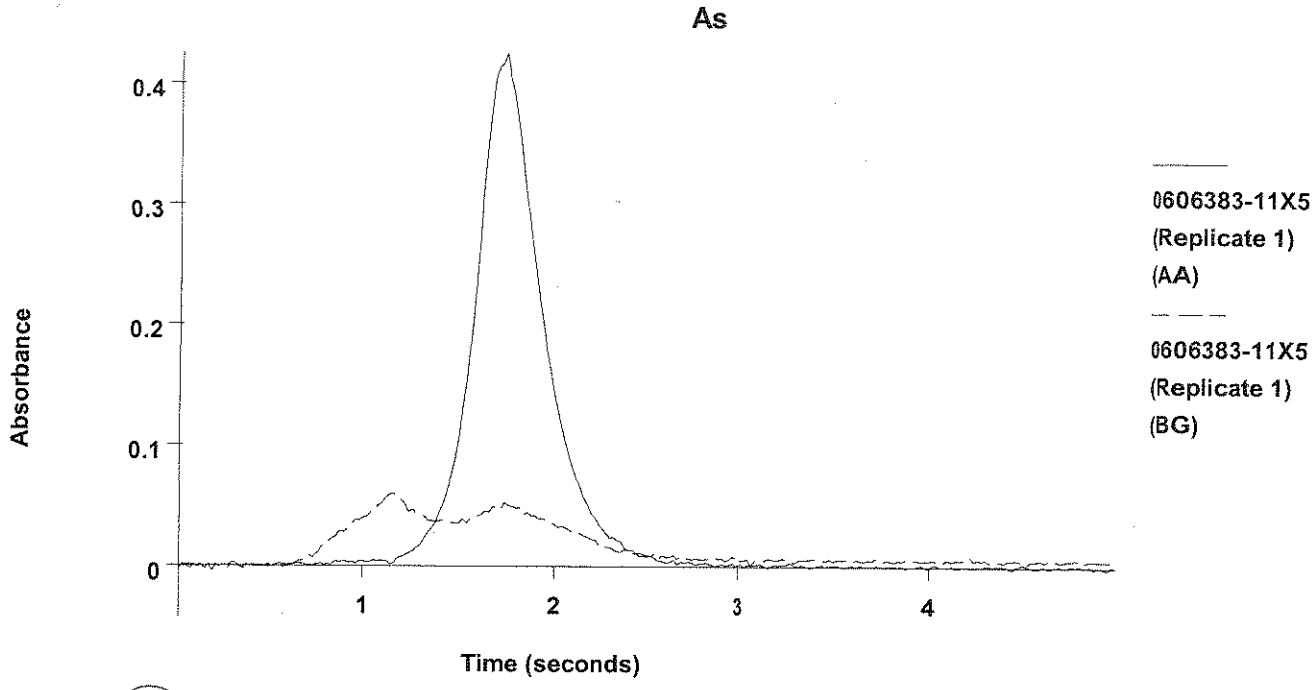
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	34.6	34.6	0.1268	0.1275	0.2079	0.1175	0.0718	07:11:15	Yes



2	34.1	34.1	0.1249	0.1257	0.2075	0.1201	0.0680	07:14:05 Yes
Mean:	34.3	34.3	0.1258					
SD :	0.36	0.36	0.0013					
%RSD:	1.04	1.04	1.06					

Element: As Seq. No.: 99 AS Loc.: 56 Date: 06/30/2006
Sample ID: 0606383-11X5
µL dispensed: 10 from 148, 5 from 147, 15 from 56

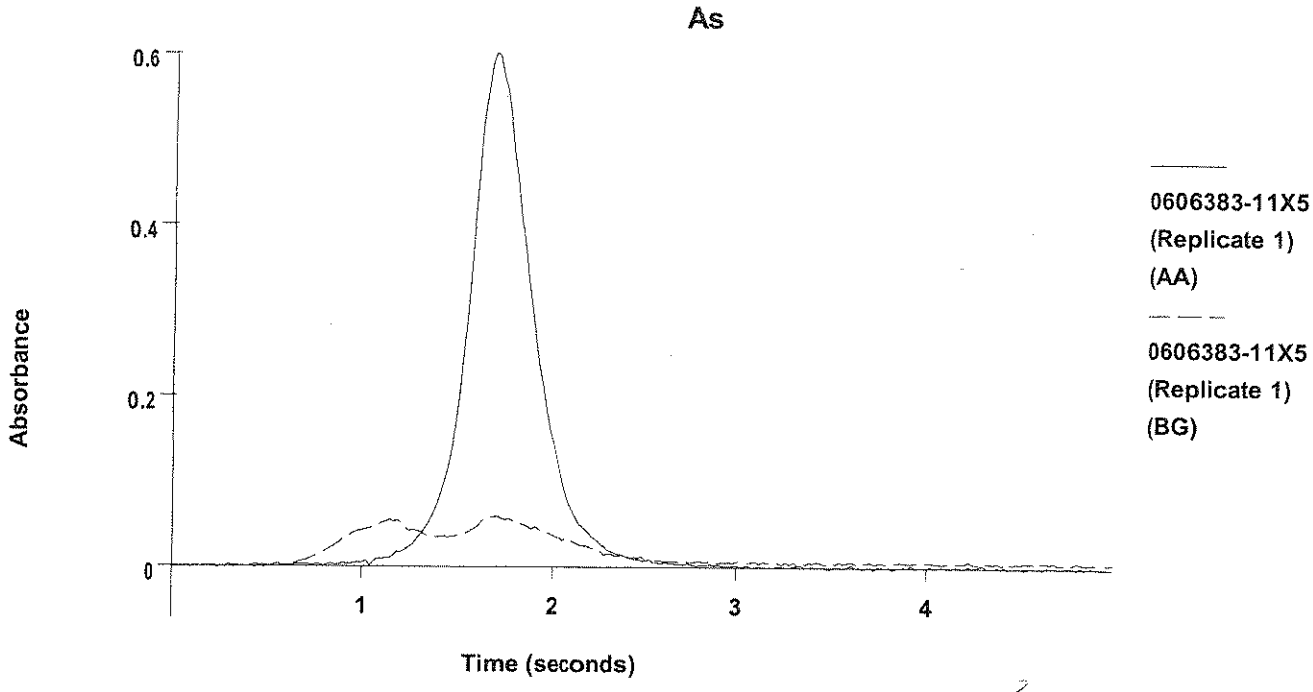
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	49.3	49.3	0.1819	0.1827	0.4253	0.0753	0.0596	07:16:53	Yes



2	49.7	49.7	0.1833	0.1841	0.4580	0.0765	0.0566	07:19:42 Yes
Mean:	49.5	49.5	0.1826					
SD :	0.27	0.27	0.0010					
%RSD:	0.55	0.55	0.55					

Element: As Seq. No.: 100 AS Loc.: 56 Date: 06/30/2006
Sample ID: 0606383-11X5
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 56

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	66.8	66.8	0.2473	0.2480	0.6017	0.0783	0.0593	07:22:40	Yes



Sample absorbance is greater than that of the highest standard.

2	66.6	66.6	0.2463	0.2471	0.6073	0.0778	0.0591	07:25:37 Yes

Sample absorbance is greater than that of the highest standard.

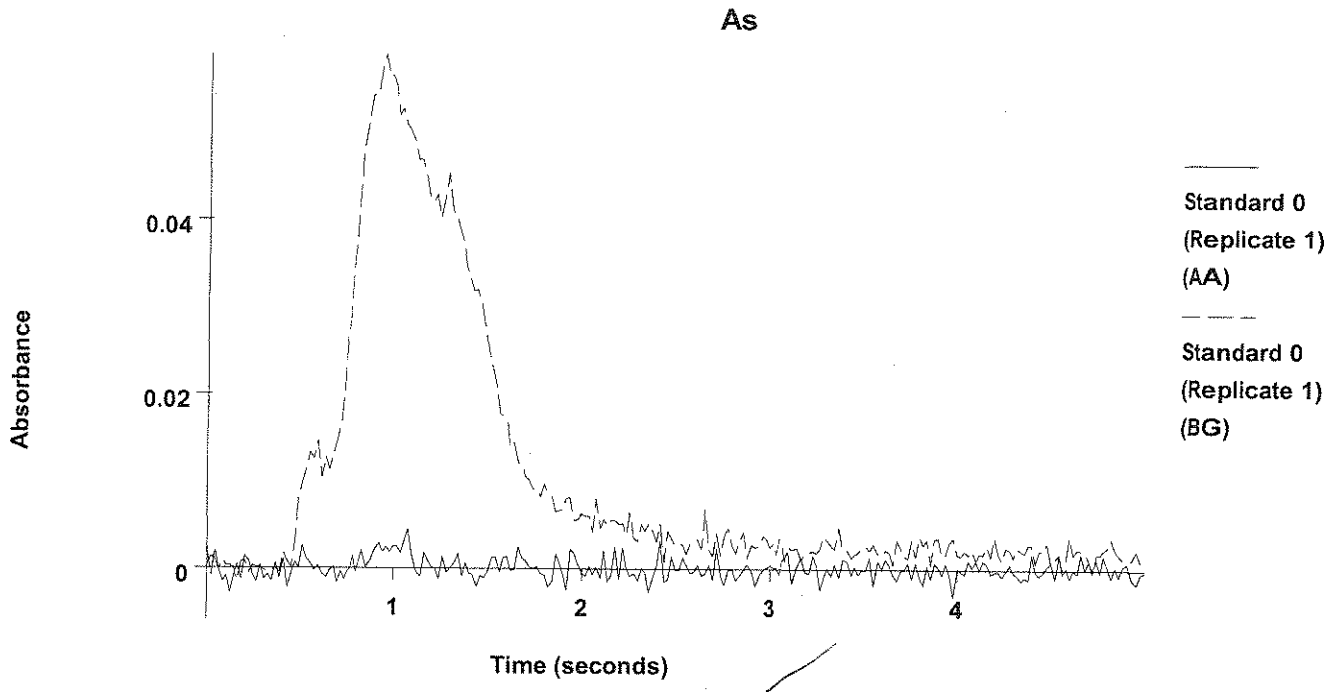
Mean:	66.7	66.7	0.2468					
SD :	0.18	0.18	0.0007					
%RSD:	0.28	0.28	0.28					

Sample absorbance is greater than that of the highest standard.
Result for As is greater than 100 percent of calibration range.

==========

Element: As Seq. No.: 101 AS Loc.: 148 Date: 06/30/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0003	0.0003	0.0045	0.0508	0.0590	07:28:27	Yes



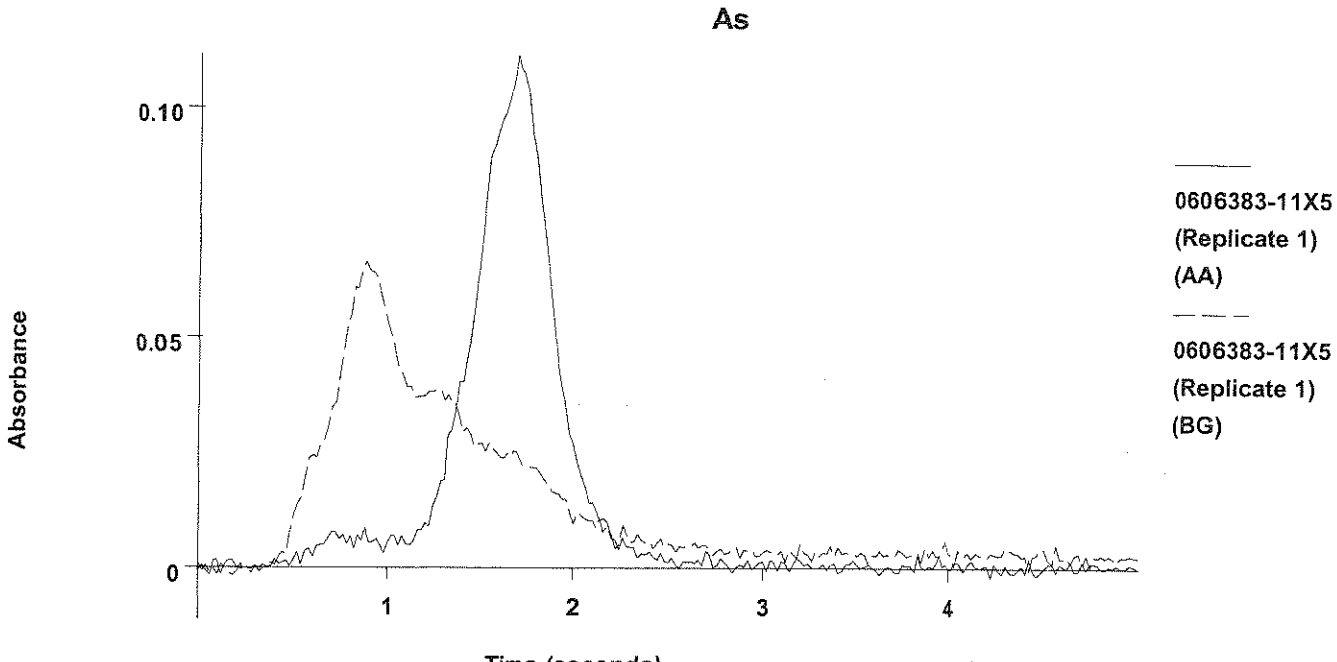
2	0.0003	0.0003	0.0032	0.0422	0.0691	07:31:17	Yes
Mean:	0.0003						
SD :	0.0000						
%RSD:	0.66						

Auto-zero performed.

==========

Element: As Seq. No.: 102 AS Loc.: 56 Date: 06/30/2006
Sample ID: 0606383-11X5
µL dispensed: 20 from 148, 5 from 147, 5 from 56

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	49.4	16.5	0.0591	0.0594	0.1115	0.0621	0.0664	07:34:05	Yes

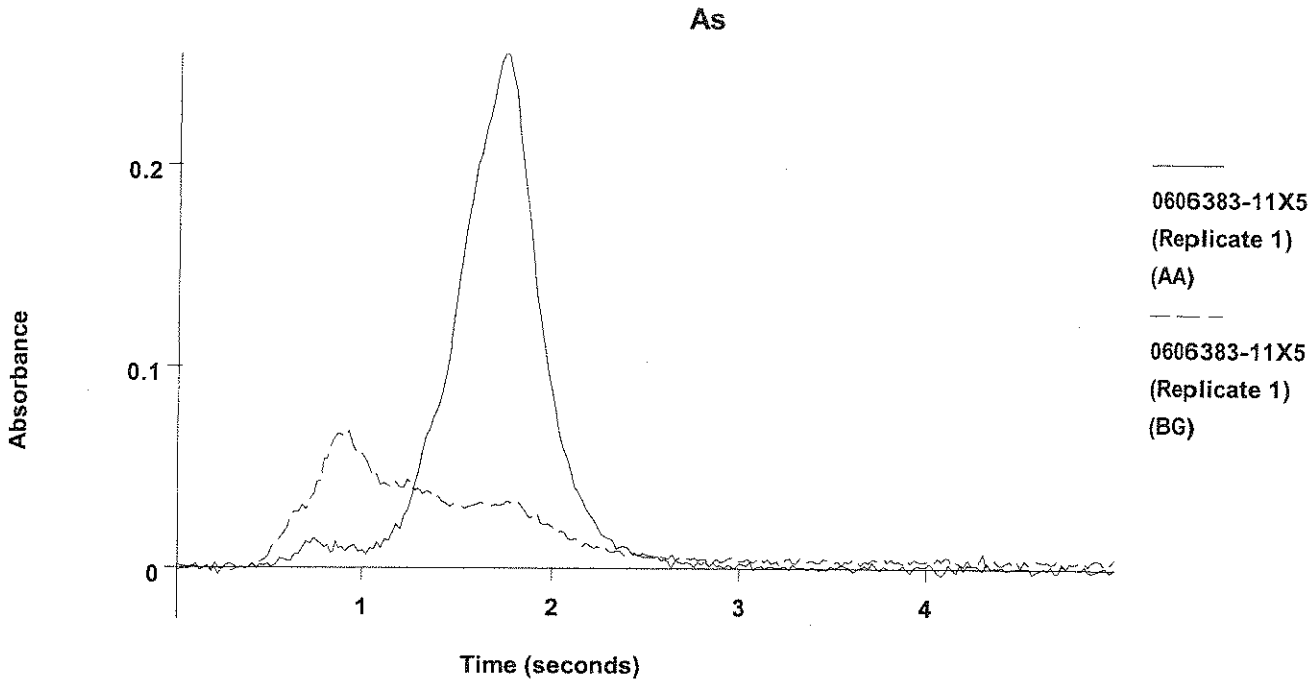


2	51.0	17.0	0.0611	0.0614	0.1140	0.0600	0.0653	07:36:55 Yes
Mean:	50.2	16.7	0.0601					
SD :	1.11	0.37	0.0014					
%RSD:	2.21	2.21	2.30					

15X

Element: As Seq. No.: 103 AS Loc.: 56 Date: 06/30/2006
Sample ID: 0606383-11X5
µL dispensed: 14 from 148, 5 from 147, 6 from 131, 5 from 56

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	112	37.5	0.1376	0.1383	0.2551	0.0713	0.0681	07:39:51	Yes



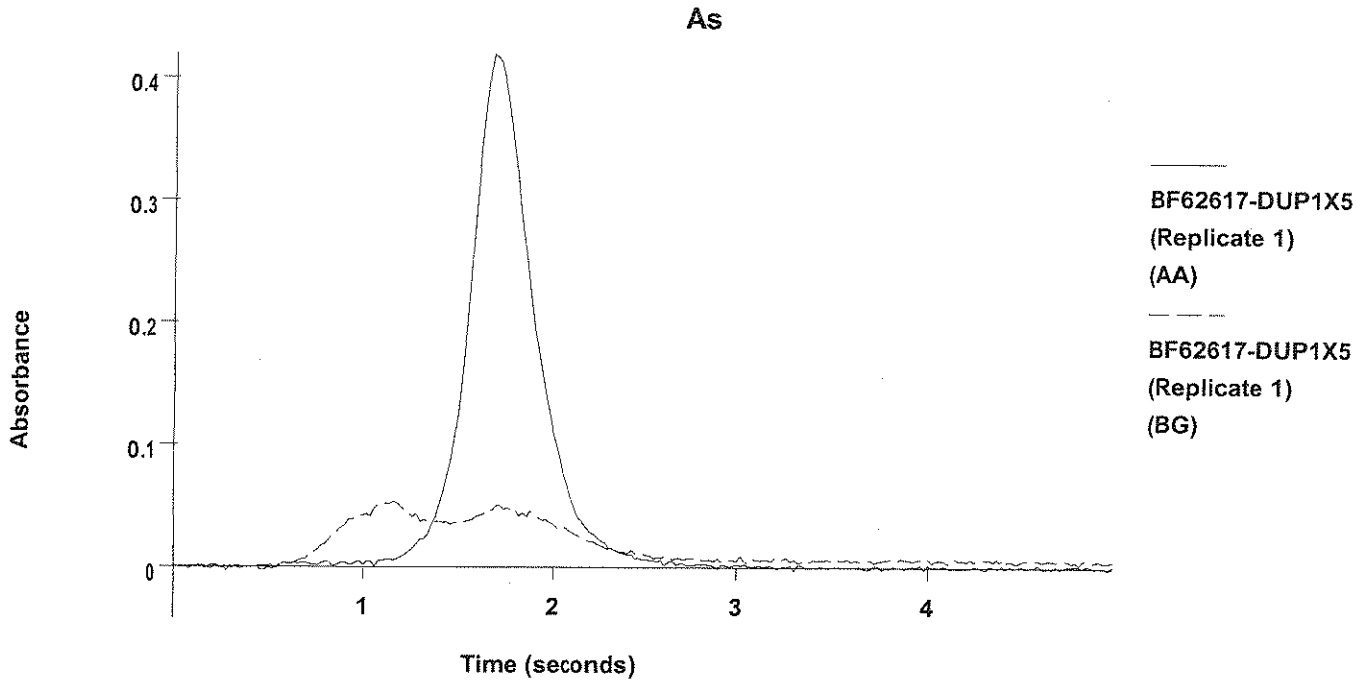
2	113	37.6	0.1379	0.1387	0.2631	0.0681	0.0658	07:42:49 Yes
Mean:	113	37.5	0.1377					
SD :	0.19	0.06	0.0002					
%RSD:	0.17	0.17	0.17					

Recovery for As = 103.9 % within 85 % to 115 %

==========

Element: As Seq. No.: 104 AS Loc.: 57 Date: 06/30/2006
Sample ID: BF62617-DUP1X5
µL dispensed: 10 from 148, 5 from 147, 15 from 57

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	47.2	47.2	0.1738	0.1745	0.4196	0.0761	0.0535	07:45:38	Yes

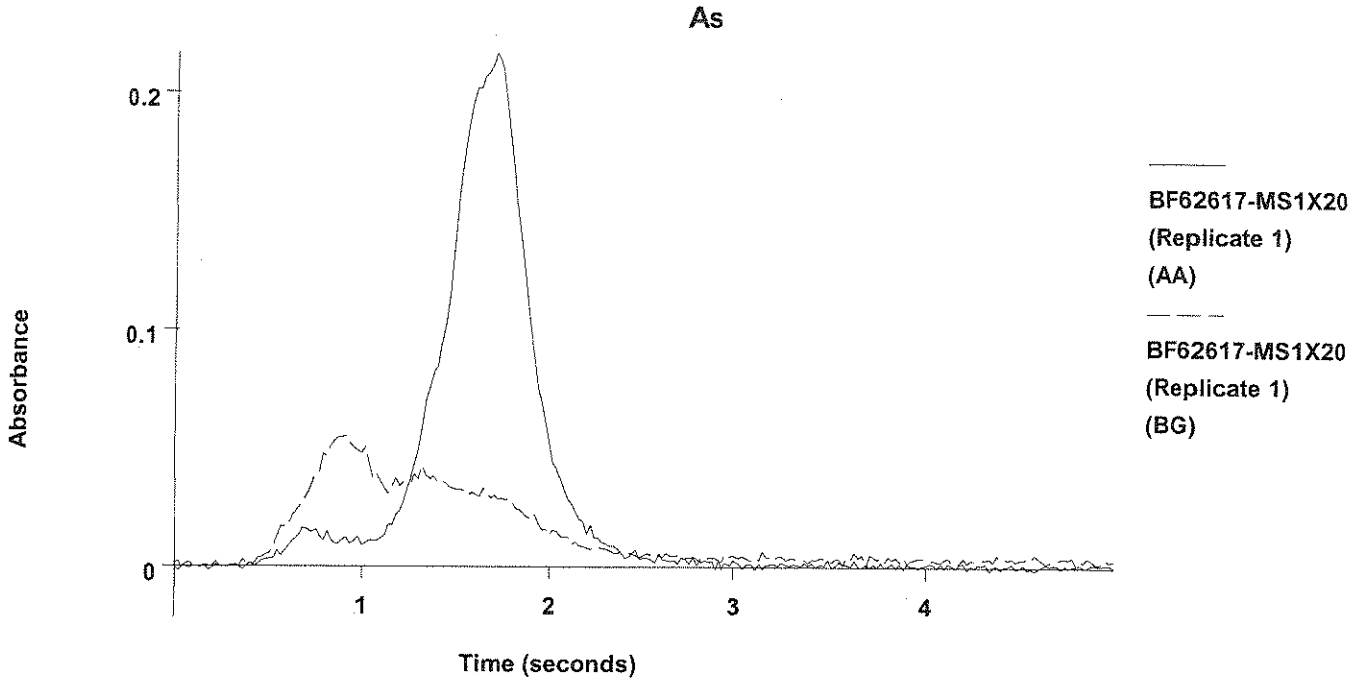


2	47.0	47.0	0.1734	0.1741	0.4456	0.0753	0.0522	07:48:27	Yes
Mean:	47.1	47.1	0.1736						
SD :	0.07	0.07	0.0003						
%RSD:	0.16	0.16	0.16						

$\frac{49.5 - 47.1}{48.3} = 5\%$

Element: As Seq. No.: 105 AS Loc.: 58 Date: 06/30/2006
Sample ID: BF62617-MS1X20
µL dispensed: 10 from 148, 5 from 147, 15 from 58

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	32.8	32.8	0.1201	0.1209	0.2168	0.0624	0.0552	07:51:17	Yes

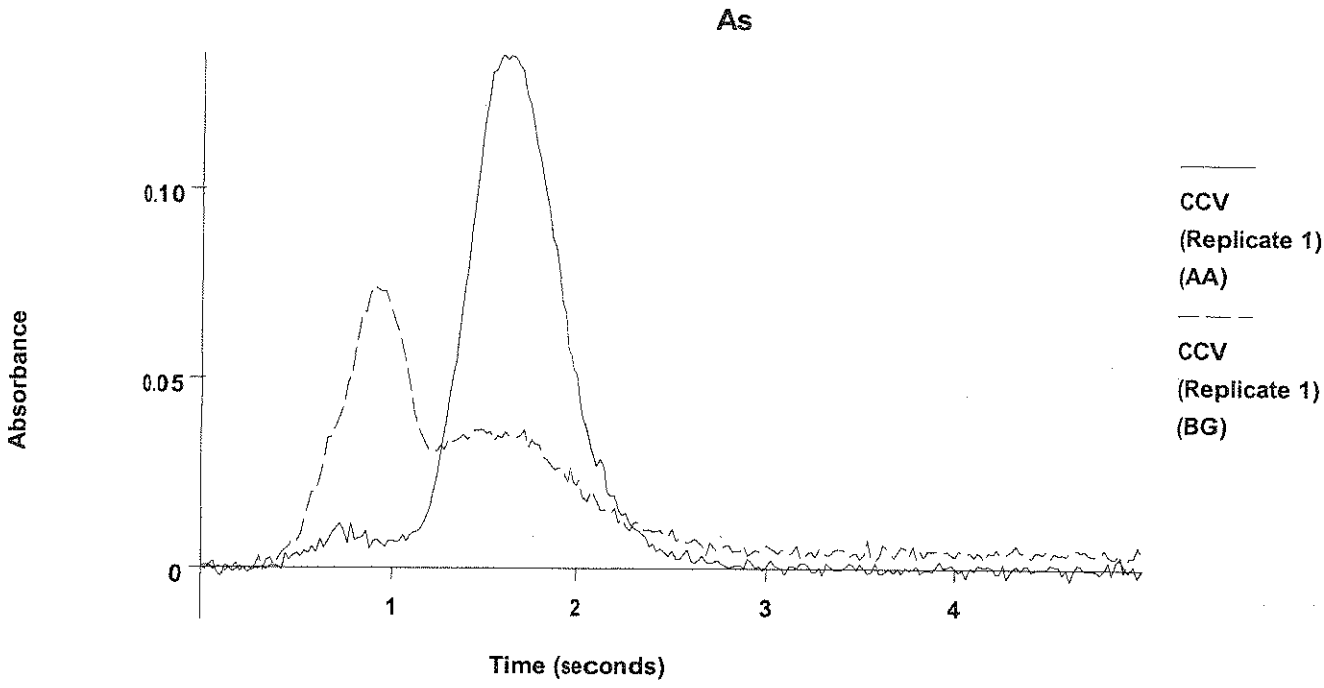


2	33.8	33.8	0.1238	0.1245	0.2172	0.0669	0.0600	07:54:06 Yes
Mean:	33.3	33.3	0.1219					
SD :	0.70	0.70	0.0026					
%RSD:	2.10	2.10	2.14					

$\frac{33.3(70) - 49.5(5)}{500} = 84.5$

Element: As Seq. No.: 106 AS Loc.: 126 Date: 06/30/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.9	23.9	0.0868	0.0872	0.1355	0.0767	0.0743	07:56:59	Yes



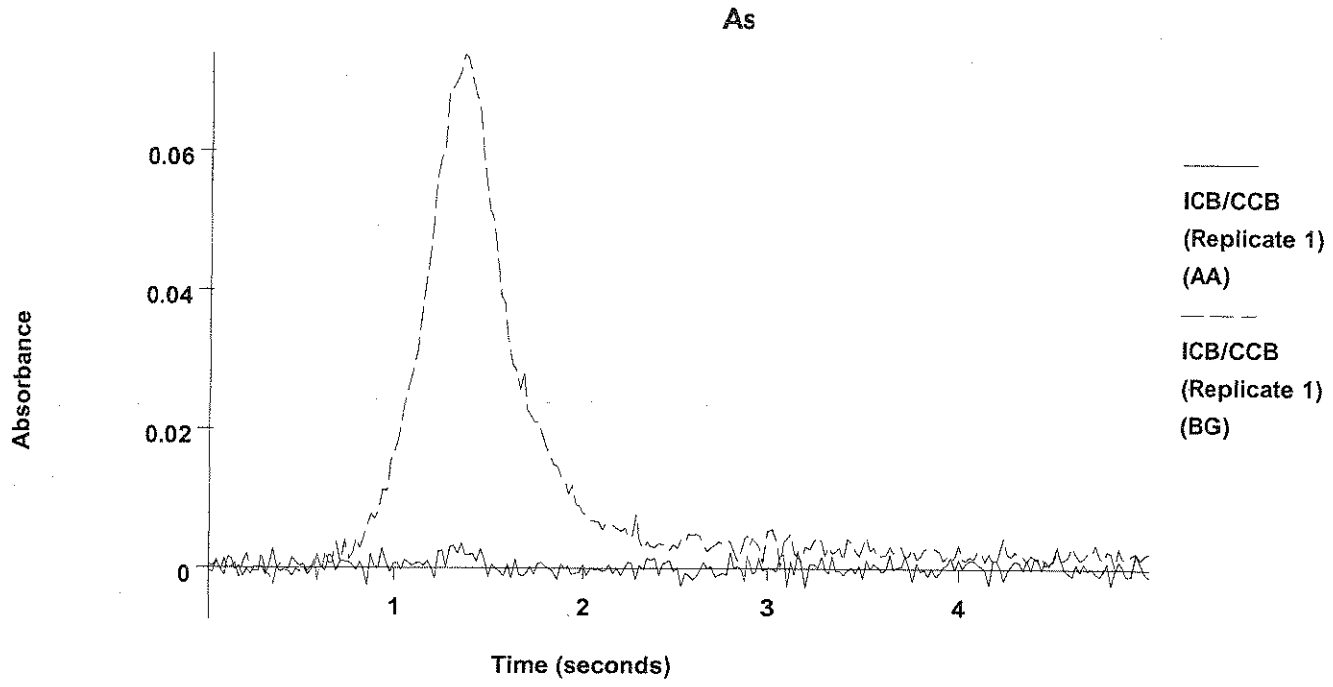
2	23.8	23.8	0.0866	0.0870	0.1283	0.0757	0.0728	07:59:51 Yes
Mean:	23.9	23.9	0.0867					
SD :	0.04	0.04	0.0001					
%RSD:	0.16	0.16	0.16					

QC value within specified limits.

✓

Element: As Seq. No.: 107 AS Loc.: 148 Date: 06/30/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.9	0.9	0.0009	0.0012	0.0035	0.0480	0.0739	08:02:41	Yes



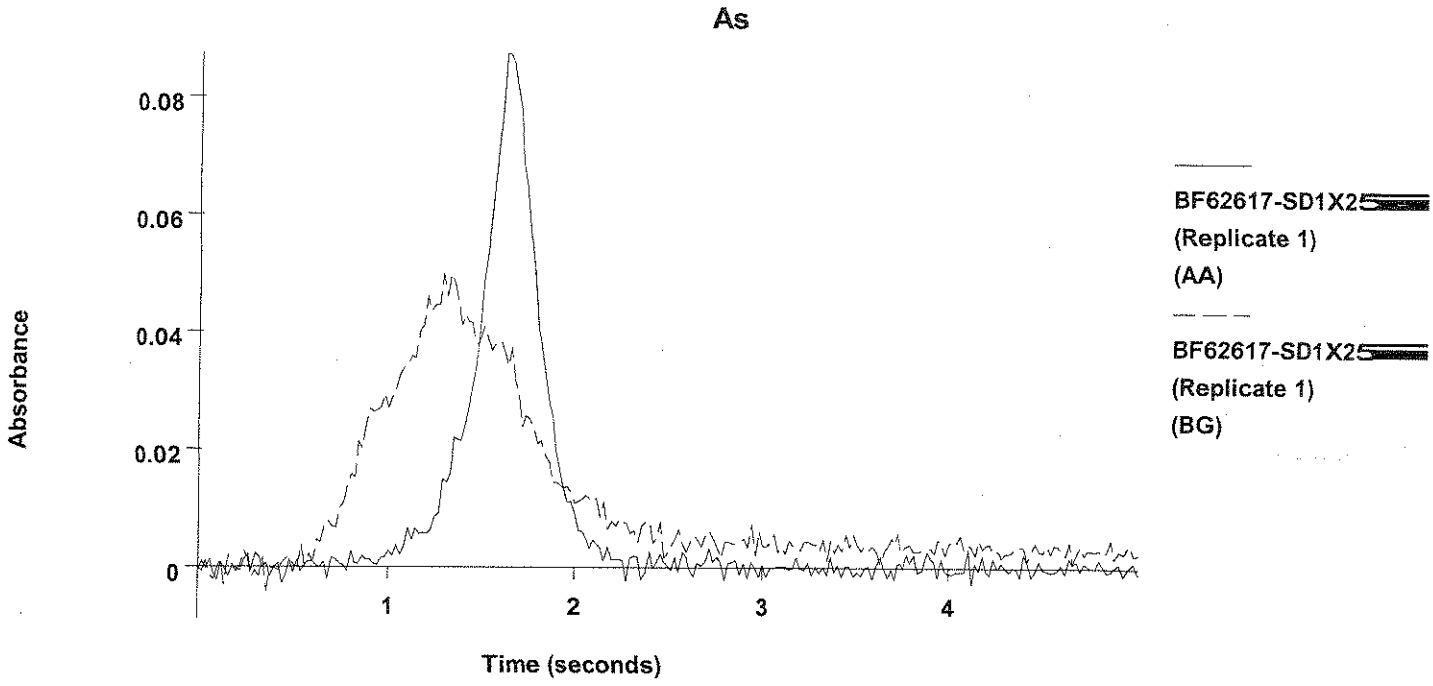
2	0.8	0.8	0.0005	0.0008	0.0039	0.0454	0.0699	08:05:31 Yes
Mean:	0.8	0.8	0.0007					
SD :	0.08	0.08	0.0003					
%RSD:	9.92	9.92	45.84					

QC value within specified limits.

==========

Element: As Seq. No.: 108 AS Loc.: 59 Date: 06/30/2006
Sample ID: BF62617-SD1X25
µL dispensed: 10 from 148, 5 from 147, 15 from 59

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	9.4	9.4	0.0327	0.0334	0.0874	0.0523	0.0499	08:08:20	Yes

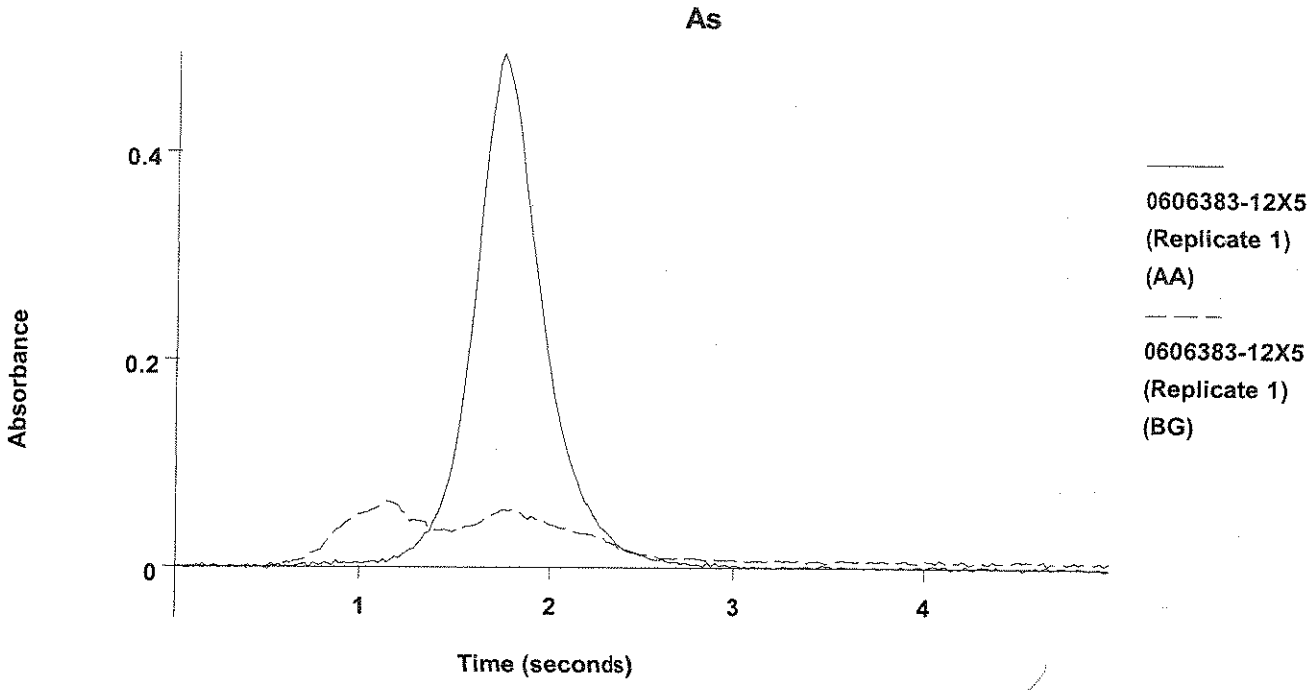


2	8.9	8.9	0.0310	0.0318	0.0918	0.0472	0.0489	08:11:09	Yes
Mean:	9.2	9.2	0.0318						
SD :	0.32	0.32	0.0012						
%RSD:	3.49	3.49	3.76						

$\frac{49.5 - 9.2(5)}{49.5} = 75$

Element: As Seq. No.: 109 AS Loc.: 60 Date: 06/30/2006
Sample ID: 0606383-12X5
µL dispensed: 10 from 148, 5 from 147, 15 from 60

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	58.6	58.6	0.2166	0.2173	0.4952	0.0868	0.0637	08:13:59	Yes



Sample absorbance is greater than that of the highest standard.

2	57.9	57.9	0.2139	0.2147	0.4976	0.0847	0.0627	08:16:50 Yes

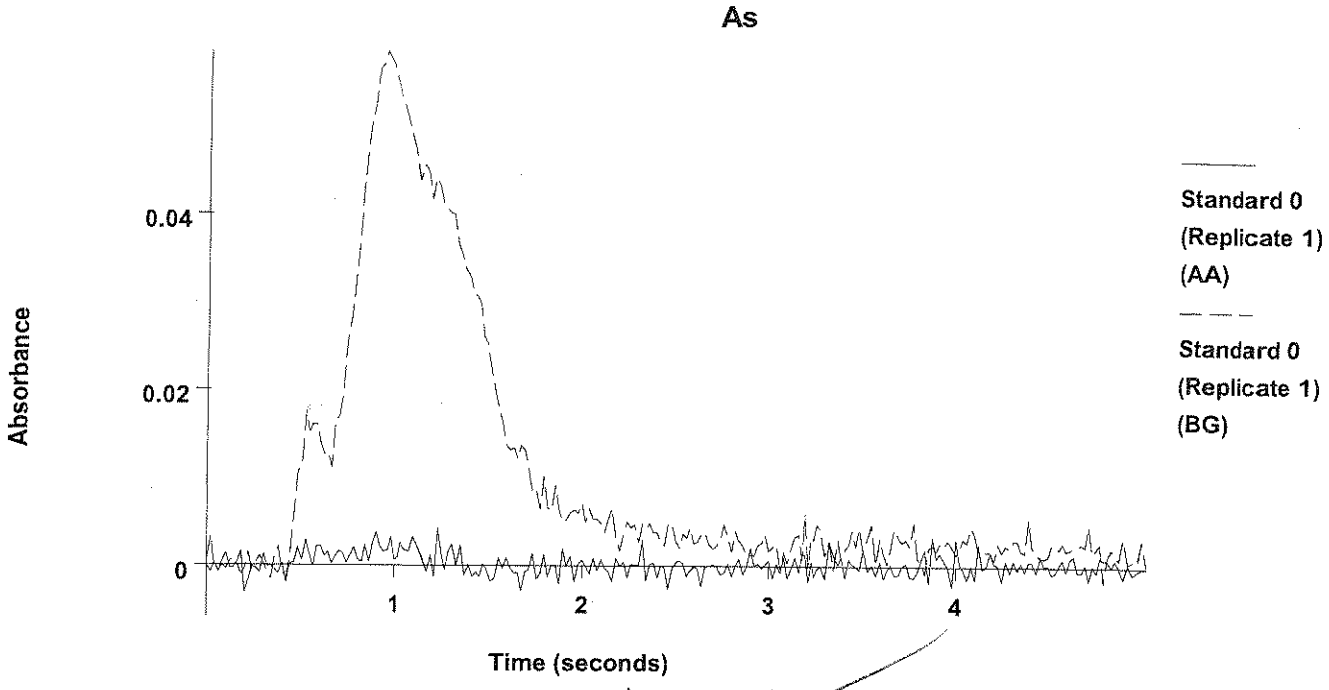
Sample absorbance is greater than that of the highest standard.

Mean:	58.3	58.3	0.2152
SD :	0.50	0.50	0.0019
%RSD:	0.86	0.86	0.87

Sample absorbance is greater than that of the highest standard.
Result for As is greater than 100 percent of calibration range.

Element: As Seq. No.: 110 AS Loc.: 148 Date: 06/30/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1			0.0009	0.0009	0.0042	0.0505	0.0585	08:19:40	Yes

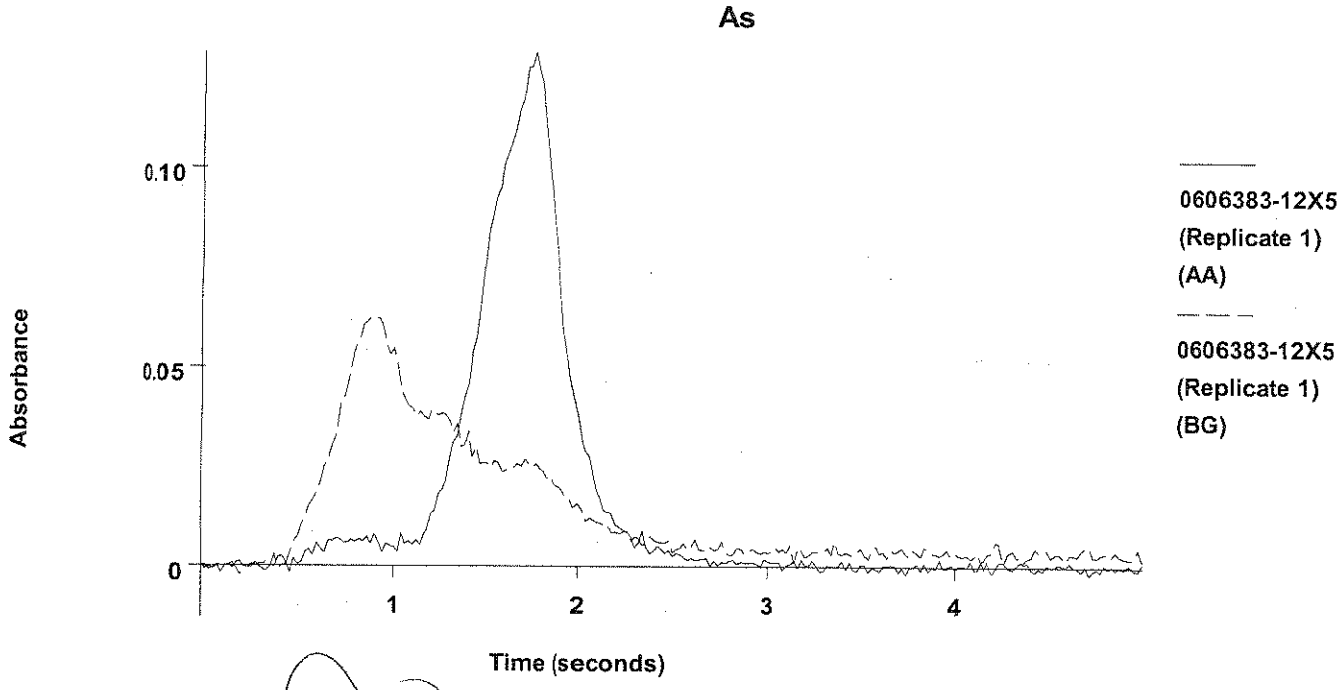


2	0.0011	0.0011	0.0036	0.0498	0.0590	08:22:31	Yes
Mean:	0.0010						
SD :	0.0002						
%RSD:	15.49						

Auto-zero performed.

Element: As Seq. No.: 111 AS Loc.: 60 Date: 06/30/2006
Sample ID: 0606383-12X5
µL dispensed: 20 from 148, 5 from 147, 5 from 60

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	57.3	19.1	0.0690	0.0700	0.1290	0.0632	0.0625	08:25:20	Yes

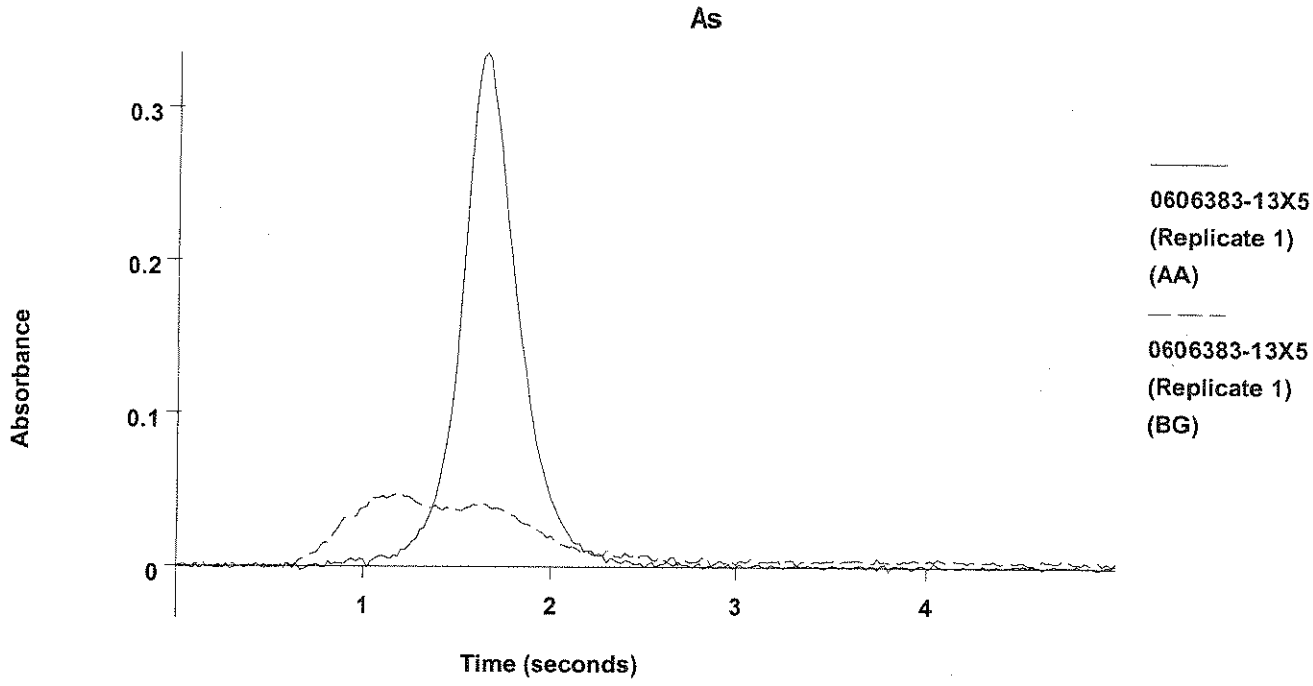


2	55.3	18.4	0.0665	0.0675	0.1275	0.0651	0.0677	08:28:12 Yes
Mean:	56.3	18.8	0.0677					
SD :	1.42	0.47	0.0018					
%RSD:	2.52	2.52	2.61					

15X

Element: As Seq. No.: 112 AS Loc.: 61 Date: 06/30/2006
Sample ID: 0606383-13X5
µL dispensed: 10 from 148, 5 from 147, 15 from 61

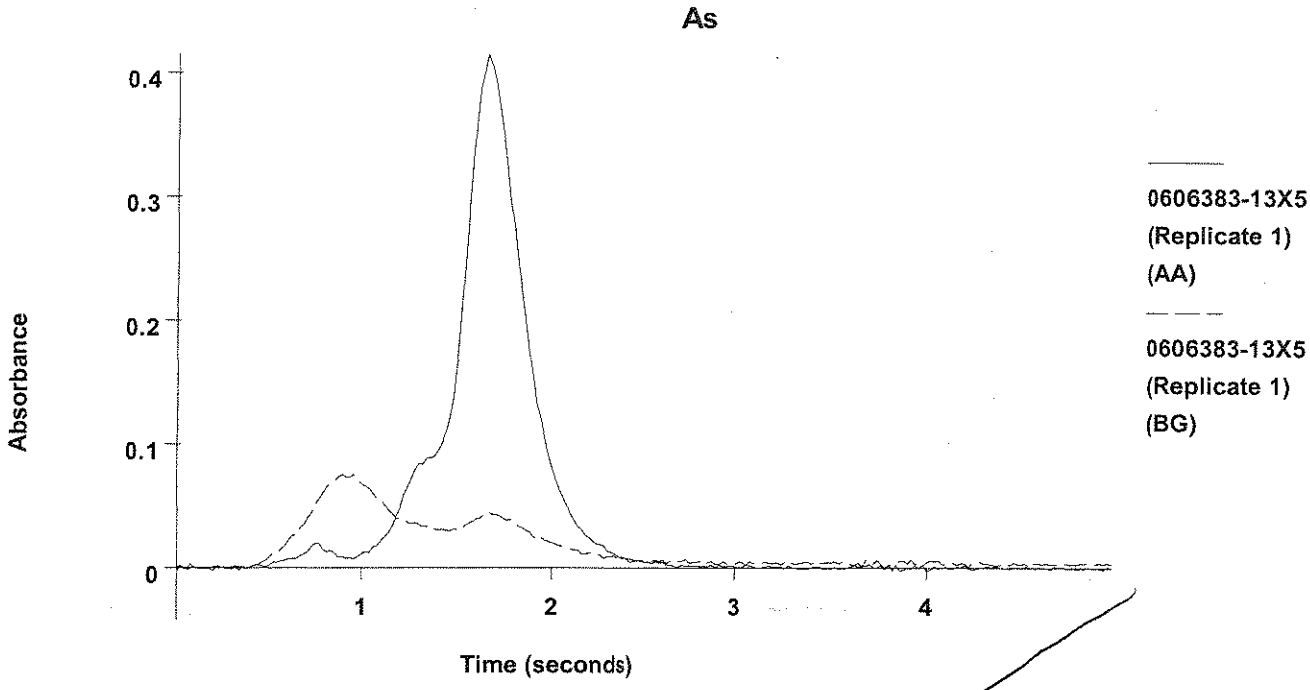
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	33.6	33.6	0.1231	0.1238	0.3354	0.0583	0.0477	08:31:02	Yes



2	34.3	34.3	0.1259	0.1267	0.3027	0.0612	0.0531	08:33:53 Yes
Mean:	34.0	34.0	0.1245					
SD :	0.54	0.54	0.0020					
%RSD:	1.59	1.59	1.62					

Element: As Seq. No.: 113 AS Loc.: 61 Date: 06/30/2006
Sample ID: 0606383-13X5
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 61

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	49.9	49.9	0.1842	0.1850	0.4150	0.0761	0.0756	08:36:53	Yes

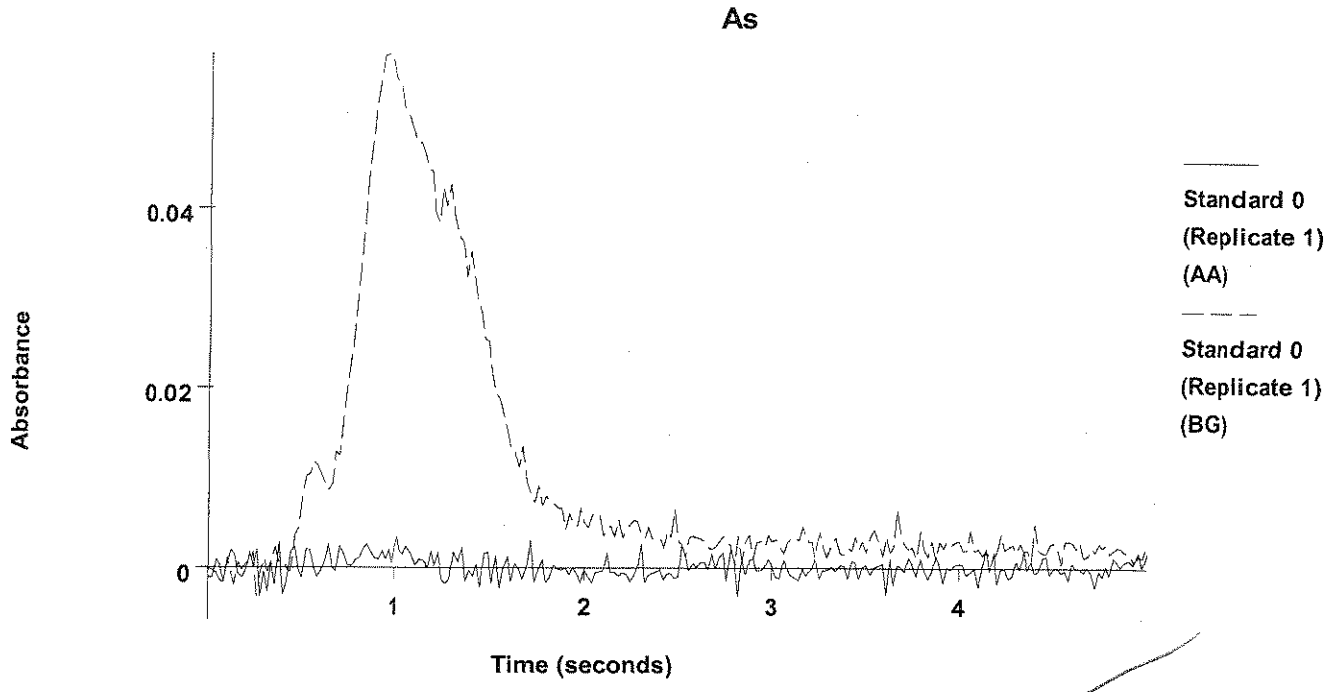


2	53.4	53.4	0.1969	0.1977	0.4428	0.0644	0.0495	08:39:54	Yes
Mean:	51.7	51.7	0.1906						
SD :	2.41	2.41	0.0090						
%RSD:	4.66	4.66	4.72						

Result for As is greater than 100 percent of calibration range.

Element: As Seq. No.: 114 AS Loc.: 148 Date: 06/30/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1			0.0005	0.0005	0.0034	0.0487	0.0572	08:42:44	Yes

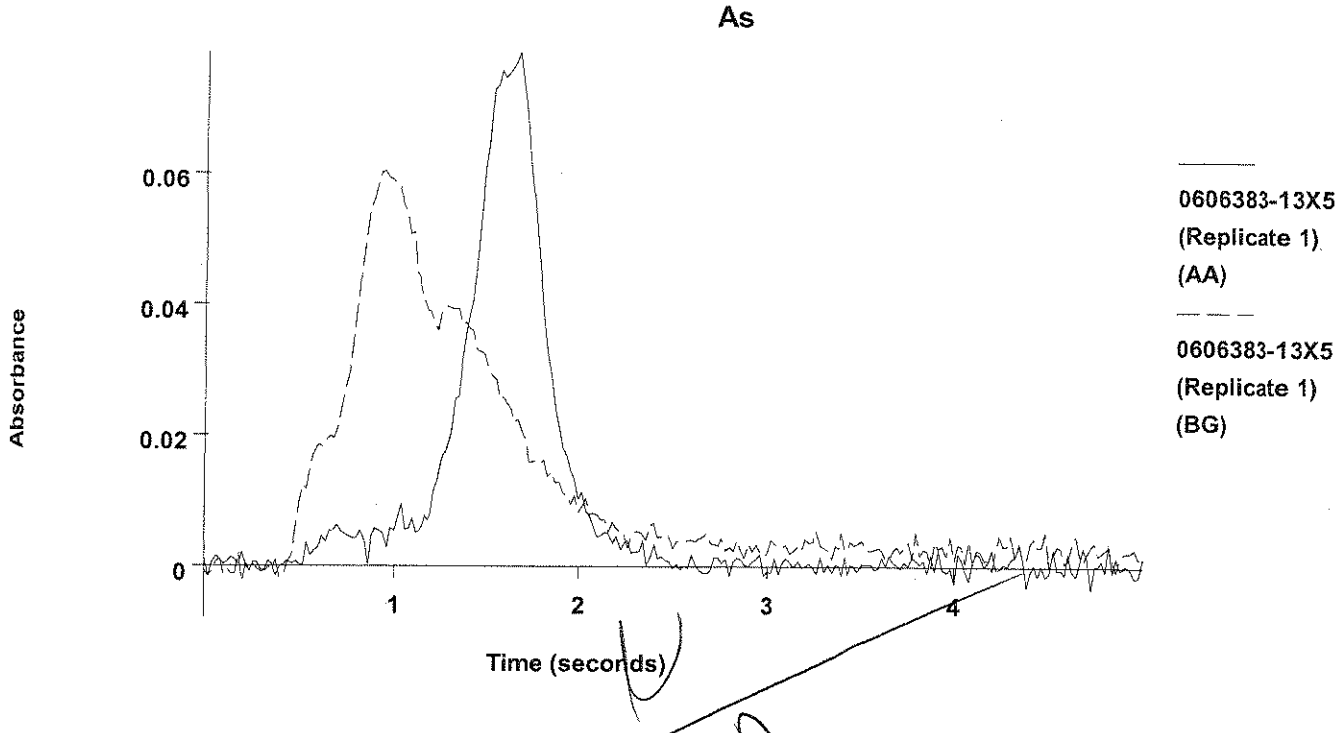


2	0.0010	0.0010	0.0034	0.0476	0.0746	08:45:33	Yes
Mean:	0.0007						
SD :	0.0004						
%RSD:	55.23						

Auto-zero performed.

Element: As Seq. No.: 115 AS Loc.: 61 Date: 06/30/2006
Sample ID: 0606383-13X5
µL dispensed: 20 from 148, 5 from 147, 5 from 61

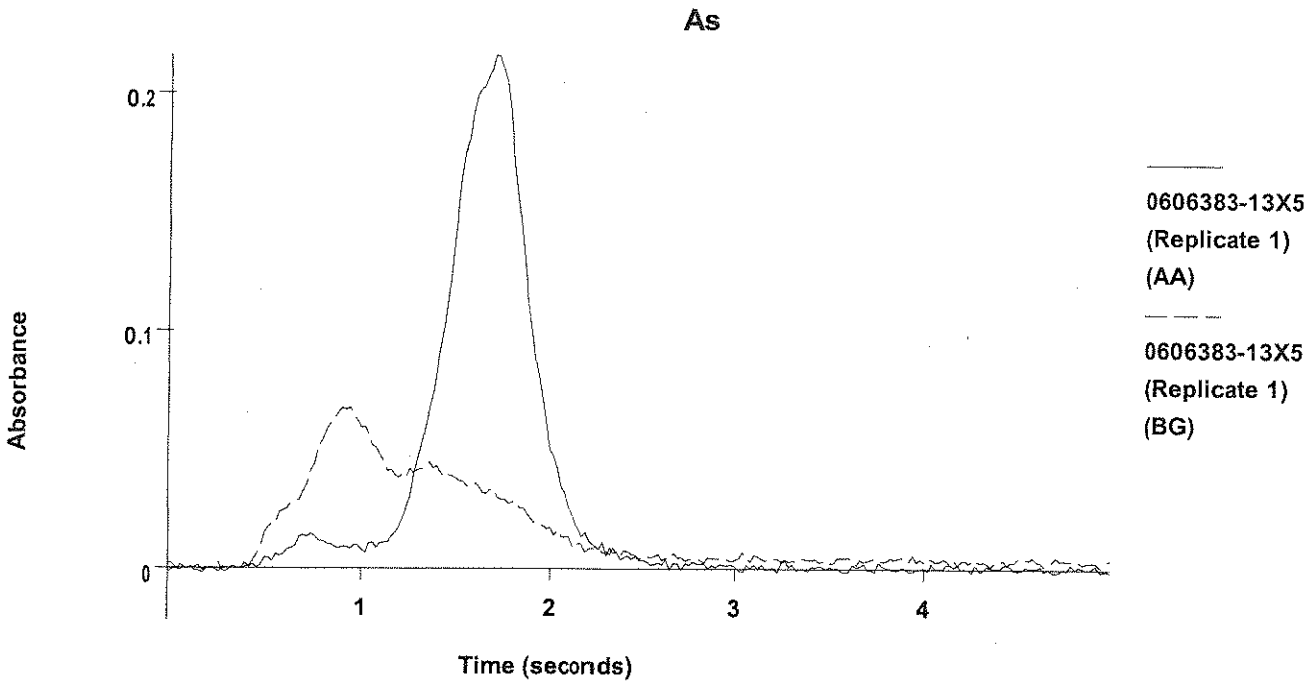
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	33.2	11.1	0.0389	0.0397	0.0785	0.0575	0.0604	08:48:21	Yes



2	34.1	11.4	0.0401	0.0408	0.1131	0.0485	0.0542	08:51:10 Yes
Mean:	33.7	11.2	0.0395					
SD :	0.68	0.23	0.0008					
%RSD:	2.01	2.01	2.13					

Element: As Seq. No.: 116 AS Loc.: 61 Date: 06/30/2006
Sample ID: 0606383-13X5
µL dispensed: 14 from 148, 5 from 147, 6 from 131, 5 from 61

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	95.3	31.8	0.1163	0.1170	0.2160	0.0722	0.0675	08:54:10	Yes



2	97.7	32.6	0.1193	0.1201	0.3130	0.0623	0.0509	08:57:10	Yes
Mean:	96.5	32.2	0.1178						
SD :	1.73	0.58	0.0022						
%RSD:	1.79	1.79	1.83						

Recovery for As = 104.8 % within 85 % to 115 %

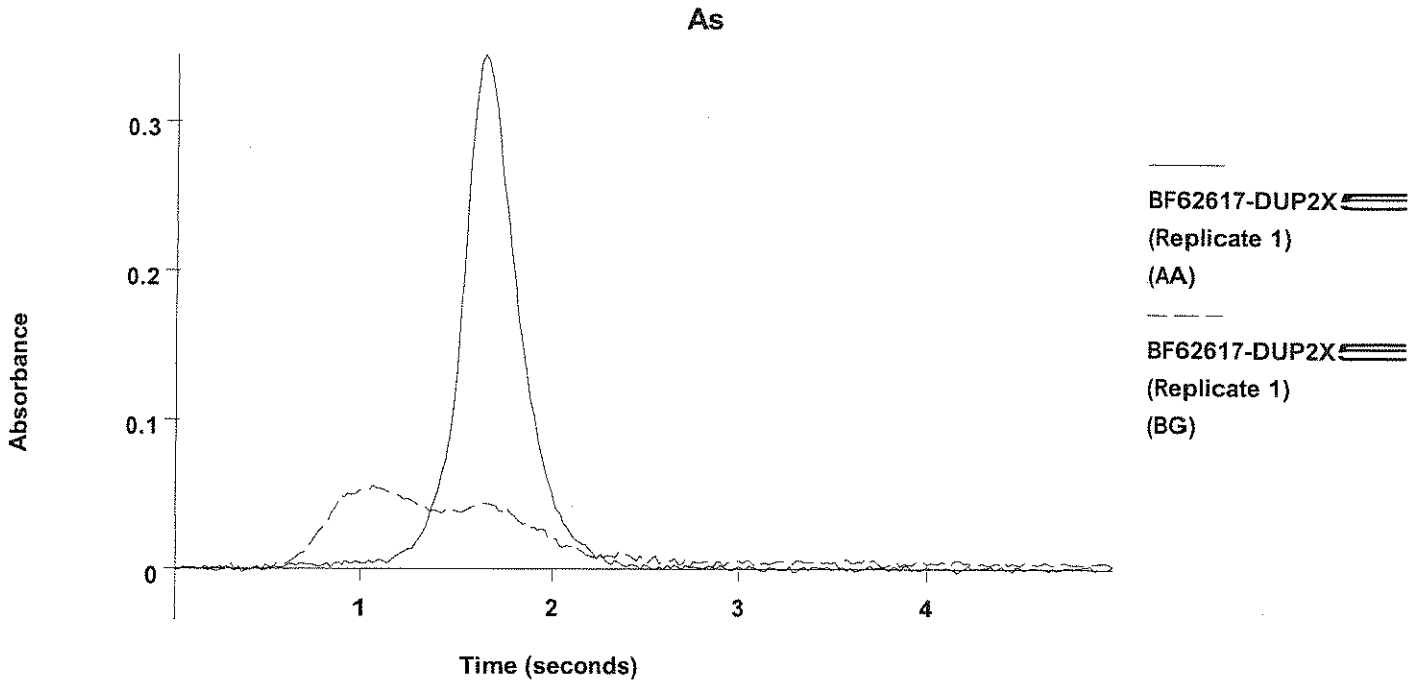
==========

Element: As Seq. No.: 117 AS Loc.: 62 Date: 06/30/2006

Sample ID: BF62617-DUP2X5

µL dispensed: 10 from 148, 5 from 147, 15 from 62

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	34.5	34.5	0.1264	0.1272	0.3445	0.0690	0.0557	09:00:00	Yes

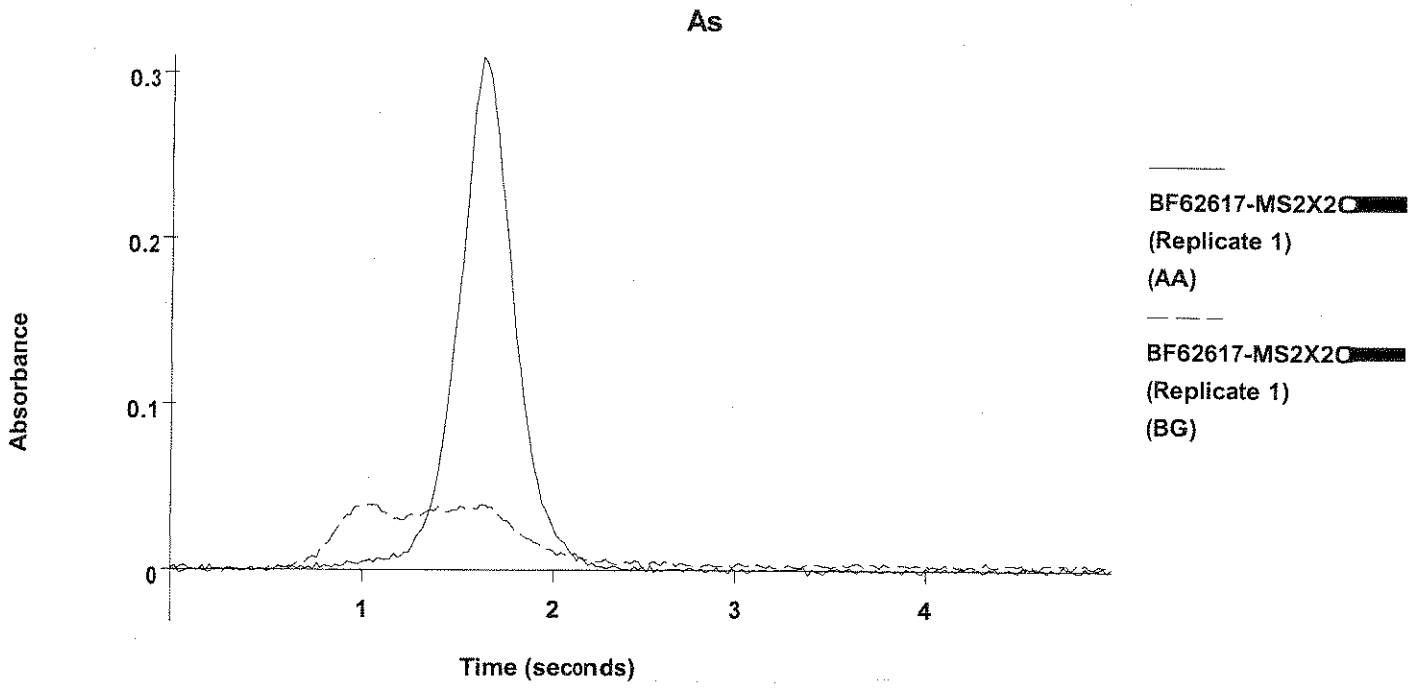


2	32.2	32.2	0.1179	0.1186	0.2709	0.0645	0.0550	09:02:51 Yes
Mean:	33.3	33.3	0.1221					
SD :	1.63	1.63	0.0061					
%RSD:	4.88	4.88	4.97					

$\frac{34.0 - 33.3}{33.65} = 2\%$

Element: As Seq. No.: 118 AS Loc.: 63 Date: 06/30/2006
Sample ID: BF62617-MS2X20
µL dispensed: 10 from 148, 5 from 147, 15 from 63

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	29.5	29.5	0.1079	0.1087	0.3102	0.0488	0.0395	09:05:40	Yes

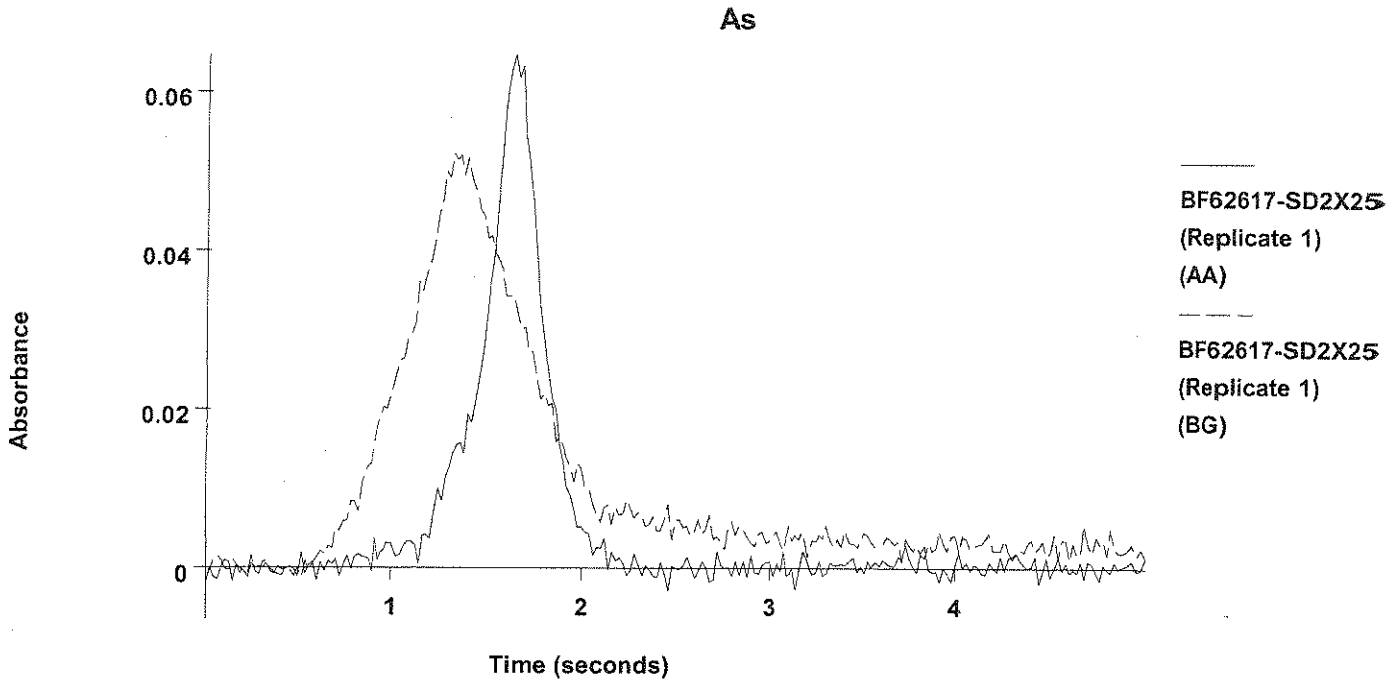


2	30.0	30.0	0.1097	0.1105	0.2779	0.0644	0.0503	09:08:30 Yes
Mean:	29.8	29.8	0.1088					
SD :	0.34	0.34	0.0013					
%RSD:	1.14	1.14	1.17					

$\frac{29.8(20) - 34.0(5)}{500} = .855$

Element: As Seq. No.: 119 AS Loc.: 64 Date: 06/30/2006
Sample ID: BF62617-SD2X25
µL dispensed: 10 from 148, 5 from 147, 15 from 64

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.0	7.0	0.0236	0.0243	0.0647	0.0491	0.0522	09:11:20	Yes

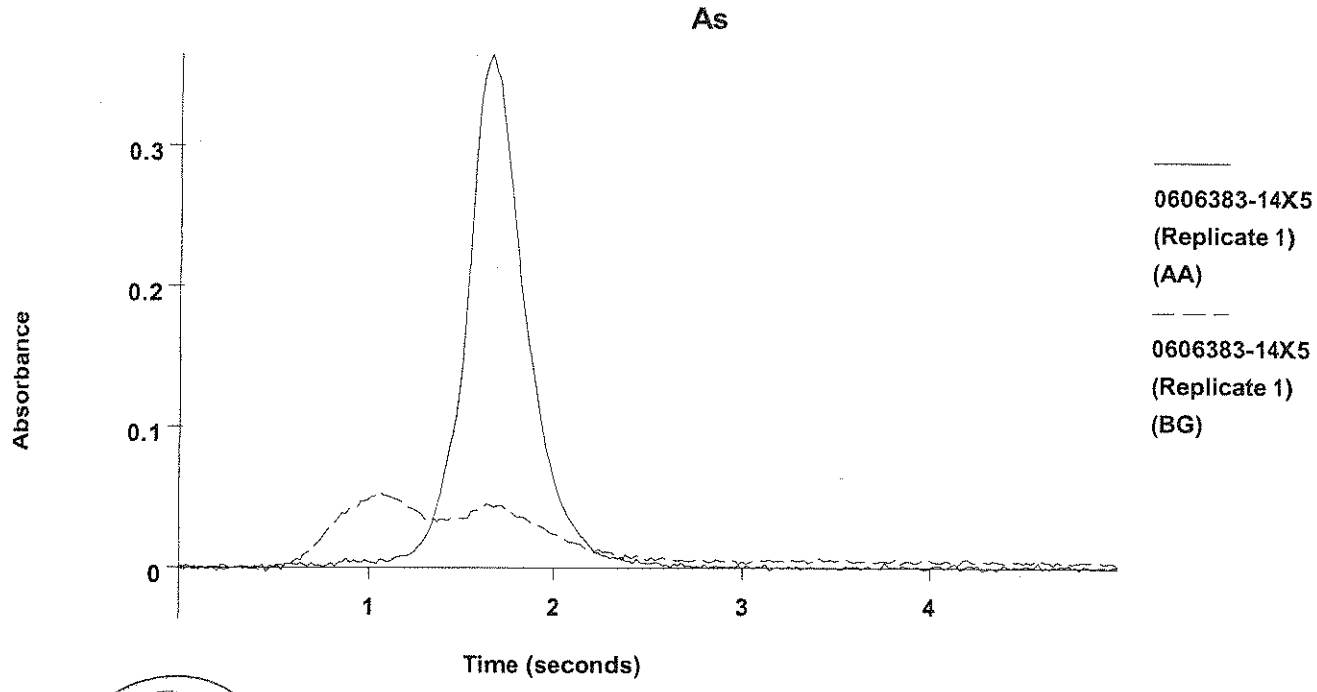


2	7.1	7.1	0.0240	0.0247	0.0670	0.0500	0.0571	09:14:10 Yes
Mean:	7.0	7.0	0.0238					
SD :	0.07	0.07	0.0003					
%RSD:	1.06	1.06	1.17					

$\frac{7.0(5) - 34.0}{34.0} = 35$

Element: As Seq. No.: 120 AS Loc.: 65 Date: 06/30/2006
Sample ID: 0606383-14X5
µL dispensed: 10 from 148, 5 from 147, 15 from 65

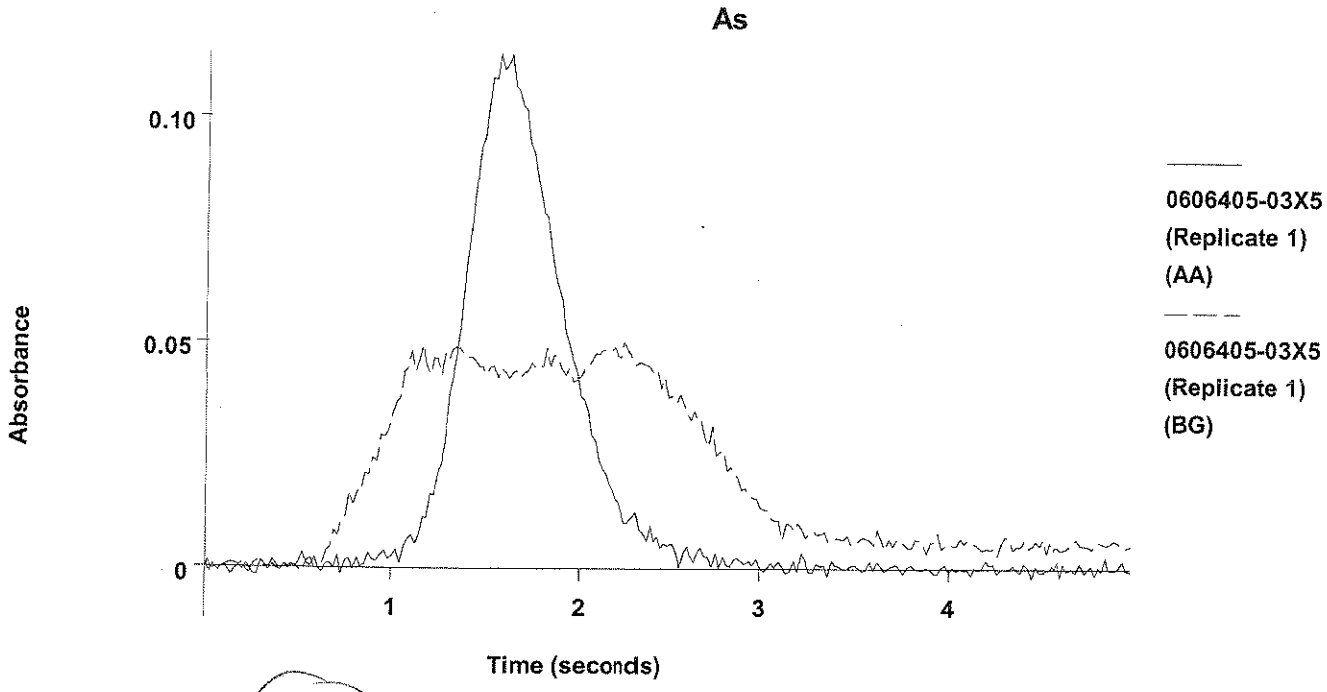
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	38.0	38.0	0.1396	0.1403	0.3654	0.0681	0.0534	09:17:01	Yes



2	37.7	37.7	0.1386	0.1393	0.3125	0.0655	0.0536	09:19:51 Yes
Mean:	37.9	37.9	0.1391					
SD :	0.19	0.19	0.0007					
%RSD:	0.51	0.51	0.52					

Element: As Seq. No.: 121 AS Loc.: 66 Date: 06/30/2006
Sample ID: 0606405-01X5
µL dispensed: 10 from 148, 5 from 147, 15 from 66

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	20.8	20.8	0.0754	0.0762	0.1284	0.1699	0.0827	09:22:41	Yes

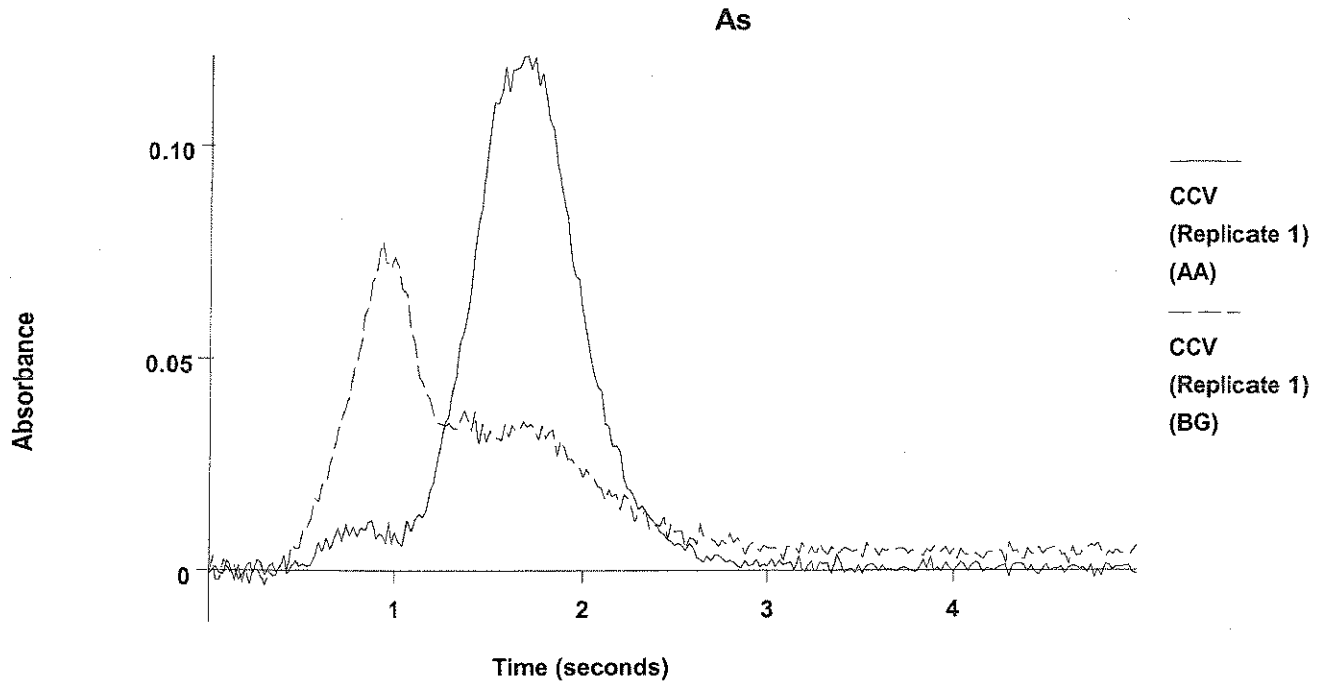


2	57.4	19.1	0.0690	0.0700	0.1146	0.1039	0.0536	09:48:20 Yes
Mean:	57.4	19.1	0.0691					
SD :	0.10	0.03	0.0001					
%RSD:	0.17	0.17	0.17					

15X

Element: As Seq. No.: 126 AS Loc.: 126 Date: 06/30/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.7	24.7	0.0897	0.0907	0.1212	0.0795	0.0776	09:51:14	Yes



2	25.2	25.2	0.0919	0.0929	0.1707	0.0817	0.0594	09:54:07 Yes
Mean:	24.9	24.9	0.0908					
SD :	0.41	0.41	0.0015					
%RSD:	1.66	1.66	1.70					

QC value within specified limits.

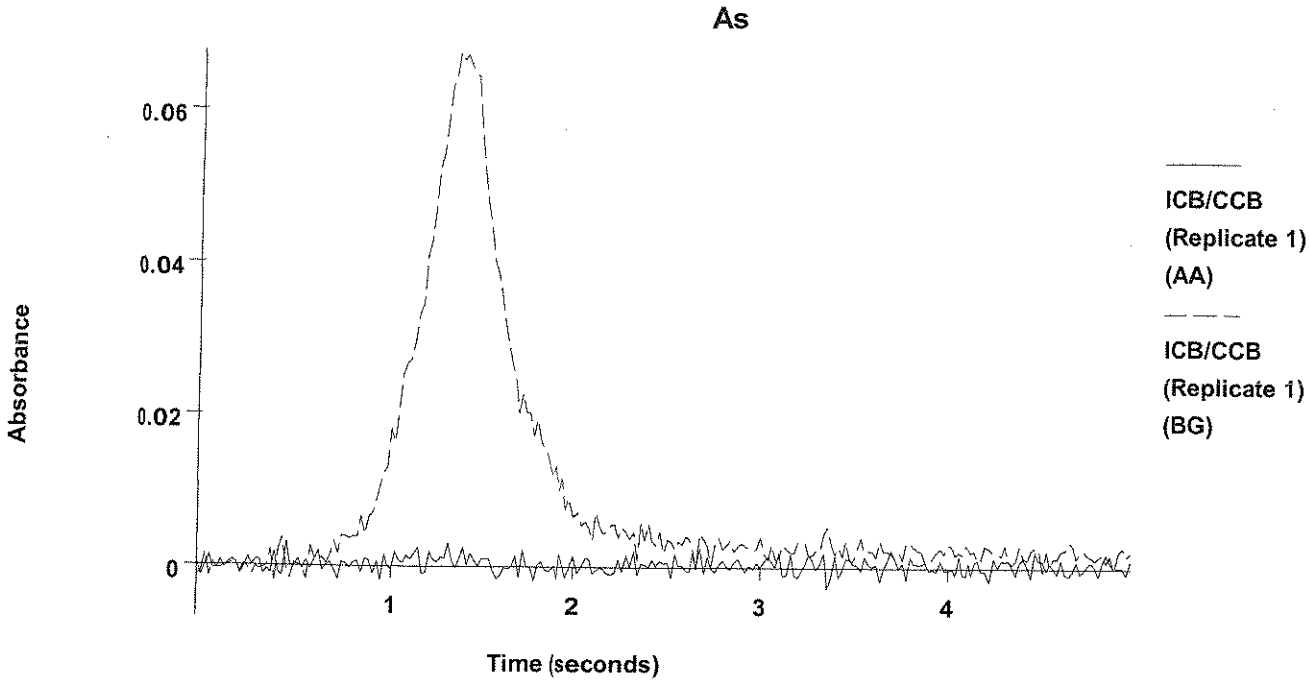
==========

Element: As Seq. No.: 127 AS Loc.: 148 Date: 06/30/2006

Sample ID: ICB/CCB

µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.8	0.8	0.0004	0.0014	0.0032	0.0446	0.0676	09:56:58	Yes



2	0.4	0.4	-0.0009	0.0001	0.0035	0.0521	0.0681	09:59:48 Yes
Mean:	0.6	0.6	-0.0003					
SD :	0.24	0.24	0.0009					
%RSD:	42.0	42.0	341.59					

QC value within specified limits.

==========

Element: As Seq. No.: 128 AS Loc.: 69 Date: 06/30/2006
Sample ID: 0606405-04X5
µL dispensed: 10 from 148, 5 from 147, 15 from 69

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	64.0	64.0	0.2367	0.2375	0.3471	0.2079	0.1579	10:02:39	Yes

ANALYSIS SEQUENCE

BPG0233

Instrument: HG1

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0233-CAL1	QC		1		6F26090		
BPG0233-CAL2	QC		2		6F26091		
BPG0233-CAL3	QC		3		6F26092		
BPG0233-CAL4	QC		4		6F26093		
BPG0233-CAL5	QC		5		6F26094		
BPG0233-CAL6	QC		6		6F26095		
BPG0233-ICV1	QC		7		6F26093		
BPG0233-SCV1	QC		8		6F26096		
BPG0233-ICB1	QC		9				
BF62618-BLK1	QC		10				
BF62618-BS1	QC		11				
BPG0233-CCB1	QC		12				
BPG0233-CCV1	QC		13		6F26093		
BF62618-BSD1	QC		14				
BF62618-SRM1	QC		15				
BF62618-DUP1	QC		16				
BF62618-MS1	QC		17				
BF62618-MSD1	QC		18				
BF62618-PS1	QC		19				
BF62618-DUP2	QC		20				
BF62618-MS2	QC		21				
BF62618-MSD2	QC		22				
BF62618-PS2	QC		23				
BPG0233-CCB2	QC		24				
BPG0233-CCV2	QC		25		6F26093		
0606383-14	Hg: ppm Mercury 7471	E	26				MACTEC Engineering & Consulting, In
0606383-13	Hg: ppm Mercury 7471	E	27				MACTEC Engineering & Consulting, In
0606383-12	Hg: ppm Mercury 7471	E	28				MACTEC Engineering & Consulting, In
0606383-11	Hg: ppm Mercury 7471	E	29				MACTEC Engineering & Consulting, In
0606383-10	Hg: ppm Mercury 7471	G	30				MACTEC Engineering & Consulting, In
0606383-09	Hg: ppm Mercury 7471	E	31				MACTEC Engineering & Consulting, In
0606383-08	Hg: ppm Mercury 7471	E	32				MACTEC Engineering & Consulting, In
0606383-07	Hg: ppm Mercury 7471	G	33				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0233

Instrument: HG1

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606383-06	Hg: ppm Mercury 7471	E	34				MACTEC Engineering & Consultin
0606383-05	Hg: ppm Mercury 7471	G	35				MACTEC Engineering & Consultin
BPG0233-CCB3	QC		36				
BPG0233-CCV3	QC		37		6F26093		
0606383-04	Hg: ppm Mercury 7471	E	38				MACTEC Engineering & Consultin
0606383-03	Hg: ppm Mercury 7471	G	39				MACTEC Engineering & Consultin
0606383-02	Hg: ppm Mercury 7471	E	40				MACTEC Engineering & Consultin
0606383-01	Hg: ppm Mercury 7471	G	41				MACTEC Engineering & Consultin
BPG0233-SRD1	QC		42				
BPG0233-SRD2	QC		43				
BPG0233-CCB4	QC		44				
BPG0233-CCV4	QC		45		6F26093		

Samples Loaded By Date Data Processed By Date

ESS LABORATORY
Data Review Check List for Mercury

Data Review Check List for Mercury

Project Number(s): 06383, 394, 405 **Run Date:** 6/27/06

Batch Number (s): 062706B

SOP Number: 30_2451 or 30_7471A

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the daily standard curve consist of a Calibration Blank and the required 5 Calibration Standards?	X		
2. Is the CCV standard analyzed immediately after the curve? Does this CCV meet QC limits (± 5% for 245.1 and ±10% for 7470/1A.)	X		
3. Is the ICV from a second source and is its percent recovery within QC limits (± 10%)?	X		
4. Is the method blank run at the required frequency (1 per batch) and not exceed the MRL?	X		
5. Is the LCS from a source separate from the calibration standards and is its percent recovery within QC limits (± 15% for 245.1 and ±20% for 7470/1A)?	X		
6. Are Matrix Spikes run at the required frequency (1 per ten samples or per analytical batch)? Is the percent recovery for Matrix Spikes within 75-125% ***(80-120% for USACE/Navy)***?		X	
7. Are Duplicates run the required frequency (1 per ten samples or per analytical batch)? Is the relative percent difference within QC limits (≤ 20% for aqueous and <35% for soil/sediments (≤20% for USACE))?	X		
8. Is the CCV standard (STD3) also analyzed after every tenth sample and at the end of the sample run? Does this CCV meet QC limits (± 10%)	X		
9. Are all the samples with concentrations greater than the highest standard used for initial calibration reprocessed and reanalyzed?			X
10. Has the serial dilution been analyzed at the required frequency (once per analytical batch) and are results within criterion (± 10%RPD)?	X		
11. Has the post dilution spike been analyzed at the required frequency (once per analytical batch) and are results within criterion (85-115%)?		X	
12. Are all sample holding times met?	X		
13. Are all non-conformances included and noted?	X		
14. Are all sample IDs and units checked for transcription errors?	X		

Comments on any "No" response:
BF62618- MS1 ND; MSD1 175. ; PDS1 535. ; MS2 ND, MSD2 ND PDS2 965.

Analyst: _____ Date: 6/27/06

Second Level Review: _____ Date: 6/27/06

Control Number: 30.0012-0602A (R. 1 8/2000) Page _____

053

Autosampler Loading List

Sample Information File: 062706B.SIF
Methods: Hg_5ppb Shigh

Location	Elements	Solution
0	Hg	Wash Solution
1	Hg	Calib Blank
	Hg	ICCB: 0.0000 µg/L
2	Hg	0.5 ug/L: 0.5 µg/L
3	Hg	1.0 ug/L: 1.0 µg/L
4	Hg	3.0 ug/L: 3.0 µg/L
	Hg	STD 3.0: 3.0000 µg/L
5	Hg	5.0 ug/L: 5.0 µg/L
6	Hg	10.0 ug/L: 10.0 µg/L
7	Hg	ICV: 3.0000 µg/L
9	Hg	Sample: BF62618-blk1
10	Hg	Sample: BF62618-bs1
11	Hg	Sample: BF62618-bsd1
12	Hg	Sample: BF62618-srm1 x10
13	Hg	Sample: 0606383-01
14	Hg	Sample: 0606383-02
15	Hg	Sample: 0606383-03
16	Hg	Sample: 0606383-04
17	Hg	Sample: 0606383-05
18	Hg	Sample: 0606383-06
19	Hg	Sample: 0606383-07
20	Hg	Sample: 0606383-08
21	Hg	Sample: 0606383-09
22	Hg	Sample: 0606383-10
23	Hg	Sample: 0606383-11
24	Hg	Sample: BF62618-dup1
25	Hg	Sample: BF62618-ms1
26	Hg	Sample: BF62618-msd1
27	Hg	Sample: BF62618-sd1 x5
28	Hg	Sample: BF62618-pds1
29	Hg	Sample: 0606383-12
30	Hg	Sample: 0606383-13
31	Hg	Sample: BF62618-dup2
32	Hg	Sample: BF62618-ms2
33	Hg	Sample: BF62618-msd2
34	Hg	Sample: BF62618-sd2 x5
35	Hg	Sample: BF62618-pds2
36	Hg	Sample: 0606383-14
37	Hg	Sample: 0606394-08
38	Hg	Sample: 0606394-14
39	Hg	Sample: 0606405-01
40	Hg	Sample: 0606405-02
41	Hg	Sample: 0606405-03
42	Hg	Sample: 0606405-04

Mean: 0.3602
SD : 0.0008
%RSD: 0.2188
[Hg] Standard number 3 applied. [3.00]
Correlation Coefficient: 0.99998 Slope: 0.11992
Intercept : 0.00093

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 06/27/2006
Sample ID: 5.0 ug/L

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.5944	0.6177	0.1200	11:21:35	Yes
2			0.5898	0.6131	0.1201	11:22:05	Yes
Mean:			0.5921				
SD :			0.0033				
%RSD:			0.5501				

[Hg] Standard number 4 applied. [5.00]
Correlation Coefficient: 0.99996 Slope: 0.11840
Intercept : 0.00213

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 06/27/2006
Sample ID: 10.0 ug/L

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			1.1668	1.1901	0.2303	11:23:32	Yes
2			1.1481	1.1714	0.2283	11:24:01	Yes
Mean:			1.1574				
SD :			0.0133				
%RSD:			1.1460				

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99990 Slope: 0.11571
Intercept : 0.00610

Calibration data for Hg

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0233	--	----	----	----
0.5 ug/L	0.0610	0.50	0.47	0.001	2.0
1.0 ug/L	0.1221	1.00	1.00	0.002	1.5
3.0 ug/L	0.3602	3.00	3.06	0.001	0.2
5.0 ug/L	0.5921	5.00	5.06	0.003	0.6
10.0 ug/L	1.1574	10.00	9.95	0.013	1.1

Correlation Coefficient: 0.99990 Slope: 0.11571 Intercept: 0.0061

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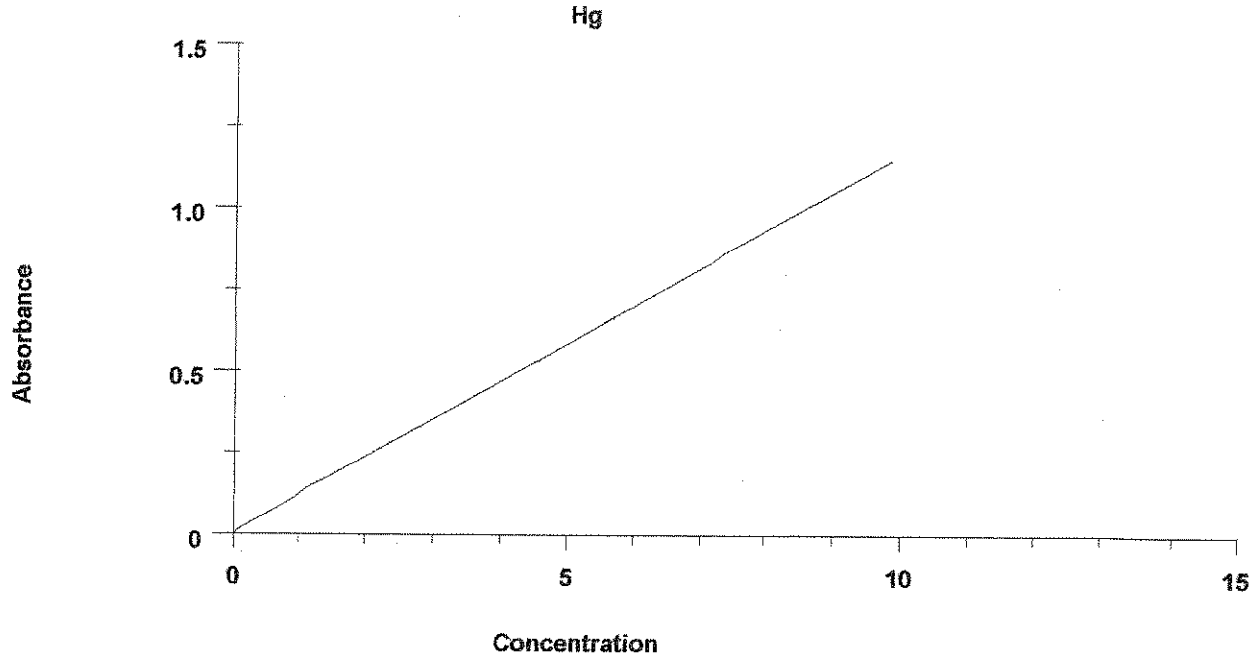
cal good SS 6/27/06



Element: Hg Seq. No.: 7 AS Loc.: 4 Date: 06/27/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.07	3.07	0.3615	0.3848	0.0747	11:25:27	Yes
2	3.04	3.04	0.3583	0.3817	0.0745	11:25:56	Yes
Mean:	3.06	3.06	0.3599				
SD :	0.019	0.019	0.0022				
%RSD:	0.6	0.6	0.6132				

QC value within specified limits.

Element: Hg Seq. No.: 8 AS Loc.: 7 Date: 06/27/2006
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.16	3.16	0.3720	0.3953	0.0771	11:27:23	Yes
2	3.16	3.16	0.3713	0.3947	0.0770	11:27:52	Yes
Mean:	3.16	3.16	0.3717				
SD :	0.004	0.004	0.0005				
%RSD:	0.1	0.1	0.1262				

QC value within specified limits.

Element: Hg Seq. No.: 9 AS Loc.: 1 Date: 06/27/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.06	-0.06	-0.0004	0.0229	0.0039	11:29:17	Yes
2	-0.07	-0.07	-0.0015	0.0218	0.0038	11:29:46	Yes

Mean:	-0.06	-0.06	-0.0010
SD :	0.007	0.007	0.0008
%RSD:	11.1	11.1	80.2187

QC value within specified limits.

Element: Hg Seq. No.: 10 AS Loc.: 9 Date: 06/27/2006
Sample ID: BF62618-blk1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.08	-0.08	-0.0037	0.0197	0.0034	11:31:09	Yes
2	-0.09	-0.09	-0.0047	0.0186	0.0034	11:31:38	Yes
Mean:	-0.09	-0.09	-0.0042				
SD :	0.006	0.006	0.0007				
%RSD:	7.2	7.2	17.6515				

ND

Element: Hg Seq. No.: 11 AS Loc.: 10 Date: 06/27/2006
Sample ID: BF62618-bs1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.98	2.98	0.3511	0.3744	0.0732	11:33:02	Yes
2	2.96	2.96	0.3483	0.3716	0.0731	11:33:31	Yes
Mean:	2.97	2.97	0.3497				
SD :	0.017	0.017	0.0020				
%RSD:	0.6	0.6	0.5587				

99%

Element: Hg Seq. No.: 12 AS Loc.: 11 Date: 06/27/2006
Sample ID: BF62618-bsd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.02	3.02	0.3560	0.3793	0.0740	11:34:55	Yes
2	3.01	3.01	0.3543	0.3776	0.0738	11:35:24	Yes
Mean:	3.02	3.02	0.3551				
SD :	0.010	0.010	0.0012				
%RSD:	0.3	0.3	0.3335				

101%

Element: Hg Seq. No.: 13 AS Loc.: 12 Date: 06/27/2006
Sample ID: BF62618-srm1 x10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.61	2.61	0.3084	0.3318	0.0639	11:36:49	Yes
2	2.54	2.54	0.3004	0.3238	0.0631	11:37:19	Yes
Mean:	2.58	2.58	0.3044				
SD :	0.049	0.049	0.0057				
%RSD:	1.9	1.9	1.8579				

$\frac{2.58(40)(10)}{0.6} = 1.72$

Element: Hg Seq. No.: 14 AS Loc.: 13 Date: 06/27/2006
Sample ID: 0606383-01

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.81	4.81	0.5632	0.5865	0.1137	11:38:44	Yes
2	4.72	4.72	0.5527	0.5760	0.1118	11:39:13	Yes
Mean:	4.77	4.77	0.5579				
SD :	0.064	0.064	0.0074				

%RSD:	1.3	1.3	1.3280

Element: Hg Seq. No.: 15 AS Loc.: 14 Date: 06/27/2006
Sample ID: 0606383-02

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.55	0.55	0.0692	0.0925	0.0171	11:40:40	Yes
2	0.53	0.53	0.0677	0.0910	0.0170	11:41:09	Yes
Mean:	0.54	0.54	0.0684				
SD :	0.009	0.009	0.0010				
%RSD:	1.7	1.7	1.5192				

Element: Hg Seq. No.: 16 AS Loc.: 15 Date: 06/27/2006
Sample ID: 0606383-03

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.12	3.12	0.3674	0.3907	0.0751	11:42:36	Yes
2	3.08	3.08	0.3619	0.3852	0.0745	11:43:06	Yes
Mean:	3.10	3.10	0.3647				
SD :	0.034	0.034	0.0039				
%RSD:	1.1	1.1	1.0654				

Element: Hg Seq. No.: 17 AS Loc.: 16 Date: 06/27/2006
Sample ID: 0606383-04

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.46	0.46	0.0592	0.0826	0.0163	11:44:34	Yes
2	0.46	0.46	0.0592	0.0825	0.0163	11:45:03	Yes
Mean:	0.46	0.46	0.0592				
SD :	0.000	0.000	0.0000				
%RSD:							

Element: Hg Seq. No.: 18 AS Loc.: 17 Date: 06/27/2006
Sample ID: 0606383-05

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.45	0.45	0.0581	0.0815	0.0151	11:46:28	Yes
2	0.38	0.38	0.0505	0.0739	0.0139	11:46:57	Yes
Mean:	0.42	0.42	0.0543				
SD :	0.046	0.046	0.0054				
%RSD:	11.1	11.1	9.8872				

Element: Hg Seq. No.: 19 AS Loc.: 18 Date: 06/27/2006
Sample ID: 0606383-06

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	0.0016	0.0249	0.0043	11:48:19	Yes
2	-0.05	-0.05	0.0000	0.0233	0.0041	11:48:49	Yes
Mean:	-0.05	-0.05	0.0008				
SD :	0.010	0.010	0.0011				
%RSD:	21.2	21.2	141.6068				

Element: Hg Seq. No.: 20 AS Loc.: 4 Date: 06/27/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.01	3.01	0.3547	0.3780	0.0730	11:50:13	Yes
2	2.99	2.99	0.3517	0.3751	0.0731	11:50:42	Yes
Mean:	3.00	3.00	0.3532				
SD :	0.018	0.018	0.0021				
%RSD:	0.6	0.6	0.5911				

QC value within specified limits.

Element: Hg Seq. No.: 21 AS Loc.: 1 Date: 06/27/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.07	-0.07	-0.0022	0.0211	0.0037	11:52:05	Yes
2	-0.08	-0.08	-0.0030	0.0204	0.0036	11:52:34	Yes
Mean:	-0.08	-0.08	-0.0026				
SD :	0.005	0.005	0.0005				
%RSD:	6.2	6.2	20.6603				

QC value within specified limits.

Element: Hg Seq. No.: 22 AS Loc.: 19 Date: 06/27/2006
Sample ID: 0606383-07

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.27	5.27	0.6161	0.6394	0.1231	11:53:57	Yes
2	5.22	5.22	0.6099	0.6333	0.1233	11:54:26	Yes
Mean:	5.25	5.25	0.6130				
SD :	0.038	0.038	0.0043				
%RSD:	0.7	0.7	0.7091				

Element: Hg Seq. No.: 23 AS Loc.: 20 Date: 06/27/2006
Sample ID: 0606383-08

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.46	3.46	0.4066	0.4299	0.0832	11:55:49	Yes
2	3.45	3.45	0.4056	0.4289	0.0830	11:56:18	Yes
Mean:	3.46	3.46	0.4061				
SD :	0.006	0.006	0.0007				
%RSD:	0.2	0.2	0.1758				

Element: Hg Seq. No.: 24 AS Loc.: 21 Date: 06/27/2006
Sample ID: 0606383-09

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.18	0.18	0.0266	0.0499	0.0095	11:57:41	Yes
2	0.17	0.17	0.0260	0.0493	0.0095	11:58:10	Yes
Mean:	0.17	0.17	0.0263				
SD :	0.003	0.003	0.0004				
%RSD:	2.0	2.0	1.5000				

Element: Hg Seq. No.: 25 AS Loc.: 22 Date: 06/27/2006

Sample ID: 0606383-10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.99	0.99	0.1210	0.1444	0.0273	11:59:33	Yes
2	0.91	0.91	0.1115	0.1348	0.0257	12:00:02	Yes
Mean:	0.95	0.95	0.1163				
SD :	0.059	0.059	0.0068				
%RSD:	6.2	6.2	5.8334				

Element: Hg Seq. No.: 26 AS Loc.: 23 Date: 06/27/2006
Sample ID: 0606383-11

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.07	-0.07	-0.0014	0.0219	0.0038	12:01:27	Yes
2	-0.07	-0.07	-0.0025	0.0209	0.0037	12:01:56	Yes
Mean:	-0.07	-0.07	-0.0020				
SD :	0.006	0.006	0.0007				
%RSD:	9.3	9.3	38.3578				

Element: Hg Seq. No.: 27 AS Loc.: 24 Date: 06/27/2006
Sample ID: BF62618-dup1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.06	-0.06	-0.0011	0.0222	0.0038	12:03:21	Yes
2	-0.08	-0.08	-0.0028	0.0205	0.0037	12:03:51	Yes
Mean:	0.07	0.07	0.0020				
SD :	0.010	0.010	0.0012				
%RSD:	15.0	15.0	60.7559				

Element: Hg Seq. No.: 28 AS Loc.: 25 Date: 06/27/2006
Sample ID: BF62618-ms1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.29	0.29	0.0396	0.0630	0.0117	12:05:16	Yes
2	0.27	0.27	0.0377	0.0610	0.0115	12:05:46	Yes
Mean:	0.28	0.28	0.0387				
SD :	0.012	0.012	0.0014				
%RSD:	4.2	4.2	3.5412				

Element: Hg Seq. No.: 29 AS Loc.: 26 Date: 06/27/2006
Sample ID: BF62618-msd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.51	0.51	0.0652	0.0886	0.0170	12:07:11	Yes
2	0.48	0.48	0.0621	0.0855	0.0168	12:07:40	Yes
Mean:	0.50	0.50	0.0637				
SD :	0.019	0.019	0.0022				
%RSD:	3.8	3.8	3.4428				

175

Element: Hg Seq. No.: 30 AS Loc.: 27 Date: 06/27/2006
Sample ID: BF62618-sd1 x5

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak

#	µg/L	µg/L	Signal	Area	Height		Stored
1	-0.19	-0.19	-0.0164	0.0069	0.0013	12:09:05	Yes
2	-0.19	-0.19	-0.0157	0.0077	0.0014	12:09:34	Yes
Mean:	-0.19	-0.19	-0.0160				
SD :	0.005	0.005	0.0005				
%RSD:	2.5	2.5	3.3849				

Element: Hg Seq. No.: 31 AS Loc.: 28 Date: 06/27/2006
Sample ID: BF62618-pds1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.61	1.61	0.1922	0.2156	0.0435	12:11:01	Yes
2	1.58	1.58	0.1892	0.2125	0.0433	12:11:30	Yes
Mean:	1.60	1.60	0.1907				
SD :	0.018	0.018	0.0021				
%RSD:	1.2	1.2	1.1169				

535

Element: Hg Seq. No.: 32 AS Loc.: 4 Date: 06/27/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.02	3.02	0.3554	0.3788	0.0731	12:12:56	Yes
2	3.00	3.00	0.3530	0.3763	0.0729	12:13:26	Yes
Mean:	3.01	3.01	0.3542				
SD :	0.015	0.015	0.0017				
%RSD:	0.5	0.5	0.4923				

QC value within specified limits.

Element: Hg Seq. No.: 33 AS Loc.: 1 Date: 06/27/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.08	-0.08	-0.0035	0.0198	0.0035	12:14:48	Yes
2	-0.08	-0.08	-0.0037	0.0196	0.0035	12:15:18	Yes
Mean:	-0.08	-0.08	-0.0036				
SD :	0.001	0.001	0.0001				
%RSD:	1.5	1.5	3.9025				

QC value within specified limits.

Element: Hg Seq. No.: 34 AS Loc.: 29 Date: 06/27/2006
Sample ID: 0606383-12

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.15	0.15	0.0231	0.0464	0.0088	12:16:42	Yes
2	0.14	0.14	0.0222	0.0456	0.0088	12:17:12	Yes
Mean:	0.14	0.14	0.0226				
SD :	0.005	0.005	0.0006				
%RSD:	3.5	3.5	2.5477				

Element: Hg Seq. No.: 35 AS Loc.: 30 Date: 06/27/2006
Sample ID: 0606383-13

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	-0.08	-0.08	-0.0035	0.0198	0.0034	12:18:38	Yes
2	-0.11	-0.11	-0.0061	0.0173	0.0032	12:19:08	Yes
Mean:	-0.09	-0.09	-0.0048				
SD :	0.015	0.015	0.0018				
%RSD:	16.4	16.4	37.2778				

Element: Hg Seq. No.: 36 AS Loc.: 31 Date: 06/27/2006
Sample ID: BF62618-dup2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.10	-0.10	-0.0050	0.0183	0.0032	12:20:36	Yes
2	-0.10	-0.10	-0.0052	0.0181	0.0032	12:21:06	Yes
Mean:	-0.10	-0.10	-0.0051				
SD :	0.001	0.001	0.0001				
%RSD:	1.0	1.0	2.2593				

Element: Hg Seq. No.: 37 AS Loc.: 32 Date: 06/27/2006
Sample ID: BF62618-ms2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.32	0.32	0.0435	0.0668	0.0124	12:22:31	Yes
2	0.31	0.31	0.0414	0.0647	0.0122	12:23:01	Yes
Mean:	0.31	0.31	0.0424				
SD :	0.013	0.013	0.0015				
%RSD:	4.0	4.0	3.4345				

Element: Hg Seq. No.: 38 AS Loc.: 33 Date: 06/27/2006
Sample ID: BF62618-msd2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.29	0.29	0.0396	0.0629	0.0118	12:24:21	Yes
2	0.28	0.28	0.0386	0.0619	0.0117	12:24:50	Yes
Mean:	0.29	0.29	0.0391				
SD :	0.006	0.006	0.0007				
%RSD:	2.2	2.2	1.8278				

Element: Hg Seq. No.: 39 AS Loc.: 34 Date: 06/27/2006
Sample ID: BF62618-sd2 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.20	-0.20	-0.0175	0.0058	0.0012	12:26:11	Yes
2	-0.20	-0.20	-0.0171	0.0062	0.0012	12:26:40	Yes
Mean:	-0.20	-0.20	-0.0173				
SD :	0.003	0.003	0.0003				
%RSD:	1.4	1.4	1.8703				

Element: Hg Seq. No.: 40 AS Loc.: 35 Date: 06/27/2006
Sample ID: BF62618-pds2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.40	1.40	0.1676	0.1910	0.0402	12:28:01	Yes
2	1.39	1.39	0.1673	0.1906	0.0404	12:28:30	Yes
Mean:	1.39	1.39	0.1675				

SD :	0.002	0.002	0.0002
%RSD:	0.1	0.1	0.1337

Element: Hg Seq. No.: 41 AS Loc.: 36 Date: 06/27/2006
Sample ID: 0606383-14

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.10	-0.10	-0.0060	0.0173	0.0030	12:29:54	Yes
2	-0.12	-0.12	-0.0074	0.0159	0.0029	12:30:23	Yes
Mean:	-0.11	-0.11	-0.0067				
SD :	0.008	0.008	0.0010				
%RSD:	7.5	7.5	14.2830				

Element: Hg Seq. No.: 42 AS Loc.: 37 Date: 06/27/2006
Sample ID: 0606394-08

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	0.0017	0.0250	0.0046	12:31:45	Yes
2	-0.05	-0.05	0.0006	0.0239	0.0045	12:32:14	Yes
Mean:	-0.04	-0.04	0.0011				
SD :	0.007	0.007	0.0008				
%RSD:	15.5	15.5	68.5784				

Element: Hg Seq. No.: 43 AS Loc.: 38 Date: 06/27/2006
Sample ID: 0606394-14

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.78	0.78	0.0962	0.1195	0.0231	12:33:37	Yes
2	0.77	0.77	0.0946	0.1180	0.0230	12:34:06	Yes
Mean:	0.77	0.77	0.0954				
SD :	0.010	0.010	0.0011				
%RSD:	1.2	1.2	1.1693				

Element: Hg Seq. No.: 44 AS Loc.: 4 Date: 06/27/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.01	3.01	0.3543	0.3777	0.0730	12:35:31	Yes
2	2.99	2.99	0.3524	0.3757	0.0726	12:36:01	Yes
Mean:	3.00	3.00	0.3534				
SD :	0.012	0.012	0.0014				
%RSD:	0.4	0.4	0.3851				

QC value within specified limits.

Element: Hg Seq. No.: 45 AS Loc.: 1 Date: 06/27/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.09	-0.09	-0.0044	0.0190	0.0034	12:37:24	Yes
2	-0.09	-0.09	-0.0048	0.0185	0.0033	12:37:53	Yes
Mean:	-0.09	-0.09	-0.0046				
SD :	0.003	0.003	0.0003				
%RSD:	3.0	3.0	7.0404				

QC value within specified limits.

Element: Hg Seq. No.: 46 AS Loc.: 39 Date: 06/27/2006
Sample ID: 0606405-01

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.36	0.36	0.0475	0.0709	0.0136	12:39:16	Yes
2	0.35	0.35	0.0464	0.0698	0.0135	12:39:45	Yes
Mean:	0.35	0.35	0.0470				
SD :	0.007	0.007	0.0008				
%RSD:	1.9	1.9	1.6513				

Element: Hg Seq. No.: 47 AS Loc.: 40 Date: 06/27/2006
Sample ID: 0606405-02

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.36	0.36	0.0478	0.0712	0.0136	12:41:09	Yes
2	0.35	0.35	0.0468	0.0702	0.0134	12:41:39	Yes
Mean:	0.36	0.36	0.0473				
SD :	0.006	0.006	0.0007				
%RSD:	1.7	1.7	1.5017				

Element: Hg Seq. No.: 48 AS Loc.: 41 Date: 06/27/2006
Sample ID: 0606405-03

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.63	0.63	0.0793	0.1027	0.0199	12:43:04	Yes
2	0.63	0.63	0.0792	0.1026	0.0200	12:43:33	Yes
Mean:	0.63	0.63	0.0793				
SD :	0.001	0.001	0.0001				
%RSD:	0.1	0.1	0.1038				

Element: Hg Seq. No.: 49 AS Loc.: 42 Date: 06/27/2006
Sample ID: 0606405-04

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.76	0.76	0.0939	0.1173	0.0226	12:44:58	Yes
2	0.75	0.75	0.0929	0.1163	0.0225	12:45:28	Yes
Mean:	0.75	0.75	0.0934				
SD :	0.006	0.006	0.0007				
%RSD:	0.8	0.8	0.7348				

Element: Hg Seq. No.: 50 AS Loc.: 4 Date: 06/27/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.99	2.99	0.3523	0.3757	0.0728	12:46:53	Yes
2	2.97	2.97	0.3495	0.3728	0.0726	12:47:23	Yes
Mean:	2.98	2.98	0.3509				
SD :	0.017	0.017	0.0020				
%RSD:	0.6	0.6	0.5751				

QC value within specified limits.

Element: Hg Seq. No.: 51 AS Loc.: 1 Date: 06/27/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.09	-0.09	-0.0049	0.0185	0.0033	12:48:47	Yes
2	-0.10	-0.10	-0.0054	0.0180	0.0032	12:49:17	Yes
Mean:	-0.10	-0.10	-0.0051				
SD :	0.003	0.003	0.0004				
%RSD:	3.3	3.3	7.1931				

QC value within specified limits.

ANALYSIS SEQUENCE

BPG0235

Instrument: HG1

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0235-CAL1	QC		1		6F27025		
BPG0235-CAL2	QC		2		6F27026		
BPG0235-CAL3	QC		3		6F27027		
BPG0235-CAL4	QC		4		6F27028		
BPG0235-CAL5	QC		5		6F27029		
BPG0235-CAL6	QC		6		6F27030		
BPG0235-ICV1	QC		7		6F27029		
BPG0235-SCV1	QC		8		6F27031		
BPG0235-ICB1	QC		9				
BF62707-BLK1	QC		10				
BF62707-BS1	QC		11				
BPG0235-CCB1	QC		12				
BPG0235-CCV1	QC		13		6F27029		
BF62707-BSD1	QC		14				
0606383-15	Hg: ppm Mercury 7470	C	15				MACTEC Engineering & Consulting, In
BPG0235-CCB2	QC		16				
BPG0235-CCV2	QC		17		6F27029		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
Data Review Check List for Mercury

Data Review Check List for Mercury

Project Number(s): 06353-15, 387-01T, 387-02, 407 tot/dis, 426, 410T, **Run Date:** 6/28/06

Batch Number (s): 0628506A, 425 tot/dis, 429 dis, 430 tot/dis

SOP Number: 30_2451 or 30_7471A

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the daily standard curve consist of a Calibration Blank and the required 5 Calibration Standards?	X		
2. Is the CCV standard analyzed immediately after the curve? Does this CCV meet QC limits (± 5% for 245.1 and ±10% for 7470/1A.)	X		
3. Is the ICV from a second source and is its percent recovery within QC limits (± 10%)?	X		
4. Is the method blank run at the required frequency (1 per batch) and not exceed the MRL?	X		
5. Is the LCS from a source separate from the calibration standards and is its percent recovery within QC limits (± 15% for 245.1 and ±20% for 7470/1A)?	X		
6. Are Matrix Spikes run at the required frequency (1 per ten samples or per analytical batch)? Is the percent recovery for Matrix Spikes within 75-125% (***80-120% for USACE/Navy***)?	X		
7. Are Duplicates run the required frequency (1 per ten samples or per analytical batch)? Is the relative percent difference within QC limits (≤ 20% for aqueous and <35% for soil/sediments (≤20% for USACE))?	X		
8. Is the CCV standard (STD3) also analyzed after every tenth sample and at the end of the sample run? Does this CCV meet QC limits (± 10%)	X		
9. Are all the samples with concentrations greater than the highest standard used for initial calibration reprocessed and reanalyzed?			X
10. Has the serial dilution been analyzed at the required frequency (once per analytical batch) and are results within criterion (± 10%RPD)?	X		
11. Has the post dilution spike been analyzed at the required frequency (once per analytical batch) and are results within criterion (85-115%)?	X		
12. Are all sample holding times met?	X		
13. Are all non-conformances included and noted?	X		
14. Are all sample IDs and units checked for transcription errors?	X		

Comments on any "No" response:

Analyst: Erin E Minot Date: 6/28/06

Second Level Review: SM Date: 6/28/06

Control Number: 30.0012-0602A (R. 1 8/2000) Page _____

Autosampler Loading List

Sample Information File: 062806A.SIF
Methods: Hg_5ppb Aq

Location	Elements	Solution
0	Hg	Wash Solution
1	Hg	Calib Blank
	Hg	ICCB: 0.0000 µg/L
2	Hg	Standard 0.25: 0.25 µg/L
3	Hg	Standard 0.5: 0.5 µg/L
4	Hg	Standard 1.0: 1.0 µg/L
5	Hg	Standard 3.0: 3.0 µg/L
	Hg	Standard 3.0: 3.0000 µg/L
	Hg	CCV: 3.0000 µg/L
6	Hg	Standard 5.0: 5.0 µg/L
7	Hg	ICV: 3.0000 µg/L
9	Hg	Sample: bf62707-blk1
10	Hg	Sample: bf62707-bs1
11	Hg	Sample: bf62707-bsd1
12	Hg	Sample: 0606383-15
13	Hg	Sample: 0606387-02
14	Hg	Sample: 0606407-01 dis
15	Hg	Sample: 0606407-02 dis
16	Hg	Sample: 0606407-03 dis
17	Hg	Sample: 0606407-01
18	Hg	Sample: 0606407-02
19	Hg	Sample: 0606407-03
20	Hg	Sample: 0606426-01
21	Hg	Sample: bf62707-dup1
22	Hg	Sample: bf62707-ms1
23	Hg	Sample: bf62707-msd1
24	Hg	Sample: bf62707-sd1 x5
25	Hg	Sample: bf62707-pds1
26	Hg	Sample: bf62708-blk1
27	Hg	Sample: bf62708-bs1
28	Hg	Sample: bf62708-bsd1
29	Hg	Sample: 0606387-01 tclp
30	Hg	Sample: bf62708-dup1
31	Hg	Sample: bf62708-ms1
32	Hg	Sample: bf62708-msd1
33	Hg	Sample: bf62708-sd1 x5
34	Hg	Sample: bf62708-pds1
35	Hg	Sample: 0606410-01 tclp
36	Hg	Sample: bf62716-blk1
37	Hg	Sample: bf62716-bs1
38	Hg	Sample: bf62716-bsd1
39	Hg	Sample: 0606425-01 dis
40	Hg	Sample: 0606425-02 dis
41	Hg	Sample: 0606425-01
42	Hg	Sample: 0606425-02
43	Hg	Sample: 0606429-01 dis
44	Hg	Sample: 0606429-02 dis
45	Hg	Sample: 0606429-03 dis
46	Hg	Sample: 0606429-04 dis
47	Hg	Sample: 0606429-05 dis
48	Hg	Sample: bf62716-dup1
49	Hg	Sample: bf62716-ms1
50	Hg	Sample: bf62716-msd1
51	Hg	Sample: bf62716-sd1 x5
52	Hg	Sample: bf62716-pds1
53	Hg	Sample: 0606430-01 dis

54	Hg	Sample: 0606430-02 dis
55	Hg	Sample: 0606430-01
56	Hg	Sample: 0606430-02
57	Hg	Sample: bf62716-dup2
58	Hg	Sample: bf62716-ms2
59	Hg	Sample: bf62716-msd2
60	Hg	Sample: bf62716-sd2 x5
61	Hg	Sample: bf62716-pds2

Sample ID: Standard 0.25

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0063	0.0528	0.0095	10:54:36	No
2			0.0062	0.0512	0.0094	10:55:06	No
Mean:			0.0062				
SD :			0.0001				
%RSD:			1.5243				

[Hg] Standard number 1 applied. [0.25]
Correlation Coefficient: 1.00000 Slope: 0.02496

Element: Hg Seq. No.: 5 AS Loc.: 3 Date: 06/28/2006
Sample ID: Standard 0.5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0194	0.1200	0.0227	10:56:30	No
2			0.0153	0.0985	0.0185	10:56:59	No
Mean:			0.0174				
SD :			0.0029				
%RSD:			16.7707				

[Hg] Standard number 2 applied. [0.50]
Correlation Coefficient: 0.92721 Slope: 0.03325

Element: Hg Seq. No.: 6 AS Loc.: 4 Date: 06/28/2006
Sample ID: Standard 1.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0313	0.1842	0.0345	10:58:25	No
2			0.0282	0.1650	0.0315	10:58:54	No
Mean:			0.0298				
SD :			0.0022				
%RSD:			7.2914				

[Hg] Standard number 3 applied. [1.00]
Correlation Coefficient: 0.98719 Slope: 0.03066

Element: Hg Seq. No.: 7 AS Loc.: 5 Date: 06/28/2006
Sample ID: Standard 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0800	0.4382	0.0832	11:00:21	No
2			0.0770	0.4216	0.0802	11:00:50	No
Mean:			0.0785				
SD :			0.0021				
%RSD:			2.6907				

Method Name: Hg_5ppb Aq
Method Description: Hg_5ppb Aq
Element: Hg

Date: 06/28/2006
Technique:FI-MHS
Calibration Type:
Hg, Zero Intercept: Linear
Wavelength: 253.7 nm
Sample Info Name: 062806A.SIF Results Data Set Name: 062806ad

Element: Hg Seq. No.: 8 AS Loc.: 1 Date: 06/28/2006
Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0033	0.0189	0.0033	11:03:27	No
2			0.0031	0.0173	0.0031	11:03:57	No
Mean:			0.0032				
SD :			0.0001				
%RSD:			3.0236				

Auto-zero performed.

Element: Hg Seq. No.: 9 AS Loc.: 2 Date: 06/28/2006
Sample ID: Standard 0.25

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0062	0.0517	0.0094	11:05:21	No
2			0.0062	0.0506	0.0094	11:05:50	No
Mean:			0.0062				
SD :			0.0000				
%RSD:			0.4012				

[Hg] Standard number 1 applied. [0.25]
Correlation Coefficient: 1.00000 Slope: 0.02469

Element: Hg Seq. No.: 10 AS Loc.: 3 Date: 06/28/2006
Sample ID: Standard 0.5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0119	0.0808	0.0151	11:07:15	No
2			0.0114	0.0767	0.0146	11:07:44	No
Mean:			0.0116				
SD :			0.0003				
%RSD:			2.7072				

[Hg] Standard number 2 applied. [0.50]
Correlation Coefficient: 0.99710 Slope: 0.02357

Element: Hg Seq. No.: 11 AS Loc.: 4 Date: 06/28/2006
Sample ID: Standard 1.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0235	0.1410	0.0267	11:09:11	No
2			0.0233	0.1393	0.0265	11:09:39	No
Mean:			0.0234				
SD :			0.0002				
%RSD:			0.6546				

[Hg] Standard number 3 applied. [1.00]
Correlation Coefficient: 0.99967 Slope: 0.02345

Element: Hg Seq. No.: 12 AS Loc.: 5 Date: 06/28/2006
Sample ID: Standard 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0663	0.3618	0.0695	11:11:06	No
2			0.0668	0.3659	0.0700	11:11:35	No

Mean: 0.0666
SD : 0.0004
%RSD: 0.5836
[Hg] Standard number 4 applied. [3.00]
Correlation Coefficient: 0.99959 Slope: 0.02235

Element: Hg Seq. No.: 13 AS Loc.: 6 Date: 06/28/2006
Sample ID: Standard 5.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1158	0.6212	0.1190	11:13:03	No
2			0.1145	0.6062	0.1177	11:13:33	No
Mean:			0.1151				
SD :			0.0009				
%RSD:			0.7573				

[Hg] Standard number 5 applied. [5.00]
Correlation Coefficient: 0.99969 Slope: 0.02284

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0032	--	----	----	----
Standard 0.25	0.0062	0.25	0.27	0.000	0.4
Standard 0.5	0.0116	0.50	0.51	0.000	2.7
Standard 1.0	0.0234	1.00	1.03	0.000	0.7
Standard 3.0	0.0666	3.00	2.91	0.000	0.6
Standard 5.0	0.1151	5.00	5.04	0.001	0.8
Correlation Coefficient:	0.99969	Slope:	0.02284	----	

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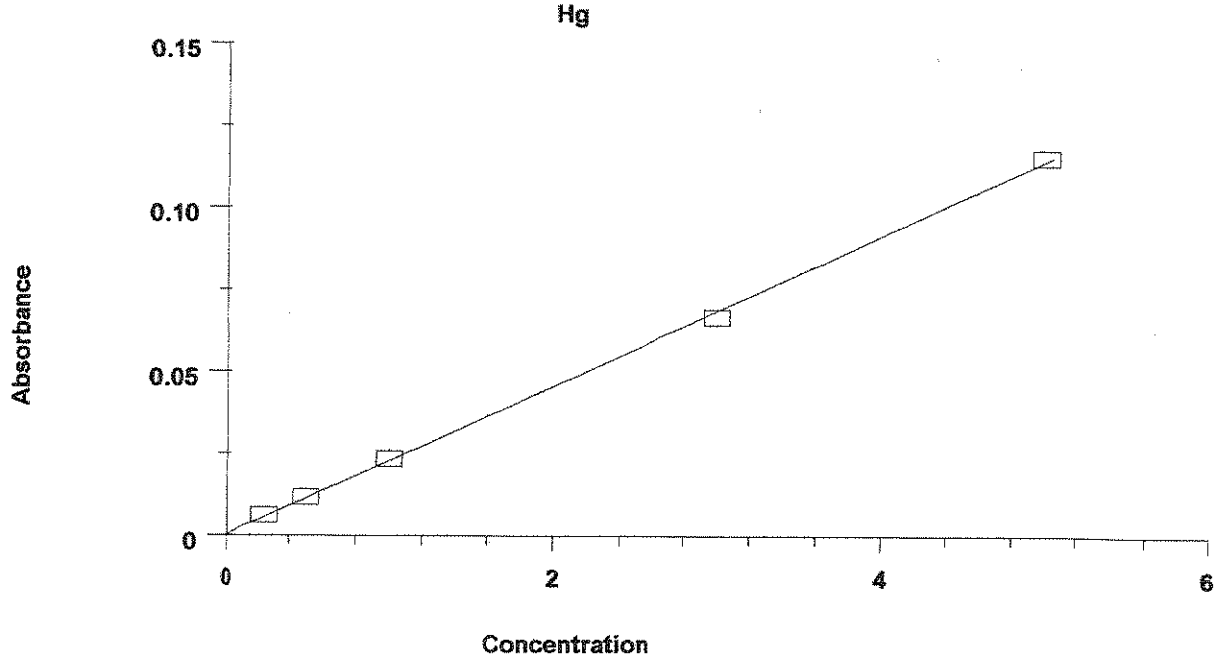
cal. good



Element: Hg Seq. No.: 14 AS Loc.: 5 Date: 06/28/2006
Sample ID: Standard 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.93	2.93	0.0669	0.3713	0.0701	11:15:02	No
2	2.92	2.92	0.0667	0.3663	0.0699	11:15:32	No
Mean:	2.92	2.92	0.0668				
SD :	0.007	0.007	0.0001				
%RSD:	0.2	0.2	0.2225				

QC value within specified limits. /

Element: Hg Seq. No.: 15 AS Loc.: 7 Date: 06/28/2006
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.06	3.06	0.0699	0.3804	0.0731	11:16:59	No
2	3.11	3.11	0.0711	0.3852	0.0743	11:17:28	No
Mean:	3.09	3.09	0.0705				
SD :	0.037	0.037	0.0008				
%RSD:	1.2	1.2	1.2063				

QC value within specified limits. /

Element: Hg Seq. No.: 16 AS Loc.: 1 Date: 06/28/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0001	0.0190	0.0033	11:18:54	No
2	0.00	0.00	-0.0001	0.0175	0.0031	11:19:23	No
Mean:	0.00	0.00	0.0000				
SD :	0.005	0.005	0.0001				
%RSD:	701.7	701.7	701.6906				

QC value within specified limits. /

Element: Hg Seq. No.: 17 AS Loc.: 9 Date: 06/28/2006
Sample ID: bf62707-blk1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0006	0.0153	0.0026	11:20:46	No
2	-0.03	-0.03	-0.0006	0.0148	0.0026	11:21:15	No
Mean:	-0.03	-0.03	-0.0006				
SD :	0.001	0.001	0.0000				
%RSD:	3.6	3.6	3.6267				

ND

Element: Hg Seq. No.: 18 AS Loc.: 10 Date: 06/28/2006
Sample ID: bf62707-bs1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.82	2.82	0.0644	0.3551	0.0676	11:22:38	No
2	2.87	2.87	0.0656	0.3633	0.0688	11:23:08	No
Mean:	2.85	2.85	0.0650				
SD :	0.039	0.039	0.0009				
%RSD:	1.4	1.4	1.3765				

95%

Element: Hg Seq. No.: 19 AS Loc.: 11 Date: 06/28/2006
Sample ID: bf62707-bsd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.81	2.81	0.0642	0.3584	0.0674	11:24:31	No
2	2.74	2.74	0.0627	0.3453	0.0659	11:25:00	No
Mean:	2.78	2.78	0.0634				
SD :	0.047	0.047	0.0011				
%RSD:	1.7	1.7	1.6843				

93%

$\frac{2.85-2.78}{2.815} \times 100 = 2\%$

Element: Hg Seq. No.: 20 AS Loc.: 12 Date: 06/28/2006
Sample ID: 0606383-15

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.03	-0.03	-0.0007	0.0143	0.0025	11:26:25	No
2	-0.05	-0.05	-0.0011	0.0097	0.0021	11:26:54	No
Mean:	-0.04	-0.04	-0.0009				
SD :	0.013	0.013	0.0003				
%RSD:	33.4	33.4	33.4309				

ND

Element: Hg Seq. No.: 21 AS Loc.: 13 Date: 06/28/2006
Sample ID: 0606387-02

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0176	0.0030	11:28:20	No
2	-0.02	-0.02	-0.0004	0.0156	0.0028	11:28:49	No
Mean:	-0.01	-0.01	-0.0003				
SD :	0.005	0.005	0.0001				
%RSD:	33.6	33.6	33.5714				

ND

Element: Hg Seq. No.: 22 AS Loc.: 14 Date: 06/28/2006
Sample ID: 0606407-01 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.03	-0.03	-0.0008	0.0135	0.0024	11:30:16	No
2	-0.03	-0.03	-0.0008	0.0133	0.0024	11:30:46	No
Mean:	-0.03	-0.03	-0.0008				
SD :	0.001	0.001	0.0000				
%RSD:	1.5	1.5	1.5025				

ND

Element: Hg Seq. No.: 23 AS Loc.: 15 Date: 06/28/2006
Sample ID: 0606407-02 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0008	0.0128	0.0024	11:32:13	No
2	-0.03	-0.03	-0.0007	0.0143	0.0025	11:32:43	No
Mean:	-0.03	-0.03	-0.0008				
SD :	0.004	0.004	0.0001				
%RSD:	10.9	10.9	10.8741				

ND

Element: Hg Seq. No.: 24 AS Loc.: 16 Date: 06/28/2006
Sample ID: 0606407-03 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.03	-0.03	-0.0006	0.0146	0.0026	11:34:11	No
2	-0.03	-0.03	-0.0007	0.0129	0.0025	11:34:40	No
Mean:	-0.03	-0.03	-0.0007				
SD :	0.004	0.004	0.0001				
%RSD:	15.0	15.0	15.0234				

ND

Element: Hg Seq. No.: 25 AS Loc.: 17 Date: 06/28/2006
Sample ID: 0606407-01

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0005	0.0153	0.0027	11:36:05	No
2	-0.03	-0.03	-0.0007	0.0133	0.0025	11:36:34	No
Mean:	-0.03	-0.03	-0.0006				
SD :	0.007	0.007	0.0002				
%RSD:	24.5	24.5	24.4512				

ND

Element: Hg Seq. No.: 26 AS Loc.: 18 Date: 06/28/2006
Sample ID: 0606407-02

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0008	0.0130	0.0024	11:37:56	No
2	-0.04	-0.04	-0.0009	0.0137	0.0024	11:38:25	No
Mean:	-0.04	-0.04	-0.0008				
SD :	0.000	0.000	0.0000				
%RSD:	1.3	1.3	1.3139				

ND

Element: Hg Seq. No.: 27 AS Loc.: 5 Date: 06/28/2006
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.90	2.90	0.0662	0.3677	0.0694	11:39:49	No
2	2.92	2.92	0.0666	0.3652	0.0699	11:40:18	No
Mean:	2.91	2.91	0.0664				
SD :	0.013	0.013	0.0003				
%RSD:	0.5	0.5	0.4548				

QC value within specified limits. ✓

Element: Hg Seq. No.: 28 AS Loc.: 1 Date: 06/28/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0153	0.0029	11:41:43	No
2	-0.01	-0.01	-0.0002	0.0172	0.0030	11:42:12	No
Mean:	-0.01	-0.01	-0.0002				
SD :	0.004	0.004	0.0001				
%RSD:	42.3	42.3	42.3401				

QC value within specified limits. ✓

Element: Hg Seq. No.: 29 AS Loc.: 19 Date: 06/28/2006
Sample ID: 0606407-03

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak

#	µg/L	µg/L	Signal	Area	Height		Stored
1	-0.04	-0.04	-0.0008	0.0135	0.0024	11:43:34	No
2	-0.04	-0.04	-0.0008	0.0131	0.0024	11:44:03	No
Mean:	-0.04	-0.04	-0.0008				
SD :	0.001	0.001	0.0000				
%RSD:	2.9	2.9	2.8919				

ND

Element: Hg Seq. No.: 30 AS Loc.: 20 Date: 06/28/2006
Sample ID: 0606426-01

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0004	0.0164	0.0028	11:45:26	No
2	-0.02	-0.02	-0.0005	0.0150	0.0027	11:45:55	No
Mean:	-0.02	-0.02	-0.0005				
SD :	0.003	0.003	0.0001				
%RSD:	16.7	16.7	16.6741				

ND

Element: Hg Seq. No.: 31 AS Loc.: 21 Date: 06/28/2006
Sample ID: bf62707-dup1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.03	-0.03	-0.0007	0.0147	0.0025	11:47:18	No
2	-0.04	-0.04	-0.0008	0.0133	0.0024	11:47:48	No
Mean:	-0.03	-0.03	-0.0007				
SD :	0.004	0.004	0.0001				
%RSD:	13.7	13.7	13.7024				

ND

Element: Hg Seq. No.: 32 AS Loc.: 22 Date: 06/28/2006
Sample ID: bf62707-ms1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.84	2.84	0.0648	0.3683	0.0680	11:49:11	No
2	2.85	2.85	0.0651	0.3689	0.0683	11:49:41	No
Mean:	2.84	2.84	0.0650				
SD :	0.009	0.009	0.0002				
%RSD:	0.3	0.3	0.3031				

95%

Element: Hg Seq. No.: 33 AS Loc.: 23 Date: 06/28/2006
Sample ID: bf62707-msd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.81	2.81	0.0641	0.3637	0.0673	11:51:05	No
2	2.82	2.82	0.0645	0.3636	0.0677	11:51:34	No
Mean:	2.82	2.82	0.0643				
SD :	0.010	0.010	0.0002				
%RSD:	0.4	0.4	0.3655				

94%

$\frac{2.84 - 2.82}{2.83} \cdot 100 = 1\%$

Element: Hg Seq. No.: 34 AS Loc.: 24 Date: 06/28/2006
Sample ID: bf62707-sd1 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.11	-0.11	-0.0026	0.0029	0.0006	11:53:00	No
2	-0.11	-0.11	-0.0026	0.0030	0.0006	11:53:29	No

Mean:	-0.11	-0.11	-0.0026
SD :	0.001	0.001	0.0000
%RSD:	0.6	0.6	0.6435

ND

Element: Hg Seq. No.: 35 AS Loc.: 25 Date: 06/28/2006
Sample ID: bf62707-pds1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.93	2.93	0.0669	0.3746	0.0701	11:54:54	No
2	2.92	2.92	0.0667	0.3724	0.0699	11:55:24	No
Mean:	2.92	2.92	0.0668				
SD :	0.007	0.007	0.0002				
%RSD:	0.2	0.2	0.2316				

97%

Element: Hg Seq. No.: 36 AS Loc.: 26 Date: 06/28/2006
Sample ID: bf62708-blk1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0005	0.0153	0.0027	11:56:48	No
2	-0.02	-0.02	-0.0005	0.0153	0.0027	11:57:18	No
Mean:	-0.02	-0.02	-0.0005				
SD :	0.001	0.001	0.0000				
%RSD:	2.7	2.7	2.6627				

ND

Element: Hg Seq. No.: 37 AS Loc.: 27 Date: 06/28/2006
Sample ID: bf62708-bs1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.92	2.92	0.0666	0.3683	0.0698	11:58:44	No
2	2.89	2.89	0.0660	0.3633	0.0693	11:59:14	No
Mean:	2.90	2.90	0.0663				
SD :	0.017	0.017	0.0004				
%RSD:	0.6	0.6	0.5835				

97%

Element: Hg Seq. No.: 38 AS Loc.: 28 Date: 06/28/2006
Sample ID: bf62708-bsd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.90	2.90	0.0663	0.3721	0.0695	12:00:41	No
2	2.90	2.90	0.0663	0.3688	0.0695	12:01:11	No
Mean:	2.90	2.90	0.0663				
SD :	0.001	0.001	0.0000				
%RSD:							

97%

$\frac{2.90 - 2.90}{2.90} \cdot 100 = 0\%$

Element: Hg Seq. No.: 39 AS Loc.: 5 Date: 06/28/2006
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.93	2.93	0.0669	0.3694	0.0701	12:02:37	No
2	2.93	2.93	0.0670	0.3684	0.0702	12:03:06	No
Mean:	2.93	2.93	0.0670				
SD :	0.001	0.001	0.0000				
%RSD:							

QC value within specified limits. ✓

Element: Hg Seq. No.: 40 AS Loc.: 1 Date: 06/28/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0004	0.0159	0.0028	12:04:30	No
2	-0.02	-0.02	-0.0005	0.0145	0.0027	12:04:59	No
Mean:	0.02	0.02	0.0004				
SD :	0.005	0.005	0.0001				
%RSD:	23.9	23.9	23.8789				

QC value within specified limits. ✓

Element: Hg Seq. No.: 41 AS Loc.: 29 Date: 06/28/2006
Sample ID: 0606387-01 tclp

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0004	0.0164	0.0028	12:06:24	No
2	-0.02	-0.02	-0.0005	0.0155	0.0027	12:06:53	No
Mean:	0.02	0.02	0.0005				
SD :	0.002	0.002	0.0000				
%RSD:	10.7	10.7	10.6996				

ND

Element: Hg Seq. No.: 42 AS Loc.: 30 Date: 06/28/2006
Sample ID: bf62708-dup1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0009	0.0135	0.0023	12:08:21	No
2	-0.04	-0.04	-0.0009	0.0125	0.0023	12:08:50	No
Mean:	0.04	0.04	0.0009				
SD :	0.002	0.002	0.0000				
%RSD:	5.4	5.4	5.4063				

ND

Element: Hg Seq. No.: 43 AS Loc.: 31 Date: 06/28/2006
Sample ID: bf62708-ms1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.89	2.89	0.0659	0.3670	0.0691	12:10:17	No
2	2.86	2.86	0.0652	0.3614	0.0684	12:10:46	No
Mean:	2.87	2.87	0.0656				
SD :	0.020	0.020	0.0005				
%RSD:	0.7	0.7	0.6918				

96%

Element: Hg Seq. No.: 44 AS Loc.: 32 Date: 06/28/2006
Sample ID: bf62708-msd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.89	2.89	0.0659	0.3710	0.0691	12:12:10	No
2	2.90	2.90	0.0661	0.3698	0.0693	12:12:40	No
Mean:	2.89	2.89	0.0660				
SD :	0.007	0.007	0.0002				
%RSD:	0.2	0.2	0.2316				

96%

$\frac{2.89 - 2.87}{2.88} \cdot 100 = 1\%$

Element: Hg Seq. No.: 45 AS Loc.: 33 Date: 06/28/2006
Sample ID: bf62708-sdl x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.11	-0.11	-0.0024	0.0050	0.0008	12:14:01	No
2	-0.11	-0.11	-0.0024	0.0042	0.0008	12:14:31	No
Mean:	0.11	0.11	0.0024				
SD :	0.000	0.000	0.0000				
%RSD:	0.1	0.1	0.1183				

ND

Element: Hg Seq. No.: 46 AS Loc.: 34 Date: 06/28/2006
Sample ID: bf62708-pdsl

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.02	3.02	0.0690	0.3799	0.0722	12:15:52	No
2	2.97	2.97	0.0678	0.3717	0.0710	12:16:21	No
Mean:	3.00	3.00	0.0684				
SD :	0.038	0.038	0.0009				
%RSD:	1.3	1.3	1.2723				

100%

Element: Hg Seq. No.: 47 AS Loc.: 35 Date: 06/28/2006
Sample ID: 0606410-01 tclp

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0187	0.0029	12:17:43	No
2	-0.02	-0.02	-0.0006	0.0152	0.0026	12:18:12	No
Mean:	0.02	0.02	0.0004				
SD :	0.007	0.007	0.0002				
%RSD:	38.0	38.0	37.9507				

ND

Element: Hg Seq. No.: 48 AS Loc.: 36 Date: 06/28/2006
Sample ID: bf62716-blk1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0003	0.0210	0.0035	12:19:35	No
2	0.01	0.01	0.0002	0.0191	0.0034	12:20:04	No
Mean:	0.01	0.01	0.0002				
SD :	0.004	0.004	0.0001				
%RSD:	35.8	35.8	35.8121				

ND

Element: Hg Seq. No.: 49 AS Loc.: 37 Date: 06/28/2006
Sample ID: bf62716-bs1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.91	2.91	0.0664	0.3691	0.0696	12:21:27	No
2	2.85	2.85	0.0652	0.3585	0.0684	12:21:56	No
Mean:	2.88	2.88	0.0658				
SD :	0.037	0.037	0.0008				
%RSD:	1.3	1.3	1.2828				

96%

Element: Hg Seq. No.: 50 AS Loc.: 38 Date: 06/28/2006
Sample ID: bf62716-bsd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.77	2.77	0.0632	0.3539	0.0664	12:23:20	No
2	2.77	2.77	0.0632	0.3529	0.0664	12:23:49	No
Mean:	2.77	2.77	0.0632				
SD :	0.001	0.001	0.0000				
%RSD:							

92% $\frac{2.88-2.77}{2.825} \cdot 100 = 4\%$

Element: Hg Seq. No.: 51 AS Loc.: 5 Date: 06/28/2006
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.86	2.86	0.0653	0.3590	0.0685	12:25:12	No
2	2.93	2.93	0.0670	0.3662	0.0702	12:25:41	No
Mean:	2.90	2.90	0.0662				
SD :	0.052	0.052	0.0012				
%RSD:	1.8	1.8	1.7892				

QC value within specified limits. ✓

Element: Hg Seq. No.: 52 AS Loc.: 1 Date: 06/28/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0171	0.0029	12:27:06	No
2	-0.01	-0.01	-0.0003	0.0166	0.0029	12:27:35	No
Mean:	0.01	0.01	0.0003				
SD :	0.001	0.001	0.0000				
%RSD:	8.2	8.2	8.1544				

QC value within specified limits. ✓

Element: Hg Seq. No.: 53 AS Loc.: 39 Date: 06/28/2006
Sample ID: 0606425-01 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.04	0.04	0.0008	0.0256	0.0040	12:28:58	No
2	0.03	0.03	0.0008	0.0247	0.0040	12:29:27	No
Mean:	0.04	0.04	0.0008				
SD :	0.002	0.002	0.0000				
%RSD:	5.2	5.2	5.2209				

ND

Element: Hg Seq. No.: 54 AS Loc.: 40 Date: 06/28/2006
Sample ID: 0606425-02 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0167	0.0029	12:30:51	No
2	-0.02	-0.02	-0.0004	0.0154	0.0028	12:31:20	No
Mean:	0.01	0.01	0.0003				
SD :	0.003	0.003	0.0001				
%RSD:	18.6	18.6	18.5881				

ND

Element: Hg Seq. No.: 55 AS Loc.: 41 Date: 06/28/2006
Sample ID: 0606425-01

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.04	0.04	0.0010	0.0253	0.0042	12:32:45	No
2	0.04	0.04	0.0008	0.0235	0.0040	12:33:14	No
Mean:	0.04	0.04	0.0009				
SD :	0.004	0.004	0.0001				
%RSD:	10.9	10.9	10.8716				

ND

Element: Hg Seq. No.: 56 AS Loc.: 42 Date: 06/28/2006
Sample ID: 0606425-02

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.22	1.22	0.0278	0.1700	0.0310	12:34:38	No
2	1.21	1.21	0.0275	0.1668	0.0308	12:35:08	No
Mean:	1.21	1.21	0.0277				
SD :	0.009	0.009	0.0002				
%RSD:	0.7	0.7	0.7251				

Element: Hg Seq. No.: 57 AS Loc.: 43 Date: 06/28/2006
Sample ID: 0606429-01 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0008	0.0142	0.0024	12:36:34	No
2	-0.04	-0.04	-0.0009	0.0120	0.0023	12:37:03	No
Mean:	-0.04	-0.04	-0.0009				
SD :	0.004	0.004	0.0001				
%RSD:	11.4	11.4	11.3820				

ND

Element: Hg Seq. No.: 58 AS Loc.: 44 Date: 06/28/2006
Sample ID: 0606429-02 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0004	0.0168	0.0028	12:38:30	No
2	-0.03	-0.03	-0.0006	0.0152	0.0026	12:39:00	No
Mean:	-0.02	-0.02	-0.0005				
SD :	0.007	0.007	0.0002				
%RSD:	30.7	30.7	30.7401				

ND

Element: Hg Seq. No.: 59 AS Loc.: 45 Date: 06/28/2006
Sample ID: 0606429-03 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0010	0.0129	0.0022	12:40:27	No
2	-0.04	-0.04	-0.0010	0.0127	0.0022	12:40:56	No
Mean:	-0.04	-0.04	-0.0010				
SD :	0.001	0.001	0.0000				
%RSD:	3.0	3.0	2.9722				

ND

Element: Hg Seq. No.: 60 AS Loc.: 46 Date: 06/28/2006
Sample ID: 0606429-04 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0008	0.0130	0.0024	12:42:24	No

2	-0.04	-0.04	-0.0009	0.0124	0.0023	12:42:54	No
Mean:	-0.04	-0.04	-0.0009				
SD :	0.002	0.002	0.0001				
%RSD:	6.5	6.5	6.4750				

ND

Element: Hg Seq. No.: 61 AS Loc.: 47 Date: 06/28/2006
Sample ID: 0606429-05 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0009	0.0122	0.0023	12:44:21	No
2	-0.04	-0.04	-0.0010	0.0118	0.0022	12:44:50	No
Mean:	-0.04	-0.04	-0.0010				
SD :	0.003	0.003	0.0001				
%RSD:	7.5	7.5	7.4975				

ND

Element: Hg Seq. No.: 62 AS Loc.: 48 Date: 06/28/2006
Sample ID: bf62716-dup1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.05	-0.05	-0.0011	0.0120	0.0021	12:46:14	No
2	-0.05	-0.05	-0.0011	0.0118	0.0021	12:46:43	No
Mean:	-0.05	-0.05	-0.0011				
SD :	0.001	0.001	0.0000				
%RSD:	2.6	2.6	2.5697				

ND

Element: Hg Seq. No.: 63 AS Loc.: 5 Date: 06/28/2006
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.89	2.89	0.0659	0.3645	0.0691	12:48:06	No
2	2.91	2.91	0.0664	0.3658	0.0696	12:48:36	No
Mean:	2.90	2.90	0.0662				
SD :	0.016	0.016	0.0004				
%RSD:	0.6	0.6	0.5524				

QC value within specified limits. ✓

Element: Hg Seq. No.: 64 AS Loc.: 1 Date: 06/28/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0006	0.0144	0.0026	12:50:00	No
2	-0.03	-0.03	-0.0007	0.0132	0.0025	12:50:29	No
Mean:	-0.03	-0.03	-0.0006				
SD :	0.005	0.005	0.0001				
%RSD:	16.2	16.2	16.2451				

QC value within specified limits. ✓

Element: Hg Seq. No.: 65 AS Loc.: 49 Date: 06/28/2006
Sample ID: bf62716-ms1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.96	2.96	0.0677	0.3769	0.0709	12:51:50	No
2	2.97	2.97	0.0679	0.3757	0.0711	12:52:20	No

Mean:	2.97	2.97	0.0678
SD :	0.006	0.006	0.0001
%RSD:	0.2	0.2	0.2170

99%

Element: Hg Seq. No.: 66 AS Loc.: 50 Date: 06/28/2006
Sample ID: bf62716-msd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.98	2.98	0.0682	0.3726	0.0714	12:53:41	No
2	3.00	3.00	0.0686	0.3769	0.0718	12:54:10	No
Mean:	2.99	2.99	0.0684				
SD :	0.013	0.013	0.0003				
%RSD:	0.4	0.4	0.4206				

100% $\frac{2.99-2.97}{2.98} \cdot 100 = 1\%$

Element: Hg Seq. No.: 67 AS Loc.: 51 Date: 06/28/2006
Sample ID: bf62716-sd1 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.12	-0.12	-0.0027	0.0023	0.0005	12:55:31	No
2	-0.11	-0.11	-0.0025	0.0035	0.0007	12:56:00	No
Mean:	-0.11	-0.11	-0.0026				
SD :	0.004	0.004	0.0001				
%RSD:	3.6	3.6	3.5706				

ND

Element: Hg Seq. No.: 68 AS Loc.: 52 Date: 06/28/2006
Sample ID: bf62716-pds1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.10	3.10	0.0708	0.3888	0.0740	12:57:23	No
2	3.11	3.11	0.0710	0.3877	0.0742	12:57:53	No
Mean:	3.11	3.11	0.0709				
SD :	0.006	0.006	0.0001				
%RSD:	0.2	0.2	0.1972				

104%

Element: Hg Seq. No.: 69 AS Loc.: 53 Date: 06/28/2006
Sample ID: 0606430-01 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0008	0.0132	0.0024	12:59:16	No
2	-0.04	-0.04	-0.0009	0.0129	0.0023	12:59:46	No
Mean:	-0.04	-0.04	-0.0008				
SD :	0.002	0.002	0.0000				
%RSD:	4.9	4.9	4.8728				

ND

Element: Hg Seq. No.: 70 AS Loc.: 54 Date: 06/28/2006
Sample ID: 0606430-02 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.06	-0.06	-0.0014	0.0104	0.0018	01:01:08	No
2	-0.06	-0.06	-0.0014	0.0095	0.0018	01:01:38	No
Mean:	-0.06	-0.06	-0.0014				
SD :	0.001	0.001	0.0000				
%RSD:	2.2	2.2	2.2227				

ND

Element: Hg Seq. No.: 71 AS Loc.: 55 Date: 06/28/2006
Sample ID: 0606430-01

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.06	-0.06	-0.0014	0.0098	0.0018	01:03:02	No
2	-0.06	-0.06	-0.0014	0.0094	0.0018	01:03:31	No
Mean:	-0.06	-0.06	-0.0014				
SD :	0.001	0.001	0.0000				
%RSD:	1.1	1.1	1.1308				

ND

Element: Hg Seq. No.: 72 AS Loc.: 56 Date: 06/28/2006
Sample ID: 0606430-02

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.06	-0.06	-0.0014	0.0097	0.0018	01:04:55	No
2	-0.06	-0.06	-0.0014	0.0100	0.0018	01:05:24	No
Mean:	-0.06	-0.06	-0.0014				
SD :	0.000	0.000	0.0000				
%RSD:	0.7	0.7	0.6691				

ND

Element: Hg Seq. No.: 73 AS Loc.: 57 Date: 06/28/2006
Sample ID: bf62716-dup2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.06	-0.06	-0.0014	0.0097	0.0018	01:06:49	No
2	-0.06	-0.06	-0.0014	0.0091	0.0018	01:07:18	No
Mean:	-0.06	-0.06	-0.0014				
SD :	0.001	0.001	0.0000				
%RSD:	1.8	1.8	1.7598				

ND

Element: Hg Seq. No.: 74 AS Loc.: 58 Date: 06/28/2006
Sample ID: bf62716-ms2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.89	2.89	0.0660	0.3665	0.0692	01:08:43	No
2	2.92	2.92	0.0667	0.3693	0.0699	01:09:12	No
Mean:	2.91	2.91	0.0664				
SD :	0.021	0.021	0.0005				
%RSD:	0.7	0.7	0.7234				

97%

Element: Hg Seq. No.: 75 AS Loc.: 5 Date: 06/28/2006
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.90	2.90	0.0662	0.3619	0.0694	01:10:38	No
2	2.88	2.88	0.0657	0.3581	0.0689	01:11:07	No
Mean:	2.89	2.89	0.0659				
SD :	0.017	0.017	0.0004				
%RSD:	0.6	0.6	0.5922				

QC value within specified limits. ✓

Element: Hg Seq. No.: 76 AS Loc.: 1 Date: 06/28/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.05	-0.05	-0.0010	0.0125	0.0022	01:12:31	No
2	-0.05	-0.05	-0.0012	0.0108	0.0020	01:13:00	No
Mean:	-0.05	-0.05	-0.0011				
SD :	0.004	0.004	0.0001				
%RSD:	9.1	9.1	9.0630				

QC value within specified limits. ✓

Element: Hg Seq. No.: 77 AS Loc.: 59 Date: 06/28/2006
Sample ID: bf62716-msd2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.03	3.03	0.0692	0.3778	0.0724	01:14:25	No
2	3.08	3.08	0.0704	0.3822	0.0736	01:14:55	No
Mean:	3.06	3.06	0.0698				
SD :	0.038	0.038	0.0009				
%RSD:	1.2	1.2	1.2493				

102%

$\frac{3.06 - 2.91}{2.985} \cdot 100 = 5\%$

Element: Hg Seq. No.: 78 AS Loc.: 60 Date: 06/28/2006
Sample ID: bf62716-sd2 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.12	-0.12	-0.0028	0.0013	0.0004	01:16:20	No
2	-0.12	-0.12	-0.0027	0.0025	0.0005	01:16:49	No
Mean:	-0.12	-0.12	-0.0028				
SD :	0.004	0.004	0.0001				
%RSD:	3.1	3.1	3.0957				

ND

Element: Hg Seq. No.: 79 AS Loc.: 61 Date: 06/28/2006
Sample ID: bf62716-pds2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.04	3.04	0.0695	0.3832	0.0727	01:18:16	No
2	3.06	3.06	0.0698	0.3817	0.0730	01:18:46	No
Mean:	3.05	3.05	0.0697				
SD :	0.009	0.009	0.0002				
%RSD:	0.3	0.3	0.2797				

102%

Element: Hg Seq. No.: 80 AS Loc.: 5 Date: 06/28/2006
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.91	2.91	0.0664	0.3654	0.0696	01:20:12	No
2	2.91	2.91	0.0665	0.3635	0.0697	01:20:41	No
Mean:	2.91	2.91	0.0664				
SD :	0.003	0.003	0.0001				
%RSD:							

QC value within specified limits. ✓

Element: Hg Seq. No.: 81 AS Loc.: 1 Date: 06/28/2006
Sample ID: ICCB

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak

#	µg/L	µg/L	Signal	Area	Height		Stored
1	-0.06	-0.06	-0.0013	0.0102	0.0019	01:22:06	No
2	-0.07	-0.07	-0.0016	0.0079	0.0016	01:22:36	No
Mean:	-0.06	-0.06	-0.0014				
SD :	0.010	0.010	0.0002				
%RSD:	16.7	16.7	16.6754				

QC value within specified limits. ✓

Metals Logbooks

ESS LABORATORY
METALS PREP LOGBOOK

ANALYST: KAB
DATE: 6/26/06
TIME: 13:30
Batch ID: BF62617

HNO_3 Reagent - AR# : 06050IC
1:1 HCl Reagent- WR#: 060616C
1:1 HNO_3 Reagent- WR#: 060616B
H_2O_2 Reagent- AR#: 06030GB

Hot Plate	Temp (°C)
HB#3	95

Sample ID	matrix	pH	Initial wgt/vol	Final wgt/vol	QC ID/Lot #	QC wgt/vol	Method	Hot Plate Number	Comments
BF62617-BLK1	S	"	"	10ml	"	"	3050	HB#3	
-BS1					6E04037	0.5g			
-BSD1			"		6E04037	0.5g			
-SM1			1.09g		6A11056	"			
06383-01			2.54g		"				
-02			1.88g						
-03			2.10g						
-04			1.81g						
-05			3.02g						
-06			1.75g						
-07			1.83g						
-08			1.78g						
-09			1.82g						
-10			2.55g						
-11			1.88g						
BF62617-DUP1			1.78g		"	"			
-MS1			1.89g		6E04037	0.5g			
-MSD1	S	"	1.84g	10ml	6E04037	0.5g	3050	HB#2	

CONTROL# 30.0014-0603A Page_____

MATRIX KEY: AQ = AQUEOUS, S = SOIL, O = OIL, F = FILTER, D = SLUDGE

ESS LABORATORY

METALS PREP LOGBOOK

ANALYST: KAB

DATE: 6/30/06

TIME: 13:30

Batch ID: BF062617

HNO_3 Reagent - AR# : 060501C

1:1 HCl Reagent- WR#: 060616C

1:1 HNO_3 Reagent- WR#: 060616B

H_2O_2 Reagent- AR#: 060426B

Hot Plate	Temp (°C)
HB#2	95

Sample ID	matrix	pH	Initial wgt/vol	Final wgt/vol	QC ID/Lot #	QC wgt/vol	Method	Hot Plate Number	Comments
06383-12	S	"	1.77g	100ml	"	"	3050	HB#2	
" -13			1.80g						
BF062617-BLK1			1.77g		"	"			
"MS1			1.77g		6E04037	0.5ml			
"MSD1			1.84g		6E04037	0.5ml			
06383-M			1.78g		"	"		"	
06394-08			1.78g						
" -14			1.75g						
06405-01			1.75g						
" -02			1.77g						
" -03			1.86g						
" -04	S	"	1.82g	100ml	"	"	3050	HB#2	

CONTROL# 30.0014-0603A Page_____

MATRIX KEY: AQ = AQUEOUS, S = SOIL, O = OIL, F = FILTER, D = SLUDGE

ESS LABORATORY
METALS PREP LOGBOOK

ANALYST: BF
DATE: 6/24/06
TIME: 1040
Batch ID: BF062403

HNO_3 Reagent - AR#: 060801D
1:1 HCl Reagent- WR#: 060616C
1:1 HNO_3 Reagent- WR#: NA
H_2O_2 Reagent- AR#: NA

Hot Plate	Temp (°C)
HB#1	95°
N	
A	

Sample ID	matrix	pH	Initial wgt/vol	Final wgt/vol	QC ID/Lot #	QC wgt/vol	Method	Hot Plate Number	Comments
BF062403-BLK	AQ	12	50	50	NA	NA	3005	HB#1	060623 Dis Blk
-BS1		12			6E04037	0.25			
-BSD1		12			6E04037	0.25			
-BS2		12			6F24018	2.0			
-BSD2		12			6F24018	2.0			
0606378-01		12			NA	NA			
0606382-01		12							
0606383-15		12							
0606387-02		12							
0606395-01		12							
0606396-01		12							
0606397-01		12							
0606403-01		12							
0606407-01		12							
-02		12							
BF062403-DB1		12			NA	NA			
-MS1		12			6E04037	0.25			
-MS3	AQ	12	50	50	6F24018	2.0	3005	HB#1	

CONTROL# 30.0014-0603A Page_____

MATRIX KEY: AQ = AQUEOUS, S = SOIL, O = OIL, F = FILTER, D = SLUDGE

ESS LABORATORY

METALS PREP LOGBOOK

ANALYST: JB
DATE: 6/24/06
TIME: 1640
Batch ID: BFG2403

HNO_3 Reagent - AR#: 060816D
1:1 HCl Reagent- WR#: 060616C
1:1 HNO_3 Reagent- WR#: NA
H_2O_2 Reagent- AR#: NA

Hot Plate	Temp (°C)
HB#1	95

Sample ID	matrix	pH	Initial wgt/vol	Final wgt/vol	QC ID/Lot #	QC wgt/vol	Method	Hot Plate Number	Comments
0606407-03	AQ	12	50	50	NA	NA	3005	HB#1	
-01dup		12							
-02dup		12							
-03dup		12	50						
0606410-01		~12	5.0						
BFG2403-dup2		~12	5.0		NA	NA			
MS2	AQ	~12	5.0	50	6EC04857	0.25	3005	HB#1	
355									

CONTROL# 30.0014-0603A Page_____

MATRIX KEY: AQ = AQUEOUS, S = SOIL, O = OIL, F = FILTER, D = SLUDGE

ESS Laboratory
Mercury Soils Prep Logbook

Batch ID: BF62618
Analyst: MB
Date: 6/26/06

Reagent IDs:
Aqua Regia WR0606?6A
$KMnO_4$ WR0606 22C

Cal std ID*: 6F20030
$NaCl-NH_2OH*HCl$ WR0605 30B
ICV std ID**: 6F20031

Sample ID	Wgt (g)	Quality Control ID/Lot #	Spike wt/vol	COMMENTS	Final Vol (ml)	Bath #	Temp. (°C)	Time in	Time out
BF62618-BLK1	~	~	~		40	IIB#	95	14:00	14:30
-BS1		6F20031	0.12						
-BSD1		6F20031	0.12						
-SRM1	0.62	6A11056	~						
06383-01	0.73_5	~							
-02	0.60_3								
-03	0.61_5								
-04	0.64_5								
-05	0.83_5								
-06	0.60_5								
-07	0.61_5								
-08	0.63_5								
-09	0.62_5								
-10	0.80_5								
-11	0.60_5								
BF62618-DUP1	0.64_5	~	~						
-MS1	0.63_5	6F20031	0.12						
-MSD1	0.61_5	6F20031	0.12						
06383-12	0.73_5	~	~						
-13	0.62_5								
BF62618-DUP2	0.63_5	~	~						
-MS2	0.61_5	6F20031	0.12						
-MSD2	0.60_5	6F20031	0.12						
06383-14	0.63_5	~	~						
06394-08	0.69_5	~	~		40	IIB#	95	14:00	14:30

* Calibration standards are prepared daily at 0.0, 0.5, 1.0, 3.0, and 5.0 ppb. See SOP for preparation instructions.

**ICV is prepared daily at a concentration of 2.0 ppb. See SOP for preparation instructions.

CONTROL# 30.0011-0601A

ESS Laboratory

Mercury Soils Prep Logbook

Batch ID: BF61268

Analyst: MB

Date: 6/26/06

Reagent IDs:

Aqua Regia WA60626A

$KMnO_4$ WA60531C

Cal std ID*: 6F27030

$NaCl-NH_2OH*HCl$ WA60530B

ICV std ID**: 6F27031

Sample		Quality Control							
ID	Wgt (g)	ID/Lot #	Spike wt/vol	COMMENTS	Final Vol (ml)	Bath #	Temp. (°C)	Time in	Time out
06394-14	0.66g	m	m		40	HB#3	95	14:00	14:30
06405-01	0.61g	|	|		|	|	|	|	|
-02	0.60g	|	|		|	|	|	|	|
-03	0.62g	|	|		|	|	|	|	|
-04	0.62g	m	m		40	HB#3	95	14:00	14:30

* Calibration standards are prepared daily at 0.0, 0.5, 1.0, 3.0, and 5.0 ppb. See SOP for preparation instructions.

**ICV is prepared daily at a concentration of 2.0 ppb. See SOP for preparation instructions.

ESS Laboratory
Mercury Aqueous Prep Logbook

Analyst: EEm

Date: 6/27/06

Batch ID: BF62707

Reagent IDs:

H_2SO_4 ARU601204

HNO_3 WR060521D

$KMnO_4$ WR060602C

$K_2S_2O_8$ WR060519F

$NaCl$-NH_2OH*HCl WR060530B

Cal/Spk Std ID*: BF27023

ICV std ID**: BF27024

Sample ID #	pH	Sample Init Vol (ml)	Cal/ ICV/ Spk Vol (ml)	Comments	Final Vol (ml)	Bath #	Temp (°C)	Time in	Time out
~~BF62707-BLK1~~ ~~BF62703-BLK~~ 6/27/06 EEm	L2	20mL	N/A	060623 dis blk	40mL	HB#3	95°C	1155	1355
-BS1	L2	↓	0.12mL	↓	↓	↓	↓	↓	↓
-BSD1	L2		0.12mL	060623 dis blk					
~~0606383-15~~	L2		N/A						
0606387-02	L2		↓						
0606407-01 dis	L2								
-02 dis	L2								
-03 dis	L2								
-01	L2								
-02	L2								
-03	L2		↓						
0606426-01	L2		N/A						
~~BF62707-dup1~~ ~~BF62703-dup~~ 6/27/06 EEm	L2		N/A						
-ms1	L2	↓	0.12mL		↓	↓	↓	↓	↓
-msD1	L2	20mL	0.12mL		40mL	HB#3	95°C	1155	1355

* Calibration standards are prepared daily at 0.0, 0.5, 1.0, 3.0, and 5.0 ppb. See SOP for preparation instructions.

**ICV is prepared daily at a concentration of 2.0 ppb. See SOP for preparation instructions.

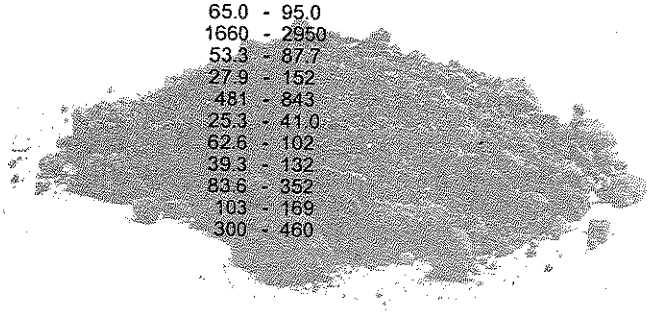
PriorityPollutnT™/CLP Inorganic Soils - Hot Plate Digestions

Lot No. D045540
Revised: 09/12/05

64 110 56

Parameter	Total Concentration[1]	Certified Value[2]	Performance Acceptance Limits™ [3]
Method 3050 HNO_3, H_2O_2, HCl			
TRACE METALS PriorityPollutnT™ (Catalog No. 540)	mg/Kg	mg/Kg	mg/Kg
Aluminum	55200*	7120	4120 - 10100
Antimony	241	86.2	D.L. - 192
Arsenic	171	146	116 - 176
Barium	1030*	351	288 - 414
Beryllium	70.4	62.2	51.0 - 73.4
Boron	132	97.2	54.3 - 140
Cadmium	105	91.9	74.9 - 109
Calcium	10100*	3900	3080 - 4720
Chromium	201	176	138 - 214
Cobalt	65.7	58.5	47.8 - 69.2
Copper	77.7	70.0	57.5 - 82.6
Iron	24400*	13900	6930 - 20800
Lead	86.9	68.1	54.9 - 81.3
Magnesium	3780*	2180	1680 - 2680
Manganese	479	210	168 - 252
Mercury	1.89	1.77	1.21 - 2.34
Molybdenum	33.2	26.5	20.9 - 32.1
Nickel	99.6	84.0	68.5 - 99.5
Potassium	32500*	2440	1700 - 3170
Selenium	83.0	73.0	55.1 - 90.8
Silver	101	93.0	57.0 - 129
Sodium	15200	697	388 - 1010
Strontium	241	35.7	28.5 - 42.9
Thallium	89.6	77.8	58.8 - 96.8
Tin	110	92.2	64.4 - 120
Titanium	3100*	283	112 - 454
Vanadium	195	148	111 - 185
Zinc	461	402	319 - 485

Parameter	Total Concentration[1]	Certified Value[2]	Performance Acceptance Limits™ [3]
Method 3050 HNO_3, H_2O_2			
TRACE METALS PriorityPollutnT™ (Catalog No. 540)	mg/Kg	mg/Kg	mg/Kg
Aluminum	55200*	6280	3300 - 9260
Antimony	241	78.5	D.L. - 216
Arsenic	171	146	112 - 180
Barium	1030*	339	266 - 412
Beryllium	70.4	59.3	45.8 - 72.8
Boron	132	86.5	57.0 - 116
Cadmium	105	92.8	73.9 - 112
Calcium	10100*	3800	2870 - 4730
Chromium	201	172	135 - 209
Cobalt	65.7	54.5	43.8 - 65.2
Copper	77.7	67.0	53.8 - 80.2
Iron	24400*	12300	6800 - 17700
Lead	86.9	67.5	53.1 - 81.9
Magnesium	3780*	2110	1560 - 2660
Manganese	479	196	157 - 235
Mercury	1.89	1.77	1.21 - 2.34
Molybdenum	33.2	26.0	18.8 - 33.2
Nickel	99.6	80.0	65.0 - 95.0
Potassium	32500*	2310	1660 - 2950
Selenium	83.0	70.5	53.3 - 87.7
Silver	101	89.9	27.9 - 152
Sodium	15200	662	481 - 843
Strontium	241	33.2	25.3 - 41.0
Thallium	89.6	82.1	62.6 - 102
Tin	110	85.5	39.3 - 132
Titanium	3100*	218	83.6 - 352
Vanadium	195	136	103 - 169
Zinc	461	380	300 - 460



Volatile Organics Data Package

LL VOA

Volatile Organics
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2401
Date Sampled: 06/22/06 16:35
Percent Solids: 40
Initial Volume: 7.9
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-01
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	7.9	1	06/27/06
1,1,1-Trichloroethane	ND	ug/Kg dry	7.9	1	06/27/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	7.9	1	06/27/06
1,1,2-Trichloroethane	ND	ug/Kg dry	7.9	1	06/27/06
1,1-Dichloroethane	**11.0**	ug/Kg dry	7.9	1	06/27/06
1,1-Dichloroethene	ND	ug/Kg dry	7.9	1	06/27/06
1,1-Dichloropropene	ND	ug/Kg dry	7.9	1	06/27/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	7.9	1	06/27/06
1,2,3-Trichloropropane	ND	ug/Kg dry	7.9	1	06/27/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	7.9	1	06/27/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	7.9	1	06/27/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	7.9	1	06/27/06
1,2-Dibromoethane	ND	ug/Kg dry	7.9	1	06/27/06
1,2-Dichlorobenzene	ND	ug/Kg dry	7.9	1	06/27/06
1,2-Dichloroethane	ND	ug/Kg dry	7.9	1	06/27/06
1,2-Dichloropropane	ND	ug/Kg dry	7.9	1	06/27/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	7.9	1	06/27/06
1,3-Dichlorobenzene	ND	ug/Kg dry	7.9	1	06/27/06
1,3-Dichloropropane	ND	ug/Kg dry	7.9	1	06/27/06
1,4-Dichlorobenzene	ND	ug/Kg dry	7.9	1	06/27/06
1,4-Dioxane - Screen	ND	ug/Kg dry	396	1	06/27/06
1-Chlorohexane	ND	ug/Kg dry	7.9	1	06/27/06
2,2-Dichloropropane	ND	ug/Kg dry	7.9	1	06/27/06
2-Butanone	ND	ug/Kg dry	79.1	1	06/27/06
2-Chlorotoluene	ND	ug/Kg dry	7.9	1	06/27/06
2-Hexanone	ND	ug/Kg dry	79.1	1	06/27/06
4-Chlorotoluene	ND	ug/Kg dry	7.9	1	06/27/06
4-Isopropyltoluene	ND	ug/Kg dry	7.9	1	06/27/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	79.1	1	06/27/06
Acetone	ND	ug/Kg dry	79.1	1	06/27/06
Benzene	ND	ug/Kg dry	7.9	1	06/27/06
Bromobenzene	ND	ug/Kg dry	7.9	1	06/27/06
Bromochloromethane	ND	ug/Kg dry	7.9	1	06/27/06
Bromodichloromethane	ND	ug/Kg dry	7.9	1	06/27/06
Bromoform	ND	ug/Kg dry	7.9	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2401
Date Sampled: 06/22/06 16:35
Percent Solids: 40
Initial Volume: 7.9
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-01
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	15.8	1	06/27/06
Carbon Disulfide	ND	ug/Kg dry	7.9	1	06/27/06
Carbon Tetrachloride	ND	ug/Kg dry	7.9	1	06/27/06
Chlorobenzene	ND	ug/Kg dry	7.9	1	06/27/06
Chloroethane	ND	ug/Kg dry	15.8	1	06/27/06
Chloroform	ND	ug/Kg dry	7.9	1	06/27/06
Chloromethane	ND	ug/Kg dry	15.8	1	06/27/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	7.9	1	06/27/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	7.9	1	06/27/06
Dibromochloromethane	ND	ug/Kg dry	7.9	1	06/27/06
Dibromomethane	ND	ug/Kg dry	7.9	1	06/27/06
Dichlorodifluoromethane	ND	ug/Kg dry	15.8	1	06/27/06
Diethyl Ether	ND	ug/Kg dry	7.9	1	06/27/06
Di-isopropyl ether	ND	ug/Kg dry	7.9	1	06/27/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	7.9	1	06/27/06
Ethylbenzene	ND	ug/Kg dry	7.9	1	06/27/06
Hexachlorobutadiene	ND	ug/Kg dry	7.9	1	06/27/06
Isopropylbenzene	ND	ug/Kg dry	7.9	1	06/27/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	7.9	1	06/27/06
Methylene Chloride	ND	ug/Kg dry	39.6	1	06/27/06
Naphthalene	ND	ug/Kg dry	7.9	1	06/27/06
n-Butylbenzene	ND	ug/Kg dry	7.9	1	06/27/06
n-Propylbenzene	ND	ug/Kg dry	7.9	1	06/27/06
sec-Butylbenzene	ND	ug/Kg dry	7.9	1	06/27/06
Styrene	ND	ug/Kg dry	7.9	1	06/27/06
tert-Butylbenzene	ND	ug/Kg dry	7.9	1	06/27/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	7.9	1	06/27/06
Tetrachloroethene	ND	ug/Kg dry	7.9	1	06/27/06
Tetrahydrofuran	ND	ug/Kg dry	7.9	1	06/27/06
Toluene	ND	ug/Kg dry	7.9	1	06/27/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	7.9	1	06/27/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	7.9	1	06/27/06
Trichloroethene	ND	ug/Kg dry	7.9	1	06/27/06
Trichlorofluoromethane	ND	ug/Kg dry	7.9	1	06/27/06
Vinyl Chloride	**21.8**	ug/Kg dry	15.8	1	06/27/06
Xylene O	ND	ug/Kg dry	7.9	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2401
Date Sampled: 06/22/06 16:35
Percent Solids: 40
Initial Volume: 7.9
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-01
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	15.8	1	06/27/06
Xylenes (Total)	ND	ug/Kg dry	23.7		06/27/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*96 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*92 %*		*70-130*
Surrogate: Dibromofluoromethane	*101 %*		*70-130*
Surrogate: Toluene-d8	*96 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2403
Date Sampled: 06/22/06 16:50
Percent Solids: 21
Initial Volume: 4.7
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-02
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	25.3	1	06/27/06
1,1,1-Trichloroethane	ND	ug/Kg dry	25.3	1	06/27/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	25.3	1	06/27/06
1,1,2-Trichloroethane	ND	ug/Kg dry	25.3	1	06/27/06
1,1-Dichloroethane	**54.4**	ug/Kg dry	25.3	1	06/27/06
1,1-Dichloroethene	ND	ug/Kg dry	25.3	1	06/27/06
1,1-Dichloropropene	ND	ug/Kg dry	25.3	1	06/27/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	25.3	1	06/27/06
1,2,3-Trichloropropane	ND	ug/Kg dry	25.3	1	06/27/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	25.3	1	06/27/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	25.3	1	06/27/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	25.3	1	06/27/06
1,2-Dibromoethane	ND	ug/Kg dry	25.3	1	06/27/06
1,2-Dichlorobenzene	ND	ug/Kg dry	25.3	1	06/27/06
1,2-Dichloroethane	ND	ug/Kg dry	25.3	1	06/27/06
1,2-Dichloropropane	ND	ug/Kg dry	25.3	1	06/27/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	25.3	1	06/27/06
1,3-Dichlorobenzene	ND	ug/Kg dry	25.3	1	06/27/06
1,3-Dichloropropane	ND	ug/Kg dry	25.3	1	06/27/06
1,4-Dichlorobenzene	ND	ug/Kg dry	25.3	1	06/27/06
1,4-Dioxane - Screen	ND	ug/Kg dry	1270	1	06/27/06
1-Chlorohexane	ND	ug/Kg dry	25.3	1	06/27/06
2,2-Dichloropropane	ND	ug/Kg dry	25.3	1	06/27/06
2-Butanone	ND	ug/Kg dry	253	1	06/27/06
2-Chlorotoluene	ND	ug/Kg dry	25.3	1	06/27/06
2-Hexanone	ND	ug/Kg dry	253	1	06/27/06
4-Chlorotoluene	ND	ug/Kg dry	25.3	1	06/27/06
4-Isopropyltoluene	ND	ug/Kg dry	25.3	1	06/27/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	253	1	06/27/06
Acetone	**834**	ug/Kg dry	253	1	06/27/06
Benzene	ND	ug/Kg dry	25.3	1	06/27/06
Bromobenzene	ND	ug/Kg dry	25.3	1	06/27/06
Bromochloromethane	ND	ug/Kg dry	25.3	1	06/27/06
Bromodichloromethane	ND	ug/Kg dry	25.3	1	06/27/06
Bromoform	ND	ug/Kg dry	25.3	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2403
Date Sampled: 06/22/06 16:50
Percent Solids: 21
Initial Volume: 4.7
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-02
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	50.7	1	06/27/06
Carbon Disulfide	ND	ug/Kg dry	25.3	1	06/27/06
Carbon Tetrachloride	ND	ug/Kg dry	25.3	1	06/27/06
Chlorobenzene	ND	ug/Kg dry	25.3	1	06/27/06
Chloroethane	ND	ug/Kg dry	50.7	1	06/27/06
Chloroform	ND	ug/Kg dry	25.3	1	06/27/06
Chloromethane	ND	ug/Kg dry	50.7	1	06/27/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	25.3	1	06/27/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	25.3	1	06/27/06
Dibromochloromethane	ND	ug/Kg dry	25.3	1	06/27/06
Dibromomethane	ND	ug/Kg dry	25.3	1	06/27/06
Dichlorodifluoromethane	ND	ug/Kg dry	50.7	1	06/27/06
Diethyl Ether	ND	ug/Kg dry	25.3	1	06/27/06
Di-isopropyl ether	ND	ug/Kg dry	25.3	1	06/27/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	25.3	1	06/27/06
Ethylbenzene	ND	ug/Kg dry	25.3	1	06/27/06
Hexachlorobutadiene	ND	ug/Kg dry	25.3	1	06/27/06
Isopropylbenzene	ND	ug/Kg dry	25.3	1	06/27/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	25.3	1	06/27/06
Methylene Chloride	ND	ug/Kg dry	127	1	06/27/06
Naphthalene	ND	ug/Kg dry	25.3	1	06/27/06
n-Butylbenzene	ND	ug/Kg dry	25.3	1	06/27/06
n-Propylbenzene	ND	ug/Kg dry	25.3	1	06/27/06
sec-Butylbenzene	ND	ug/Kg dry	25.3	1	06/27/06
Styrene	ND	ug/Kg dry	25.3	1	06/27/06
tert-Butylbenzene	ND	ug/Kg dry	25.3	1	06/27/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	25.3	1	06/27/06
Tetrachloroethene	ND	ug/Kg dry	25.3	1	06/27/06
Tetrahydrofuran	ND	ug/Kg dry	25.3	1	06/27/06
Toluene	ND	ug/Kg dry	25.3	1	06/27/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	25.3	1	06/27/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	25.3	1	06/27/06
Trichloroethene	ND	ug/Kg dry	25.3	1	06/27/06
Trichlorofluoromethane	ND	ug/Kg dry	25.3	1	06/27/06
Vinyl Chloride	**191**	ug/Kg dry	50.7	1	06/27/06
Xylene O	ND	ug/Kg dry	25.3	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2403
Date Sampled: 06/22/06 16:50
Percent Solids: 21
Initial Volume: 4.7
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-02
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	50.7	1	06/27/06
Xylenes (Total)	ND	ug/Kg dry	76.0		06/27/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*96 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*92 %*		*70-130*
Surrogate: Dibromofluoromethane	*101 %*		*70-130*
Surrogate: Toluene-d8	*99 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2201
Date Sampled: 06/22/06 17:00
Percent Solids: 30
Initial Volume: 6.6
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-03
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	12.6	1	06/27/06
1,1,1-Trichloroethane	ND	ug/Kg dry	12.6	1	06/27/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	12.6	1	06/27/06
1,1,2-Trichloroethane	ND	ug/Kg dry	12.6	1	06/27/06
1,1-Dichloroethane	ND	ug/Kg dry	12.6	1	06/27/06
1,1-Dichloroethene	ND	ug/Kg dry	12.6	1	06/27/06
1,1-Dichloropropene	ND	ug/Kg dry	12.6	1	06/27/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	12.6	1	06/27/06
1,2,3-Trichloropropane	ND	ug/Kg dry	12.6	1	06/27/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	12.6	1	06/27/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	12.6	1	06/27/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	12.6	1	06/27/06
1,2-Dibromoethane	ND	ug/Kg dry	12.6	1	06/27/06
1,2-Dichlorobenzene	ND	ug/Kg dry	12.6	1	06/27/06
1,2-Dichloroethane	ND	ug/Kg dry	12.6	1	06/27/06
1,2-Dichloropropane	ND	ug/Kg dry	12.6	1	06/27/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	12.6	1	06/27/06
1,3-Dichlorobenzene	ND	ug/Kg dry	12.6	1	06/27/06
1,3-Dichloropropane	ND	ug/Kg dry	12.6	1	06/27/06
1,4-Dichlorobenzene	ND	ug/Kg dry	12.6	1	06/27/06
1,4-Dioxane - Screen	ND	ug/Kg dry	631	1	06/27/06
1-Chlorohexane	ND	ug/Kg dry	12.6	1	06/27/06
2,2-Dichloropropane	ND	ug/Kg dry	12.6	1	06/27/06
2-Butanone	ND	ug/Kg dry	126	1	06/27/06
2-Chlorotoluene	ND	ug/Kg dry	12.6	1	06/27/06
2-Hexanone	ND	ug/Kg dry	126	1	06/27/06
4-Chlorotoluene	ND	ug/Kg dry	12.6	1	06/27/06
4-Isopropyltoluene	ND	ug/Kg dry	12.6	1	06/27/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	126	1	06/27/06
Acetone	**294**	ug/Kg dry	126	1	06/27/06
Benzene	ND	ug/Kg dry	12.6	1	06/27/06
Bromobenzene	ND	ug/Kg dry	12.6	1	06/27/06
Bromochloromethane	ND	ug/Kg dry	12.6	1	06/27/06
Bromodichloromethane	ND	ug/Kg dry	12.6	1	06/27/06
Bromoform	ND	ug/Kg dry	12.6	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2201
Date Sampled: 06/22/06 17:00
Percent Solids: 30
Initial Volume: 6.6
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-03
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	25.3	1	06/27/06
Carbon Disulfide	ND	ug/Kg dry	12.6	1	06/27/06
Carbon Tetrachloride	ND	ug/Kg dry	12.6	1	06/27/06
Chlorobenzene	ND	ug/Kg dry	12.6	1	06/27/06
Chloroethane	ND	ug/Kg dry	25.3	1	06/27/06
Chloroform	ND	ug/Kg dry	12.6	1	06/27/06
Chloromethane	ND	ug/Kg dry	25.3	1	06/27/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	12.6	1	06/27/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	12.6	1	06/27/06
Dibromochloromethane	ND	ug/Kg dry	12.6	1	06/27/06
Dibromomethane	ND	ug/Kg dry	12.6	1	06/27/06
Dichlorodifluoromethane	ND	ug/Kg dry	25.3	1	06/27/06
Diethyl Ether	ND	ug/Kg dry	12.6	1	06/27/06
Di-isopropyl ether	ND	ug/Kg dry	12.6	1	06/27/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	12.6	1	06/27/06
Ethylbenzene	ND	ug/Kg dry	12.6	1	06/27/06
Hexachlorobutadiene	ND	ug/Kg dry	12.6	1	06/27/06
Isopropylbenzene	ND	ug/Kg dry	12.6	1	06/27/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	12.6	1	06/27/06
Methylene Chloride	ND	ug/Kg dry	63.1	1	06/27/06
Naphthalene	ND	ug/Kg dry	12.6	1	06/27/06
n-Butylbenzene	ND	ug/Kg dry	12.6	1	06/27/06
n-Propylbenzene	ND	ug/Kg dry	12.6	1	06/27/06
sec-Butylbenzene	ND	ug/Kg dry	12.6	1	06/27/06
Styrene	ND	ug/Kg dry	12.6	1	06/27/06
tert-Butylbenzene	ND	ug/Kg dry	12.6	1	06/27/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	12.6	1	06/27/06
Tetrachloroethene	ND	ug/Kg dry	12.6	1	06/27/06
Tetrahydrofuran	ND	ug/Kg dry	12.6	1	06/27/06
Toluene	ND	ug/Kg dry	12.6	1	06/27/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	12.6	1	06/27/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	12.6	1	06/27/06
Trichloroethene	ND	ug/Kg dry	12.6	1	06/27/06
Trichlorofluoromethane	ND	ug/Kg dry	12.6	1	06/27/06
Vinyl Chloride	ND	ug/Kg dry	25.3	1	06/27/06
Xylene O	ND	ug/Kg dry	12.6	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2201
Date Sampled: 06/22/06 17:00
Percent Solids: 30
Initial Volume: 6.6
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-03
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	25.3	1	06/27/06
Xylenes (Total)	ND	ug/Kg dry	37.9		06/27/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*96 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*93 %*		*70-130*
Surrogate: Dibromofluoromethane	*101 %*		*70-130*
Surrogate: Toluene-d8	*97 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2203
Date Sampled: 06/22/06 17:10
Percent Solids: 20
Initial Volume: 3.5
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-04
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	35.7	1	06/27/06
1,1,1-Trichloroethane	ND	ug/Kg dry	35.7	1	06/27/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	35.7	1	06/27/06
1,1,2-Trichloroethane	ND	ug/Kg dry	35.7	1	06/27/06
1,1-Dichloroethane	ND	ug/Kg dry	35.7	1	06/27/06
1,1-Dichloroethene	ND	ug/Kg dry	35.7	1	06/27/06
1,1-Dichloropropene	ND	ug/Kg dry	35.7	1	06/27/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	35.7	1	06/27/06
1,2,3-Trichloropropane	ND	ug/Kg dry	35.7	1	06/27/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	35.7	1	06/27/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	35.7	1	06/27/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	35.7	1	06/27/06
1,2-Dibromoethane	ND	ug/Kg dry	35.7	1	06/27/06
1,2-Dichlorobenzene	ND	ug/Kg dry	35.7	1	06/27/06
1,2-Dichloroethane	ND	ug/Kg dry	35.7	1	06/27/06
1,2-Dichloropropane	ND	ug/Kg dry	35.7	1	06/27/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	35.7	1	06/27/06
1,3-Dichlorobenzene	ND	ug/Kg dry	35.7	1	06/27/06
1,3-Dichloropropane	ND	ug/Kg dry	35.7	1	06/27/06
1,4-Dichlorobenzene	ND	ug/Kg dry	35.7	1	06/27/06
1,4-Dioxane - Screen	ND	ug/Kg dry	1790	1	06/27/06
1-Chlorohexane	ND	ug/Kg dry	35.7	1	06/27/06
2,2-Dichloropropane	ND	ug/Kg dry	35.7	1	06/27/06
2-Butanone	ND	ug/Kg dry	357	1	06/27/06
2-Chlorotoluene	ND	ug/Kg dry	35.7	1	06/27/06
2-Hexanone	ND	ug/Kg dry	357	1	06/27/06
4-Chlorotoluene	ND	ug/Kg dry	35.7	1	06/27/06
4-Isopropyltoluene	ND	ug/Kg dry	35.7	1	06/27/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	357	1	06/27/06
Acetone	**1080**	ug/Kg dry	357	1	06/27/06
Benzene	ND	ug/Kg dry	35.7	1	06/27/06
Bromobenzene	ND	ug/Kg dry	35.7	1	06/27/06
Bromochloromethane	ND	ug/Kg dry	35.7	1	06/27/06
Bromodichloromethane	ND	ug/Kg dry	35.7	1	06/27/06
Bromoform	ND	ug/Kg dry	35.7	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2203
Date Sampled: 06/22/06 17:10
Percent Solids: 20
Initial Volume: 3.5
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-04
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	71.4	1	06/27/06
Carbon Disulfide	ND	ug/Kg dry	35.7	1	06/27/06
Carbon Tetrachloride	ND	ug/Kg dry	35.7	1	06/27/06
Chlorobenzene	ND	ug/Kg dry	35.7	1	06/27/06
Chloroethane	ND	ug/Kg dry	71.4	1	06/27/06
Chloroform	ND	ug/Kg dry	35.7	1	06/27/06
Chloromethane	ND	ug/Kg dry	71.4	1	06/27/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	35.7	1	06/27/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	35.7	1	06/27/06
Dibromochloromethane	ND	ug/Kg dry	35.7	1	06/27/06
Dibromomethane	ND	ug/Kg dry	35.7	1	06/27/06
Dichlorodifluoromethane	ND	ug/Kg dry	71.4	1	06/27/06
Diethyl Ether	ND	ug/Kg dry	35.7	1	06/27/06
Di-isopropyl ether	ND	ug/Kg dry	35.7	1	06/27/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	35.7	1	06/27/06
Ethylbenzene	ND	ug/Kg dry	35.7	1	06/27/06
Hexachlorobutadiene	ND	ug/Kg dry	35.7	1	06/27/06
Isopropylbenzene	ND	ug/Kg dry	35.7	1	06/27/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	35.7	1	06/27/06
Methylene Chloride	ND	ug/Kg dry	179	1	06/27/06
Naphthalene	ND	ug/Kg dry	35.7	1	06/27/06
n-Butylbenzene	ND	ug/Kg dry	35.7	1	06/27/06
n-Propylbenzene	ND	ug/Kg dry	35.7	1	06/27/06
sec-Butylbenzene	ND	ug/Kg dry	35.7	1	06/27/06
Styrene	ND	ug/Kg dry	35.7	1	06/27/06
tert-Butylbenzene	ND	ug/Kg dry	35.7	1	06/27/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	35.7	1	06/27/06
Tetrachloroethene	ND	ug/Kg dry	35.7	1	06/27/06
Tetrahydrofuran	ND	ug/Kg dry	35.7	1	06/27/06
Toluene	ND	ug/Kg dry	35.7	1	06/27/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	35.7	1	06/27/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	35.7	1	06/27/06
Trichloroethene	ND	ug/Kg dry	35.7	1	06/27/06
Trichlorofluoromethane	ND	ug/Kg dry	35.7	1	06/27/06
Vinyl Chloride	ND	ug/Kg dry	71.4	1	06/27/06
Xylene O	ND	ug/Kg dry	35.7	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2203
Date Sampled: 06/22/06 17:10
Percent Solids: 20
Initial Volume: 3.5
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-04
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	71.4	1	06/27/06
Xylenes (Total)	ND	ug/Kg dry	107		06/27/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*99 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*92 %*		*70-130*
Surrogate: Dibromofluoromethane	*102 %*		*70-130*
Surrogate: Toluene-d8	*97 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2701
Date Sampled: 06/22/06 17:35
Percent Solids: 20
Initial Volume: 6.3
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-05
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	19.8	1	06/27/06
1,1,1-Trichloroethane	ND	ug/Kg dry	19.8	1	06/27/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	19.8	1	06/27/06
1,1,2-Trichloroethane	ND	ug/Kg dry	19.8	1	06/27/06
1,1-Dichloroethane	**390**	ug/Kg dry	19.8	1	06/27/06
1,1-Dichloroethene	**276**	ug/Kg dry	19.8	1	06/27/06
1,1-Dichloropropene	ND	ug/Kg dry	19.8	1	06/27/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	19.8	1	06/27/06
1,2,3-Trichloropropane	ND	ug/Kg dry	19.8	1	06/27/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	19.8	1	06/27/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	19.8	1	06/27/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	19.8	1	06/27/06
1,2-Dibromoethane	ND	ug/Kg dry	19.8	1	06/27/06
1,2-Dichlorobenzene	ND	ug/Kg dry	19.8	1	06/27/06
1,2-Dichloroethane	ND	ug/Kg dry	19.8	1	06/27/06
1,2-Dichloropropane	ND	ug/Kg dry	19.8	1	06/27/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	19.8	1	06/27/06
1,3-Dichlorobenzene	ND	ug/Kg dry	19.8	1	06/27/06
1,3-Dichloropropane	ND	ug/Kg dry	19.8	1	06/27/06
1,4-Dichlorobenzene	ND	ug/Kg dry	19.8	1	06/27/06
1,4-Dioxane - Screen	ND	ug/Kg dry	992	1	06/27/06
1-Chlorohexane	ND	ug/Kg dry	19.8	1	06/27/06
2,2-Dichloropropane	ND	ug/Kg dry	19.8	1	06/27/06
2-Butanone	ND	ug/Kg dry	198	1	06/27/06
2-Chlorotoluene	ND	ug/Kg dry	19.8	1	06/27/06
2-Hexanone	ND	ug/Kg dry	198	1	06/27/06
4-Chlorotoluene	ND	ug/Kg dry	19.8	1	06/27/06
4-Isopropyltoluene	ND	ug/Kg dry	19.8	1	06/27/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	198	1	06/27/06
Acetone	ND	ug/Kg dry	198	1	06/27/06
Benzene	ND	ug/Kg dry	19.8	1	06/27/06
Bromobenzene	ND	ug/Kg dry	19.8	1	06/27/06
Bromochloromethane	ND	ug/Kg dry	19.8	1	06/27/06
Bromodichloromethane	ND	ug/Kg dry	19.8	1	06/27/06
Bromoform	ND	ug/Kg dry	19.8	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2701
Date Sampled: 06/22/06 17:35
Percent Solids: 20
Initial Volume: 6.3
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-05
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane		ND	ug/Kg dry	39.7	1	06/27/06
Carbon Disulfide		**39.8**	ug/Kg dry	19.8	1	06/27/06
Carbon Tetrachloride		ND	ug/Kg dry	19.8	1	06/27/06
Chlorobenzene		ND	ug/Kg dry	19.8	1	06/27/06
Chloroethane		ND	ug/Kg dry	39.7	1	06/27/06
Chloroform		ND	ug/Kg dry	19.8	1	06/27/06
Chloromethane		ND	ug/Kg dry	39.7	1	06/27/06
cis-1,2-Dichloroethene	E	**3220**	ug/Kg dry	19.8	1	06/27/06
cis-1,3-Dichloropropene		ND	ug/Kg dry	19.8	1	06/27/06
Dibromochloromethane		ND	ug/Kg dry	19.8	1	06/27/06
Dibromomethane		ND	ug/Kg dry	19.8	1	06/27/06
Dichlorodifluoromethane		ND	ug/Kg dry	39.7	1	06/27/06
Diethyl Ether		ND	ug/Kg dry	19.8	1	06/27/06
Di-isopropyl ether		ND	ug/Kg dry	19.8	1	06/27/06
Ethyl tertiary-butyl ether		ND	ug/Kg dry	19.8	1	06/27/06
Ethylbenzene		ND	ug/Kg dry	19.8	1	06/27/06
Hexachlorobutadiene		ND	ug/Kg dry	19.8	1	06/27/06
Isopropylbenzene		ND	ug/Kg dry	19.8	1	06/27/06
Methyl tert-Butyl Ether		ND	ug/Kg dry	19.8	1	06/27/06
Methylene Chloride		ND	ug/Kg dry	99.2	1	06/27/06
Naphthalene		ND	ug/Kg dry	19.8	1	06/27/06
n-Butylbenzene		ND	ug/Kg dry	19.8	1	06/27/06
n-Propylbenzene		ND	ug/Kg dry	19.8	1	06/27/06
sec-Butylbenzene		ND	ug/Kg dry	19.8	1	06/27/06
Styrene		ND	ug/Kg dry	19.8	1	06/27/06
tert-Butylbenzene		ND	ug/Kg dry	19.8	1	06/27/06
Tertiary-amyl methyl ether		ND	ug/Kg dry	19.8	1	06/27/06
Tetrachloroethene		ND	ug/Kg dry	19.8	1	06/27/06
Tetrahydrofuran		ND	ug/Kg dry	19.8	1	06/27/06
Toluene		ND	ug/Kg dry	19.8	1	06/27/06
trans-1,2-Dichloroethene		**105**	ug/Kg dry	19.8	1	06/27/06
trans-1,3-Dichloropropene		ND	ug/Kg dry	19.8	1	06/27/06
Trichloroethene		**208**	ug/Kg dry	19.8	1	06/27/06
Trichlorofluoromethane		ND	ug/Kg dry	19.8	1	06/27/06
Vinyl Chloride	E	**1610**	ug/Kg dry	39.7	1	06/27/06
Xylene O		ND	ug/Kg dry	19.8	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2701
Date Sampled: 06/22/06 17:35
Percent Solids: 20
Initial Volume: 6.3
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-05
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	39.7	1	06/27/06
Xylenes (Total)	ND	ug/Kg dry	59.5		06/27/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*96 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*90 %*		*70-130*
Surrogate: Dibromofluoromethane	*100 %*		*70-130*
Surrogate: Toluene-d8	*98 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2703
Date Sampled: 06/22/06 17:46
Percent Solids: 79
Initial Volume: 6.9
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-06
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte		Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane		ND	ug/Kg dry	4.6	1	06/27/06
1,1,1-Trichloroethane	E	**281**	ug/Kg dry	4.6	1	06/27/06
1,1,2,2-Tetrachloroethane		ND	ug/Kg dry	4.6	1	06/27/06
1,1,2-Trichloroethane		ND	ug/Kg dry	4.6	1	06/27/06
1,1-Dichloroethane		**5.4**	ug/Kg dry	4.6	1	06/27/06
1,1-Dichloroethene		**14.4**	ug/Kg dry	4.6	1	06/27/06
1,1-Dichloropropene		ND	ug/Kg dry	4.6	1	06/27/06
1,2,3-Trichlorobenzene		ND	ug/Kg dry	4.6	1	06/27/06
1,2,3-Trichloropropane		ND	ug/Kg dry	4.6	1	06/27/06
1,2,4-Trichlorobenzene		ND	ug/Kg dry	4.6	1	06/27/06
1,2,4-Trimethylbenzene		ND	ug/Kg dry	4.6	1	06/27/06
1,2-Dibromo-3-Chloropropane		ND	ug/Kg dry	4.6	1	06/27/06
1,2-Dibromoethane		ND	ug/Kg dry	4.6	1	06/27/06
1,2-Dichlorobenzene		ND	ug/Kg dry	4.6	1	06/27/06
1,2-Dichloroethane		ND	ug/Kg dry	4.6	1	06/27/06
1,2-Dichloropropane		ND	ug/Kg dry	4.6	1	06/27/06
1,3,5-Trimethylbenzene		ND	ug/Kg dry	4.6	1	06/27/06
1,3-Dichlorobenzene		ND	ug/Kg dry	4.6	1	06/27/06
1,3-Dichloropropane		ND	ug/Kg dry	4.6	1	06/27/06
1,4-Dichlorobenzene		ND	ug/Kg dry	4.6	1	06/27/06
1,4-Dioxane - Screen		ND	ug/Kg dry	229	1	06/27/06
1-Chlorohexane		ND	ug/Kg dry	4.6	1	06/27/06
2,2-Dichloropropane		ND	ug/Kg dry	4.6	1	06/27/06
2-Butanone		ND	ug/Kg dry	45.9	1	06/27/06
2-Chlorotoluene		ND	ug/Kg dry	4.6	1	06/27/06
2-Hexanone		ND	ug/Kg dry	45.9	1	06/27/06
4-Chlorotoluene		ND	ug/Kg dry	4.6	1	06/27/06
4-Isopropyltoluene		ND	ug/Kg dry	4.6	1	06/27/06
4-Methyl-2-Pentanone		ND	ug/Kg dry	45.9	1	06/27/06
Acetone		ND	ug/Kg dry	45.9	1	06/27/06
Benzene		ND	ug/Kg dry	4.6	1	06/27/06
Bromobenzene		ND	ug/Kg dry	4.6	1	06/27/06
Bromochloromethane		ND	ug/Kg dry	4.6	1	06/27/06
Bromodichloromethane		ND	ug/Kg dry	4.6	1	06/27/06
Bromoform		ND	ug/Kg dry	4.6	1	06/27/06

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2703
Date Sampled: 06/22/06 17:46
Percent Solids: 79
Initial Volume: 6.9
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-06
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane		ND	ug/Kg dry	9.2	1	06/27/06
Carbon Disulfide		**6.8**	ug/Kg dry	4.6	1	06/27/06
Carbon Tetrachloride		ND	ug/Kg dry	4.6	1	06/27/06
Chlorobenzene		ND	ug/Kg dry	4.6	1	06/27/06
Chloroethane		ND	ug/Kg dry	9.2	1	06/27/06
Chloroform		ND	ug/Kg dry	4.6	1	06/27/06
Chloromethane		ND	ug/Kg dry	9.2	1	06/27/06
cis-1,2-Dichloroethene		**38.6**	ug/Kg dry	4.6	1	06/27/06
cis-1,3-Dichloropropene		ND	ug/Kg dry	4.6	1	06/27/06
Dibromochloromethane		ND	ug/Kg dry	4.6	1	06/27/06
Dibromomethane		ND	ug/Kg dry	4.6	1	06/27/06
Dichlorodifluoromethane		ND	ug/Kg dry	9.2	1	06/27/06
Diethyl Ether		ND	ug/Kg dry	4.6	1	06/27/06
Di-isopropyl ether		ND	ug/Kg dry	4.6	1	06/27/06
Ethyl tertiary-butyl ether		ND	ug/Kg dry	4.6	1	06/27/06
Ethylbenzene		ND	ug/Kg dry	4.6	1	06/27/06
Hexachlorobutadiene		ND	ug/Kg dry	4.6	1	06/27/06
Isopropylbenzene		ND	ug/Kg dry	4.6	1	06/27/06
Methyl tert-Butyl Ether		ND	ug/Kg dry	4.6	1	06/27/06
Methylene Chloride		ND	ug/Kg dry	22.9	1	06/27/06
Naphthalene		ND	ug/Kg dry	4.6	1	06/27/06
n-Butylbenzene		ND	ug/Kg dry	4.6	1	06/27/06
n-Propylbenzene		ND	ug/Kg dry	4.6	1	06/27/06
sec-Butylbenzene		ND	ug/Kg dry	4.6	1	06/27/06
Styrene		ND	ug/Kg dry	4.6	1	06/27/06
tert-Butylbenzene		ND	ug/Kg dry	4.6	1	06/27/06
Tertiary-amyl methyl ether		ND	ug/Kg dry	4.6	1	06/27/06
Tetrachloroethene		**15.4**	ug/Kg dry	4.6	1	06/27/06
Tetrahydrofuran		ND	ug/Kg dry	4.6	1	06/27/06
Toluene		ND	ug/Kg dry	4.6	1	06/27/06
trans-1,2-Dichloroethene		ND	ug/Kg dry	4.6	1	06/27/06
trans-1,3-Dichloropropene		ND	ug/Kg dry	4.6	1	06/27/06
Trichloroethene	E	**394**	ug/Kg dry	4.6	1	06/27/06
Trichlorofluoromethane		ND	ug/Kg dry	4.6	1	06/27/06
Vinyl Chloride		ND	ug/Kg dry	9.2	1	06/27/06
Xylene O		ND	ug/Kg dry	4.6	1	06/27/06

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2703
Date Sampled: 06/22/06 17:46
Percent Solids: 79
Initial Volume: 6.9
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-06
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	9.2	1	06/27/06
Xylenes (Total)	ND	ug/Kg dry	13.8		06/27/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*98 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*94 %*		*70-130*
Surrogate: Dibromofluoromethane	*98 %*		*70-130*
Surrogate: Toluene-d8	*96 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2601
Date Sampled: 06/22/06 18:10
Percent Solids: 54
Initial Volume: 5.8
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-07
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	8.0	1	06/27/06
1,1,1-Trichloroethane	ND	ug/Kg dry	8.0	1	06/27/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	8.0	1	06/27/06
1,1,2-Trichloroethane	ND	ug/Kg dry	8.0	1	06/27/06
1,1-Dichloroethane	ND	ug/Kg dry	8.0	1	06/27/06
1,1-Dichloroethene	ND	ug/Kg dry	8.0	1	06/27/06
1,1-Dichloropropene	ND	ug/Kg dry	8.0	1	06/27/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	8.0	1	06/27/06
1,2,3-Trichloropropane	ND	ug/Kg dry	8.0	1	06/27/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	8.0	1	06/27/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	8.0	1	06/27/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	8.0	1	06/27/06
1,2-Dibromoethane	ND	ug/Kg dry	8.0	1	06/27/06
1,2-Dichlorobenzene	ND	ug/Kg dry	8.0	1	06/27/06
1,2-Dichloroethane	ND	ug/Kg dry	8.0	1	06/27/06
1,2-Dichloropropane	ND	ug/Kg dry	8.0	1	06/27/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	8.0	1	06/27/06
1,3-Dichlorobenzene	ND	ug/Kg dry	8.0	1	06/27/06
1,3-Dichloropropane	ND	ug/Kg dry	8.0	1	06/27/06
1,4-Dichlorobenzene	ND	ug/Kg dry	8.0	1	06/27/06
1,4-Dioxane - Screen	ND	ug/Kg dry	399	1	06/27/06
1-Chlorohexane	ND	ug/Kg dry	8.0	1	06/27/06
2,2-Dichloropropane	ND	ug/Kg dry	8.0	1	06/27/06
2-Butanone	ND	ug/Kg dry	79.8	1	06/27/06
2-Chlorotoluene	ND	ug/Kg dry	8.0	1	06/27/06
2-Hexanone	ND	ug/Kg dry	79.8	1	06/27/06
4-Chlorotoluene	ND	ug/Kg dry	8.0	1	06/27/06
4-Isopropyltoluene	ND	ug/Kg dry	8.0	1	06/27/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	79.8	1	06/27/06
Acetone	**85.6**	ug/Kg dry	79.8	1	06/27/06
Benzene	ND	ug/Kg dry	8.0	1	06/27/06
Bromobenzene	ND	ug/Kg dry	8.0	1	06/27/06
Bromochloromethane	ND	ug/Kg dry	8.0	1	06/27/06
Bromodichloromethane	ND	ug/Kg dry	8.0	1	06/27/06
Bromoform	ND	ug/Kg dry	8.0	1	06/27/06

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2601
Date Sampled: 06/22/06 18:10
Percent Solids: 54
Initial Volume: 5.8
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-07
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	16.0	1	06/27/06
Carbon Disulfide	ND	ug/Kg dry	8.0	1	06/27/06
Carbon Tetrachloride	ND	ug/Kg dry	8.0	1	06/27/06
Chlorobenzene	ND	ug/Kg dry	8.0	1	06/27/06
Chloroethane	ND	ug/Kg dry	16.0	1	06/27/06
Chloroform	ND	ug/Kg dry	8.0	1	06/27/06
Chloromethane	ND	ug/Kg dry	16.0	1	06/27/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	8.0	1	06/27/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	8.0	1	06/27/06
Dibromochloromethane	ND	ug/Kg dry	8.0	1	06/27/06
Dibromomethane	ND	ug/Kg dry	8.0	1	06/27/06
Dichlorodifluoromethane	ND	ug/Kg dry	16.0	1	06/27/06
Diethyl Ether	ND	ug/Kg dry	8.0	1	06/27/06
Di-isopropyl ether	ND	ug/Kg dry	8.0	1	06/27/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	8.0	1	06/27/06
Ethylbenzene	ND	ug/Kg dry	8.0	1	06/27/06
Hexachlorobutadiene	ND	ug/Kg dry	8.0	1	06/27/06
Isopropylbenzene	ND	ug/Kg dry	8.0	1	06/27/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	8.0	1	06/27/06
Methylene Chloride	ND	ug/Kg dry	39.9	1	06/27/06
Naphthalene	ND	ug/Kg dry	8.0	1	06/27/06
n-Butylbenzene	ND	ug/Kg dry	8.0	1	06/27/06
n-Propylbenzene	ND	ug/Kg dry	8.0	1	06/27/06
sec-Butylbenzene	ND	ug/Kg dry	8.0	1	06/27/06
Styrene	ND	ug/Kg dry	8.0	1	06/27/06
tert-Butylbenzene	ND	ug/Kg dry	8.0	1	06/27/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	8.0	1	06/27/06
Tetrachloroethene	ND	ug/Kg dry	8.0	1	06/27/06
Tetrahydrofuran	ND	ug/Kg dry	8.0	1	06/27/06
Toluene	ND	ug/Kg dry	8.0	1	06/27/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	8.0	1	06/27/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	8.0	1	06/27/06
Trichloroethene	ND	ug/Kg dry	8.0	1	06/27/06
Trichlorofluoromethane	ND	ug/Kg dry	8.0	1	06/27/06
Vinyl Chloride	ND	ug/Kg dry	16.0	1	06/27/06
Xylene O	ND	ug/Kg dry	8.0	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2601
Date Sampled: 06/22/06 18:10
Percent Solids: 54
Initial Volume: 5.8
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-07
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	16.0	1	06/27/06
Xylenes (Total)	ND	ug/Kg dry	24.0		06/27/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*97 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*94 %*		*70-130*
Surrogate: Dibromofluoromethane	*101 %*		*70-130*
Surrogate: Toluene-d8	*96 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2602
Date Sampled: 06/22/06 18:20
Percent Solids: 46
Initial Volume: 4.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-08
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	11.8	1	06/27/06
1,1,1-Trichloroethane	ND	ug/Kg dry	11.8	1	06/27/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	11.8	1	06/27/06
1,1,2-Trichloroethane	ND	ug/Kg dry	11.8	1	06/27/06
1,1-Dichloroethane	ND	ug/Kg dry	11.8	1	06/27/06
1,1-Dichloroethene	ND	ug/Kg dry	11.8	1	06/27/06
1,1-Dichloropropene	ND	ug/Kg dry	11.8	1	06/27/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	11.8	1	06/27/06
1,2,3-Trichloropropane	ND	ug/Kg dry	11.8	1	06/27/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	11.8	1	06/27/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	11.8	1	06/27/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	11.8	1	06/27/06
1,2-Dibromoethane	ND	ug/Kg dry	11.8	1	06/27/06
1,2-Dichlorobenzene	ND	ug/Kg dry	11.8	1	06/27/06
1,2-Dichloroethane	ND	ug/Kg dry	11.8	1	06/27/06
1,2-Dichloropropane	ND	ug/Kg dry	11.8	1	06/27/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	11.8	1	06/27/06
1,3-Dichlorobenzene	ND	ug/Kg dry	11.8	1	06/27/06
1,3-Dichloropropane	ND	ug/Kg dry	11.8	1	06/27/06
1,4-Dichlorobenzene	ND	ug/Kg dry	11.8	1	06/27/06
1,4-Dioxane - Screen	ND	ug/Kg dry	591	1	06/27/06
1-Chlorohexane	ND	ug/Kg dry	11.8	1	06/27/06
2,2-Dichloropropane	ND	ug/Kg dry	11.8	1	06/27/06
2-Butanone	ND	ug/Kg dry	118	1	06/27/06
2-Chlorotoluene	ND	ug/Kg dry	11.8	1	06/27/06
2-Hexanone	ND	ug/Kg dry	118	1	06/27/06
4-Chlorotoluene	ND	ug/Kg dry	11.8	1	06/27/06
4-Isopropyltoluene	ND	ug/Kg dry	11.8	1	06/27/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	118	1	06/27/06
Acetone	ND	ug/Kg dry	118	1	06/27/06
Benzene	ND	ug/Kg dry	11.8	1	06/27/06
Bromobenzene	ND	ug/Kg dry	11.8	1	06/27/06
Bromochloromethane	ND	ug/Kg dry	11.8	1	06/27/06
Bromodichloromethane	ND	ug/Kg dry	11.8	1	06/27/06
Bromoform	ND	ug/Kg dry	11.8	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2602
Date Sampled: 06/22/06 18:20
Percent Solids: 46
Initial Volume: 4.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-08
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	23.6	1	06/27/06
Carbon Disulfide	ND	ug/Kg dry	11.8	1	06/27/06
Carbon Tetrachloride	ND	ug/Kg dry	11.8	1	06/27/06
Chlorobenzene	ND	ug/Kg dry	11.8	1	06/27/06
Chloroethane	ND	ug/Kg dry	23.6	1	06/27/06
Chloroform	ND	ug/Kg dry	11.8	1	06/27/06
Chloromethane	ND	ug/Kg dry	23.6	1	06/27/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	11.8	1	06/27/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	11.8	1	06/27/06
Dibromochloromethane	ND	ug/Kg dry	11.8	1	06/27/06
Dibromomethane	ND	ug/Kg dry	11.8	1	06/27/06
Dichlorodifluoromethane	ND	ug/Kg dry	23.6	1	06/27/06
Diethyl Ether	ND	ug/Kg dry	11.8	1	06/27/06
Di-isopropyl ether	ND	ug/Kg dry	11.8	1	06/27/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	11.8	1	06/27/06
Ethylbenzene	ND	ug/Kg dry	11.8	1	06/27/06
Hexachlorobutadiene	ND	ug/Kg dry	11.8	1	06/27/06
Isopropylbenzene	ND	ug/Kg dry	11.8	1	06/27/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	11.8	1	06/27/06
Methylene Chloride	ND	ug/Kg dry	59.1	1	06/27/06
Naphthalene	ND	ug/Kg dry	11.8	1	06/27/06
n-Butylbenzene	ND	ug/Kg dry	11.8	1	06/27/06
n-Propylbenzene	ND	ug/Kg dry	11.8	1	06/27/06
sec-Butylbenzene	ND	ug/Kg dry	11.8	1	06/27/06
Styrene	ND	ug/Kg dry	11.8	1	06/27/06
tert-Butylbenzene	ND	ug/Kg dry	11.8	1	06/27/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	11.8	1	06/27/06
Tetrachloroethene	ND	ug/Kg dry	11.8	1	06/27/06
Tetrahydrofuran	ND	ug/Kg dry	11.8	1	06/27/06
Toluene	ND	ug/Kg dry	11.8	1	06/27/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	11.8	1	06/27/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	11.8	1	06/27/06
Trichloroethene	ND	ug/Kg dry	11.8	1	06/27/06
Trichlorofluoromethane	ND	ug/Kg dry	11.8	1	06/27/06
Vinyl Chloride	ND	ug/Kg dry	23.6	1	06/27/06
Xylene O	ND	ug/Kg dry	11.8	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2602
Date Sampled: 06/22/06 18:20
Percent Solids: 46
Initial Volume: 4.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-08
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	23.6	I	06/27/06
Xylenes (Total)	ND	ug/Kg dry	35.4		06/27/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*98 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*74 %*		*70-130*
Surrogate: Dibromofluoromethane	*107 %*		*70-130*
Surrogate: Toluene-d8	*117 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2501
Date Sampled: 06/22/06 18:45
Percent Solids: 30
Initial Volume: 9.5
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-10
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	8.8	1	06/27/06
1,1,1-Trichloroethane	ND	ug/Kg dry	8.8	1	06/27/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	8.8	1	06/27/06
1,1,2-Trichloroethane	ND	ug/Kg dry	8.8	1	06/27/06
1,1-Dichloroethane	**37.3**	ug/Kg dry	8.8	1	06/27/06
1,1-Dichloroethene	ND	ug/Kg dry	8.8	1	06/27/06
1,1-Dichloropropene	ND	ug/Kg dry	8.8	1	06/27/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	8.8	1	06/27/06
1,2,3-Trichloropropane	ND	ug/Kg dry	8.8	1	06/27/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	8.8	1	06/27/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	8.8	1	06/27/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	8.8	1	06/27/06
1,2-Dibromoethane	ND	ug/Kg dry	8.8	1	06/27/06
1,2-Dichlorobenzene	ND	ug/Kg dry	8.8	1	06/27/06
1,2-Dichloroethane	ND	ug/Kg dry	8.8	1	06/27/06
1,2-Dichloropropane	ND	ug/Kg dry	8.8	1	06/27/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	8.8	1	06/27/06
1,3-Dichlorobenzene	ND	ug/Kg dry	8.8	1	06/27/06
1,3-Dichloropropane	ND	ug/Kg dry	8.8	1	06/27/06
1,4-Dichlorobenzene	ND	ug/Kg dry	8.8	1	06/27/06
1,4-Dioxane - Screen	ND	ug/Kg dry	439	1	06/27/06
1-Chlorohexane	ND	ug/Kg dry	8.8	1	06/27/06
2,2-Dichloropropane	ND	ug/Kg dry	8.8	1	06/27/06
2-Butanone	ND	ug/Kg dry	87.7	1	06/27/06
2-Chlorotoluene	ND	ug/Kg dry	8.8	1	06/27/06
2-Hexanone	ND	ug/Kg dry	87.7	1	06/27/06
4-Chlorotoluene	ND	ug/Kg dry	8.8	1	06/27/06
4-Isopropyltoluene	ND	ug/Kg dry	8.8	1	06/27/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	87.7	1	06/27/06
Acetone	**128**	ug/Kg dry	87.7	1	06/27/06
Benzene	ND	ug/Kg dry	8.8	1	06/27/06
Bromobenzene	ND	ug/Kg dry	8.8	1	06/27/06
Bromochloromethane	ND	ug/Kg dry	8.8	1	06/27/06
Bromodichloromethane	ND	ug/Kg dry	8.8	1	06/27/06
Bromoform	ND	ug/Kg dry	8.8	1	06/27/06

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2501
Date Sampled: 06/22/06 18:45
Percent Solids: 30
Initial Volume: 9.5
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-10
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane		ND	ug/Kg dry	17.5	1	06/27/06
Carbon Disulfide		**11.1**	ug/Kg dry	8.8	1	06/27/06
Carbon Tetrachloride		ND	ug/Kg dry	8.8	1	06/27/06
Chlorobenzene		ND	ug/Kg dry	8.8	1	06/27/06
Chloroethane		ND	ug/Kg dry	17.5	1	06/27/06
Chloroform		ND	ug/Kg dry	8.8	1	06/27/06
Chloromethane		ND	ug/Kg dry	17.5	1	06/27/06
cis-1,2-Dichloroethene		**142**	ug/Kg dry	8.8	1	06/27/06
cis-1,3-Dichloropropene		ND	ug/Kg dry	8.8	1	06/27/06
Dibromochloromethane		ND	ug/Kg dry	8.8	1	06/27/06
Dibromomethane		ND	ug/Kg dry	8.8	1	06/27/06
Dichlorodifluoromethane		ND	ug/Kg dry	17.5	1	06/27/06
Diethyl Ether		ND	ug/Kg dry	8.8	1	06/27/06
Di-isopropyl ether		ND	ug/Kg dry	8.8	1	06/27/06
Ethyl tertiary-butyl ether		ND	ug/Kg dry	8.8	1	06/27/06
Ethylbenzene		ND	ug/Kg dry	8.8	1	06/27/06
Hexachlorobutadiene		ND	ug/Kg dry	8.8	1	06/27/06
Isopropylbenzene		ND	ug/Kg dry	8.8	1	06/27/06
Methyl tert-Butyl Ether		ND	ug/Kg dry	8.8	1	06/27/06
Methylene Chloride		ND	ug/Kg dry	43.9	1	06/27/06
Naphthalene		ND	ug/Kg dry	8.8	1	06/27/06
n-Butylbenzene		ND	ug/Kg dry	8.8	1	06/27/06
n-Propylbenzene		ND	ug/Kg dry	8.8	1	06/27/06
sec-Butylbenzene		ND	ug/Kg dry	8.8	1	06/27/06
Styrene		ND	ug/Kg dry	8.8	1	06/27/06
tert-Butylbenzene		ND	ug/Kg dry	8.8	1	06/27/06
Tertiary-amyl methyl ether		ND	ug/Kg dry	8.8	1	06/27/06
Tetrachloroethene		ND	ug/Kg dry	8.8	1	06/27/06
Tetrahydrofuran		ND	ug/Kg dry	8.8	1	06/27/06
Toluene		ND	ug/Kg dry	8.8	1	06/27/06
trans-1,2-Dichloroethene		ND	ug/Kg dry	8.8	1	06/27/06
trans-1,3-Dichloropropene		ND	ug/Kg dry	8.8	1	06/27/06
Trichloroethene		ND	ug/Kg dry	8.8	1	06/27/06
Trichlorofluoromethane		ND	ug/Kg dry	8.8	1	06/27/06
Vinyl Chloride	E	**3150**	ug/Kg dry	17.5	1	06/27/06
Xylene O		ND	ug/Kg dry	8.8	1	06/27/06

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2501
Date Sampled: 06/22/06 18:45
Percent Solids: 30
Initial Volume: 9.5
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-10
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	17.5	1	06/27/06
Xylenes (Total)	ND	ug/Kg dry	26.3		06/27/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*97 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*86 %*		*70-130*
Surrogate: Dibromofluoromethane	*102 %*		*70-130*
Surrogate: Toluene-d8	*100 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2503
Date Sampled: 06/22/06 18:53
Percent Solids: 12
Initial Volume: 6.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-11
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	31.1	1	06/26/06
1,1,1-Trichloroethane	ND	ug/Kg dry	31.1	1	06/26/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	31.1	1	06/26/06
1,1,2-Trichloroethane	ND	ug/Kg dry	31.1	1	06/26/06
1,1-Dichloroethane	**51.0**	ug/Kg dry	31.1	1	06/26/06
1,1-Dichloroethene	ND	ug/Kg dry	31.1	1	06/26/06
1,1-Dichloropropene	ND	ug/Kg dry	31.1	1	06/26/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	31.1	1	06/26/06
1,2,3-Trichloropropane	ND	ug/Kg dry	31.1	1	06/26/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	31.1	1	06/26/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	31.1	1	06/26/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	31.1	1	06/26/06
1,2-Dibromoethane	ND	ug/Kg dry	31.1	1	06/26/06
1,2-Dichlorobenzene	ND	ug/Kg dry	31.1	1	06/26/06
1,2-Dichloroethane	ND	ug/Kg dry	31.1	1	06/26/06
1,2-Dichloropropane	ND	ug/Kg dry	31.1	1	06/26/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	31.1	1	06/26/06
1,3-Dichlorobenzene	ND	ug/Kg dry	31.1	1	06/26/06
1,3-Dichloropropane	ND	ug/Kg dry	31.1	1	06/26/06
1,4-Dichlorobenzene	ND	ug/Kg dry	31.1	1	06/26/06
1,4-Dioxane - Screen	ND	ug/Kg dry	1550	1	06/26/06
1-Chlorohexane	ND	ug/Kg dry	31.1	1	06/26/06
2,2-Dichloropropane	ND	ug/Kg dry	31.1	1	06/26/06
2-Butanone	**442**	ug/Kg dry	311	1	06/26/06
2-Chlorotoluene	ND	ug/Kg dry	31.1	1	06/26/06
2-Hexanone	ND	ug/Kg dry	311	1	06/26/06
4-Chlorotoluene	ND	ug/Kg dry	31.1	1	06/26/06
4-Isopropyltoluene	ND	ug/Kg dry	31.1	1	06/26/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	311	1	06/26/06
Acetone	**1680**	ug/Kg dry	311	1	06/26/06
Benzene	ND	ug/Kg dry	31.1	1	06/26/06
Bromobenzene	ND	ug/Kg dry	31.1	1	06/26/06
Bromochloromethane	ND	ug/Kg dry	31.1	1	06/26/06
Bromodichloromethane	ND	ug/Kg dry	31.1	1	06/26/06
Bromoform	ND	ug/Kg dry	31.1	1	06/26/06

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2503
Date Sampled: 06/22/06 18:53
Percent Solids: 12
Initial Volume: 6.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-11
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	62.2	1	06/26/06
Carbon Disulfide	ND	ug/Kg dry	31.1	1	06/26/06
Carbon Tetrachloride	ND	ug/Kg dry	31.1	1	06/26/06
Chlorobenzene	ND	ug/Kg dry	31.1	1	06/26/06
Chloroethane	ND	ug/Kg dry	62.2	1	06/26/06
Chloroform	ND	ug/Kg dry	31.1	1	06/26/06
Chloromethane	ND	ug/Kg dry	62.2	1	06/26/06
cis-1,2-Dichloroethene	**82.2**	ug/Kg dry	31.1	1	06/26/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	31.1	1	06/26/06
Dibromochloromethane	ND	ug/Kg dry	31.1	1	06/26/06
Dibromomethane	ND	ug/Kg dry	31.1	1	06/26/06
Dichlorodifluoromethane	ND	ug/Kg dry	62.2	1	06/26/06
Diethyl Ether	ND	ug/Kg dry	31.1	1	06/26/06
Di-isopropyl ether	ND	ug/Kg dry	31.1	1	06/26/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	31.1	1	06/26/06
Ethylbenzene	ND	ug/Kg dry	31.1	1	06/26/06
Hexachlorobutadiene	ND	ug/Kg dry	31.1	1	06/26/06
Isopropylbenzene	**73.8**	ug/Kg dry	31.1	1	06/26/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	31.1	1	06/26/06
Methylene Chloride	ND	ug/Kg dry	155	1	06/26/06
Naphthalene	ND	ug/Kg dry	31.1	1	06/26/06
n-Butylbenzene	ND	ug/Kg dry	31.1	1	06/26/06
n-Propylbenzene	ND	ug/Kg dry	31.1	1	06/26/06
sec-Butylbenzene	**56.3**	ug/Kg dry	31.1	1	06/26/06
Styrene	ND	ug/Kg dry	31.1	1	06/26/06
tert-Butylbenzene	ND	ug/Kg dry	31.1	1	06/26/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	31.1	1	06/26/06
Tetrachloroethene	ND	ug/Kg dry	31.1	1	06/26/06
Tetrahydrofuran	ND	ug/Kg dry	31.1	1	06/26/06
Toluene	ND	ug/Kg dry	31.1	1	06/26/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	31.1	1	06/26/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	31.1	1	06/26/06
Trichloroethene	**31.3**	ug/Kg dry	31.1	1	06/26/06
Trichlorofluoromethane	ND	ug/Kg dry	31.1	1	06/26/06
Vinyl Chloride	**910**	ug/Kg dry	62.2	1	06/26/06
Xylene O	ND	ug/Kg dry	31.1	1	06/26/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2503
Date Sampled: 06/22/06 18:53
Percent Solids: 12
Initial Volume: 6.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-11
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	62.2		1	06/26/06
Xylenes (Total)	ND	ug/Kg dry	93.3			06/26/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*94 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*82 %*		*70-130*
Surrogate: Dibromofluoromethane	*102 %*		*70-130*
Surrogate: Toluene-d8	*110 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2503D
Date Sampled: 06/23/06 10:05
Percent Solids: 16
Initial Volume: 4.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-12
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	33.2	1	06/27/06
1,1,1-Trichloroethane	ND	ug/Kg dry	33.2	1	06/27/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	33.2	1	06/27/06
1,1,2-Trichloroethane	ND	ug/Kg dry	33.2	1	06/27/06
1,1-Dichloroethane	ND	ug/Kg dry	33.2	1	06/27/06
1,1-Dichloroethene	ND	ug/Kg dry	33.2	1	06/27/06
1,1-Dichloropropene	ND	ug/Kg dry	33.2	1	06/27/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	33.2	1	06/27/06
1,2,3-Trichloropropane	ND	ug/Kg dry	33.2	1	06/27/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	33.2	1	06/27/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	33.2	1	06/27/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	33.2	1	06/27/06
1,2-Dibromoethane	ND	ug/Kg dry	33.2	1	06/27/06
1,2-Dichlorobenzene	ND	ug/Kg dry	33.2	1	06/27/06
1,2-Dichloroethane	ND	ug/Kg dry	33.2	1	06/27/06
1,2-Dichloropropane	ND	ug/Kg dry	33.2	1	06/27/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	33.2	1	06/27/06
1,3-Dichlorobenzene	ND	ug/Kg dry	33.2	1	06/27/06
1,3-Dichloropropane	ND	ug/Kg dry	33.2	1	06/27/06
1,4-Dichlorobenzene	ND	ug/Kg dry	33.2	1	06/27/06
1,4-Dioxane - Screen	ND	ug/Kg dry	1660	1	06/27/06
1-Chlorohexane	ND	ug/Kg dry	33.2	1	06/27/06
2,2-Dichloropropane	ND	ug/Kg dry	33.2	1	06/27/06
2-Butanone	**417**	ug/Kg dry	332	1	06/27/06
2-Chlorotoluene	ND	ug/Kg dry	33.2	1	06/27/06
2-Hexanone	ND	ug/Kg dry	332	1	06/27/06
4-Chlorotoluene	ND	ug/Kg dry	33.2	1	06/27/06
4-Isopropyltoluene	ND	ug/Kg dry	33.2	1	06/27/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	332	1	06/27/06
Acetone	**1540**	ug/Kg dry	332	1	06/27/06
Benzene	ND	ug/Kg dry	33.2	1	06/27/06
Bromobenzene	ND	ug/Kg dry	33.2	1	06/27/06
Bromochloromethane	ND	ug/Kg dry	33.2	1	06/27/06
Bromodichloromethane	ND	ug/Kg dry	33.2	1	06/27/06
Bromoform	ND	ug/Kg dry	33.2	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2503D
Date Sampled: 06/23/06 10:05
Percent Solids: 16
Initial Volume: 4.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-12
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	66.5	1	06/27/06
Carbon Disulfide	ND	ug/Kg dry	33.2	1	06/27/06
Carbon Tetrachloride	ND	ug/Kg dry	33.2	1	06/27/06
Chlorobenzene	ND	ug/Kg dry	33.2	1	06/27/06
Chloroethane	ND	ug/Kg dry	66.5	1	06/27/06
Chloroform	ND	ug/Kg dry	33.2	1	06/27/06
Chloromethane	ND	ug/Kg dry	66.5	1	06/27/06
cis-1,2-Dichloroethene	**76.7**	ug/Kg dry	33.2	1	06/27/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	33.2	1	06/27/06
Dibromochloromethane	ND	ug/Kg dry	33.2	1	06/27/06
Dibromomethane	ND	ug/Kg dry	33.2	1	06/27/06
Dichlorodifluoromethane	ND	ug/Kg dry	66.5	1	06/27/06
Diethyl Ether	ND	ug/Kg dry	33.2	1	06/27/06
Di-isopropyl ether	ND	ug/Kg dry	33.2	1	06/27/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	33.2	1	06/27/06
Ethylbenzene	ND	ug/Kg dry	33.2	1	06/27/06
Hexachlorobutadiene	ND	ug/Kg dry	33.2	1	06/27/06
Isopropylbenzene	ND	ug/Kg dry	33.2	1	06/27/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	33.2	1	06/27/06
Methylene Chloride	ND	ug/Kg dry	166	1	06/27/06
Naphthalene	ND	ug/Kg dry	33.2	1	06/27/06
n-Butylbenzene	ND	ug/Kg dry	33.2	1	06/27/06
n-Propylbenzene	ND	ug/Kg dry	33.2	1	06/27/06
sec-Butylbenzene	ND	ug/Kg dry	33.2	1	06/27/06
Styrene	ND	ug/Kg dry	33.2	1	06/27/06
tert-Butylbenzene	ND	ug/Kg dry	33.2	1	06/27/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	33.2	1	06/27/06
Tetrachloroethene	ND	ug/Kg dry	33.2	1	06/27/06
Tetrahydrofuran	ND	ug/Kg dry	33.2	1	06/27/06
Toluene	ND	ug/Kg dry	33.2	1	06/27/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	33.2	1	06/27/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	33.2	1	06/27/06
Trichloroethene	ND	ug/Kg dry	33.2	1	06/27/06
Trichlorofluoromethane	ND	ug/Kg dry	33.2	1	06/27/06
Vinyl Chloride	**429**	ug/Kg dry	66.5	1	06/27/06
Xylene O	ND	ug/Kg dry	33.2	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2503D
Date Sampled: 06/23/06 10:05
Percent Solids: 16
Initial Volume: 4.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-12
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	66.5		1	06/27/06
Xylenes (Total)	ND	ug/Kg dry	99.7			06/27/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*98 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*92 %*		*70-130*
Surrogate: Dibromofluoromethane	*100 %*		*70-130*
Surrogate: Toluene-d8	*100 %*		*70-130*

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Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2507
Date Sampled: 06/23/06 10:30
Percent Solids: 12
Initial Volume: 4
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-13
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	52.1	1	06/27/06
1,1,1-Trichloroethane	ND	ug/Kg dry	52.1	1	06/27/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	52.1	1	06/27/06
1,1,2-Trichloroethane	ND	ug/Kg dry	52.1	1	06/27/06
1,1-Dichloroethane	ND	ug/Kg dry	52.1	1	06/27/06
1,1-Dichloroethene	ND	ug/Kg dry	52.1	1	06/27/06
1,1-Dichloropropene	ND	ug/Kg dry	52.1	1	06/27/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	52.1	1	06/27/06
1,2,3-Trichloropropane	ND	ug/Kg dry	52.1	1	06/27/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	52.1	1	06/27/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	52.1	1	06/27/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	52.1	1	06/27/06
1,2-Dibromoethane	ND	ug/Kg dry	52.1	1	06/27/06
1,2-Dichlorobenzene	ND	ug/Kg dry	52.1	1	06/27/06
1,2-Dichloroethane	ND	ug/Kg dry	52.1	1	06/27/06
1,2-Dichloropropane	ND	ug/Kg dry	52.1	1	06/27/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	52.1	1	06/27/06
1,3-Dichlorobenzene	ND	ug/Kg dry	52.1	1	06/27/06
1,3-Dichloropropane	ND	ug/Kg dry	52.1	1	06/27/06
1,4-Dichlorobenzene	ND	ug/Kg dry	52.1	1	06/27/06
1,4-Dioxane - Screen	ND	ug/Kg dry	2600	1	06/27/06
1-Chlorohexane	ND	ug/Kg dry	52.1	1	06/27/06
2,2-Dichloropropane	ND	ug/Kg dry	52.1	1	06/27/06
2-Butanone	ND	ug/Kg dry	521	1	06/27/06
2-Chlorotoluene	ND	ug/Kg dry	52.1	1	06/27/06
2-Hexanone	ND	ug/Kg dry	521	1	06/27/06
4-Chlorotoluene	ND	ug/Kg dry	52.1	1	06/27/06
4-Isopropyltoluene	ND	ug/Kg dry	52.1	1	06/27/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	521	1	06/27/06
Acetone	**892**	ug/Kg dry	521	1	06/27/06
Benzene	ND	ug/Kg dry	52.1	1	06/27/06
Bromobenzene	ND	ug/Kg dry	52.1	1	06/27/06
Bromochloromethane	ND	ug/Kg dry	52.1	1	06/27/06
Bromodichloromethane	ND	ug/Kg dry	52.1	1	06/27/06
Bromoform	ND	ug/Kg dry	52.1	1	06/27/06

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Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2507
Date Sampled: 06/23/06 10:30
Percent Solids: 12
Initial Volume: 4
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-13
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	104	1	06/27/06
Carbon Disulfide	**72.9**	ug/Kg dry	52.1	1	06/27/06
Carbon Tetrachloride	ND	ug/Kg dry	52.1	1	06/27/06
Chlorobenzene	ND	ug/Kg dry	52.1	1	06/27/06
Chloroethane	ND	ug/Kg dry	104	1	06/27/06
Chloroform	ND	ug/Kg dry	52.1	1	06/27/06
Chloromethane	ND	ug/Kg dry	104	1	06/27/06
cis-1,2-Dichloroethene	**560**	ug/Kg dry	52.1	1	06/27/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	52.1	1	06/27/06
Dibromochloromethane	ND	ug/Kg dry	52.1	1	06/27/06
Dibromomethane	ND	ug/Kg dry	52.1	1	06/27/06
Dichlorodifluoromethane	ND	ug/Kg dry	104	1	06/27/06
Diethyl Ether	ND	ug/Kg dry	52.1	1	06/27/06
Di-isopropyl ether	ND	ug/Kg dry	52.1	1	06/27/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	52.1	1	06/27/06
Ethylbenzene	ND	ug/Kg dry	52.1	1	06/27/06
Hexachlorobutadiene	ND	ug/Kg dry	52.1	1	06/27/06
Isopropylbenzene	ND	ug/Kg dry	52.1	1	06/27/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	52.1	1	06/27/06
Methylene Chloride	ND	ug/Kg dry	260	1	06/27/06
Naphthalene	ND	ug/Kg dry	52.1	1	06/27/06
n-Butylbenzene	ND	ug/Kg dry	52.1	1	06/27/06
n-Propylbenzene	ND	ug/Kg dry	52.1	1	06/27/06
sec-Butylbenzene	ND	ug/Kg dry	52.1	1	06/27/06
Styrene	ND	ug/Kg dry	52.1	1	06/27/06
tert-Butylbenzene	ND	ug/Kg dry	52.1	1	06/27/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	52.1	1	06/27/06
Tetrachloroethene	ND	ug/Kg dry	52.1	1	06/27/06
Tetrahydrofuran	ND	ug/Kg dry	52.1	1	06/27/06
Toluene	ND	ug/Kg dry	52.1	1	06/27/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	52.1	1	06/27/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	52.1	1	06/27/06
Trichloroethene	ND	ug/Kg dry	52.1	1	06/27/06
Trichlorofluoromethane	ND	ug/Kg dry	52.1	1	06/27/06
Vinyl Chloride	**591**	ug/Kg dry	104	1	06/27/06
Xylene O	ND	ug/Kg dry	52396	1	06/27/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2507
Date Sampled: 06/23/06 10:30
Percent Solids: 12
Initial Volume: 4
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-13
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	104	1	06/27/06
Xylenes (Total)	ND	ug/Kg dry	156		06/27/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*98 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*94 %*		*70-130*
Surrogate: Dibromofluoromethane	*102 %*		*70-130*
Surrogate: Toluene-d8	*95 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2507D
Date Sampled: 06/23/06 10:35
Percent Solids: 14
Initial Volume: 3.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-14
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	54.1	1	06/27/06
1,1,1-Trichloroethane	ND	ug/Kg dry	54.1	1	06/27/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	54.1	1	06/27/06
1,1,2-Trichloroethane	ND	ug/Kg dry	54.1	1	06/27/06
1,1-Dichloroethane	ND	ug/Kg dry	54.1	1	06/27/06
1,1-Dichloroethene	ND	ug/Kg dry	54.1	1	06/27/06
1,1-Dichloropropene	ND	ug/Kg dry	54.1	1	06/27/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	54.1	1	06/27/06
1,2,3-Trichloropropane	ND	ug/Kg dry	54.1	1	06/27/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	54.1	1	06/27/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	54.1	1	06/27/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	54.1	1	06/27/06
1,2-Dibromoethane	ND	ug/Kg dry	54.1	1	06/27/06
1,2-Dichlorobenzene	ND	ug/Kg dry	54.1	1	06/27/06
1,2-Dichloroethane	ND	ug/Kg dry	54.1	1	06/27/06
1,2-Dichloropropane	ND	ug/Kg dry	54.1	1	06/27/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	54.1	1	06/27/06
1,3-Dichlorobenzene	ND	ug/Kg dry	54.1	1	06/27/06
1,3-Dichloropropane	ND	ug/Kg dry	54.1	1	06/27/06
1,4-Dichlorobenzene	ND	ug/Kg dry	54.1	1	06/27/06
1,4-Dioxane - Screen	ND	ug/Kg dry	2710	1	06/27/06
1-Chlorohexane	ND	ug/Kg dry	54.1	1	06/27/06
2,2-Dichloropropane	ND	ug/Kg dry	54.1	1	06/27/06
2-Butanone	ND	ug/Kg dry	541	1	06/27/06
2-Chlorotoluene	ND	ug/Kg dry	54.1	1	06/27/06
2-Hexanone	ND	ug/Kg dry	541	1	06/27/06
4-Chlorotoluene	ND	ug/Kg dry	54.1	1	06/27/06
4-Isopropyltoluene	ND	ug/Kg dry	54.1	1	06/27/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	541	1	06/27/06
Acetone	**1020**	ug/Kg dry	541	1	06/27/06
Benzene	ND	ug/Kg dry	54.1	1	06/27/06
Bromobenzene	ND	ug/Kg dry	54.1	1	06/27/06
Bromochloromethane	ND	ug/Kg dry	54.1	1	06/27/06
Bromodichloromethane	ND	ug/Kg dry	54.1	1	06/27/06
Bromoform	ND	ug/Kg dry	54.1	1	06/27/06

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2507D
Date Sampled: 06/23/06 10:35
Percent Solids: 14
Initial Volume: 3.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-14
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	108	1	06/27/06
Carbon Disulfide	**140**	ug/Kg dry	54.1	1	06/27/06
Carbon Tetrachloride	ND	ug/Kg dry	54.1	1	06/27/06
Chlorobenzene	ND	ug/Kg dry	54.1	1	06/27/06
Chloroethane	ND	ug/Kg dry	108	1	06/27/06
Chloroform	ND	ug/Kg dry	54.1	1	06/27/06
Chloromethane	ND	ug/Kg dry	108	1	06/27/06
cis-1,2-Dichloroethene	**425**	ug/Kg dry	54.1	1	06/27/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	54.1	1	06/27/06
Dibromochloromethane	ND	ug/Kg dry	54.1	1	06/27/06
Dibromomethane	ND	ug/Kg dry	54.1	1	06/27/06
Dichlorodifluoromethane	ND	ug/Kg dry	108	1	06/27/06
Diethyl Ether	ND	ug/Kg dry	54.1	1	06/27/06
Di-isopropyl ether	ND	ug/Kg dry	54.1	1	06/27/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	54.1	1	06/27/06
Ethylbenzene	ND	ug/Kg dry	54.1	1	06/27/06
Hexachlorobutadiene	ND	ug/Kg dry	54.1	1	06/27/06
Isopropylbenzene	ND	ug/Kg dry	54.1	1	06/27/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	54.1	1	06/27/06
Methylene Chloride	ND	ug/Kg dry	271	1	06/27/06
Naphthalene	ND	ug/Kg dry	54.1	1	06/27/06
n-Butylbenzene	ND	ug/Kg dry	54.1	1	06/27/06
n-Propylbenzene	ND	ug/Kg dry	54.1	1	06/27/06
sec-Butylbenzene	ND	ug/Kg dry	54.1	1	06/27/06
Styrene	ND	ug/Kg dry	54.1	1	06/27/06
tert-Butylbenzene	ND	ug/Kg dry	54.1	1	06/27/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	54.1	1	06/27/06
Tetrachloroethene	ND	ug/Kg dry	54.1	1	06/27/06
Tetrahydrofuran	ND	ug/Kg dry	54.1	1	06/27/06
Toluene	ND	ug/Kg dry	54.1	1	06/27/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	54.1	1	06/27/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	54.1	1	06/27/06
Trichloroethene	ND	ug/Kg dry	54.1	1	06/27/06
Trichlorofluoromethane	ND	ug/Kg dry	54.1	1	06/27/06
Vinyl Chloride	**371**	ug/Kg dry	108	1	06/27/06
Xylene O	ND	ug/Kg dry	54.1	1	06/27/06

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2507D
Date Sampled: 06/23/06 10:35
Percent Solids: 14
Initial Volume: 3.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-14
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	108	1	06/27/06
Xylenes (Total)	ND	ug/Kg dry	162		06/27/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*98 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*94 %*		*70-130*
Surrogate: Dibromofluoromethane	*101 %*		*70-130*
Surrogate: Toluene-d8	*96 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: Rinsate Sed
Date Sampled: 06/23/06 09:50
Percent Solids: N/A
Initial Volume: 10
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-15
Sample Matrix: Aqueous
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	06/29/06
1,1,1-Trichloroethane	ND	ug/L	1.0	1	06/29/06
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	06/29/06
1,1,2-Trichloroethane	ND	ug/L	1.0	1	06/29/06
1,1-Dichloroethane	ND	ug/L	1.0	1	06/29/06
1,1-Dichloroethene	ND	ug/L	1.0	1	06/29/06
1,1-Dichloropropene	ND	ug/L	2.0	1	06/29/06
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	06/29/06
1,2,3-Trichloropropane	ND	ug/L	1.0	1	06/29/06
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	06/29/06
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	06/29/06
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0	1	06/29/06
1,2-Dibromoethane	ND	ug/L	1.0	1	06/29/06
1,2-Dichlorobenzene	ND	ug/L	1.0	1	06/29/06
1,2-Dichloroethane	ND	ug/L	1.0	1	06/29/06
1,2-Dichloropropane	ND	ug/L	1.0	1	06/29/06
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	06/29/06
1,3-Dichlorobenzene	ND	ug/L	1.0	1	06/29/06
1,3-Dichloropropane	ND	ug/L	1.0	1	06/29/06
1,4-Dichlorobenzene	ND	ug/L	1.0	1	06/29/06
1,4-Dioxane - Screen	ND	ug/L	500	1	06/29/06
1-Chlorohexane	ND	ug/L	1.0	1	06/29/06
2,2-Dichloropropane	ND	ug/L	1.0	1	06/29/06
2-Butanone	ND	ug/L	25.0	1	06/29/06
2-Chlorotoluene	ND	ug/L	1.0	1	06/29/06
2-Hexanone	ND	ug/L	10.0	1	06/29/06
4-Chlorotoluene	ND	ug/L	1.0	1	06/29/06
4-Isopropyltoluene	ND	ug/L	1.0	1	06/29/06
4-Methyl-2-Pentanone	ND	ug/L	25.0	1	06/29/06
Acetone	ND	ug/L	25.0	1	06/29/06
Benzene	ND	ug/L	1.0	1	06/29/06
Bromobenzene	ND	ug/L	2.0	1	06/29/06
Bromochloromethane	ND	ug/L	1.0	1	06/29/06
Bromodichloromethane	ND	ug/L	1.0	1	06/29/06
Bromoform	ND	ug/L	1.0	1	06/29/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: Rinsate Sed
Date Sampled: 06/23/06 09:50
Percent Solids: N/A
Initial Volume: 10
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-15
Sample Matrix: Aqueous
Analyst: MD

8260B Volatile Organic Compounds

Bromomethane	ND	ug/L	2.0	1	06/29/06
Carbon Disulfide	ND	ug/L	1.0	1	06/29/06
Carbon Tetrachloride	ND	ug/L	1.0	1	06/29/06
Chlorobenzene	ND	ug/L	1.0	1	06/29/06
Chloroethane	ND	ug/L	2.0	1	06/29/06
Chloroform	ND	ug/L	1.0	1	06/29/06
Chloromethane	ND	ug/L	2.0	1	06/29/06
cis-1,2-Dichloroethene	ND	ug/L	1.0	1	06/29/06
cis-1,3-Dichloropropene	ND	ug/L	0.5	1	06/29/06
Dibromochloromethane	ND	ug/L	1.0	1	06/29/06
Dibromomethane	ND	ug/L	1.0	1	06/29/06
Dichlorodifluoromethane	ND	ug/L	2.0	1	06/29/06
Diethyl Ether	ND	ug/L	1.0	1	06/29/06
Di-isopropyl ether	ND	ug/L	1.0	1	06/29/06
Ethyl tertiary-butyl ether	ND	ug/L	1.0	1	06/29/06
Ethylbenzene	ND	ug/L	1.0	1	06/29/06
Hexachlorobutadiene	ND	ug/L	0.6	1	06/29/06
Isopropylbenzene	ND	ug/L	1.0	1	06/29/06
Methyl tert-Butyl Ether	ND	ug/L	1.0	1	06/29/06
Methylene Chloride	ND	ug/L	5.0	1	06/29/06
Naphthalene	ND	ug/L	1.0	1	06/29/06
n-Butylbenzene	ND	ug/L	1.0	1	06/29/06
n-Propylbenzene	ND	ug/L	1.0	1	06/29/06
sec-Butylbenzene	ND	ug/L	1.0	1	06/29/06
Styrene	ND	ug/L	1.0	1	06/29/06
tert-Butylbenzene	ND	ug/L	1.0	1	06/29/06
Tertiary-amyl methyl ether	ND	ug/L	1.0	1	06/29/06
Tetrachloroethene	ND	ug/L	1.0	1	06/29/06
Tetrahydrofuran	ND	ug/L	5.0	1	06/29/06
Toluene	ND	ug/L	1.0	1	06/29/06
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	06/29/06
trans-1,3-Dichloropropene	ND	ug/L	0.5	1	06/29/06
Trichloroethene	ND	ug/L	1.0	1	06/29/06
Trichlorofluoromethane	ND	ug/L	2.0	1	06/29/06
Vinyl Acetate	ND	ug/L	5.0	1	06/29/06
Vinyl Chloride	ND	ug/L	1.0	1	06/29/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: Rinsate Sed
Date Sampled: 06/23/06 09:50
Percent Solids: N/A
Initial Volume: 10
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-15
Sample Matrix: Aqueous
Analyst: MD

8260B Volatile Organic Compounds

Xylene O	ND	ug/L	1.0	1	06/29/06
Xylene P,M	ND	ug/L	2.0	1	06/29/06
Xylenes (Total)	ND	ug/L	3.0		06/29/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*95 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*98 %*		*70-130*
Surrogate: Dibromofluoromethane	*100 %*		*70-130*
Surrogate: Toluene-d8	*98 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: Trip Blank Soil
Date Sampled: 06/22/06 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-17
Sample Matrix: Solid
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg	5.0	1	06/26/06
1,1,1-Trichloroethane	ND	ug/Kg	5.0	1	06/26/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg	5.0	1	06/26/06
1,1,2-Trichloroethane	ND	ug/Kg	5.0	1	06/26/06
1,1-Dichloroethane	ND	ug/Kg	5.0	1	06/26/06
1,1-Dichloroethene	ND	ug/Kg	5.0	1	06/26/06
1,1-Dichloropropene	ND	ug/Kg	5.0	1	06/26/06
1,2,3-Trichlorobenzene	ND	ug/Kg	5.0	1	06/26/06
1,2,3-Trichloropropane	ND	ug/Kg	5.0	1	06/26/06
1,2,4-Trichlorobenzene	ND	ug/Kg	5.0	1	06/26/06
1,2,4-Trimethylbenzene	ND	ug/Kg	5.0	1	06/26/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg	5.0	1	06/26/06
1,2-Dibromoethane	ND	ug/Kg	5.0	1	06/26/06
1,2-Dichlorobenzene	ND	ug/Kg	5.0	1	06/26/06
1,2-Dichloroethane	ND	ug/Kg	5.0	1	06/26/06
1,2-Dichloropropane	ND	ug/Kg	5.0	1	06/26/06
1,3,5-Trimethylbenzene	ND	ug/Kg	5.0	1	06/26/06
1,3-Dichlorobenzene	ND	ug/Kg	5.0	1	06/26/06
1,3-Dichloropropane	ND	ug/Kg	5.0	1	06/26/06
1,4-Dichlorobenzene	ND	ug/Kg	5.0	1	06/26/06
1,4-Dioxane - Screen	ND	ug/Kg	250	1	06/26/06
1-Chlorohexane	ND	ug/Kg	5.0	1	06/26/06
2,2-Dichloropropane	ND	ug/Kg	5.0	1	06/26/06
2-Butanone	ND	ug/Kg	50.0	1	06/26/06
2-Chlorotoluene	ND	ug/Kg	5.0	1	06/26/06
2-Hexanone	ND	ug/Kg	50.0	1	06/26/06
4-Chlorotoluene	ND	ug/Kg	5.0	1	06/26/06
4-Isopropyltoluene	ND	ug/Kg	5.0	1	06/26/06
4-Methyl-2-Pentanone	ND	ug/Kg	50.0	1	06/26/06
Acetone	ND	ug/Kg	50.0	1	06/26/06
Benzene	ND	ug/Kg	5.0	1	06/26/06
Bromobenzene	ND	ug/Kg	5.0	1	06/26/06
Bromochloromethane	ND	ug/Kg	5.0	1	06/26/06
Bromodichloromethane	ND	ug/Kg	5.0	1	06/26/06
Bromoform	ND	ug/Kg	5.0	1	06/26/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: Trip Blank Soil
Date Sampled: 06/22/06 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-17
Sample Matrix: Solid
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg	10.0	1	06/26/06
Carbon Disulfide	ND	ug/Kg	5.0	1	06/26/06
Carbon Tetrachloride	ND	ug/Kg	5.0	1	06/26/06
Chlorobenzene	ND	ug/Kg	5.0	1	06/26/06
Chloroethane	ND	ug/Kg	10.0	1	06/26/06
Chloroform	ND	ug/Kg	5.0	1	06/26/06
Chloromethane	ND	ug/Kg	10.0	1	06/26/06
cis-1,2-Dichloroethene	ND	ug/Kg	5.0	1	06/26/06
cis-1,3-Dichloropropene	ND	ug/Kg	5.0	1	06/26/06
Dibromochloromethane	ND	ug/Kg	5.0	1	06/26/06
Dibromomethane	ND	ug/Kg	5.0	1	06/26/06
Dichlorodifluoromethane	ND	ug/Kg	10.0	1	06/26/06
Diethyl Ether	ND	ug/Kg	5.0	1	06/26/06
Di-isopropyl ether	ND	ug/Kg	5.0	1	06/26/06
Ethyl tertiary-butyl ether	ND	ug/Kg	5.0	1	06/26/06
Ethylbenzene	ND	ug/Kg	5.0	1	06/26/06
Hexachlorobutadiene	ND	ug/Kg	5.0	1	06/26/06
Isopropylbenzene	ND	ug/Kg	5.0	1	06/26/06
Methyl tert-Butyl Ether	ND	ug/Kg	5.0	1	06/26/06
Methylene Chloride	ND	ug/Kg	25.0	1	06/26/06
Naphthalene	ND	ug/Kg	5.0	1	06/26/06
n-Butylbenzene	ND	ug/Kg	5.0	1	06/26/06
n-Propylbenzene	ND	ug/Kg	5.0	1	06/26/06
sec-Butylbenzene	ND	ug/Kg	5.0	1	06/26/06
Styrene	ND	ug/Kg	5.0	1	06/26/06
tert-Butylbenzene	ND	ug/Kg	5.0	1	06/26/06
Tertiary-amyl methyl ether	ND	ug/Kg	5.0	1	06/26/06
Tetrachloroethene	ND	ug/Kg	5.0	1	06/26/06
Tetrahydrofuran	ND	ug/Kg	5.0	1	06/26/06
Toluene	ND	ug/Kg	5.0	1	06/26/06
trans-1,2-Dichloroethene	ND	ug/Kg	5.0	1	06/26/06
trans-1,3-Dichloropropene	ND	ug/Kg	5.0	1	06/26/06
Trichloroethene	ND	ug/Kg	5.0	1	06/26/06
Trichlorofluoromethane	ND	ug/Kg	5.0	1	06/26/06
Vinyl Chloride	ND	ug/Kg	10.0	1	06/26/06
Xylene O	ND	ug/Kg	5.0	1	06/26/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: Trip Blank Soil
Date Sampled: 06/22/06 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-17
Sample Matrix: Solid
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg	10.0	1	06/26/06
Xylenes (Total)	ND	ug/Kg	7.5		06/26/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*96 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*95 %*		*70-130*
Surrogate: Dibromofluoromethane	*101 %*		*70-130*
Surrogate: Toluene-d8	*94 %*		*70-130*

Volatile Organics Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch BF62618 - 7471A										
LCS Dup										
Mercury	0.201	0.033	mg/kg wet	0.200		100	80-120	1	20	
Duplicate **Source: 0606383-11**										
Mercury	ND	0.260	mg/kg dry		ND				35	
Duplicate **Source: 0606383-13**										
Mercury	ND	0.264	mg/kg dry		ND				35	
Matrix Spike **Source: 0606383-11**										
Mercury	0.149	0.264	mg/kg dry	1.59	ND	9	75-125			+
Matrix Spike **Source: 0606383-13**										
Mercury	0.172	0.273	mg/kg dry	1.64	ND	10	75-125			+
Matrix Spike Dup **Source: 0606383-11**										
Mercury	0.272	0.273	mg/kg dry	1.64	ND	17	75-125	62	35	+
Matrix Spike Dup **Source: 0606383-13**										
Mercury	0.158	0.278	mg/kg dry	1.67	ND	9	75-125	11	35	+
Reference										
Mercury	1.72	0.333	mg/kg wet	1.77		97	68.36-132.2			
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62614 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,1-Trichloroethane	ND	5.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethene	ND	5.0	ug/Kg wet							
1,1-Dichloropropene	ND	5.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	5.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg wet							
1,2-Dibromoethane	ND	5.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,2-Dichloroethane	ND	5.0	ug/Kg wet							
1,2-Dichloropropane	ND	5.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,3-Dichloropropane	ND	5.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	250	ug/Kg wet							
1-Chlorohexane	ND	5.0	ug/Kg wet							
2,2-Dichloropropane	ND	5.0	ug/Kg wet							
2-Butanone	ND	50.0	ug/Kg wet							
2-Chlorotoluene	ND	5.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62614 - 5035										
2-Hexanone	ND	50.0	ug/Kg wet							
4-Chlorotoluene	ND	5.0	ug/Kg wet							
4-Isopropyltoluene	ND	5.0	ug/Kg wet							
4-Methyl-2-Pentanone	ND	50.0	ug/Kg wet							
Acetone	ND	50.0	ug/Kg wet							
Benzene	ND	5.0	ug/Kg wet							
Bromobenzene	ND	5.0	ug/Kg wet							
Bromochloromethane	ND	5.0	ug/Kg wet							
Bromodichloromethane	ND	5.0	ug/Kg wet							
Bromoform	ND	5.0	ug/Kg wet							
Bromomethane	ND	10.0	ug/Kg wet							
Carbon Disulfide	ND	5.0	ug/Kg wet							
Carbon Tetrachloride	ND	5.0	ug/Kg wet							
Chlorobenzene	ND	5.0	ug/Kg wet							
Chloroethane	ND	10.0	ug/Kg wet							
Chloroform	ND	5.0	ug/Kg wet							
Chloromethane	ND	10.0	ug/Kg wet							
cis-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Dibromochloromethane	ND	5.0	ug/Kg wet							
Dibromomethane	ND	5.0	ug/Kg wet							
Dichlorodifluoromethane	ND	10.0	ug/Kg wet							
Diethyl Ether	ND	5.0	ug/Kg wet							
Di-isopropyl ether	ND	5.0	ug/Kg wet							
Ethyl tertiary-butyl ether	ND	5.0	ug/Kg wet							
Ethylbenzene	ND	5.0	ug/Kg wet							
Hexachlorobutadiene	ND	5.0	ug/Kg wet							
Isopropylbenzene	ND	5.0	ug/Kg wet							
Methyl tert-Butyl Ether	ND	5.0	ug/Kg wet							
Methylene Chloride	ND	25.0	ug/Kg wet							
Naphthalene	ND	5.0	ug/Kg wet							
n-Butylbenzene	ND	5.0	ug/Kg wet							
n-Propylbenzene	ND	5.0	ug/Kg wet							
sec-Butylbenzene	ND	5.0	ug/Kg wet							
Styrene	ND	5.0	ug/Kg wet							
tert-Butylbenzene	ND	5.0	ug/Kg wet							
Tertiary-amyl methyl ether	ND	5.0	ug/Kg wet							
Tetrachloroethene	ND	5.0	ug/Kg wet							
Tetrahydrofuran	ND	5.0	ug/Kg wet							
Toluene	ND	5.0	ug/Kg wet							
trans-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
trans-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Trichloroethene	ND	5.0	ug/Kg wet							
Trichlorofluoromethane	ND	5.0	ug/Kg wet							
Vinyl Chloride	ND	10.0	ug/Kg wet							
Xylene O	ND	5.0	ug/Kg wet							
Xylene P,M	ND	10.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62614 - 5035										
Surrogate: 1,2-Dichloroethane-d4	*23.5*		ug/L	*25.0*		*94*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.9*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*24.7*		ug/L	*25.0*		*99*	*70-130*			
Surrogate: Toluene-d8	*23.4*		ug/L	*25.0*		*94*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	23.8		ug/L	25.0		95	70-130			
1,1,1-Trichloroethane	25.2		ug/L	25.0		101	70-130			
1,1,2,2-Tetrachloroethane	23.7		ug/L	25.0		95	70-130			
1,1,2-Trichloroethane	24.3		ug/L	25.0		97	70-130			
1,1-Dichloroethane	24.2		ug/L	25.0		97	70-130			
1,1-Dichloroethene	25.7		ug/L	25.0		103	70-130			
1,1-Dichloropropene	24.3		ug/L	25.0		97	70-130			
1,2,3-Trichlorobenzene	26.4		ug/L	25.0		106	70-130			
1,2,3-Trichloropropane	21.9		ug/L	25.0		88	70-130			
1,2,4-Trichlorobenzene	24.7		ug/L	25.0		99	70-130			
1,2,4-Trimethylbenzene	24.5		ug/L	25.0		98	70-130			
1,2-Dibromo-3-Chloropropane	24.6		ug/L	25.0		98	70-130			
1,2-Dibromoethane	24.0		ug/L	25.0		96	70-130			
1,2-Dichlorobenzene	24.0		ug/L	25.0		96	70-130			
1,2-Dichloroethane	24.8		ug/L	25.0		99	70-130			
1,2-Dichloropropane	23.0		ug/L	25.0		92	70-130			
1,3,5-Trimethylbenzene	24.3		ug/L	25.0		97	70-130			
1,3-Dichlorobenzene	23.8		ug/L	25.0		95	70-130			
1,3-Dichloropropane	23.6		ug/L	25.0		94	70-130			
1,4-Dichlorobenzene	23.4		ug/L	25.0		94	70-130			
1,4-Dioxane - Screen	481		ug/L	500		96	70-130			
1-Chlorohexane	23.9		ug/L	25.0		96	70-130			
2,2-Dichloropropane	25.6		ug/L	25.0		102	70-130			
2-Butanone	117		ug/L	125		94	70-130			
2-Chlorotoluene	24.9		ug/L	25.0		100	70-130			
2-Hexanone	112		ug/L	125		90	70-130			
4-Chlorotoluene	23.9		ug/L	25.0		96	70-130			
4-Isopropyltoluene	24.2		ug/L	25.0		97	70-130			
4-Methyl-2-Pentanone	111		ug/L	125		89	70-130			
Acetone	108		ug/L	125		86	70-130			
Benzene	24.2		ug/L	25.0		97	70-130			
Bromobenzene	25.3		ug/L	25.0		101	70-130			
Bromochloromethane	26.1		ug/L	25.0		104	70-130			
Bromodichloromethane	26.6		ug/L	25.0		106	70-130			
Bromoform	25.3		ug/L	25.0		101	70-130			
Bromomethane	19.4		ug/L	25.0		78	70-130			
Carbon Disulfide	24.5		ug/L	25.0		98	70-130			
Carbon Tetrachloride	25.2		ug/L	25.0		101	70-130			
Chlorobenzene	24.1		ug/L	25.0		96	70-130			
Chloroethane	16.8		ug/L	25.0		67	70-130			
Chloroform	25.3		ug/L	25.0		101	70-130			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62614 - 5035										
Chloromethane	23.7		ug/L	25.0		95	70-130			
cis-1,2-Dichloroethene	26.3		ug/L	25.0		105	70-130			
cis-1,3-Dichloropropene	24.1		ug/L	25.0		96	70-130			
Dibromochloromethane	24.8		ug/L	25.0		99	70-130			
Dibromomethane	25.7		ug/L	25.0		103	70-130			
Dichlorodifluoromethane	24.8		ug/L	25.0		99	70-130			
Diethyl Ether	24.3		ug/L	25.0		97	70-130			
Di-isopropyl ether	23.5		ug/L	25.0		94	70-130			
Ethyl tertiary-butyl ether	23.5		ug/L	25.0		94	70-130			
Ethylbenzene	24.8		ug/L	25.0		99	70-130			
Hexachlorobutadiene	25.9		ug/L	25.0		104	70-130			
Isopropylbenzene	22.3		ug/L	25.0		89	70-130			
Methyl tert-Butyl Ether	23.7		ug/L	25.0		95	70-130			
Methylene Chloride	24.9		ug/L	25.0		100	70-130			
Naphthalene	24.9		ug/L	25.0		100	70-130			
n-Butylbenzene	24.6		ug/L	25.0		98	70-130			
n-Propylbenzene	23.8		ug/L	25.0		95	70-130			
sec-Butylbenzene	24.1		ug/L	25.0		96	70-130			
Styrene	24.6		ug/L	25.0		98	70-130			
tert-Butylbenzene	24.2		ug/L	25.0		97	70-130			
Tertiary-amyl methyl ether	24.6		ug/L	25.0		98	70-130			
Tetrachloroethene	24.9		ug/L	25.0		100	70-130			
Tetrahydrofuran	22.6		ug/L	25.0		90	70-130			
Toluene	24.9		ug/L	25.0		100	70-130			
trans-1,2-Dichloroethene	25.1		ug/L	25.0		100	70-130			
trans-1,3-Dichloropropene	22.6		ug/L	25.0		90	70-130			
Trichloroethene	24.6		ug/L	25.0		98	70-130			
Trichlorofluoromethane	24.9		ug/L	25.0		100	70-130			
Vinyl Chloride	24.8		ug/L	25.0		99	70-130			
Xylene O	24.2		ug/L	25.0		97	70-130			
Xylene P,M	49.0		ug/L	50.0		98	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.6*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.5*		ug/L	*25.0*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*24.2*		ug/L	*25.0*		*97*	*70-130*			
Surrogate: Toluene-d8	*23.0*		ug/L	*25.0*		*92*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	24.1		ug/L	25.0		96	70-130	1	20	
1,1,1-Trichloroethane	25.1		ug/L	25.0		100	70-130	1	20	
1,1,2,2-Tetrachloroethane	24.1		ug/L	25.0		96	70-130	1	20	
1,1,2-Trichloroethane	24.4		ug/L	25.0		98	70-130	1	20	
1,1-Dichloroethane	24.1		ug/L	25.0		96	70-130	1	20	
1,1-Dichloroethene	26.6		ug/L	25.0		106	70-130	3	20	
1,1-Dichloropropene	24.2		ug/L	25.0		97	70-130	0	20	
1,2,3-Trichlorobenzene	26.9		ug/L	25.0		108	70-130	2	20	
1,2,3-Trichloropropane	24.0		ug/L	25.0		96	70-130	9	20	
1,2,4-Trichlorobenzene	24.7		ug/L	25.0		99	70-130	0	20	
1,2,4-Trimethylbenzene	24.4		ug/L	25.0		98	70-130	0	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62614 - 5035										
1,2-Dibromo-3-Chloropropane	24.7		ug/L	25.0		99	70-130	1	20	
1,2-Dibromoethane	24.3		ug/L	25.0		97	70-130	1	20	
1,2-Dichlorobenzene	24.2		ug/L	25.0		97	70-130	1	20	
1,2-Dichloroethane	24.8		ug/L	25.0		99	70-130	0	20	
1,2-Dichloropropane	23.2		ug/L	25.0		93	70-130	1	20	
1,3,5-Trimethylbenzene	24.2		ug/L	25.0		97	70-130	0	20	
1,3-Dichlorobenzene	23.6		ug/L	25.0		94	70-130	1	20	
1,3-Dichloropropane	24.0		ug/L	25.0		96	70-130	2	20	
1,4-Dichlorobenzene	23.5		ug/L	25.0		94	70-130	0	20	
1,4-Dioxane - Screen	498		ug/L	500		100	70-130	4	20	
1-Chlorohexane	23.8		ug/L	25.0		95	70-130	1	20	
2,2-Dichloropropane	25.4		ug/L	25.0		102	70-130	0	20	
2-Butanone	119		ug/L	125		95	70-130	1	20	
2-Chlorotoluene	26.0		ug/L	25.0		104	70-130	4	20	
2-Hexanone	117		ug/L	125		94	70-130	4	20	
4-Chlorotoluene	23.9		ug/L	25.0		96	70-130	0	20	
4-Isopropyltoluene	24.1		ug/L	25.0		96	70-130	1	20	
4-Methyl-2-Pentanone	115		ug/L	125		92	70-130	3	20	
Acetone	109		ug/L	125		87	70-130	1	20	
Benzene	24.3		ug/L	25.0		97	70-130	0	20	
Bromobenzene	25.5		ug/L	25.0		102	70-130	1	20	
Bromochloromethane	26.2		ug/L	25.0		105	70-130	1	20	
Bromodichloromethane	26.7		ug/L	25.0		107	70-130	0.9	20	
Bromoform	25.8		ug/L	25.0		103	70-130	2	20	
Bromomethane	19.0		ug/L	25.0		76	70-130	3	20	
Carbon Disulfide	24.1		ug/L	25.0		96	70-130	2	20	
Carbon Tetrachloride	25.1		ug/L	25.0		100	70-130	1	20	
Chlorobenzene	24.3		ug/L	25.0		97	70-130	1	20	
Chloroethane	15.4		ug/L	25.0		62	70-130	8	20	+
Chloroform	25.4		ug/L	25.0		102	70-130	1	20	
Chloromethane	23.6		ug/L	25.0		94	70-130	1	20	
cis-1,2-Dichloroethene	26.5		ug/L	25.0		106	70-130	0.9	20	
cis-1,3-Dichloropropene	24.2		ug/L	25.0		97	70-130	1	20	
Dibromochloromethane	25.3		ug/L	25.0		101	70-130	2	20	
Dibromomethane	25.9		ug/L	25.0		104	70-130	1	20	
Dichlorodifluoromethane	24.5		ug/L	25.0		98	70-130	1	20	
Diethyl Ether	24.4		ug/L	25.0		98	70-130	1	20	
Di-isopropyl ether	23.6		ug/L	25.0		94	70-130	0	20	
Ethyl tertiary-butyl ether	23.7		ug/L	25.0		95	70-130	1	20	
Ethylbenzene	25.1		ug/L	25.0		100	70-130	1	20	
Hexachlorobutadiene	25.8		ug/L	25.0		103	70-130	1	20	
Isopropylbenzene	22.1		ug/L	25.0		88	70-130	1	20	
Methyl tert-Butyl Ether	26.4		ug/L	25.0		106	70-130	11	20	
Methylene Chloride	24.8		ug/L	25.0		99	70-130	1	20	
Naphthalene	25.6		ug/L	25.0		102	70-130	2	20	
n-Butylbenzene	24.3		ug/L	25.0		97	70-130	1	20	
n-Propylbenzene	23.2		ug/L	25.0		93	70-130	2	20	

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62614 - 5035										
sec-Butylbenzene	24.0		ug/L	25.0		96	70-130	0	20	
Styrene	24.8		ug/L	25.0		99	70-130	1	20	
tert-Butylbenzene	24.3		ug/L	25.0		97	70-130	0	20	
Tertiary-amyl methyl ether	24.8		ug/L	25.0		99	70-130	1	20	
Tetrachloroethene	24.9		ug/L	25.0		100	70-130	0	20	
Tetrahydrofuran	23.3		ug/L	25.0		93	70-130	3	20	
Toluene	24.7		ug/L	25.0		99	70-130	1	20	
trans-1,2-Dichloroethene	25.7		ug/L	25.0		103	70-130	3	20	
trans-1,3-Dichloropropene	22.8		ug/L	25.0		91	70-130	1	20	
Trichloroethene	24.8		ug/L	25.0		99	70-130	1	20	
Trichlorofluoromethane	24.8		ug/L	25.0		99	70-130	1	20	
Vinyl Chloride	24.7		ug/L	25.0		99	70-130	0	20	
Xylene O	24.4		ug/L	25.0		98	70-130	1	20	
Xylene P,M	49.1		ug/L	50.0		98	70-130	0	20	
Surrogate: 1,2-Dichloroethane-d4	*24.5*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.6*		ug/L	*25.0*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*24.1*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Toluene-d8	*23.1*		ug/L	*25.0*		*92*	*70-130*			
Matrix Spike **Source: 0606383-11**										
1,1,1,2-Tetrachloroethane	14.1		ug/L	25.0	ND	56	70-130			+
1,1,1-Trichloroethane	17.9		ug/L	25.0	ND	72	70-130			
1,1,2,2-Tetrachloroethane	15.6		ug/L	25.0	ND	62	70-130			+
1,1,2-Trichloroethane	16.9		ug/L	25.0	ND	68	70-130			+
1,1-Dichloroethane	20.4		ug/L	25.0	3.06	69	70-130			+
1,1-Dichloroethene	20.1		ug/L	25.0	ND	80	70-130			
1,1-Dichloropropene	15.7		ug/L	25.0	ND	63	70-130			+
1,2,3-Trichlorobenzene	3.4		ug/L	25.0	ND	14	70-130			+
1,2,3-Trichloropropane	15.5		ug/L	25.0	ND	62	70-130			+
1,2,4-Trichlorobenzene	3.8		ug/L	25.0	ND	15	70-130			+
1,2,4-Trimethylbenzene	10.2		ug/L	25.0	ND	41	70-130			+
1,2-Dibromo-3-Chloropropane	11.9		ug/L	25.0	ND	48	70-130			+
1,2-Dibromoethane	16.6		ug/L	25.0	ND	66	70-130			+
1,2-Dichlorobenzene	7.9		ug/L	25.0	0.246	31	70-130			+
1,2-Dichloroethane	18.9		ug/L	25.0	ND	76	70-130			
1,2-Dichloropropane	16.7		ug/L	25.0	ND	67	70-130			+
1,3,5-Trimethylbenzene	10.4		ug/L	25.0	ND	42	70-130			+
1,3-Dichlorobenzene	7.8		ug/L	25.0	ND	31	70-130			+
1,3-Dichloropropane	17.3		ug/L	25.0	ND	69	70-130			+
1,4-Dichlorobenzene	8.0		ug/L	25.0	ND	32	70-130			+
1,4-Dioxane - Screen	362		ug/L	500	ND	72	70-130			
1-Chlorohexane	10.6		ug/L	25.0	ND	42	70-130			+
2,2-Dichloropropane	18.8		ug/L	25.0	ND	75	70-130			
2-Butanone	132		ug/L	125	26.5	84	70-130			
2-Chlorotoluene	11.2		ug/L	25.0	ND	45	70-130			+
2-Hexanone	96.5		ug/L	125	ND	77	70-130			
4-Chlorotoluene	9.6		ug/L	25.0	ND	38	70-130			+
4-Isopropyltoluene	8.7		ug/L	25.0	ND	35	70-130			+

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62614 - 5035										
4-Methyl-2-Pentanone	95.0		ug/L	125	ND	76	70-130			
Acetone	196		ug/L	125	101	76	70-130			
Benzene	17.6		ug/L	25.0	0.567	68	70-130			+
Bromobenzene	11.8		ug/L	25.0	ND	47	70-130			+
Bromochloromethane	20.0		ug/L	25.0	ND	80	70-130			
Bromodichloromethane	18.4		ug/L	25.0	ND	74	70-130			
Bromoform	13.7		ug/L	25.0	ND	55	70-130			+
Bromomethane	20.0		ug/L	25.0	ND	80	70-130			
Carbon Disulfide	17.0		ug/L	25.0	1.75	61	70-130			+
Carbon Tetrachloride	15.7		ug/L	25.0	ND	63	70-130			+
Chlorobenzene	12.4		ug/L	25.0	ND	50	70-130			+
Chloroethane	26.3		ug/L	25.0	ND	105	70-130			
Chloroform	18.9		ug/L	25.0	ND	76	70-130			
Chloromethane	19.8		ug/L	25.0	ND	79	70-130			
cis-1,2-Dichloroethene	24.8		ug/L	25.0	4.93	79	70-130			
cis-1,3-Dichloropropene	14.4		ug/L	25.0	ND	58	70-130			+
Dibromochloromethane	15.8		ug/L	25.0	ND	63	70-130			+
Dibromomethane	18.3		ug/L	25.0	ND	73	70-130			
Dichlorodifluoromethane	20.3		ug/L	25.0	ND	81	70-130			
Diethyl Ether	20.8		ug/L	25.0	ND	83	70-130			
Di-isopropyl ether	19.5		ug/L	25.0	ND	78	70-130			
Ethyl tertiary-butyl ether	19.9		ug/L	25.0	ND	80	70-130			
Ethylbenzene	13.3		ug/L	25.0	0.246	52	70-130			+
Hexachlorobutadiene	4.3		ug/L	25.0	ND	17	70-130			+
Isopropylbenzene	13.2		ug/L	25.0	4.43	35	70-130			+
Methyl tert-Butyl Ether	23.7		ug/L	25.0	0.440	93	70-130			
Methylene Chloride	19.8		ug/L	25.0	-0.799	82	70-130			
Naphthalene	3.8		ug/L	25.0	0.284	14	70-130			+
n-Butylbenzene	7.4		ug/L	25.0	0.769	27	70-130			+
n-Propylbenzene	10.7		ug/L	25.0	0.918	39	70-130			+
sec-Butylbenzene	10.4		ug/L	25.0	3.38	28	70-130			+
Styrene	4.9		ug/L	25.0	ND	20	70-130			+
tert-Butylbenzene	10.8		ug/L	25.0	0.575	41	70-130			+
Tertiary-amyl methyl ether	20.3		ug/L	25.0	ND	81	70-130			
Tetrachloroethene	13.0		ug/L	25.0	0.478	50	70-130			+
Tetrahydrofuran	20.8		ug/L	25.0	ND	83	70-130			
Toluene	15.0		ug/L	25.0	0.321	59	70-130			+
trans-1,2-Dichloroethene	20.5		ug/L	25.0	0.560	80	70-130			
trans-1,3-Dichloropropene	13.2		ug/L	25.0	ND	53	70-130			+
Trichloroethene	16.3		ug/L	25.0	1.88	58	70-130			+
Trichlorofluoromethane	18.6		ug/L	25.0	ND	74	70-130			
Vinyl Chloride	47.4		ug/L	25.0	54.6	NR	70-130			+
Xylene O	12.4		ug/L	25.0	0.321	48	70-130			+
Xylene P,M	24.9		ug/L	50.0	0.530	49	70-130			+
Surrogate: 1,2-Dichloroethane-d4	*25.1*		ug/L	*25.0*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.8*		ug/L	*25.0*		*95*	*70-130*			
Surrogate: Dibromofluoromethane	*24.7*		ug/L	*25.0*		*99*	*70-130*			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62614 - 5035										
Surrogate: Toluene-d8	*24.9*		ug/L	*25.0*		*100*	*70-130*			
Matrix Spike Dup Source: 0606383-11										
1,1,1,2-Tetrachloroethane	16.7		ug/L	25.0	ND	67	70-130	18	20	+
1,1,1-Trichloroethane	21.5		ug/L	25.0	ND	86	70-130	18	20	
1,1,2,2-Tetrachloroethane	17.9		ug/L	25.0	ND	72	70-130	15	20	
1,1,2-Trichloroethane	18.8		ug/L	25.0	ND	75	70-130	10	20	
1,1-Dichloroethane	22.5		ug/L	25.0	3.06	78	70-130	12	20	
1,1-Dichloroethene	22.6		ug/L	25.0	ND	90	70-130	12	20	
1,1-Dichloropropene	19.5		ug/L	25.0	ND	78	70-130	21	20	+
1,2,3-Trichlorobenzene	4.5		ug/L	25.0	ND	18	70-130	25	20	+
1,2,3-Trichloropropane	18.0		ug/L	25.0	ND	72	70-130	15	20	
1,2,4-Trichlorobenzene	5.0		ug/L	25.0	ND	20	70-130	29	20	+
1,2,4-Trimethylbenzene	13.4		ug/L	25.0	ND	54	70-130	27	20	+
1,2-Dibromo-3-Chloropropane	14.0		ug/L	25.0	ND	56	70-130	15	20	+
1,2-Dibromoethane	18.2		ug/L	25.0	ND	73	70-130	10	20	
1,2-Dichlorobenzene	9.7		ug/L	25.0	0.246	38	70-130	20	20	+
1,2-Dichloroethane	20.9		ug/L	25.0	ND	84	70-130	10	20	
1,2-Dichloropropane	19.0		ug/L	25.0	ND	76	70-130	13	20	
1,3,5-Trimethylbenzene	13.9		ug/L	25.0	ND	56	70-130	29	20	+
1,3-Dichlorobenzene	9.9		ug/L	25.0	ND	40	70-130	25	20	+
1,3-Dichloropropane	19.1		ug/L	25.0	ND	76	70-130	10	20	
1,4-Dichlorobenzene	9.7		ug/L	25.0	ND	39	70-130	20	20	+
1,4-Dioxane - Screen	368		ug/L	500	ND	74	70-130	3	20	
1-Chlorohexane	15.4		ug/L	25.0	ND	62	70-130	38	20	+
2,2-Dichloropropane	22.2		ug/L	25.0	ND	89	70-130	17	20	
2-Butanone	149		ug/L	125	26.5	98	70-130	15	20	
2-Chlorotoluene	14.9		ug/L	25.0	ND	60	70-130	29	20	+
2-Hexanone	109		ug/L	125	ND	87	70-130	12	20	
4-Chlorotoluene	12.5		ug/L	25.0	ND	50	70-130	27	20	+
4-Isopropyltoluene	12.5		ug/L	25.0	ND	50	70-130	35	20	+
4-Methyl-2-Pentanone	106		ug/L	125	ND	85	70-130	11	20	
Acetone	220		ug/L	125	101	95	70-130	22	20	+
Benzene	20.2		ug/L	25.0	0.567	79	70-130	15	20	
Bromobenzene	14.5		ug/L	25.0	ND	58	70-130	21	20	+
Bromochloromethane	21.9		ug/L	25.0	ND	88	70-130	10	20	
Bromodichloromethane	20.8		ug/L	25.0	ND	83	70-130	11	20	
Bromoform	15.3		ug/L	25.0	ND	61	70-130	10	20	+
Bromomethane	22.5		ug/L	25.0	ND	90	70-130	12	20	
Carbon Disulfide	21.1		ug/L	25.0	1.75	77	70-130	23	20	+
Carbon Tetrachloride	20.2		ug/L	25.0	ND	81	70-130	25	20	+
Chlorobenzene	14.9		ug/L	25.0	ND	60	70-130	18	20	+
Chloroethane	27.9		ug/L	25.0	ND	112	70-130	6	20	
Chloroform	21.3		ug/L	25.0	ND	85	70-130	11	20	
Chloromethane	21.8		ug/L	25.0	ND	87	70-130	10	20	
cis-1,2-Dichloroethene	26.8		ug/L	25.0	4.93	87	70-130	10	20	
cis-1,3-Dichloropropene	16.4		ug/L	25.0	ND	66	70-130	13	20	+

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 06O6383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62614 - 5035										
Dibromochloromethane	17.8		ug/L	25.0	ND	71	70-130	12	20	
Dibromomethane	20.3		ug/L	25.0	ND	81	70-130	10	20	
Dichlorodifluoromethane	22.8		ug/L	25.0	ND	91	70-130	12	20	
Diethyl Ether	22.4		ug/L	25.0	ND	90	70-130	8	20	
Di-isopropyl ether	21.4		ug/L	25.0	ND	86	70-130	10	20	
Ethyl tertiary-butyl ether	21.6		ug/L	25.0	ND	86	70-130	7	20	
Ethylbenzene	16.7		ug/L	25.0	0.246	66	70-130	24	20	+
Hexachlorobutadiene	6.8		ug/L	25.0	ND	27	70-130	45	20	+
Isopropylbenzene	17.7		ug/L	25.0	4.43	53	70-130	41	20	+
Methyl tert-Butyl Ether	25.8		ug/L	25.0	0.440	101	70-130	8	20	
Methylene Chloride	21.7		ug/L	25.0	-0.799	90	70-130	9	20	
Naphthalene	4.7		ug/L	25.0	0.284	18	70-130	25	20	+
n-Butylbenzene	10.9		ug/L	25.0	0.769	41	70-130	41	20	+
n-Propylbenzene	16.1		ug/L	25.0	0.918	61	70-130	44	20	+
sec-Butylbenzene	14.8		ug/L	25.0	3.38	46	70-130	49	20	+
Styrene	5.6		ug/L	25.0	ND	22	70-130	10	20	+
tert-Butylbenzene	14.8		ug/L	25.0	0.575	57	70-130	33	20	+
Tertiary-amyl methyl ether	22.2		ug/L	25.0	ND	89	70-130	9	20	+
Tetrachloroethene	17.3		ug/L	25.0	0.478	67	70-130	29	20	+
Tetrahydrofuran	23.1		ug/L	25.0	ND	92	70-130	10	20	
Toluene	18.2		ug/L	25.0	0.321	72	70-130	20	20	
trans-1,2-Dichloroethene	24.0		ug/L	25.0	0.560	94	70-130	16	20	
trans-1,3-Dichloropropene	14.7		ug/L	25.0	ND	59	70-130	11	20	+
Trichloroethene	19.2		ug/L	25.0	1.88	69	70-130	17	20	+
Trichlorofluoromethane	22.3		ug/L	25.0	ND	89	70-130	18	20	
Vinyl Chloride	44.5		ug/L	25.0	54.6	NR	70-130	32	20	+
Xylene O	15.2		ug/L	25.0	0.321	60	70-130	22	20	+
Xylene P,M	30.7		ug/L	50.0	0.530	60	70-130	20	20	+
Surrogate: 1,2-Dichloroethane-d4	*25.6*		ug/L	*25.0*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.8*		ug/L	*25.0*		*95*	*70-130*			
Surrogate: Dibromofluoromethane	*25.1*		ug/L	*25.0*		*100*	*70-130*			
Surrogate: Toluene-d8	*25.1*		ug/L	*25.0*		*100*	*70-130*			
Batch BF62615 - 5030B										
Blank										
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,1-Trichloroethane	ND	5.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethene	ND	5.0	ug/Kg wet							
1,1-Dichloropropene	ND	5.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	5.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62615 - 5030B										
1,2-Dibromoethane	ND	5.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,2-Dichloroethane	ND	5.0	ug/Kg wet							
1,2-Dichloropropane	ND	5.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,3-Dichloropropane	ND	5.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	250	ug/Kg wet							
1-Chlorohexane	ND	5.0	ug/Kg wet							
2,2-Dichloropropane	ND	5.0	ug/Kg wet							
2-Butanone	ND	50.0	ug/Kg wet							
2-Chlorotoluene	ND	5.0	ug/Kg wet							
2-Hexanone	ND	50.0	ug/Kg wet							
4-Chlorotoluene	ND	5.0	ug/Kg wet							
4-Isopropyltoluene	ND	5.0	ug/Kg wet							
4-Methyl-2-Pentanone	ND	50.0	ug/Kg wet							
Acetone	ND	50.0	ug/Kg wet							
Benzene	ND	5.0	ug/Kg wet							
Bromobenzene	ND	5.0	ug/Kg wet							
Bromochloromethane	ND	5.0	ug/Kg wet							
Bromodichloromethane	ND	5.0	ug/Kg wet							
Bromoform	ND	5.0	ug/Kg wet							
Bromomethane	ND	10.0	ug/Kg wet							
Carbon Disulfide	ND	5.0	ug/Kg wet							
Carbon Tetrachloride	ND	5.0	ug/Kg wet							
Chlorobenzene	ND	5.0	ug/Kg wet							
Chloroethane	ND	10.0	ug/Kg wet							
Chloroform	ND	5.0	ug/Kg wet							
Chloromethane	ND	10.0	ug/Kg wet							
cis-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Dibromochloromethane	ND	5.0	ug/Kg wet							
Dibromomethane	ND	5.0	ug/Kg wet							
Dichlorodifluoromethane	ND	10.0	ug/Kg wet							
Diethyl Ether	ND	5.0	ug/Kg wet							
Di-isopropyl ether	ND	5.0	ug/Kg wet							
Ethyl tertiary-butyl ether	ND	5.0	ug/Kg wet							
Ethylbenzene	ND	5.0	ug/Kg wet							
Hexachlorobutadiene	ND	5.0	ug/Kg wet							
Isopropylbenzene	ND	5.0	ug/Kg wet							
Methyl tert-Butyl Ether	ND	5.0	ug/Kg wet							
Methylene Chloride	ND	25.0	ug/Kg wet							
Naphthalene	ND	5.0	ug/Kg wet							
n-Butylbenzene	ND	5.0	ug/Kg wet							
n-Propylbenzene	ND	5.0	ug/Kg wet							
sec-Butylbenzene	ND	5.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 06O6383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62615 - 5030B										
Styrene	ND	5.0	ug/Kg wet							
tert-Butylbenzene	ND	5.0	ug/Kg wet							
Tertiary-amyl methyl ether	ND	5.0	ug/Kg wet							
Tetrachloroethene	ND	5.0	ug/Kg wet							
Tetrahydrofuran	ND	5.0	ug/Kg wet							
Toluene	ND	5.0	ug/Kg wet							
trans-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
trans-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Trichloroethene	ND	5.0	ug/Kg wet							
Trichlorofluoromethane	ND	5.0	ug/Kg wet							
Vinyl Chloride	ND	10.0	ug/Kg wet							
Xylene O	ND	5.0	ug/Kg wet							
Xylene P,M	ND	10.0	ug/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*23.6*		ug/L	*25.0*		*94*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.6*		ug/L	*25.0*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*24.7*		ug/L	*25.0*		*99*	*70-130*			
Surrogate: Toluene-d8	*23.3*		ug/L	*25.0*		*93*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	24.4		ug/L	25.0		98	70-130			
1,1,1-Trichloroethane	25.3		ug/L	25.0		101	70-130			
1,1,2,2-Tetrachloroethane	23.7		ug/L	25.0		95	70-130			
1,1,2-Trichloroethane	24.4		ug/L	25.0		98	70-130			
1,1-Dichloroethane	24.4		ug/L	25.0		98	70-130			
1,1-Dichloroethene	26.7		ug/L	25.0		107	70-130			
1,1-Dichloropropene	24.2		ug/L	25.0		97	70-130			
1,2,3-Trichlorobenzene	26.2		ug/L	25.0		105	70-130			
1,2,3-Trichloropropane	23.2		ug/L	25.0		93	70-130			
1,2,4-Trichlorobenzene	23.6		ug/L	25.0		94	70-130			
1,2,4-Trimethylbenzene	24.2		ug/L	25.0		97	70-130			
1,2-Dibromo-3-Chloropropane	24.2		ug/L	25.0		97	70-130			
1,2-Dibromoethane	23.8		ug/L	25.0		95	70-130			
1,2-Dichlorobenzene	23.9		ug/L	25.0		96	70-130			
1,2-Dichloroethane	25.0		ug/L	25.0		100	70-130			
1,2-Dichloropropane	23.4		ug/L	25.0		94	70-130			
1,3,5-Trimethylbenzene	24.2		ug/L	25.0		97	70-130			
1,3-Dichlorobenzene	23.3		ug/L	25.0		93	70-130			
1,3-Dichloropropane	23.8		ug/L	25.0		95	70-130			
1,4-Dichlorobenzene	23.2		ug/L	25.0		93	70-130			
1,4-Dioxane - Screen	471		ug/L	500		94	70-130			
1-Chlorohexane	23.6		ug/L	25.0		94	70-130			
2,2-Dichloropropane	24.7		ug/L	25.0		99	70-130			
2-Butanone	114		ug/L	125		91	70-130			
2-Chlorotoluene	25.6		ug/L	25.0		102	70-130			
2-Hexanone	110		ug/L	125		88	70-130			
4-Chlorotoluene	23.5		ug/L	25.0		94	70-130			
4-Isopropyltoluene	23.9		ug/L	25.0		96	70-130			
4-Methyl-2-Pentanone	109		ug/L	125		87	70-130			

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62615 - 5030B										
Acetone	106		ug/L	125		85	70-130			
Benzene	24.5		ug/L	25.0		98	70-130			
Bromobenzene	25.4		ug/L	25.0		102	70-130			
Bromochloromethane	26.2		ug/L	25.0		105	70-130			
Bromodichloromethane	26.9		ug/L	25.0		108	70-130			
Bromoform	25.2		ug/L	25.0		101	70-130			
Bromomethane	19.2		ug/L	25.0		77	70-130			
Carbon Disulfide	24.1		ug/L	25.0		96	70-130			
Carbon Tetrachloride	25.3		ug/L	25.0		101	70-130			
Chlorobenzene	24.3		ug/L	25.0		97	70-130			
Chloroethane	16.5		ug/L	25.0		66	70-130			+
Chloroform	25.7		ug/L	25.0		103	70-130			
Chloromethane	23.2		ug/L	25.0		93	70-130			
cis-1,2-Dichloroethene	26.5		ug/L	25.0		106	70-130			
cis-1,3-Dichloropropene	23.9		ug/L	25.0		96	70-130			
Dibromochloromethane	25.1		ug/L	25.0		100	70-130			
Dibromomethane	25.8		ug/L	25.0		103	70-130			
Dichlorodifluoromethane	23.8		ug/L	25.0		95	70-130			
Diethyl Ether	24.3		ug/L	25.0		97	70-130			
Di-isopropyl ether	23.7		ug/L	25.0		95	70-130			
Ethyl tertiary-butyl ether	23.7		ug/L	25.0		95	70-130			
Ethylbenzene	25.0		ug/L	25.0		100	70-130			
Hexachlorobutadiene	25.6		ug/L	25.0		102	70-130			
Isopropylbenzene	22.3		ug/L	25.0		89	70-130			
Methyl tert-Butyl Ether	27.0		ug/L	25.0		108	70-130			
Methylene Chloride	25.0		ug/L	25.0		100	70-130			
Naphthalene	24.4		ug/L	25.0		98	70-130			
n-Butylbenzene	23.9		ug/L	25.0		96	70-130			
n-Propylbenzene	23.2		ug/L	25.0		93	70-130			
sec-Butylbenzene	24.1		ug/L	25.0		96	70-130			
Styrene	24.7		ug/L	25.0		99	70-130			
tert-Butylbenzene	24.3		ug/L	25.0		97	70-130			
Tertiary-amyl methyl ether	24.6		ug/L	25.0		98	70-130			
Tetrachloroethene	25.0		ug/L	25.0		100	70-130			
Tetrahydrofuran	22.6		ug/L	25.0		90	70-130			
Toluene	24.9		ug/L	25.0		100	70-130			
trans-1,2-Dichloroethene	27.6		ug/L	25.0		110	70-130			
trans-1,3-Dichloropropene	22.4		ug/L	25.0		90	70-130			
Trichloroethene	24.8		ug/L	25.0		99	70-130			
Trichlorofluoromethane	24.7		ug/L	25.0		99	70-130			
Vinyl Chloride	24.6		ug/L	25.0		98	70-130			
Xylene O	24.5		ug/L	25.0		98	70-130			
Xylene P,M	48.4		ug/L	50.0		97	70-130			
Surrogate: 1,2-Dichloroethane-d4	*25.0*		ug/L	*25.0*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.6*		ug/L	*25.0*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*24.5*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: Toluene-d8	*23.2*		ug/L	*25.0*		*93*	*70-130*			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62615 - 5030B										
LCS Dup										
1,1,1,2-Tetrachloroethane	25.2		ug/L	25.0		101	70-130	3	20	
1,1,1-Trichloroethane	25.6		ug/L	25.0		102	70-130	1	20	
1,1,2,2-Tetrachloroethane	24.2		ug/L	25.0		97	70-130	2	20	
1,1,2-Trichloroethane	24.8		ug/L	25.0		99	70-130	1	20	
1,1-Dichloroethane	24.6		ug/L	25.0		98	70-130	0	20	
1,1-Dichloroethene	26.9		ug/L	25.0		108	70-130	0.9	20	
1,1-Dichloropropene	25.0		ug/L	25.0		100	70-130	3	20	
1,2,3-Trichlorobenzene	27.0		ug/L	25.0		108	70-130	3	20	
1,2,3-Trichloropropane	23.8		ug/L	25.0		95	70-130	2	20	
1,2,4-Trichlorobenzene	25.1		ug/L	25.0		100	70-130	6	20	
1,2,4-Trimethylbenzene	25.1		ug/L	25.0		100	70-130	3	20	
1,2-Dibromo-3-Chloropropane	25.0		ug/L	25.0		100	70-130	3	20	
1,2-Dibromoethane	24.6		ug/L	25.0		98	70-130	3	20	
1,2-Dichlorobenzene	24.6		ug/L	25.0		98	70-130	2	20	
1,2-Dichloroethane	25.3		ug/L	25.0		101	70-130	1	20	
1,2-Dichloropropane	23.7		ug/L	25.0		95	70-130	1	20	
1,3,5-Trimethylbenzene	24.9		ug/L	25.0		100	70-130	3	20	
1,3-Dichlorobenzene	24.3		ug/L	25.0		97	70-130	4	20	
1,3-Dichloropropane	24.7		ug/L	25.0		99	70-130	4	20	
1,4-Dichlorobenzene	24.2		ug/L	25.0		97	70-130	4	20	
1,4-Dioxane - Screen	479		ug/L	500		96	70-130	2	20	
1-Chlorohexane	24.8		ug/L	25.0		99	70-130	5	20	
2,2-Dichloropropane	24.7		ug/L	25.0		99	70-130	0	20	
2-Butanone	116		ug/L	125		93	70-130	2	20	
2-Chlorotoluene	27.3		ug/L	25.0		109	70-130	7	20	
2-Hexanone	115		ug/L	125		92	70-130	4	20	
4-Chlorotoluene	24.2		ug/L	25.0		97	70-130	3	20	
4-Isopropyltoluene	24.7		ug/L	25.0		99	70-130	3	20	
4-Methyl-2-Pentanone	112		ug/L	125		90	70-130	3	20	
Acetone	113		ug/L	125		90	70-130	6	20	
Benzene	24.9		ug/L	25.0		100	70-130	2	20	
Bromobenzene	26.1		ug/L	25.0		104	70-130	2	20	
Bromochloromethane	26.6		ug/L	25.0		106	70-130	0.9	20	
Bromodichloromethane	27.1		ug/L	25.0		108	70-130	0	20	
Bromoform	26.1		ug/L	25.0		104	70-130	3	20	
Bromomethane	19.6		ug/L	25.0		78	70-130	1	20	
Carbon Disulfide	24.6		ug/L	25.0		98	70-130	2	20	
Carbon Tetrachloride	25.7		ug/L	25.0		103	70-130	2	20	
Chlorobenzene	25.2		ug/L	25.0		101	70-130	4	20	
Chloroethane	17.2		ug/L	25.0		69	70-130	4	20	+
Chloroform	26.0		ug/L	25.0		104	70-130	1	20	
Chloromethane	23.7		ug/L	25.0		95	70-130	2	20	
cis-1,2-Dichloroethene	27.0		ug/L	25.0		108	70-130	2	20	
cis-1,3-Dichloropropene	24.3		ug/L	25.0		97	70-130	1	20	
Dibromochloromethane	25.9		ug/L	25.0		104	70-130	4	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62615 - 5030B										
Dibromomethane	26.0		ug/L	25.0		104	70-130	1	20	
Dichlorodifluoromethane	23.8		ug/L	25.0		95	70-130	0	20	
Diethyl Ether	24.5		ug/L	25.0		98	70-130	1	20	
Di-isopropyl ether	24.1		ug/L	25.0		96	70-130	1	20	
Ethyl tertiary-butyl ether	23.9		ug/L	25.0		96	70-130	1	20	
Ethylbenzene	25.9		ug/L	25.0		104	70-130	4	20	
Hexachlorobutadiene	26.4		ug/L	25.0		106	70-130	4	20	
Isopropylbenzene	22.9		ug/L	25.0		92	70-130	3	20	
Methyl tert-Butyl Ether	27.6		ug/L	25.0		110	70-130	2	20	
Methylene Chloride	25.5		ug/L	25.0		102	70-130	2	20	
Naphthalene	25.3		ug/L	25.0		101	70-130	3	20	
n-Butylbenzene	25.0		ug/L	25.0		100	70-130	4	20	
n-Propylbenzene	23.8		ug/L	25.0		95	70-130	2	20	
sec-Butylbenzene	24.6		ug/L	25.0		98	70-130	2	20	
Styrene	25.7		ug/L	25.0		103	70-130	4	20	
tert-Butylbenzene	24.8		ug/L	25.0		99	70-130	2	20	
Tertiary-amyl methyl ether	25.1		ug/L	25.0		100	70-130	2	20	
Tetrachloroethene	26.4		ug/L	25.0		106	70-130	6	20	
Tetrahydrofuran	21.8		ug/L	25.0		87	70-130	3	20	
Toluene	25.4		ug/L	25.0		102	70-130	2	20	
trans-1,2-Dichloroethene	28.8		ug/L	25.0		115	70-130	4	20	
trans-1,3-Dichloropropene	22.7		ug/L	25.0		91	70-130	1	20	
Trichloroethene	25.2		ug/L	25.0		101	70-130	2	20	
Trichlorofluoromethane	25.0		ug/L	25.0		100	70-130	1	20	
Vinyl Chloride	24.9		ug/L	25.0		100	70-130	2	20	
Xylene O	25.3		ug/L	25.0		101	70-130	3	20	
Xylene P,M	50.8		ug/L	50.0		102	70-130	5	20	
Surrogate: 1,2-Dichloroethane-d4	*24.8*		ug/L	*25.0*		*99*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.8*		ug/L	*25.0*		*95*	*70-130*			
Surrogate: Dibromofluoromethane	*24.2*		ug/L	*25.0*		*97*	*70-130*			
Surrogate: Toluene-d8	*23.3*		ug/L	*25.0*		*93*	*70-130*			
Batch BF62718 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,1-Trichloroethane	ND	5.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethene	ND	5.0	ug/Kg wet							
1,1-Dichloropropene	ND	5.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	5.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg wet							
1,2-Dibromoethane	ND	5.0	ug/Kg wet							

421

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62718 - 5035										
1,2-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,2-Dichloroethane	ND	5.0	ug/Kg wet							
1,2-Dichloropropane	ND	5.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,3-Dichloropropane	ND	5.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	250	ug/Kg wet							
1-Chlorohexane	ND	5.0	ug/Kg wet							
2,2-Dichloropropane	ND	5.0	ug/Kg wet							
2-Butanone	ND	50.0	ug/Kg wet							
2-Chlorotoluene	ND	5.0	ug/Kg wet							
2-Hexanone	ND	50.0	ug/Kg wet							
4-Chlorotoluene	ND	5.0	ug/Kg wet							
4-Isopropyltoluene	ND	5.0	ug/Kg wet							
4-Methyl-2-Pentanone	ND	50.0	ug/Kg wet							
Acetone	ND	50.0	ug/Kg wet							
Benzene	ND	5.0	ug/Kg wet							
Bromobenzene	ND	5.0	ug/Kg wet							
Bromochloromethane	ND	5.0	ug/Kg wet							
Bromodichloromethane	ND	5.0	ug/Kg wet							
Bromoform	ND	5.0	ug/Kg wet							
Bromomethane	ND	10.0	ug/Kg wet							
Carbon Disulfide	ND	5.0	ug/Kg wet							
Carbon Tetrachloride	ND	5.0	ug/Kg wet							
Chlorobenzene	ND	5.0	ug/Kg wet							
Chloroethane	ND	10.0	ug/Kg wet							
Chloroform	ND	5.0	ug/Kg wet							
Chloromethane	ND	10.0	ug/Kg wet							
cis-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Dibromochloromethane	ND	5.0	ug/Kg wet							
Dibromomethane	ND	5.0	ug/Kg wet							
Dichlorodifluoromethane	ND	10.0	ug/Kg wet							
Diethyl Ether	ND	5.0	ug/Kg wet							
Di-isopropyl ether	ND	5.0	ug/Kg wet							
Ethyl tertiary-butyl ether	ND	5.0	ug/Kg wet							
Ethylbenzene	ND	5.0	ug/Kg wet							
Hexachlorobutadiene	ND	5.0	ug/Kg wet							
Isopropylbenzene	ND	5.0	ug/Kg wet							
Methyl tert-Butyl Ether	ND	5.0	ug/Kg wet							
Methylene Chloride	ND	25.0	ug/Kg wet							
Naphthalene	ND	5.0	ug/Kg wet							
n-Butylbenzene	ND	5.0	ug/Kg wet							
n-Propylbenzene	ND	5.0	ug/Kg wet							
sec-Butylbenzene	ND	5.0	ug/Kg wet							
Styrene	ND	5.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62718 - 5035										
tert-Butylbenzene	ND	5.0	ug/Kg wet							
Tertiary-amyl methyl ether	ND	5.0	ug/Kg wet							
Tetrachloroethene	ND	5.0	ug/Kg wet							
Tetrahydrofuran	ND	5.0	ug/Kg wet							
Toluene	ND	5.0	ug/Kg wet							
trans-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
trans-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Trichloroethene	ND	5.0	ug/Kg wet							
Trichlorofluoromethane	ND	5.0	ug/Kg wet							
Vinyl Chloride	ND	10.0	ug/Kg wet							
Xylene O	ND	5.0	ug/Kg wet							
Xylene P,M	ND	10.0	ug/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*23.6*		ug/L	*25.0*		*94*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.0*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*24.9*		ug/L	*25.0*		*100*	*70-130*			
Surrogate: Toluene-d8	*23.6*		ug/L	*25.0*		*94*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	24.4		ug/L	25.0		98	70-130			
1,1,1-Trichloroethane	24.8		ug/L	25.0		99	70-130			
1,1,2,2-Tetrachloroethane	22.7		ug/L	25.0		91	70-130			
1,1,2-Trichloroethane	23.8		ug/L	25.0		95	70-130			
1,1-Dichloroethane	24.0		ug/L	25.0		96	70-130			
1,1-Dichloroethene	26.0		ug/L	25.0		104	70-130			
1,1-Dichloropropene	24.0		ug/L	25.0		96	70-130			
1,2,3-Trichlorobenzene	25.7		ug/L	25.0		103	70-130			
1,2,3-Trichloropropane	20.8		ug/L	25.0		83	70-130			
1,2,4-Trichlorobenzene	24.2		ug/L	25.0		97	70-130			
1,2,4-Trimethylbenzene	24.2		ug/L	25.0		97	70-130			
1,2-Dibromo-3-Chloropropane	22.6		ug/L	25.0		90	70-130			
1,2-Dibromoethane	23.6		ug/L	25.0		94	70-130			
1,2-Dichlorobenzene	23.7		ug/L	25.0		95	70-130			
1,2-Dichloroethane	24.5		ug/L	25.0		98	70-130			
1,2-Dichloropropane	22.9		ug/L	25.0		92	70-130			
1,3,5-Trimethylbenzene	24.0		ug/L	25.0		96	70-130			
1,3-Dichlorobenzene	23.5		ug/L	25.0		94	70-130			
1,3-Dichloropropane	23.6		ug/L	25.0		94	70-130			
1,4-Dichlorobenzene	23.2		ug/L	25.0		93	70-130			
1,4-Dioxane - Screen	417		ug/L	500		83	70-130			
1-Chlorohexane	24.3		ug/L	25.0		97	70-130			
2,2-Dichloropropane	25.4		ug/L	25.0		102	70-130			
2-Butanone	105		ug/L	125		84	70-130			
2-Chlorotoluene	24.4		ug/L	25.0		98	70-130			
2-Hexanone	107		ug/L	125		86	70-130			
4-Chlorotoluene	23.4		ug/L	25.0		94	70-130			
4-Isopropyltoluene	23.9		ug/L	25.0		96	70-130			
4-Methyl-2-Pentanone	103		ug/L	125		82	70-130			
Acetone	99.6		ug/L	125		80	70-130			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62718 - 5035										
Benzene	24.1		ug/L	25.0		96	70-130			
Bromobenzene	25.1		ug/L	25.0		100	70-130			
Bromochloromethane	25.6		ug/L	25.0		102	70-130			
Bromodichloromethane	26.5		ug/L	25.0		106	70-130			
Bromoform	24.7		ug/L	25.0		99	70-130			
Bromomethane	18.9		ug/L	25.0		76	70-130			
Carbon Disulfide	24.1		ug/L	25.0		96	70-130			
Carbon Tetrachloride	24.8		ug/L	25.0		99	70-130			
Chlorobenzene	24.4		ug/L	25.0		98	70-130			
Chloroethane	18.4		ug/L	25.0		74	70-130			
Chloroform	25.1		ug/L	25.0		100	70-130			
Chloromethane	23.2		ug/L	25.0		93	70-130			
cis-1,2-Dichloroethene	26.1		ug/L	25.0		104	70-130			
cis-1,3-Dichloropropene	23.8		ug/L	25.0		95	70-130			
Dibromochloromethane	24.7		ug/L	25.0		99	70-130			
Dibromomethane	25.0		ug/L	25.0		100	70-130			
Dichlorodifluoromethane	23.6		ug/L	25.0		94	70-130			
Diethyl Ether	23.3		ug/L	25.0		93	70-130			
Di-isopropyl ether	23.4		ug/L	25.0		94	70-130			
Ethyl tertiary-butyl ether	23.2		ug/L	25.0		93	70-130			
Ethylbenzene	25.1		ug/L	25.0		100	70-130			
Hexachlorobutadiene	25.7		ug/L	25.0		103	70-130			
Isopropylbenzene	22.0		ug/L	25.0		88	70-130			
Methyl tert-Butyl Ether	26.1		ug/L	25.0		104	70-130			
Methylene Chloride	24.5		ug/L	25.0		98	70-130			
Naphthalene	22.7		ug/L	25.0		91	70-130			
n-Butylbenzene	24.4		ug/L	25.0		98	70-130			
n-Propylbenzene	23.7		ug/L	25.0		95	70-130			
sec-Butylbenzene	23.8		ug/L	25.0		95	70-130			
Styrene	24.9		ug/L	25.0		100	70-130			
tert-Butylbenzene	24.0		ug/L	25.0		96	70-130			
Tertiary-amyl methyl ether	24.0		ug/L	25.0		96	70-130			
Tetrachloroethene	25.0		ug/L	25.0		100	70-130			
Tetrahydrofuran	20.9		ug/L	25.0		84	70-130			
Toluene	24.6		ug/L	25.0		98	70-130			
trans-1,2-Dichloroethene	27.9		ug/L	25.0		112	70-130			
trans-1,3-Dichloropropene	22.3		ug/L	25.0		89	70-130			
Trichloroethene	24.3		ug/L	25.0		97	70-130			
Trichlorofluoromethane	24.4		ug/L	25.0		98	70-130			
Vinyl Chloride	24.4		ug/L	25.0		98	70-130			
Xylene O	24.5		ug/L	25.0		98	70-130			
Xylene P,M	49.4		ug/L	50.0		99	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.3*		ug/L	*25.0*		*97*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.8*		ug/L	*25.0*		*95*	*70-130*			
Surrogate: Dibromofluoromethane	*24.1*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Toluene-d8	*23.4*		ug/L	*25.0*		*94*	*70-130*			
LCS Dup										

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62718 - 5035										
1,1,1,2-Tetrachloroethane	24.4		ug/L	25.0		98	70-130	0	20	
1,1,1-Trichloroethane	24.7		ug/L	25.0		99	70-130	0	20	
1,1,2,2-Tetrachloroethane	23.4		ug/L	25.0		94	70-130	3	20	
1,1,2-Trichloroethane	23.7		ug/L	25.0		95	70-130	0	20	
1,1-Dichloroethane	23.8		ug/L	25.0		95	70-130	1	20	
1,1-Dichloroethene	26.0		ug/L	25.0		104	70-130	0	20	
1,1-Dichloropropene	24.0		ug/L	25.0		96	70-130	0	20	
1,2,3-Trichlorobenzene	26.7		ug/L	25.0		107	70-130	4	20	
1,2,3-Trichloropropane	23.2		ug/L	25.0		93	70-130	11	20	
1,2,4-Trichlorobenzene	24.6		ug/L	25.0		98	70-130	1	20	
1,2,4-Trimethylbenzene	24.4		ug/L	25.0		98	70-130	1	20	
1,2-Dibromo-3-Chloropropane	23.8		ug/L	25.0		95	70-130	5	20	
1,2-Dibromoethane	23.9		ug/L	25.0		96	70-130	2	20	
1,2-Dichlorobenzene	23.9		ug/L	25.0		96	70-130	1	20	
1,2-Dichloroethane	24.6		ug/L	25.0		98	70-130	0	20	
1,2-Dichloropropane	23.0		ug/L	25.0		92	70-130	0	20	
1,3,5-Trimethylbenzene	24.2		ug/L	25.0		97	70-130	1	20	
1,3-Dichlorobenzene	23.6		ug/L	25.0		94	70-130	0	20	
1,3-Dichloropropane	23.6		ug/L	25.0		94	70-130	0	20	
1,4-Dichlorobenzene	23.5		ug/L	25.0		94	70-130	1	20	
1,4-Dioxane - Screen	438		ug/L	500		88	70-130	6	20	
1-Chlorohexane	24.1		ug/L	25.0		96	70-130	1	20	
2,2-Dichloropropane	25.1		ug/L	25.0		100	70-130	2	20	
2-Butanone	111		ug/L	125		89	70-130	6	20	
2-Chlorotoluene	25.9		ug/L	25.0		104	70-130	6	20	
2-Hexanone	111		ug/L	125		89	70-130	3	20	
4-Chlorotoluene	24.0		ug/L	25.0		96	70-130	2	20	
4-Isopropyltoluene	24.1		ug/L	25.0		96	70-130	0	20	
4-Methyl-2-Pentanone	108		ug/L	125		86	70-130	5	20	
Acetone	107		ug/L	125		86	70-130	7	20	
Benzene	24.0		ug/L	25.0		96	70-130	0	20	
Bromobenzene	25.2		ug/L	25.0		101	70-130	1	20	
Bromochloromethane	25.4		ug/L	25.0		102	70-130	0	20	
Bromodichloromethane	26.3		ug/L	25.0		105	70-130	0.9	20	
Bromoform	25.0		ug/L	25.0		100	70-130	1	20	
Bromomethane	18.8		ug/L	25.0		75	70-130	1	20	
Carbon Disulfide	23.8		ug/L	25.0		95	70-130	1	20	
Carbon Tetrachloride	24.7		ug/L	25.0		99	70-130	0	20	
Chlorobenzene	24.4		ug/L	25.0		98	70-130	0	20	
Chloroethane	17.3		ug/L	25.0		69	70-130	7	20	+
Chloroform	25.1		ug/L	25.0		100	70-130	0	20	
Chloromethane	23.1		ug/L	25.0		92	70-130	1	20	
cis-1,2-Dichloroethene	25.9		ug/L	25.0		104	70-130	0	20	
cis-1,3-Dichloropropene	23.7		ug/L	25.0		95	70-130	0	20	
Dibromochloromethane	24.8		ug/L	25.0		99	70-130	0	20	
Dibromomethane	25.0		ug/L	25.0		100	70-130	0	20	
Dichlorodifluoromethane	23.0		ug/L	25.0		92	70-130	2	20	

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62718 - 5035										
Diethyl Ether	23.3		ug/L	25.0		93	70-130	0	20	
Di-isopropyl ether	23.1		ug/L	25.0		92	70-130	2	20	
Ethyl tertiary-butyl ether	23.2		ug/L	25.0		93	70-130	0	20	
Ethylbenzene	25.2		ug/L	25.0		101	70-130	1	20	
Hexachlorobutadiene	25.9		ug/L	25.0		104	70-130	1	20	
Isopropylbenzene	22.2		ug/L	25.0		89	70-130	1	20	
Methyl tert-Butyl Ether	26.4		ug/L	25.0		106	70-130	2	20	
Methylene Chloride	24.6		ug/L	25.0		98	70-130	0	20	
Naphthalene	24.2		ug/L	25.0		97	70-130	6	20	
n-Butylbenzene	24.7		ug/L	25.0		99	70-130	1	20	
n-Propylbenzene	23.4		ug/L	25.0		94	70-130	1	20	
sec-Butylbenzene	24.0		ug/L	25.0		96	70-130	1	20	
Styrene	24.7		ug/L	25.0		99	70-130	1	20	
tert-Butylbenzene	24.2		ug/L	25.0		97	70-130	1	20	
Tertiary-amyl methyl ether	24.2		ug/L	25.0		97	70-130	1	20	
Tetrachloroethene	24.9		ug/L	25.0		100	70-130	0	20	
Tetrahydrofuran	22.0		ug/L	25.0		88	70-130	5	20	
Toluene	24.5		ug/L	25.0		98	70-130	0	20	
trans-1,2-Dichloroethene	27.8		ug/L	25.0		111	70-130	0.9	20	
trans-1,3-Dichloropropene	22.4		ug/L	25.0		90	70-130	1	20	
Trichloroethene	24.3		ug/L	25.0		97	70-130	0	20	
Trichlorofluoromethane	24.2		ug/L	25.0		97	70-130	1	20	
Vinyl Chloride	24.3		ug/L	25.0		97	70-130	1	20	
Xylene O	24.4		ug/L	25.0		98	70-130	0	20	
Xylene P,M	49.5		ug/L	50.0		99	70-130	0	20	
Surrogate: 1,2-Dichloroethane-d4	*24.5*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.6*		ug/L	*25.0*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*23.9*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Toluene-d8	*23.3*		ug/L	*25.0*		*93*	*70-130*			
Matrix Spike **Source: 0606383-13**										
1,1,1,2-Tetrachloroethane	14.1		ug/L	25.0	ND	56	70-130			+
1,1,1-Trichloroethane	20.4		ug/L	25.0	ND	82	70-130			
1,1,2,2-Tetrachloroethane	13.3		ug/L	25.0	ND	53	70-130			+
1,1,2-Trichloroethane	15.3		ug/L	25.0	ND	61	70-130			+
1,1-Dichloroethane	20.2		ug/L	25.0	1.75	74	70-130			
1,1-Dichloroethene	22.9		ug/L	25.0	0.650	89	70-130			
1,1-Dichloropropene	19.2		ug/L	25.0	ND	77	70-130			
1,2,3-Trichlorobenzene	5.6		ug/L	25.0	ND	22	70-130			+
1,2,3-Trichloropropane	11.3		ug/L	25.0	ND	45	70-130			+
1,2,4-Trichlorobenzene	5.8		ug/L	25.0	ND	23	70-130			+
1,2,4-Trimethylbenzene	11.9		ug/L	25.0	ND	48	70-130			+
1,2-Dibromo-3-Chloropropane	12.2		ug/L	25.0	ND	49	70-130			+
1,2-Dibromoethane	14.5		ug/L	25.0	ND	58	70-130			+
1,2-Dichlorobenzene	9.5		ug/L	25.0	ND	38	70-130			+
1,2-Dichloroethane	17.2		ug/L	25.0	ND	69	70-130			+
1,2-Dichloropropane	16.3		ug/L	25.0	ND	65	70-130			+
1,3,5-Trimethylbenzene	12.4		ug/L	25.0	ND	50	70-130			+

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62718 - 5035										
1,3-Dichlorobenzene	9.8		ug/L	25.0	ND	39	70-130			+
1,3-Dichloropropane	15.3		ug/L	25.0	ND	61	70-130			+
1,4-Dichlorobenzene	9.5		ug/L	25.0	ND	38	70-130			+
1,4-Dioxane - Screen	494		ug/L	500	ND	99	70-130			+
1-Chlorohexane	15.2		ug/L	25.0	ND	61	70-130			+
2,2-Dichloropropane	19.3		ug/L	25.0	ND	77	70-130			
2-Butanone	99.2		ug/L	125	12.2	70	70-130			
2-Chlorotoluene	12.0		ug/L	25.0	ND	48	70-130			+
2-Hexanone	83.4		ug/L	125	ND	67	70-130			+
4-Chlorotoluene	11.5		ug/L	25.0	ND	46	70-130			+
4-Isopropyltoluene	11.5		ug/L	25.0	0.262	45	70-130			+
4-Methyl-2-Pentanone	82.0		ug/L	125	ND	66	70-130			+
Acetone	140		ug/L	125	53.5	69	70-130			+
Benzene	18.5		ug/L	25.0	ND	74	70-130			+
Bromobenzene	12.5		ug/L	25.0	ND	50	70-130			+
Bromochloromethane	18.0		ug/L	25.0	ND	72	70-130			
Bromodichloromethane	17.5		ug/L	25.0	ND	70	70-130			
Bromoform	12.8		ug/L	25.0	ND	51	70-130			+
Bromomethane	19.2		ug/L	25.0	ND	77	70-130			
Carbon Disulfide	25.2		ug/L	25.0	4.38	83	70-130			
Carbon Tetrachloride	18.4		ug/L	25.0	ND	74	70-130			
Chlorobenzene	13.7		ug/L	25.0	ND	55	70-130			+
Chloroethane	27.5		ug/L	25.0	ND	110	70-130			
Chloroform	18.9		ug/L	25.0	ND	76	70-130			
Chloromethane	19.8		ug/L	25.0	ND	79	70-130			
cis-1,2-Dichloroethene	38.4		ug/L	25.0	33.6	19	70-130			+
cis-1,3-Dichloropropene	12.3		ug/L	25.0	ND	49	70-130			+
Dibromochloromethane	14.4		ug/L	25.0	ND	58	70-130			+
Dibromomethane	16.6		ug/L	25.0	ND	66	70-130			+
Dichlorodifluoromethane	22.3		ug/L	25.0	ND	89	70-130			
Diethyl Ether	17.8		ug/L	25.0	ND	71	70-130			
Di-isopropyl ether	17.8		ug/L	25.0	ND	71	70-130			+
Ethyl tertiary-butyl ether	17.8		ug/L	25.0	ND	71	70-130			
Ethylbenzene	15.6		ug/L	25.0	ND	62	70-130			+
Hexachlorobutadiene	6.0		ug/L	25.0	ND	24	70-130			+
Isopropylbenzene	13.7		ug/L	25.0	0.525	53	70-130			+
Methyl tert-Butyl Ether	19.4		ug/L	25.0	ND	78	70-130			
Methylene Chloride	18.3		ug/L	25.0	-1.41	79	70-130			
Naphthalene	6.6		ug/L	25.0	ND	26	70-130			+
n-Butylbenzene	10.1		ug/L	25.0	ND	40	70-130			+
n-Propylbenzene	12.2		ug/L	25.0	ND	49	70-130			+
sec-Butylbenzene	12.2		ug/L	25.0	0.325	48	70-130			+
Styrene	2.8		ug/L	25.0	ND	11	70-130			+
tert-Butylbenzene	12.5		ug/L	25.0	ND	50	70-130			+
Tertiary-amyl methyl ether	17.9		ug/L	25.0	ND	72	70-130			
Tetrachloroethene	16.9		ug/L	25.0	ND	68	70-130			+
Tetrahydrofuran	18.0		ug/L	25.0	ND	72	70-130			

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62718 - 5035										
Toluene	16.8		ug/L	25.0	ND	67	70-130			+
trans-1,2-Dichloroethene	20.3		ug/L	25.0	1.26	76	70-130			
trans-1,3-Dichloropropene	10.9		ug/L	25.0	ND	44	70-130			+
Trichloroethene	18.2		ug/L	25.0	0.725	70	70-130			
Trichlorofluoromethane	21.8		ug/L	25.0	ND	87	70-130			
Vinyl Chloride	38.5		ug/L	25.0	35.4	12	70-130			+
Xylene O	14.0		ug/L	25.0	ND	56	70-130			+
Xylene P,M	29.5		ug/L	50.0	ND	59	70-130			+
Surrogate: 1,2-Dichloroethane-d4	*25.2*		ug/L	*25.0*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.0*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*24.8*		ug/L	*25.0*		*99*	*70-130*			
Surrogate: Toluene-d8	*23.9*		ug/L	*25.0*		*96*	*70-130*			
Matrix Spike Dup Source: 0606383-13										
1,1,1,2-Tetrachloroethane	13.4		ug/L	25.0	ND	54	70-130	4	20	+
1,1,1-Trichloroethane	19.4		ug/L	25.0	ND	78	70-130	5	20	
1,1,2,2-Tetrachloroethane	13.2		ug/L	25.0	ND	53	70-130	0	20	+
1,1,2-Trichloroethane	15.0		ug/L	25.0	ND	60	70-130	2	20	+
1,1-Dichloroethane	19.7		ug/L	25.0	1.75	72	70-130	3	20	
1,1-Dichloroethene	22.6		ug/L	25.0	0.650	88	70-130	1	20	
1,1-Dichloropropene	18.2		ug/L	25.0	ND	73	70-130	5	20	
1,2,3-Trichlorobenzene	4.1		ug/L	25.0	ND	16	70-130	32	20	+
1,2,3-Trichloropropane	11.4		ug/L	25.0	ND	46	70-130	2	20	+
1,2,4-Trichlorobenzene	4.4		ug/L	25.0	ND	18	70-130	24	20	+
1,2,4-Trimethylbenzene	10.1		ug/L	25.0	ND	40	70-130	18	20	+
1,2-Dibromo-3-Chloropropane	12.2		ug/L	25.0	ND	49	70-130	0	20	+
1,2-Dibromoethane	14.5		ug/L	25.0	ND	58	70-130	0	20	+
1,2-Dichlorobenzene	8.3		ug/L	25.0	ND	33	70-130	14	20	+
1,2-Dichloroethane	16.8		ug/L	25.0	ND	67	70-130	3	20	+
1,2-Dichloropropane	15.9		ug/L	25.0	ND	64	70-130	2	20	+
1,3,5-Trimethylbenzene	10.3		ug/L	25.0	ND	41	70-130	20	20	+
1,3-Dichlorobenzene	8.4		ug/L	25.0	ND	34	70-130	14	20	+
1,3-Dichloropropane	15.2		ug/L	25.0	ND	61	70-130	0	20	+
1,4-Dichlorobenzene	8.6		ug/L	25.0	ND	34	70-130	11	20	+
1,4-Dioxane - Screen	452		ug/L	500	ND	90	70-130	10	20	+
1-Chlorohexane	13.0		ug/L	25.0	ND	52	70-130	16	20	+
2,2-Dichloropropane	18.1		ug/L	25.0	ND	72	70-130	7	20	
2-Butanone	101		ug/L	125	12.2	71	70-130	1	20	
2-Chlorotoluene	11.4		ug/L	25.0	ND	46	70-130	4	20	+
2-Hexanone	85.6		ug/L	125	ND	68	70-130	1	20	+
4-Chlorotoluene	10.1		ug/L	25.0	ND	40	70-130	14	20	+
4-Isopropyltoluene	8.8		ug/L	25.0	0.262	34	70-130	28	20	+
4-Methyl-2-Pentanone	82.5		ug/L	125	ND	66	70-130	0	20	+
Acetone	138		ug/L	125	53.5	68	70-130	1	20	+
Benzene	17.8		ug/L	25.0	ND	71	70-130	4	20	+
Bromobenzene	11.7		ug/L	25.0	ND	47	70-130	6	20	+
Bromochloromethane	17.8		ug/L	25.0	ND	71	70-130	1	20	
Bromodichloromethane	16.9		ug/L	25.0	ND	68	70-130	3	20	+

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62718 - 5035										
Bromoform	12.7		ug/L	25.0	ND	51	70-130	0	20	+
Bromomethane	19.1		ug/L	25.0	ND	76	70-130	1	20	
Carbon Disulfide	25.1		ug/L	25.0	4.38	83	70-130	0	20	
Carbon Tetrachloride	16.4		ug/L	25.0	ND	66	70-130	11	20	+
Chlorobenzene	13.0		ug/L	25.0	ND	52	70-130	6	20	+
Chloroethane	26.8		ug/L	25.0	ND	107	70-130	3	20	
Chloroform	18.4		ug/L	25.0	ND	74	70-130	3	20	
Chloromethane	19.3		ug/L	25.0	ND	77	70-130	3	20	
cis-1,2-Dichloroethene	38.0		ug/L	25.0	33.6	18	70-130	5	20	+
cis-1,3-Dichloropropene	11.6		ug/L	25.0	ND	46	70-130	6	20	+
Dibromochloromethane	14.3		ug/L	25.0	ND	57	70-130	2	20	+
Dibromomethane	16.4		ug/L	25.0	ND	66	70-130	0	20	+
Dichlorodifluoromethane	21.4		ug/L	25.0	ND	86	70-130	3	20	+
Diethyl Ether	17.2		ug/L	25.0	ND	69	70-130	3	20	+
Di-isopropyl ether	17.2		ug/L	25.0	ND	69	70-130	3	20	+
Ethyl tertiary-butyl ether	17.2		ug/L	25.0	ND	69	70-130	3	20	+
Ethylbenzene	14.2		ug/L	25.0	ND	57	70-130	8	20	+
Hexachlorobutadiene	3.9		ug/L	25.0	ND	16	70-130	40	20	+
Isopropylbenzene	11.8		ug/L	25.0	0.525	45	70-130	16	20	+
Methyl tert-Butyl Ether	17.8		ug/L	25.0	ND	71	70-130	9	20	
Methylene Chloride	17.6		ug/L	25.0	-1.41	76	70-130	4	20	
Naphthalene	5.8		ug/L	25.0	ND	23	70-130	12	20	+
n-Butylbenzene	7.6		ug/L	25.0	ND	30	70-130	29	20	+
n-Propylbenzene	10.7		ug/L	25.0	ND	43	70-130	13	20	+
sec-Butylbenzene	9.3		ug/L	25.0	0.325	36	70-130	29	20	+
Styrene	1.9		ug/L	25.0	ND	8	70-130	32	20	+
tert-Butylbenzene	10.2		ug/L	25.0	ND	41	70-130	20	20	+
Tertiary-amyl methyl ether	17.3		ug/L	25.0	ND	69	70-130	4	20	+
Tetrachloroethene	15.4		ug/L	25.0	ND	62	70-130	9	20	+
Tetrahydrofuran	17.6		ug/L	25.0	ND	70	70-130	3	20	
Toluene	16.1		ug/L	25.0	ND	64	70-130	5	20	+
trans-1,2-Dichloroethene	19.1		ug/L	25.0	1.26	71	70-130	7	20	
trans-1,3-Dichloropropene	10.6		ug/L	25.0	ND	42	70-130	5	20	+
Trichloroethene	17.4		ug/L	25.0	0.725	67	70-130	4	20	+
Trichlorofluoromethane	20.9		ug/L	25.0	ND	84	70-130	4	20	
Vinyl Chloride	36.0		ug/L	25.0	35.4	2	70-130	143	20	+
Xylene O	12.7		ug/L	25.0	ND	51	70-130	9	20	+
Xylene P,M	26.9		ug/L	50.0	ND	54	70-130	9	20	+
Surrogate: 1,2-Dichloroethane-d4	*25.2*		ug/L	*25.0*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.9*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*24.5*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: Toluene-d8	*24.0*		ug/L	*25.0*		*96*	*70-130*			
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62806 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	100	ug/Kg wet							

Volatile Organics Calibration Data

ANALYSIS SEQUENCE

BPF0045

Instrument: VMS4

Calibnration ID: 0605037

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0045-TUN1	QC		1		6F06045		
BPF0045-CAL1	QC		2		6F06046	6E24035	
BPF0045-CAL2	QC		3		6F06047	6E24035	
BPF0045-CAL3	QC		4		6F06048	6E24035	
BPF0045-CAL4	QC		5		6F06049	6E24035	
BPF0045-CAL5	QC		6		6F06050	6E24035	
BPF0045-CAL6	QC		7		6F06051	6E24035	
BPF0045-SCV1	QC		8		6F06053	6E24035	

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/6/06	7	M4 14922	060619-06	AE05C96		
	8	M4 23	-07			
	9	M4 24	-08			
	10	M4 25	-03		10X	
	11	M4 26	-04		10X	
	12	M4 27	-02		50X	
	13	M4 28	-09		50X	
6/6/06	14	M4 29	-05	AE05C96	100X	
6/6/06	1	M4 30	BLF0045 - TUNE	L0053b6	6F06045	
	2	M4 31	BLF0045 - CAL1		6F06046	
	3	M4 32	BLF0045 - CAL2		6F06047	
	4	M4 33	BLF0045 - CAL3		6F06048	
	5	M4 34	BLF0045 - CAL4		6F06049	
	6	M4 35	BLF0045 - CAL5		6F06050	
	7	M4 36	BLF0045 - CAL6		6F06051	
	8	M4 37	Test Blk	L0053b6		
6/6/06	9	M4 38	BLF0045 - SCV1	L0060606	6F06053	

Run Sequence Confirmation

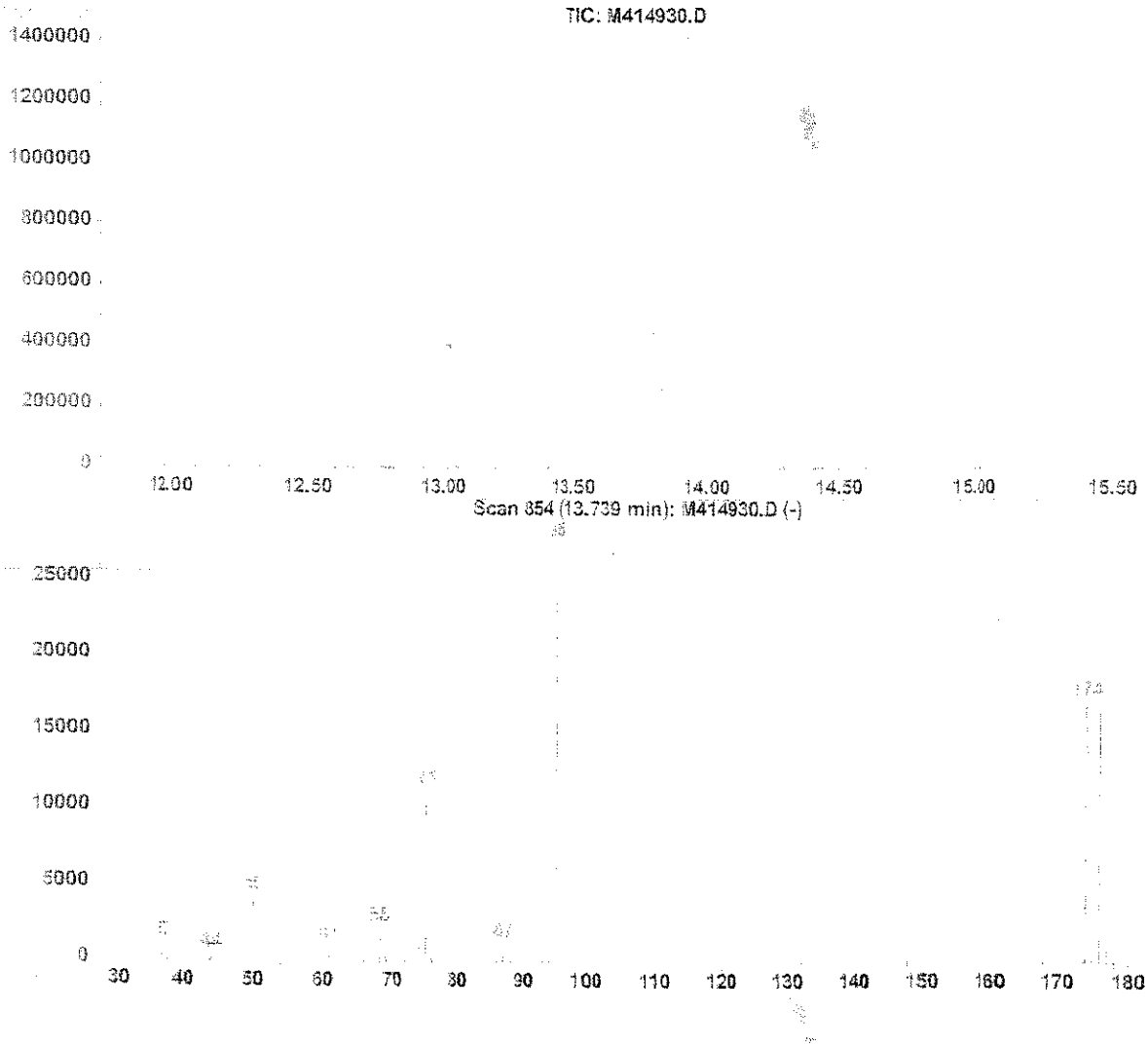
Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: 6E24037

On-column IS: 6E24035

Data File : Q:/VOA/MS4_MH/MH0606/MH060606\M414930.D Vial: 1
Acq On : 6 Jun 2006 8:26 am Operator: MD
Sample : BFB0045-TUN1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\LO052606.M (RTE Integrator)
Title : Element ID: 0605024



Spectrum Information: Scan 854

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.5	4266	PASS
75	95	30	60	40.5	11154	PASS
95	95	100	100	100.0	27546	PASS
96	95	5	9	7.7	2125	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	62.0	17069	PASS
175	174	5	9	8.2	1407	PASS
176	174	95	101	96.1	16395	PASS
177	176	5	9	8.2	1348	PASS

Response Factor Report VOA_MS4

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration

Calibration Files
25 =M414931.D 10 =M414932.D 5 =M414933.D
2.5 =M414934.D 50 =M414935.D 100 =M414936.D

		Compound	25	10	5	2.5	50	100	Avg	%RSD
1)	I	Fluorobenzene	----------	----------	----------	ISTD	----------	----------		
2)		Dichlorodifluoromet	0.310	0.311	0.354	0.399	0.307	0.317	0.333	11.03
3)		Chloromethane	0.142	0.143	0.167	0.185	0.147	0.167	0.158	10.84
4)		Vinyl Chloride	0.162	0.162	0.185	0.201	0.164	0.166	0.174	9.37
5)		Bromomethane	0.147	0.153	0.181	0.191	0.143	0.143	0.160	13.12
6)		Chloroethane	0.085	0.087	0.104	0.109	0.066	0.051	0.084	26.41
7)		Trichlorofluorometh	0.540	0.544	0.628	0.678	0.544	0.567	0.584	9.74
8)		Diethyl ether	0.098	0.098	0.113	0.120	0.101	0.102	0.105	8.63
9)		Acrolein	0.019	0.020	0.025		0.020	0.019	0.021	11.91
10)		1,1,2-Trichloro-1,2	0.539	0.541	0.622	0.667	0.531	0.549	0.575	9.74
11)		Acetone	0.008	0.008	0.011	0.012	0.009	0.009	0.009	13.32
12)		Iodomethane	0.539	0.504	0.598	0.626	0.619	0.548	0.572	8.64
13)		Carbon Disulfide	0.575	0.582	0.676	0.734	0.572	0.596	0.622	10.74
14)		1,1-Dichloroethene	0.230	0.235	0.269	0.291	0.227	0.230	0.247	10.87
15)		Allyl Chloride	0.233	0.236	0.273	0.295	0.231	0.216	0.248	12.19
16)		Methyl Acetate	0.088	0.091	0.125		0.096	0.093	0.099	15.44
17)		Methylene Chloride	0.219	0.241	0.305	0.349	0.217	0.220	0.259	21.44
18)		Tertiary-butyl Alco	0.015	0.016	0.020	0.029	0.017	0.017	0.019	26.87
19)		Methyl tert-Butyl E	0.394	0.416	0.459	0.462	0.396	0.420	0.425	6.98
20)		Acrylonitrile	0.033	0.036	0.039	0.040	0.035	0.035	0.036	8.21
21)		trans-1,2-Dichloroe	0.264	0.284	0.300	0.322	0.265	0.276	0.285	7.91
22)		1,1-Dichloroethane	0.424	0.426	0.490	0.526	0.429	0.444	0.456	9.24
23)		Chloroprene	0.260	0.259	0.294	0.314	0.263	0.273	0.277	8.03
24)		Vinyl Acetate	0.638	0.643	0.758	0.798	0.657	0.660	0.692	9.85
25)		Di-isopropyl ether	0.631	0.634	0.733	0.790	0.639	0.654	0.680	9.67
26)		Ethyl tertiary-buty	0.580	0.578	0.665	0.714	0.596	0.613	0.624	8.69
27)		2-Butanone	0.016	0.016	0.020	0.021	0.018	0.017	0.018	10.65
28)		cis-1,2 Dichloroeth	0.302	0.302	0.342	0.367	0.305	0.314	0.322	8.31
29)		2,2-Dichloropropane	0.366	0.364	0.416	0.463	0.358	0.375	0.390	10.59
30)		Methyl Acrylate	0.167	0.168	0.207	0.209	0.182	0.178	0.185	10.03
31)		Methacrylonitrile	0.092	0.101	0.123	0.130	0.101	0.099	0.108	14.21
32)		Bromochloromethane	0.226	0.227	0.262	0.282	0.228	0.224	0.241	10.10
33)		Tetrahydrofuran	0.045	0.047	0.058		0.047	0.045	0.048	11.66
34)		Chloroform	0.534	0.530	0.610	0.660	0.542	0.566	0.574	8.99
35)		1,1,1-Trichloroetha	0.518	0.516	0.600	0.651	0.528	0.550	0.560	9.67
36)	S	Dibromofluoromethan	0.691	0.703	0.824	0.919	0.698	0.715	0.758	12.28
37)		Cyclohexane	0.298	0.294	0.344	0.366	0.288	0.286	0.313	10.86
38)		1-Chlorobutane	0.372	0.388	0.442	0.478	0.387	0.404	0.412	9.77
39)		1,1-Dichloropropene	0.362	0.367	0.421	0.458	0.371	0.373	0.392	9.88
40)		Carbon Tetrachlorid	0.563	0.563	0.659	0.720	0.577	0.603	0.614	10.27
41)		Benzene	0.655	0.651	0.762	0.820	0.665	0.686	0.707	9.76
42)	S	1,2-Dichloroethane-	0.224	0.226	0.267	0.293	0.229	0.236	0.246	11.34
43)		1,2-Dichloroethane	0.240	0.237	0.269	0.291	0.250	0.256	0.257	7.82
44)		Tertiary-amyl methy	0.530	0.525	0.609	0.649	0.555	0.559	0.571	8.50

(#) = Out of Range
LO060606.M Tue Jun 06 12:26:52 2006 MS4 Page 1

Method : C:\HPCHEM\1\METHODS\LC060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration

Calibration Files
25 =M414931.D 10 =M414932.D 5 =M414933.D
2.5 =M414934.D 50 =M414935.D 100 =M414936.D

		Compound	25	10	5	2.5	50	100	Avg	%RSD
45)		Trichloroethene	0.384	0.382	0.444	0.481	0.390	0.403	0.414	9.65
46)		Methyl Cyclohexane	0.374	0.371	0.429	0.454	0.380	0.391	0.400	8.43
47)		1,2-Dichloropropane	0.266	0.263	0.304	0.332	0.270	0.276	0.285	9.58
48)		Dibromomethane	0.314	0.310	0.362	0.387	0.323	0.326	0.337	9.11
49)		1,4-Dioxane	0.002	0.002	0.003	0.004	0.003	0.003	0.003	21.57
50)		Methyl Methacrylate	0.167	0.165	0.198	0.209	0.175	0.173	0.181	9.87
51)		Bromodichloromethan	0.553	0.537	0.615	0.683	0.556	0.575	0.587	9.26
52)		2-Nitropropane	0.042	0.043	0.053	0.056	0.047	0.045	0.048	11.96
53)		2-Chloroethyl vinyl	0.096	0.103	0.126	0.133	0.093	0.080	0.105	19.23
54)		4-Methyl-2-Pentanon	0.076	0.077	0.095	0.105	0.084	0.080	0.086	13.45
55)		cis-1,3-Dichloropro	0.412	0.401	0.458	0.502	0.415	0.426	0.436	8.69
56)		Toluene	0.511	0.500	0.579	0.634	0.512	0.533	0.545	9.54
57)		trans-1,3-Dichlorop	0.342	0.332	0.383	0.410	0.352	0.359	0.363	8.01
58)		1,1,2-Trichloroetha	0.228	0.225	0.269	0.286	0.235	0.235	0.246	10.21
59)	I	Chlorobenzene-d5	----------ISTD----------							
60)	S	Toluene-d8 (SURR)	1.009	1.001	1.152	1.264	1.011	1.062	1.083	9.72
61)		2-Hexanone	0.147	0.155	0.191	0.225	0.165	0.162	0.174	16.70
62)		Ethyl Methacrylate	0.348	0.351	0.415	0.437	0.366	0.366	0.380	9.64
63)		1,3-Dichloropropane	0.428	0.428	0.495	0.524	0.443	0.455	0.462	8.47
64)		Tetrachloroethene	0.457	0.454	0.522	0.572	0.460	0.477	0.490	9.70
65)		Dibromochloromethan	0.744	0.728	0.843	0.909	0.763	0.794	0.797	8.59
66)		1,2-Dibromoethane	0.562	0.561	0.649	0.691	0.584	0.595	0.607	8.59
67)		1-Chlorohexane	0.479	0.482	0.557	0.594	0.482	0.499	0.516	9.39
68)		Chlorobenzene	0.871	0.862	0.991	1.077	0.872	0.911	0.931	9.25
69)		1,1,1,2-Tetrachloro	0.498	0.503	0.591	0.647	0.500	0.522	0.543	11.40
70)		Ethylbenzene	1.216	1.191	1.367	1.504	1.210	1.264	1.292	9.42
71)		Xylene P,M	0.499	0.494	0.571	0.621	0.500	0.519	0.534	9.61
72)		Xylene O	0.471	0.476	0.543	0.596	0.473	0.488	0.508	10.00
73)		Styrene	0.819	0.804	0.918	0.999	0.819	0.850	0.868	8.76
74)		Bromoform	0.541	0.526	0.617	0.661	0.570	0.583	0.583	8.53
75)		cis-1,4-Dichloro-2-	0.111	0.127	0.112	0.119	0.113	0.110	0.115	5.84
76)	S	Bromofluorobenzene	0.684	0.680	0.783	0.873	0.679	0.702	0.733	10.80
77)	I	1,4 Dichlorobenzene-D	----------ISTD----------							
78)		Isopropylbenzene	2.395	2.382	2.735	3.010	2.412	2.587	2.587	9.64
79)		Trans-1,4-Dichloro-	0.145	0.138	0.159	0.171	0.156	0.163	0.155	7.79
80)		1,2,3-Trichloroprop	0.653	0.653	0.852	0.861	0.705	0.768	0.748	12.53
81)		Bromobenzene	0.842	0.836	0.961	1.058	0.856	0.907	0.910	9.54
82)		1,1,2,2-Tetrachloro	0.864	0.870	1.053	1.256	0.916	0.933	0.982	15.32
83)		n-Propylbenzene	3.166	3.070	3.512	3.848	3.101	3.185	3.314	9.24
84)		2-Chlorotoluene	1.422	1.484	1.746	1.995	1.493	1.709	1.625	11.45
85)		4-Chlorotoluene	2.010	2.012	2.291	2.677	1.998	2.131	2.186	12.13
86)		1,3,5-Trimethylbenz	1.963	1.949	2.275	2.505	1.973	2.102	2.128	10.45
87)		Pentachloroethane	2.772	2.760	3.190	3.550	2.776	2.916	2.994	10.62

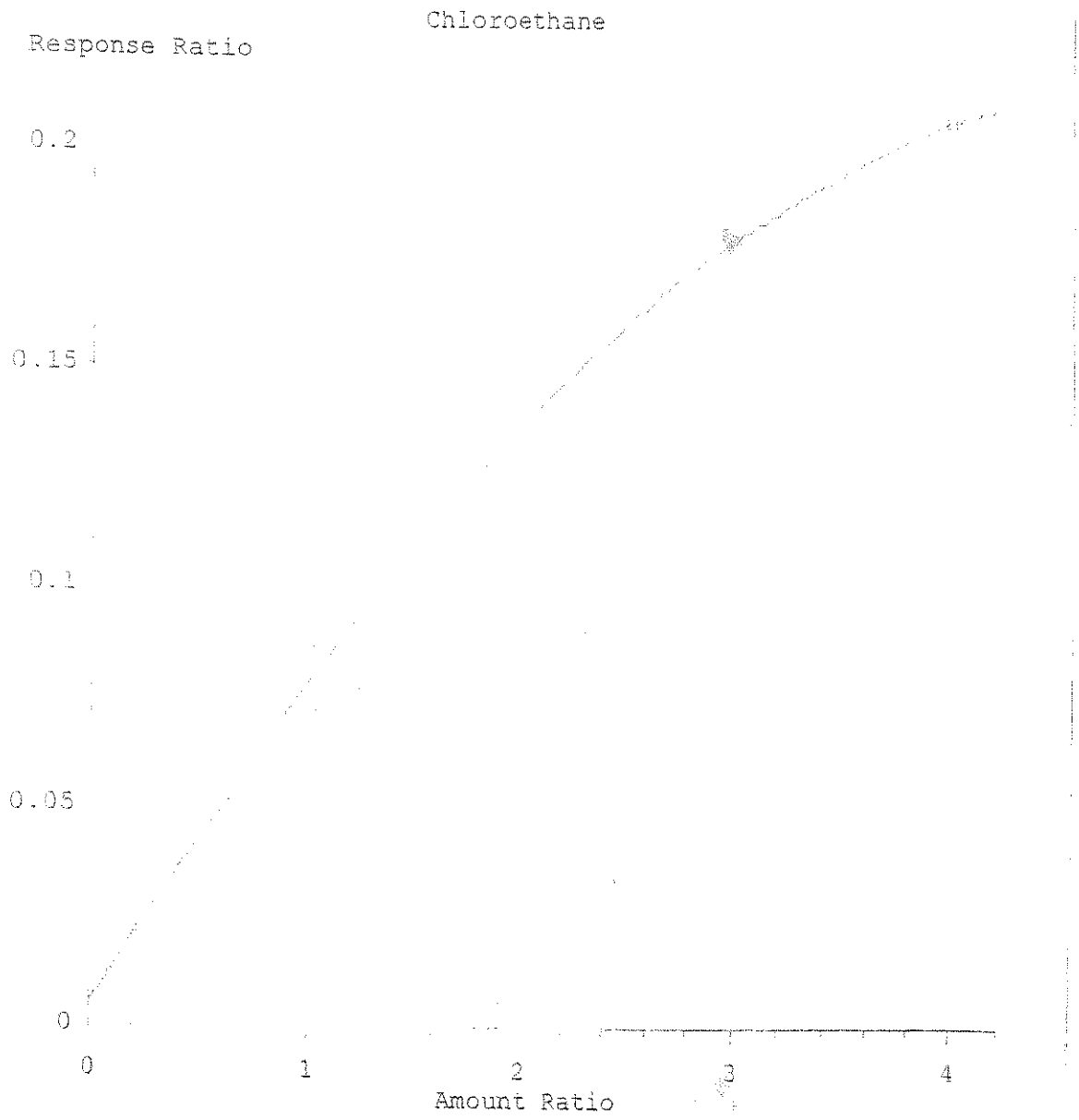
(#) = Out of Range
LC060606.M Tue Jun 06 12:26:54 2006 MS4 Page 2

Method : C:\HPCHEM\1\METHODS\L0060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration

Calibration Files
25 =M414931.D 10 =M414932.D 5 =M414933.D
2.5 =M414934.D 50 =M414935.D 100 =M414936.D

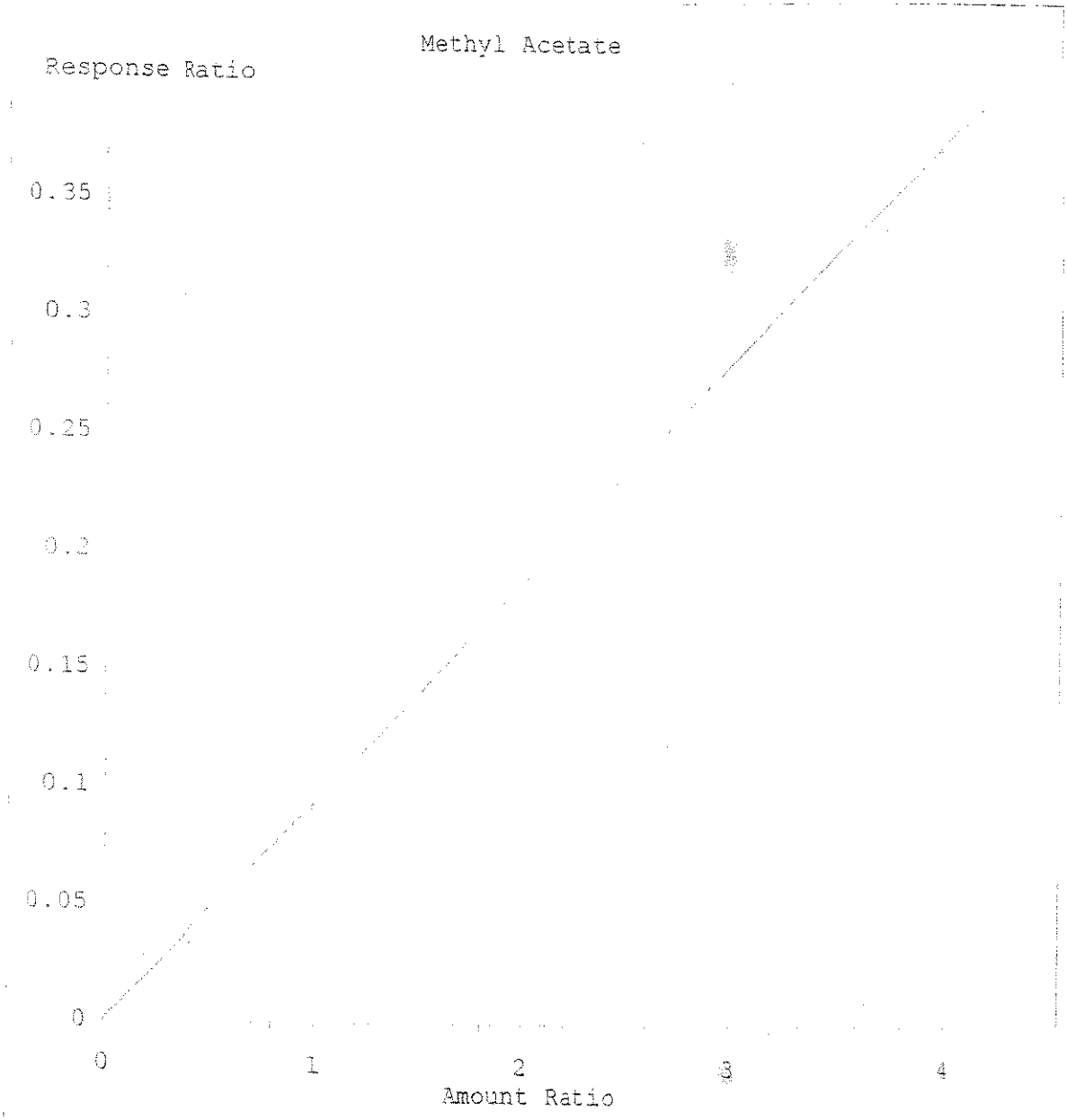
	Compound	25	10	5	2.5	50	100	Avg	%RSD
88)	tert-Butylbenzene	2.772	2.760	3.190	3.550	2.776	2.916	2.994	10.62
89)	1,2,4-Trimethylbenz	1.981	1.992	2.288	2.524	1.993	2.132	2.152	10.12
90)	sec-Butylbenzene	2.968	2.940	3.391	3.812	2.991	3.188	3.215	10.54
91)	1,3 Dichlorobenzene	1.430	1.418	1.649	1.828	1.427	1.521	1.545	10.61
92)	4-Isopropyltoluene	2.409	2.397	2.822	3.087	2.406	2.531	2.609	10.93
93)	1,4 Dichlorobenzene	1.481	1.455	1.754	1.950	1.477	1.554	1.612	12.34
94)	n-Butylbenzene	2.176	2.166	2.485	2.717	2.163	2.289	2.333	9.66
95)	1,2 Dichlorobenzene	1.283	1.308	1.499	1.679	1.292	1.362	1.404	11.18
96)	Hexachloroethane	0.930	0.906	1.035	1.132	0.943	1.008	0.993	8.45
97)	1,2-Dibromo-3-Chlor	0.157	0.158	0.198		0.178	0.179	0.174	9.83
98)	1,2,4-Trichlorobenz	1.060	1.065	1.241	1.496	1.051	1.109	1.170	14.90
99)	Hexachlorobutadiene	0.766	0.762	0.890	1.007	0.771	0.808	0.834	11.69
100)	Naphthalene	1.406	1.476	1.818	2.372	1.486	1.529	1.681	21.86
101)	1,2,3-Trichlorobenz	0.877	0.907	1.061	1.370	0.888	0.931	1.006	18.93

(#) = Out of Range



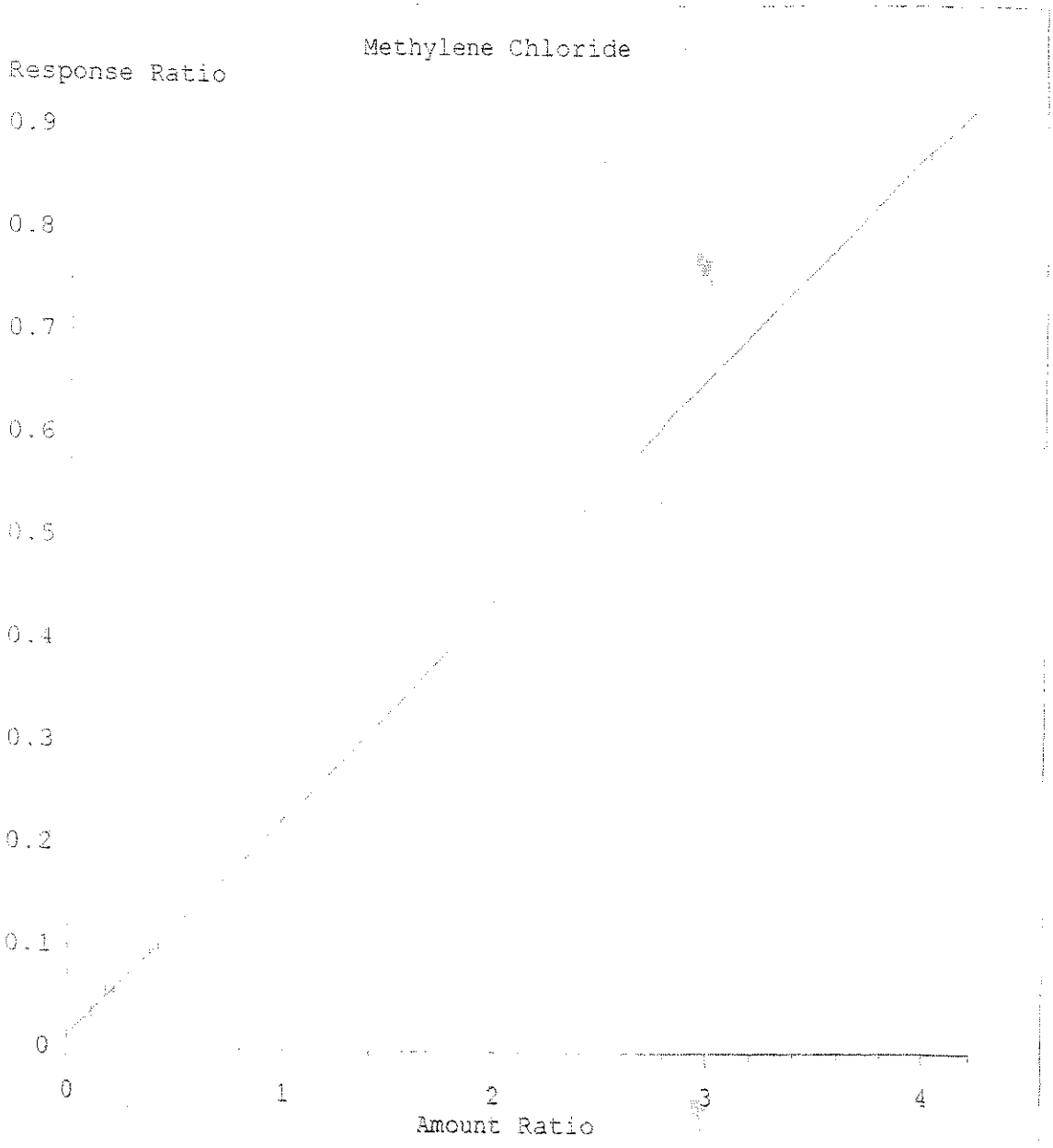
R = -7.80e-003 A*A + 8.12e-002 A + 4.82e-003
Curve Fit: Quadratic

Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:23:38 2006



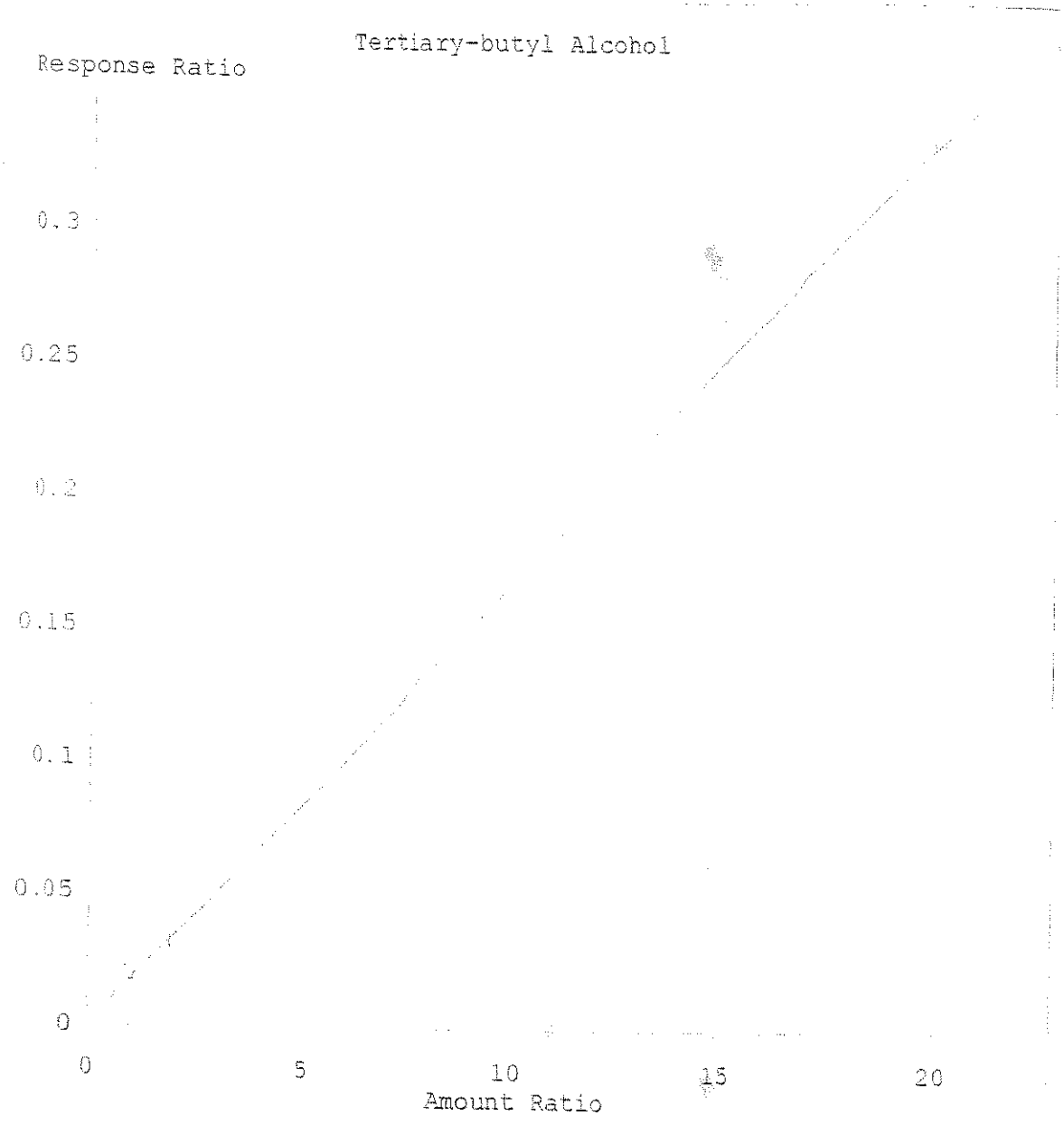
Resp Ratio = 9.30e-002 * Amt + 1.30e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\L0060606.M
Calibration Table Last Updated: Tue Jun 06 12:24:44 2006



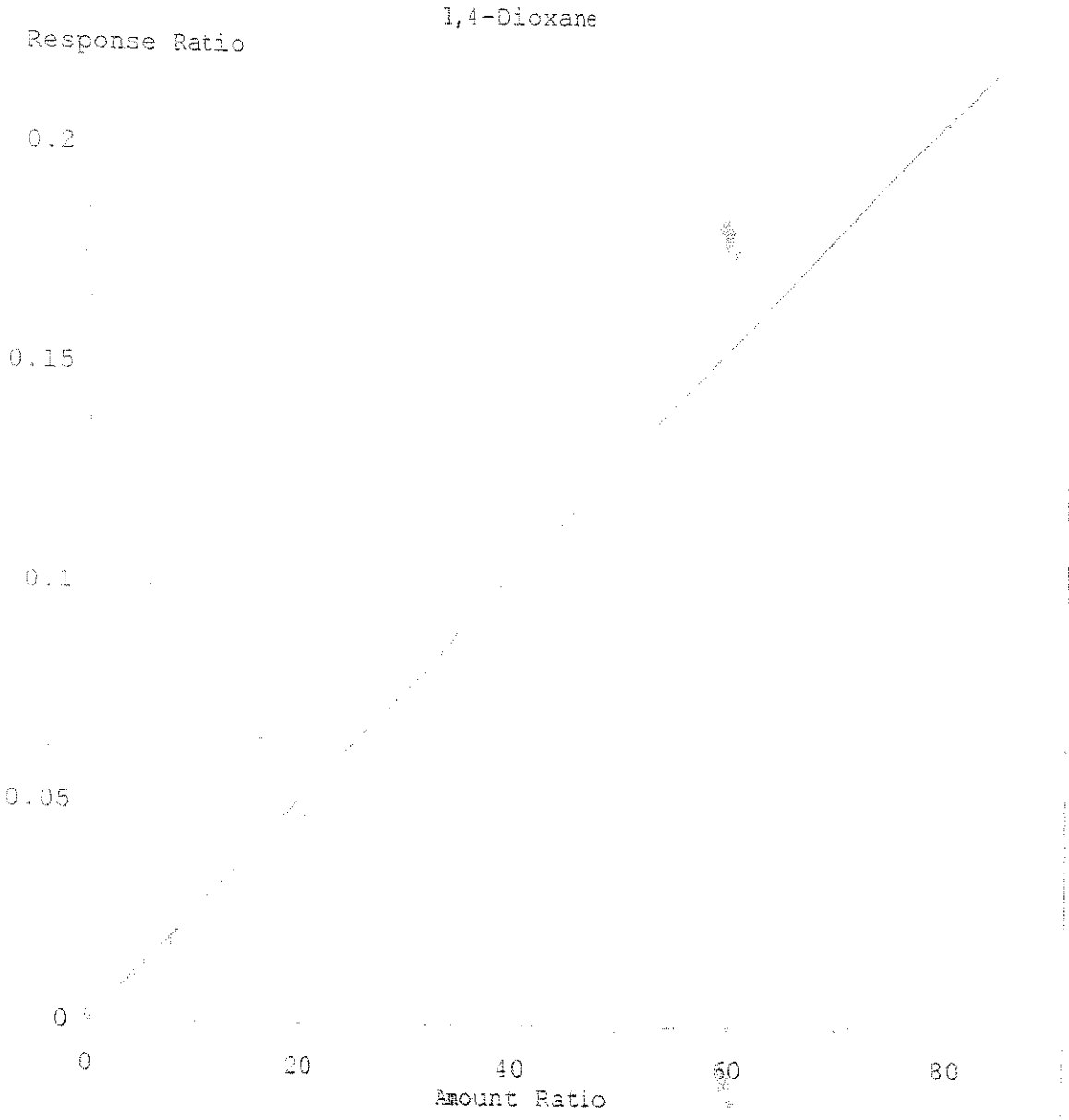
Resp Ratio = 2.16e-001 * Amt + 1.07e-002
Coef of Det (r^2) = 1.000 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:25:03 2006



Resp Ratio = 1.66e-002 * Amt + 1.49e-003
Coef of Det (r^2) = 0.998 Curve Fit: Linear

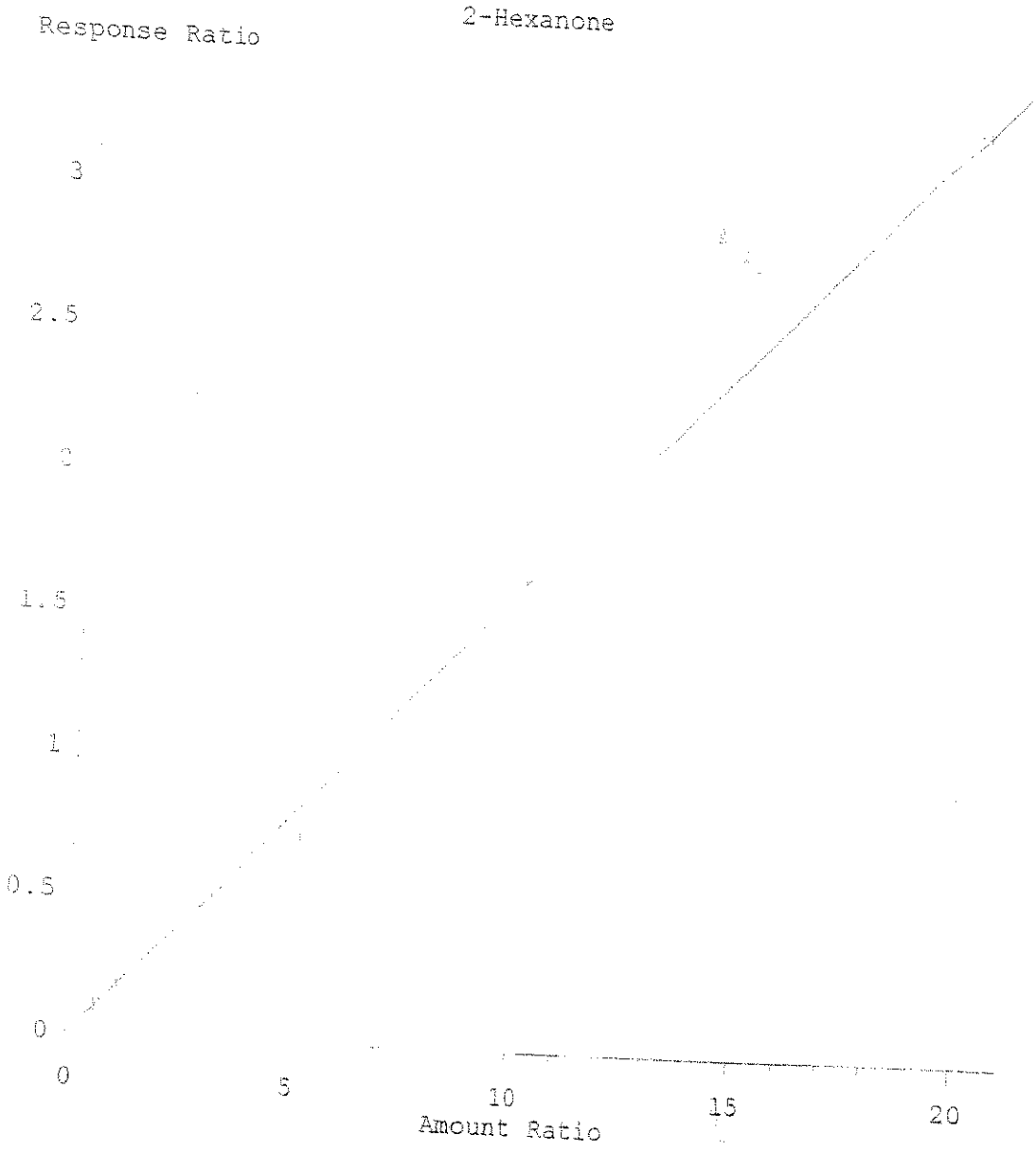
Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:25:08 2006



Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:25:24 2006

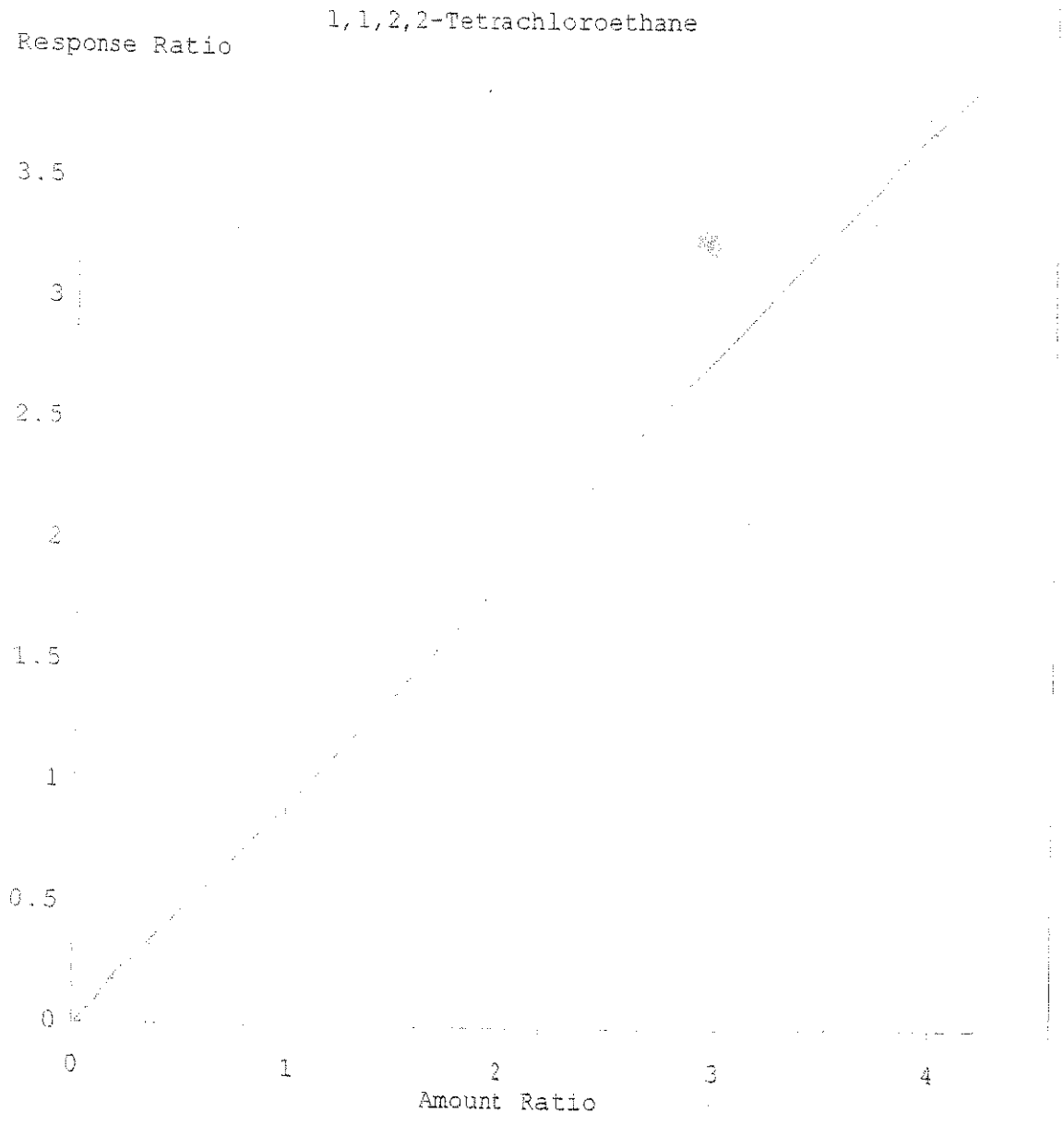
Resp Ratio = 7.94e-002 * Amt + 1.19e-002
Coef of Det (r^2) = 0.995 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:25:36 2006



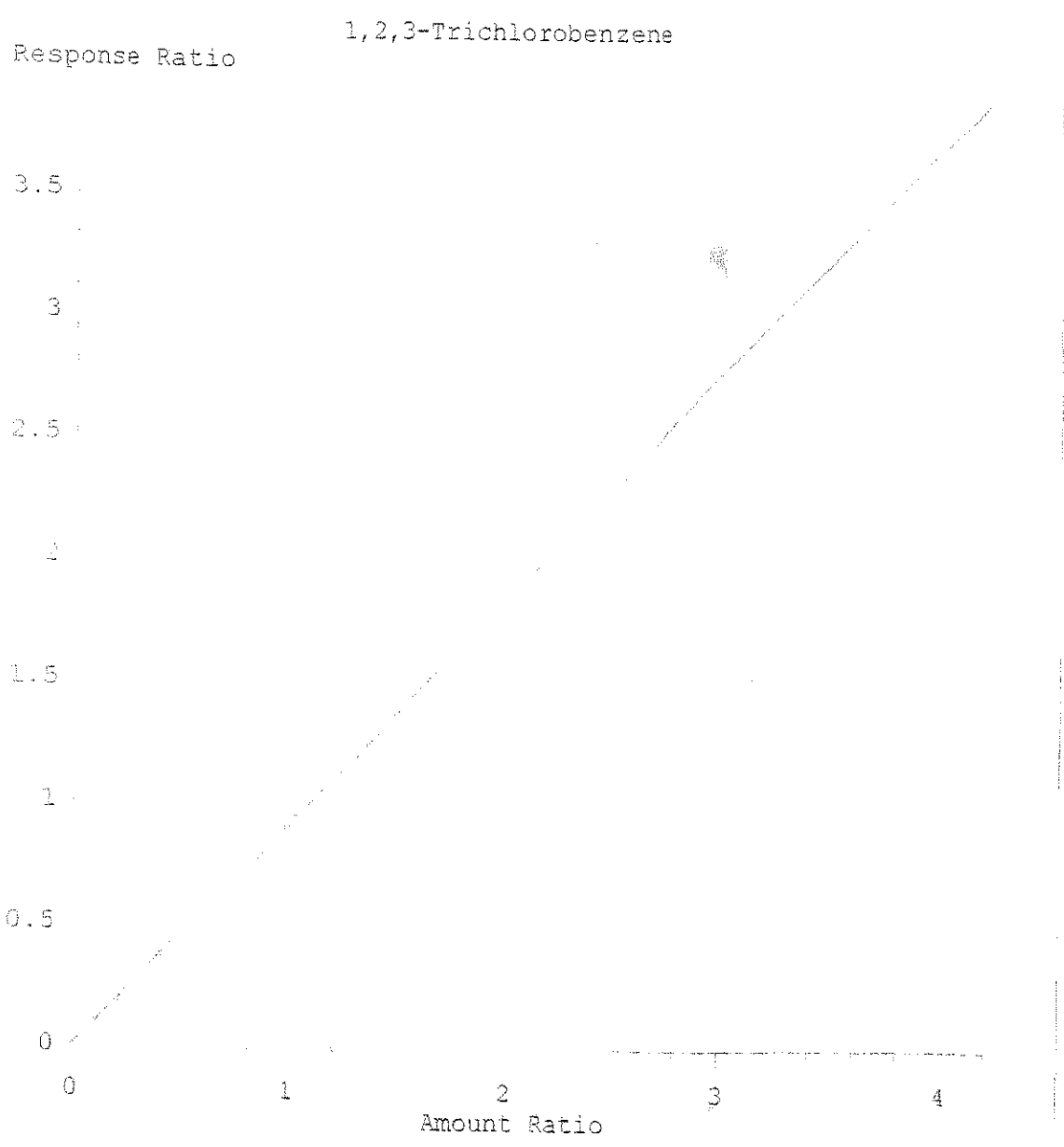
Resp Ratio = 1.62e-001 * Amt + 2.61e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:25:51 2006



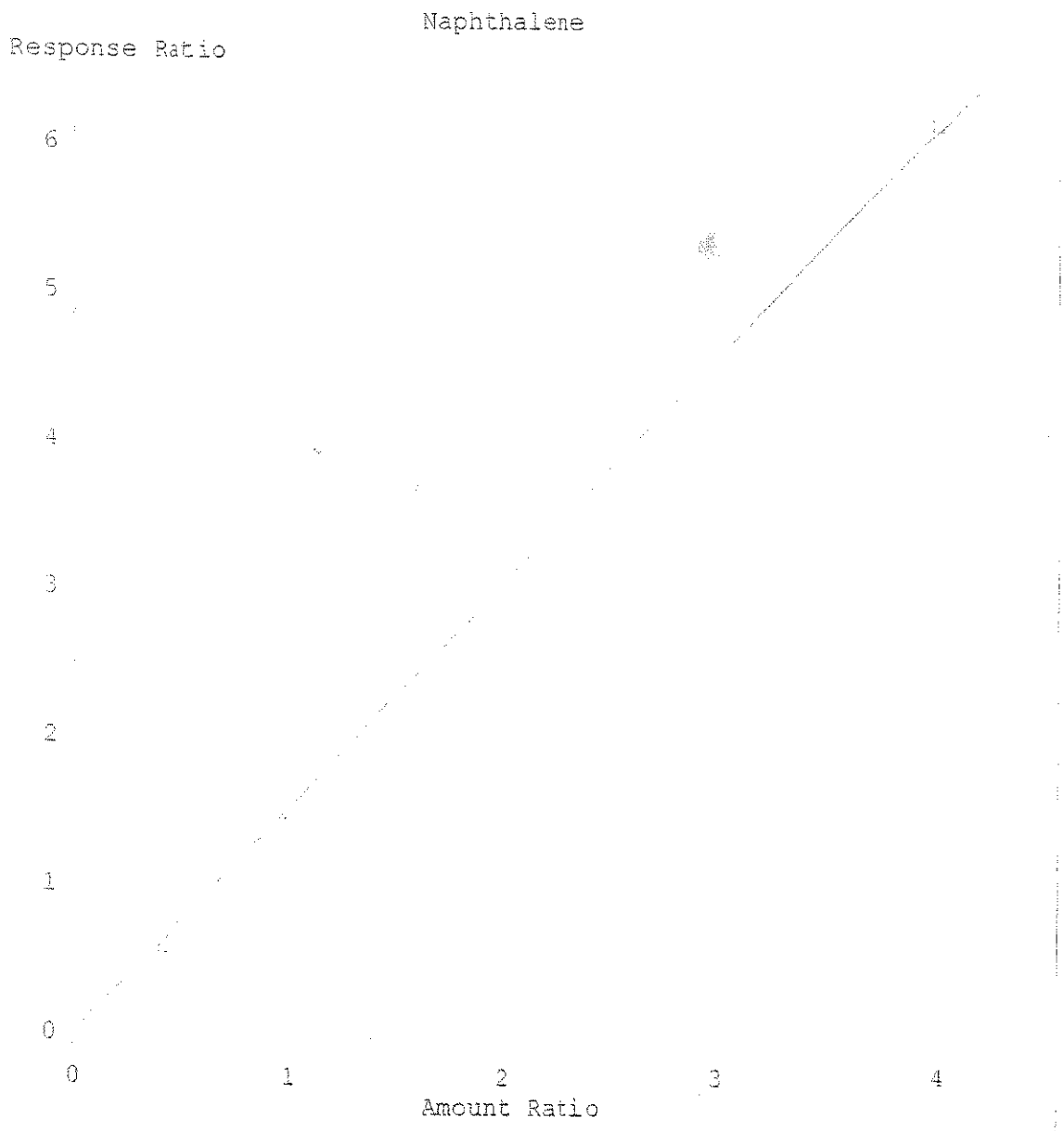
Resp Ratio = 9.29e-001 * Amt - 6.52e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:26:03 2006



Resp Ratio = 9.21e-001 * Amt - 8.41e-005
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:26:38 2006



Resp Ratio = 1.51e+000 * Amt + 4.82e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\L0060606.M
Calibration Table Last Updated: Tue Jun 06 12:26:31 2006

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4_MH\MH0606\MH060606\M414938.D Vial: 9
Acq On : 6 Jun 2006 12:54 pm Operator: MD
Sample : BPF0045-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	98	0.00
2		Dichlorodifluoromethane	0.333	0.392	-17.7	124	0.00
3		Chloromethane	0.158	0.166	-5.1	114	0.00
4		Vinyl Chloride	0.174	0.184	-5.7	111	0.00
5		Bromomethane	0.160	0.154	3.8	102	0.00
6		Chloroethane	0.084	0.058	31.0#	67	0.00
7		Trichlorofluoromethane	0.584	0.570	2.4	103	0.00
8		Diethyl ether	0.105	0.108	-2.9	109	0.00
9		Acrolein	0.021	0.013	38.1#	70	0.01
10		1,1,2-Trichloro-1,2,2-trifl	0.575	0.558	3.0	101	0.00
11		Acetone	0.009	0.008	11.1	98	0.00
12		Iodomethane	0.572	0.627	-9.6	114	0.00
13		Carbon Disulfide	0.622	0.643	-3.4	110	0.00
14		1,1-Dichloroethene	0.247	0.264	-6.9	112	0.00
15		Allyl Chloride	0.248	0.238	4.0	100	0.00
16		Methyl Acetate	0.099	0.098	1.0	109	0.00
17		Methylene Chloride	0.259	0.240	7.3	107	0.00
18		Tertiary-butyl Alcohol	0.019	0.000	100.0#	0#	-2.98#
19		Methyl tert-Butyl Ether	0.425	0.411	3.3	102	0.00
20		Acrylonitrile	0.036	0.034	5.6	102	0.00
21		trans-1,2-Dichloroethene	0.285	0.285	0.0	105	0.00
22		1,1-Dichloroethane	0.456	0.450	1.3	104	0.00
23		Chloroprene	0.277	0.000	100.0#	0#	-3.68#
24		Vinyl Acetate	0.692	0.671	3.0	103	0.00
25		Di-isopropyl ether	0.680	0.690	-1.5	107	0.00
26		Ethyl tertiary-butyl ether	0.624	0.611	2.1	103	0.00
27		2-Butanone	0.018	0.017	5.6	103	0.00
28		cis-1,2 Dichloroethene	0.322	0.342	-6.2	111	0.00
29		2,2-Dichloropropane	0.390	0.379	2.8	101	0.00
30		Methyl Acrylate	0.185	0.179	3.2	105	0.00
31		Methacrylonitrile	0.108	0.098	9.3	104	0.00
32		Bromochloromethane	0.241	0.243	-0.8	105	0.00
33		Tetrahydrofuran	0.048	0.048	0.0	105	0.00
34		Chloroform	0.574	0.572	0.3	105	0.00
35		1,1,1-Trichloroethane	0.560	0.555	0.9	105	0.00
36	S	Dibromofluoromethane(SURR)	0.758	0.729	3.8	103	0.00
37		Cyclohexane	0.313	0.321	-2.6	106	0.00
38		1-Chlorobutane	0.412	0.429	-4.1	113	0.00
39		1,1-Dichloropropene	0.392	0.387	1.3	105	0.00
40		Carbon Tetrachloride	0.614	0.601	2.1	104	0.00
41		Benzene	0.707	0.711	-0.6	106	0.00
42	S	1,2-Dichloroethane-d4(SURR)	0.246	0.234	4.9	102	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4_MH\MH0606\MH060606\M414938.D Vial: 9
Acq On : 6 Jun 2006 12:54 pm Operator: MD
Sample : BPF0045-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43		1,2-Dichloroethane	0.257	0.246	4.3	100	0.00
44		Tertiary-amyl methyl ether	0.571	0.576	-0.9	106	0.00
45		Trichloroethene	0.414	0.408	1.4	104	0.00
46		Methyl Cyclohexane	0.400	0.415	-3.7	109	0.00
47		1,2-Dichloropropane	0.285	0.277	2.8	102	0.00
48		Dibromomethane	0.337	0.342	-1.5	106	0.00
49		1,4-Dioxane	0.003	0.003	0.0	109	0.00
50		Methyl Methacrylate	0.181	0.170	6.1	100	0.00
51		Bromodichloromethane	0.587	0.613	-4.4	108	0.00
52		2-Nitropropane	0.048	0.047	2.1	108	0.00
53		2-Chloroethyl vinyl ether	0.105	0.112	-6.7	114	0.00
54		4-Methyl-2-Pentanone	0.086	0.080	7.0	103	0.00
55		cis-1,3-Dichloropropene	0.436	0.417	4.4	99	0.00
56		Toluene	0.545	0.542	0.6	104	0.00
57		trans-1,3-Dichloropropene	0.363	0.320	11.8	92	0.00
58		1,1,2-Trichloroethane	0.246	0.240	2.4	103	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
60	S	Toluene-d8 (SURR)	1.083	1.056	2.5	102	0.00
61		2-Hexanone	0.174	0.158	9.2	105	0.01
62		Ethyl Methacrylate	0.380	0.361	5.0	101	0.00
63		1,3-Dichloropropane	0.462	0.456	1.3	103	0.00
64		Tetrachloroethene	0.490	0.481	1.8	102	0.00
65		Dibromochloromethane	0.797	0.806	-1.1	105	0.00
66		1,2-Dibromoethane	0.607	0.588	3.1	102	0.00
67		1-Chlorohexane	0.516	0.512	0.8	104	0.00
68		Chlorobenzene	0.931	0.912	2.0	102	0.00
69		1,1,1,2-Tetrachloroethane	0.543	0.522	3.9	102	0.00
70		Ethylbenzene	1.292	1.305	-1.0	104	0.00
71		Xylene P,M	0.534	0.534	0.0	104	0.00
72		Xylene O	0.508	0.503	1.0	104	0.00
73		Styrene	0.868	0.879	-1.3	104	0.00
74		Bromoform	0.583	0.578	0.9	104	0.00
75		cis-1,4-Dichloro-2-butene	0.115	0.000	100.0#	0#	-13.74#
76	S	Bromofluorobenzene (SURR)	0.733	0.713	2.7	101	0.00
77	I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	95	0.00
78		Isopropylbenzene	2.587	2.385	7.8	95	0.00
79		Trans-1,4-Dichloro-2-Butene	0.155	0.144	7.1	94	0.00
80		1,2,3-Trichloropropane	0.748	0.742	0.8	108	0.00
81		Bromobenzene	0.910	0.943	-3.6	106	0.00
82		1,1,2,2-Tetrachloroethane	0.982	0.923	6.0	101	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4_MH\MH0606\MH060606\M414938.D Vial: 9
Acq On : 6 Jun 2006 12:54 pm Operator: MD
Sample : BPF0045-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	n-Propylbenzene	3.314	3.324	-0.3	100	0.00
84	2-Chlorotoluene	1.625	1.620	0.3	108	0.00
85	4-Chlorotoluene	2.186	2.143	2.0	101	0.00
86	1,3,5-Trimethylbenzene	2.128	2.146	-0.8	104	0.00
87	Pentachloroethane	2.994	2.994	0.0	103	0.00
88	tert-Butylbenzene	2.994	2.994	0.0	103	0.00
89	1,2,4-Trimethylbenzene	2.152	2.186	-1.6	105	0.00
90	sec-Butylbenzene	3.215	3.196	0.6	102	0.00
91	1,3 Dichlorobenzene	1.545	1.494	3.3	99	0.00
92	4-Isopropyltoluene	2.609	2.568	1.6	101	0.00
93	1,4 Dichlorobenzene	1.612	1.532	5.0	98	0.00
94	n-Butylbenzene	2.333	2.336	-0.1	102	0.00
95	1,2 Dichlorobenzene	1.404	1.369	2.5	101	0.00
96	Hexachloroethane	0.993	1.002	-0.9	102	0.00
97	1,2-Dibromo-3-Chloropropane	0.174	0.173	0.6	105	0.00
98	1,2,4-Trichlorobenzene	1.170	1.126	3.8	101	0.00
99	Hexachlorobutadiene	0.834	0.815	2.3	101	0.00
100	Naphthalene	1.681	1.562	7.1	105	0.00
101	1,2,3-Trichlorobenzene	1.006	0.965	4.1	104	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH060606\M414938.D Vial: 9
Acq On : 6 Jun 2006 12:54 pm Operator: MD
Sample : BPF0045-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 6 14:25 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.25	96	4218516	25.00 ug/l	0.00
59) Chlorobenzene-d5	11.58	117	3603135	25.00 ug/l	0.00
77) 1,4 Dichlorobenzene-D4	15.98	152	2042242	25.00 ug/l	0.00
System Monitoring Compounds					
36) Dibromofluoromethane(SURR)	5.18	111	3073481	24.02 ug/l	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 96.08%		
42) 1,2-Dichloroethane-d4(SURR	5.68	65	986507	23.78 ug/l	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 95.12%		
60) Toluene-d8 (SURR)	9.00	98	3806538	24.38 ug/l	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 97.52%		
76) Bromofluorobenzene (SURR)	13.79	95	2570827	24.32 ug/l	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 97.28%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.20	85	1655382	29.44 ug/l	100
3) Chloromethane	1.35	50	701621	26.25 ug/l	99
4) Vinyl Chloride	1.41	62	775868	26.50 ug/l	99
5) Bromomethane	1.64	94	649151m	24.11 ug/l	
6) Chloroethane	1.69	64	244853	17.58 ug/l	95
7) Trichlorofluoromethane	1.89	101	2403302	24.40 ug/l	100
8) Diethyl ether	2.14	59	456836	25.73 ug/l	99
9) Acrolein	2.25	56	56221	16.14 ug/l	98
10) 1,1,2-Trichloro-1,2,2-trif	2.32	101	2353334	24.25 ug/l	93
11) Acetone	2.39	58	177456	110.78 ug/l	97
12) Iodomethane	2.44	142	2645355	27.39 ug/l	100
13) Carbon Disulfide	2.48	76	2714216	25.84 ug/l	100
14) 1,1-Dichloroethene	2.30	96	1112272	26.69 ug/l	98
15) Allyl Chloride	2.65	41	1004598	24.05 ug/l	95
16) Methyl Acetate	2.69	43	412967	25.97 ug/l	99
17) Methylene Chloride	2.77	84	1012934	26.59 ug/l	99
19) Methyl tert-Butyl Ether	3.09	73	1731847	24.17 ug/l	99
20) Acrylonitrile	3.05	53	142778	23.21 ug/l	97
21) trans-1,2-Dichloroethene	3.05	96	1200308	24.94 ug/l	98
22) 1,1-Dichloroethane	3.56	63	1897387	24.64 ug/l	100
24) Vinyl Acetate	3.69	43	2831053	24.24 ug/l	98
25) Di-isopropyl ether	3.72	45	2908719	25.35 ug/l	92
26) Ethyl tertiary-butyl ether	4.25	59	2577994	24.47 ug/l	100
27) 2-Butanone	4.49	72	364285	119.57 ug/l	99
28) cis-1,2 Dichloroethene	4.40	96	1441731	26.54 ug/l	98
29) 2,2-Dichloropropane	4.39	77	1597262	24.26 ug/l	99
30) Methyl Acrylate	4.64	55	754052	24.14 ug/l	99

(#) = qualifier out of range (m) = manual integration

Data File : Q:/VOA/MS4_MH/MH0606/MH060606\M414938.D Vial: 9
Acq On : 6 Jun 2006 12:54 pm Operator: MD
Sample : BPF0045-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 6 14:25 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31)	Methacrylonitrile	4.81	41	411849	22.68 ug/l	99
32)	Bromochloromethane	4.76	128	1024147	25.13 ug/l	97
33)	Tetrahydrofuran	4.85	42	202176	24.77 ug/l	99
34)	Chloroform	4.92	83	2414533	24.95 ug/l	99
35)	1,1,1-Trichloroethane	5.16	97	2343111	24.78 ug/l	100
37)	Cyclohexane	5.22	56	1354685	25.66 ug/l	99
38)	1-Chlorobutane	5.36	56	1810072	26.03 ug/l	99
39)	1,1-Dichloropropene	5.43	75	1632466	24.68 ug/l	99
40)	Carbon Tetrachloride	5.42	117	2533910	24.45 ug/l	100
41)	Benzene	5.76	78	3000675	25.17 ug/l	100
43)	1,2-Dichloroethane	5.80	62	1039494	23.95 ug/l	98
44)	Tertiary-amyl methyl ether	6.04	73	2427781	25.19 ug/l	99
45)	Trichloroethene	6.86	95	1722516	24.67 ug/l	98
46)	Methyl Cyclohexane	7.16	83	1751764	25.96 ug/l	100
47)	1,2-Dichloropropane	7.23	63	1168294	24.29 ug/l	100
48)	Dibromomethane	7.42	93	1440658	25.33 ug/l	97
49)	1,4-Dioxane	7.53	88	217620	501.81 ug/l	98
50)	Methyl Methacrylate	7.57	41	718464	23.50 ug/l	99
51)	Bromodichloromethane	7.75	83	2584400	26.11 ug/l	100
52)	2-Nitropropane	8.18	43	196686	24.48 ug/l	99
53)	2-Chloroethyl vinyl ether	8.36	63	470652	31.38 ug/l	97
54)	4-Methyl-2-Pentanone	8.90	58	1686451	115.98 ug/l	87
55)	cis-1,3-Dichloropropene	8.54	75	1758785	23.93 ug/l	98
56)	Toluene	9.11	92	2288436	24.89 ug/l	99
57)	trans-1,3-Dichloropropene	9.57	75	1351432	22.07 ug/l	99
58)	1,1,2-Trichloroethane	9.88	83	1013661	24.38 ug/l	98
61)	2-Hexanone	10.42	43	2847516	121.86 ug/l	99
62)	Ethyl Methacrylate	9.84	69	1299357	23.70 ug/l	96
63)	1,3-Dichloropropane	10.15	76	1642370	24.65 ug/l	100
64)	Tetrachloroethene	10.06	164	1734694	24.54 ug/l	99
65)	Dibromochloromethane	10.53	129	2902755	25.28 ug/l	99
66)	1,2-Dibromoethane	10.68	107	2119948	24.22 ug/l	99
67)	1-Chlorohexane	11.70	91	1846121	24.85 ug/l	99
68)	Chlorobenzene	11.62	112	3285783	24.50 ug/l	99
69)	1,1,1,2-Tetrachloroethane	11.80	131	1879185	24.00 ug/l	99
70)	Ethylbenzene	11.87	91	4701035	25.25 ug/l	100
71)	Xylene P,M	12.11	106	3845429	49.97 ug/l	99
72)	Xylene O	12.83	106	1812208	24.76 ug/l	98
73)	Styrene	12.86	104	3168890	25.32 ug/l	99
74)	Bromoform	13.14	173	2081088	24.77 ug/l	100
78)	Isopropylbenzene	13.54	105	4870548	23.05 ug/l	100
79)	Trans-1,4-Dichloro-2-Buten	14.27	53	293549	23.14 ug/l	94

(#) = qualifier out of range (m) = manual integration

Data File : Q:/VOA/MS4_MH/MH0606/MH060606\M414938.D Vial: 9
Acq On : 6 Jun 2006 12:54 pm Operator: MD
Sample : BPF0045-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 6 14:25 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
80)	1,2,3-Trichloropropane	14.18	75	1515359	24.78 ug/l	100
81)	Bromobenzene	14.02	156	1924903	25.90 ug/l	99
82)	1,1,2,2-Tetrachloroethane	14.15	83	1884158	25.02 ug/l	99
83)	n-Propylbenzene	14.33	91	6787427	25.07 ug/l	99
84)	2-Chlorotoluene	14.42	91	3307599	24.92 ug/l	94
85)	4-Chlorotoluene	14.64	91	4377399	24.51 ug/l	99
86)	1,3,5-Trimethylbenzene	14.70	105	4381765	25.21 ug/l	100
87)	Pentachloroethane	15.28	119	6113794	25.00 ug/l	99
88)	tert-Butylbenzene	15.28	119	6113794	25.00 ug/l	99
89)	1,2,4-Trimethylbenzene	15.39	105	4463353	25.39 ug/l	99
90)	sec-Butylbenzene	15.71	105	6527574	24.86 ug/l	99
91)	1,3 Dichlorobenzene	15.85	146	3051217	24.17 ug/l	100
92)	4-Isopropyltoluene	16.03	119	5244295	24.61 ug/l	99
93)	1,4 Dichlorobenzene	16.03	146	3128473	23.76 ug/l	99
94)	n-Butylbenzene	16.82	91	4770184	25.03 ug/l	99
95)	1,2 Dichlorobenzene	16.71	146	2795854	24.38 ug/l	100
96)	Hexachloroethane	17.19	117	2047296	25.25 ug/l	98
97)	1,2-Dibromo-3-Chloropropan	18.26	75	353464	24.83 ug/l	96
98)	1,2,4-Trichlorobenzene	20.16	180	2300044	24.06 ug/l	100
99)	Hexachlorobutadiene	20.57	225	1664291	24.43 ug/l	99
100)	Naphthalene	20.61	128	3189021	25.71 ug/l	100
101)	1,2,3-Trichlorobenzene	21.01	180	1970550	26.20 ug/l	98

(#) = qualifier out of range (m) = manual integration

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH061306\M414986.D Vial: 10
Acq On : 13 Jun 2006 2:07 pm Operator: MD
Sample : BPF0103-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)
Title : Element ID: 0605011
Last Update : Tue Jun 13 14:28:50 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	106	0.00
2		Dichlorodifluoromethane	0.306	0.311	-1.6	108	0.00
3		Chloromethane	0.168	0.149	11.3	102	0.00
4		Vinyl Chloride	0.160	0.155	3.1	105	0.00
5		Bromomethane	0.180	0.179	0.6	108	0.00
6		Chloroethane	0.094	0.095	-1.1	106	0.00
7		Trichlorofluoromethane	0.529	0.480	9.3	97	0.00
8		Diethyl ether	0.097	0.088	9.3	101	0.00
9		Acrolein	0.015	0.009	40.0#	64	0.01
10		1,1,2-Trichloro-1,2,2-trifl	0.562	0.515	8.4	97	0.00
11		Acetone	0.006	0.005	16.7	90	0.00
12		Iodomethane	0.464	0.534	-15.1	110	0.00
13		Carbon Disulfide	0.674	0.649	3.7	104	0.00
14		1,1-Dichloroethene	0.265	0.266	-0.4	103	0.00
15		Allyl Chloride	0.249	0.227	8.8	93	0.00
16		Methyl Acetate	0.074	0.073	1.4	101	0.00
17		Methylene Chloride	0.261	0.270	-3.4	111	0.00
18		Methyl tert-Butyl Ether	0.377	0.357	5.3	100	0.00
19		Acrylonitrile	0.027	0.025	7.4	97	0.00
20		trans-1,2-Dichloroethene	0.307	0.300	2.3	104	0.00
21		1,1-Dichloroethane	0.453	0.428	5.5	102	0.00
22		Chloroprene	0.260	0.005	98.1#	2#	0.00
23		Vinyl Acetate	0.607	0.560	7.7	99	0.00
24		Di-isopropyl ether	0.693	0.661	4.6	103	0.00
25		Ethyl tertiary-butyl ether	0.591	0.537	9.1	98	0.00
26		2-Butanone	0.008	0.008	0.0	93	0.00
27		cis-1,2 Dichloroethene	0.322	0.328	-1.9	110	0.00
28		2,2-Dichloropropane	0.351	0.319	9.1	94	0.00
29		Methyl Acrylate	0.116	0.103	11.2	95	0.00
30		Methacrylonitrile	0.067	0.064	4.5	97	0.00
31		Bromochloromethane	0.228	0.221	3.1	101	0.00
32		Tetrahydrofuran	0.027	0.023	14.8	89	0.01
33		Chloroform	0.576	0.550	4.5	103	0.00
34		1,1,1-Trichloroethane	0.528	0.499	5.5	101	0.00
35	S	Dibromofluoromethane(SURR)	0.733	1.811	-147.1#	267#	0.00
36		Cyclohexane	0.273	0.267	2.2	98	0.00
37		1-Chlorobutane	0.396	0.385	2.8	108	0.00
38		1,1-Dichloropropene	0.366	0.346	5.5	101	0.00
39		Carbon Tetrachloride	0.547	0.521	4.8	103	0.00
40		Benzene	0.706	0.678	4.0	104	0.00
41	S	1,2-Dichloroethane-d4(SURR)	0.218	0.516	-136.7#	256#	0.00
42		1,2-Dichloroethane	0.237	0.215	9.3	99	0.00

(#) = Out of Range

ANALYSIS SEQUENCE

BPF0210

Instrument: VMS4

Calibnration ID: 0606010

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0210-TUN1	QC		1		6F26058		
BPF0210-CCV1	QC		2		6F26059	6F22041	
BF62614-BLK1	QC		3			6F22041	
BF62614-BS1	QC		4			6F22041	
BF62614-BSD1	QC		5			6F22041	
0606374-11	OC: x5035/8260 ppb Low Lev	E	6			6F22041	MACTEC Engineering & Consulting, In
0606374-12	OC: x5035/8260 ppb Low Lev	F	7			6F22041	MACTEC Engineering & Consulting, In
0606374-10	OC: x5035/8260 ppb Low Lev	D	8			6F22041	MACTEC Engineering & Consulting, In
0606374-09	OC: x5035/8260 ppb Low Lev	F	9			6F22041	MACTEC Engineering & Consulting, In
0606374-08	OC: x5035/8260 ppb Low Lev	F	10			6F22041	MACTEC Engineering & Consulting, In
0606374-06	OC: x5035/8260 ppb Low Lev	F	11			6F22041	MACTEC Engineering & Consulting, In
0606374-04	OC: x5035/8260 ppb Low Lev	F	12			6F22041	MACTEC Engineering & Consulting, In
0606374-02	OC: x5035/8260 ppb Low Lev	B	13			6F22041	MACTEC Engineering & Consulting, In
0606374-01	OC: x5035/8260 ppb Low Lev	F	14			6F22041	MACTEC Engineering & Consulting, In
0606373-21	OC: x5035/8260 ppb Low Lev	D	15			6F22041	MACTEC Engineering & Consulting, In
0606373-20	OC: x5035/8260 ppb Low Lev	E	16			6F22041	MACTEC Engineering & Consulting, In
0606373-19	OC: x5035/8260 ppb Low Lev	D	17			6F22041	MACTEC Engineering & Consulting, In
0606373-18	OC: x5035/8260 ppb Low Lev	D	18			6F22041	MACTEC Engineering & Consulting, In
0606383-11	OC: x5035/8260 ppb Low Lev	C	19			6F22041	MACTEC Engineering & Consulting, In
0606374-05	OC: x5035/8260 ppb Low Lev	D	20			6F22041	MACTEC Engineering & Consulting, In
BF62614-MSD1	QC		21			6F22041	
BF62614-MS1	QC		22			6F22041	

Samples Loaded By Date Data Processed By Date

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/23/06	11	M4 15126	060373-03	L060606	7.2/10 D4238	[illegible]
	12	M4 27	-04		4.8/10 D4239	
	13	M4 28	-05		4.1/10 D4242	
	14	M4 29	-06		3/10 D4244	
	15	M4 30	-07		2.9/10 D4231	
	16	M4 31	TestBlk ~~-08~~ 6/23/06		-08: Both vials broke in freezer	
	17	M4 32	060373 -09		7/10 D4226	
	18	M4 33	-10		5.1/10 D4229	
	19	M4 34	-11		5/10 JB D4228	
	20	M4 35	-12		3.7/10 D3188	
	21	M4 36	-13		5.2/10 D4214	
	22	M4 37	-14		7.6/10 D4210	
	23	M4 38	-15		6.8/10 D4233	
	24	M4 39	-16		7.3/10 D4220	
6/23/06	25	M4 40	-17	L060606	7.4/10 D4197	[illegible]
6/26/06	1	M4 41	BPF0210-JUM		6F26008	
6/26/06	2	M4 42	BPF0210-CCV1	L060606	6F26059	[illegible]

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: 6F22039

On-column IS: 6F22041

Page______

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/26/06	3	M4 15143	BF62614- BS1	1006060	6F26060	mo
	4	M4 44	BF62614- BSD1		6F26060	
	5	M4 45	Test Blk			
	6	M4 46	BF62614- BLK1			
	7	M4 47	0606373 -18		3.9/10 04219	
	8	M4 48	-19		7.3/10 04218	
	9	M4 49	-20		9.2/10 04184	
	10	M4 50	-21		8.3/10 04195	
	11	M4 51	0606374 -01		7/10 04182	
	12	M4 52	-02		6.2/10 04217	
	13	M4 53	-03		8/10 04193	
	14	M4 54	-04		6.9/10 04204	
	15	M4 55	-05		6.7/10 04180	
	16	M4 56	-06		7.5/10 04215	
	17	M4 57	-07		4.5/10 04191	
	18	M4 58	-08		6.9/10 04202	
6/26/06	19	M4 59	-09	1006060	3.8/10 04178	mo

456

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: 6F22039

On-column IS: 6F22041

Page_____

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/26/06	20	M4 15160	Q606374-10	L006Q606	4.7/10 Q4190	mw
	21	M4 61	-11		7/10 Q4212	
	22	M4 62	-12		3.6/10 Q4177	
	23	M4 63	Q606383-11		6.7/10 Q4335	
	24	M4 64	BF62614-MS1		4.1/10 Q4336 Q606383-11	
	25	M4 65	BF62614-MSD1		3.9/10 Q4337 Q606383-11	
	26	M4 66	BF60211-TUN1		GF26061 Bromofluor	
	27	M4 67	BF60211-CCV1		GF26062	
	28	M4 68	BF62615-BS1		GF26063	
	29	M4 69	BF62615-BSD1		GF26063	
	30	M4 70	Test BLK			
	31	M4 71	BF62615-BLK1			
	32	M4 72	Q606383-17		5/10 Q3925	
	33	M4 73	Q606377-13		8.1/10 Q4199	
	34	M4 74	-14		6.2/10 Q4174	
	35	M4 75	-15		5.3/10 Q4188	
6/26/06	36	M4 76	-16	L006Q606	7.4/10 Q4175	mw

457

Run Sequence Confirmation

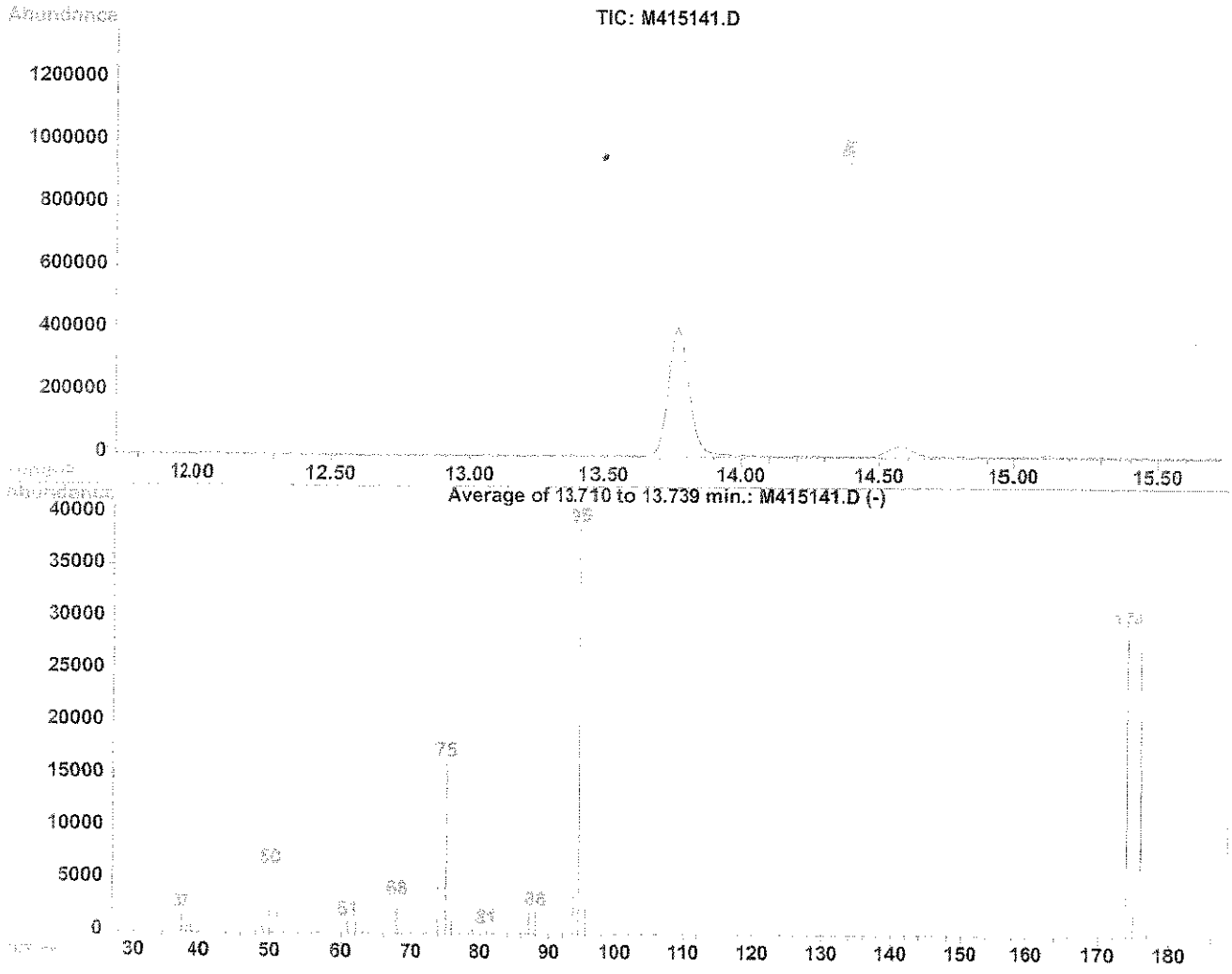
Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: GF72039

On-column IS: GF72041

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415141.D Vial: 1
Acq On : 26 Jun 2006 8:13 am Operator: MD
Sample : BPF0210-TUN1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\L0060606.M (RTE Integrator)
Title : Element ID: 0606010



Spectrum Information: Average of 13.710 to 13.739 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.2	5908	PASS
75	95	30	60	42.1	16311	PASS
95	95	100	100	100.0	38774	PASS
96	95	5	9	7.7	3003	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	75.1	29106	PASS
175	174	5	9	6.9	2014	PASS
176	174	95	101	97.0	28240	PASS
177	176	5	9	6.4	1801	PASS

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415142.D Vial: 2
Acq On : 26 Jun 2006 8:43 am Operator: MD
Sample : BPF0210-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	86	-0.03
2		Dichlorodifluoromethane	0.333	0.319	4.2	89	0.00
3		Chloromethane	0.158	0.141	10.8	86	-0.02
4		Vinyl Chloride	0.174	0.160	8.0	85	0.00
5		Bromomethane	0.160	0.147	8.1	86	0.00
6		Chloroethane	0.084	0.085	-1.2	86	0.00
7		Trichlorofluoromethane	0.584	0.566	3.1	91	-0.02
8		Diethyl ether	0.105	0.095	9.5	84	0.00
9		Acrolein	0.021	0.017	19.0	79	0.00
10		1,1,2-Trichloro-1,2,2-trifl	0.575	0.552	4.0	89	0.00
11		Acetone	0.009	0.008	11.1	82	-0.02
12		Iodomethane	0.572	0.621	-8.6	100	-0.02
13		Carbon Disulfide	0.622	0.568	8.7	85	-0.02
14		1,1-Dichloroethene	0.247	0.236	4.5	89	-0.02
15		Allyl Chloride	0.248	0.223	10.1	82	-0.02
16		Methyl Acetate	0.099	0.087	12.1	86	-0.02
17		Methylene Chloride	0.259	0.207	20.1	82	-0.02
18		Tertiary-butyl Alcohol	0.019	0.016	15.8	92	-0.02
19		Methyl tert-Butyl Ether	0.425	0.416	2.1	91	-0.03
20		Acrylonitrile	0.036	0.034	5.6	89	-0.02
21		trans-1,2-Dichloroethene	0.285	0.283	0.7	93	-0.02
22		1,1-Dichloroethane	0.456	0.424	7.0	86	-0.03
23		Chloroprene	0.277	0.260	6.1	87	-0.02
24		Vinyl Acetate	0.692	0.599	13.4	81	-0.02
25		Di-isopropyl ether	0.680	0.591	13.1	81	-0.02
26		Ethyl tertiary-butyl ether	0.624	0.567	9.1	84	-0.02
27		2-Butanone	0.018	0.016	11.1	85	-0.03
28		cis-1,2 Dichloroethene	0.322	0.306	5.0	88	-0.02
29		2,2-Dichloropropane	0.390	0.380	2.6	90	-0.02
30		Methyl Acrylate	0.185	0.166	10.3	86	-0.02
31		Methacrylonitrile	0.108	0.090	16.7	85	-0.03
32		Bromochloromethane	0.241	0.236	2.1	90	-0.03
33		Tetrahydrofuran	0.048	0.043	10.4	83	-0.03
34		Chloroform	0.574	0.552	3.8	89	-0.02
35		1,1,1-Trichloroethane	0.560	0.538	3.9	90	-0.02
36	S	Dibromofluoromethane(SURR)	0.758	0.720	5.0	90	-0.02
37		Cyclohexane	0.313	0.269	14.1	78	-0.02
38		1-Chlorobutane	0.412	0.383	7.0	89	-0.02
39		1,1-Dichloropropene	0.392	0.371	5.4	89	-0.02
40		Carbon Tetrachloride	0.614	0.588	4.2	90	-0.02
41		Benzene	0.707	0.651	7.9	86	-0.02
42	S	1,2-Dichloroethane-d4(SURR)	0.246	0.235	4.5	91	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415142.D Vial: 2
Acq On : 26 Jun 2006 8:43 am Operator: MD
Sample : BPF0210-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43		1,2-Dichloroethane	0.257	0.249	3.1	90	-0.03
44		Tertiary-amyl methyl ether	0.571	0.527	7.7	86	-0.02
45		Trichloroethene	0.414	0.398	3.9	89	-0.03
46		Methyl Cyclohexane	0.400	0.375	6.3	87	-0.02
47		1,2-Dichloropropane	0.285	0.260	8.8	84	-0.03
48		Dibromomethane	0.337	0.322	4.5	89	-0.02
49		1,4-Dioxane	0.003	0.002	33.3#	89	-0.02
50		Methyl Methacrylate	0.181	0.163	9.9	84	-0.03
51		Bromodichloromethane	0.587	0.574	2.2	90	-0.02
52		2-Nitropropane	0.048	0.045	6.3	92	-0.02
53		2-Chloroethyl vinyl ether	0.105	0.098	6.7	88	-0.03
54		4-Methyl-2-Pentanone	0.086	0.075	12.8	85	-0.03
55		cis-1,3-Dichloropropene	0.436	0.415	4.8	87	-0.02
56		Toluene	0.545	0.516	5.3	87	-0.03
57		trans-1,3-Dichloropropene	0.363	0.350	3.6	88	-0.02
58		1,1,2-Trichloroethane	0.246	0.230	6.5	87	-0.02
59	I	Chlorobenzene-d5	1.000	1.000	0.0	87	-0.02
60	S	Toluene-d8 (SURR)	1.083	1.012	6.6	88	-0.02
61		2-Hexanone	0.174	0.145	16.7	87	-0.02
62		Ethyl Methacrylate	0.380	0.338	11.1	85	-0.02
63		1,3-Dichloropropane	0.462	0.423	8.4	86	-0.02
64		Tetrachloroethene	0.490	0.476	2.9	91	-0.03
65		Dibromochloromethane	0.797	0.765	4.0	90	-0.02
66		1,2-Dibromoethane	0.607	0.569	6.3	88	-0.02
67		1-Chlorohexane	0.516	0.485	6.0	88	-0.03
68		Chlorobenzene	0.931	0.887	4.7	89	-0.03
69		1,1,1,2-Tetrachloroethane	0.543	0.511	5.9	90	-0.02
70		Ethylbenzene	1.292	1.230	4.8	88	-0.02
71		Xylene P,M	0.534	0.506	5.2	89	-0.03
72		Xylene O	0.508	0.480	5.5	89	-0.03
73		Styrene	0.868	0.828	4.6	88	-0.02
74		Bromoform	0.583	0.573	1.7	93	-0.02
75		cis-1,4-Dichloro-2-butene	0.115	0.125	-8.7	99	-0.02
76	S	Bromofluorobenzene (SURR)	0.733	0.693	5.5	89	-0.02
77	I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	89	-0.03
78		Isopropylbenzene	2.587	2.407	7.0	89	-0.02
79		Trans-1,4-Dichloro-2-Butene	0.155	0.147	5.2	90	-0.03
80		1,2,3-Trichloropropane	0.748	0.659	11.9	89	-0.02
81		Bromobenzene	0.910	0.862	5.3	91	-0.03
82		1,1,2,2-Tetrachloroethane	0.982	0.875	10.9	90	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415142.D Vial: 2
Acq On : 26 Jun 2006 8:43 am Operator: MD
Sample : BPF0210-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF		%Dev	Area%	Dev(min)
83	n-Propylbenzene	3.314	3.026		8.7	85	-0.03
84	2-Chlorotoluene	1.625	1.594		1.9	99	-0.02
85	4-Chlorotoluene	2.186	2.017		7.7	89	-0.03
86	1,3,5-Trimethylbenzene	2.128	1.980		7.0	89	-0.02
87	Pentachloroethane	2.994	2.809		6.2	90	-0.03
88	tert-Butylbenzene	2.994	2.809		6.2	90	-0.03
89	1,2,4-Trimethylbenzene	2.152	1.999		7.1	89	-0.03
90	sec-Butylbenzene	3.215	2.986		7.1	89	-0.03
91	1,3 Dichlorobenzene	1.545	1.448		6.3	90	-0.03
92	4-Isopropyltoluene	2.609	2.459		5.7	90	-0.03
93	1,4 Dichlorobenzene	1.612	1.514		6.1	91	-0.03
94	n-Butylbenzene	2.333	2.195		5.9	89	-0.02
95	1,2 Dichlorobenzene	1.404	1.310		6.7	90	-0.02
96	Hexachloroethane	0.993	0.961		3.2	91	-0.02
97	1,2-Dibromo-3-Chloropropane	0.174	0.171		1.7	96	-0.03
98	1,2,4-Trichlorobenzene	1.170	1.124		3.9	94	-0.03
99	Hexachlorobutadiene	0.834	0.818		1.9	95	-0.02
100	Naphthalene	1.681	1.468		12.7	92	-0.02
101	1,2,3-Trichlorobenzene	1.006	0.944		6.2	95	-0.02

Quantitation Report (QT Reviewed)

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415142.D Vial: 2
Acq On : 26 Jun 2006 8:43 am Operator: MD
Sample : BPF0210-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 26 11:22 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.22	96	3724885	25.00 ug/l	-0.03
59) Chlorobenzene-d5	11.55	117	3246204	25.00 ug/l	-0.02
77) 1,4 Dichlorobenzene-D4	15.95	152	1904399	25.00 ug/l	-0.03
System Monitoring Compounds					
36) Dibromofluoromethane(SURR)	5.15	111	2683668	23.75 ug/l	-0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 95.00%		
42) 1,2-Dichloroethane-d4(SURR	5.66	65	875215	23.90 ug/l	-0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 95.60%		
60) Toluene-d8 (SURR)	8.97	98	3286537	23.37 ug/l	-0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 93.48%		
76) Bromofluorobenzene (SURR)	13.77	95	2250348	23.63 ug/l	-0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 94.52%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.21	85	1187756	23.92 ug/l	100
3) Chloromethane	1.34	50	525184	22.25 ug/l	99
4) Vinyl Chloride	1.40	62	594924	23.01 ug/l	100
5) Bromomethane	1.62	94	547437	23.02 ug/l	100
6) Chloroethane	1.70	64	316193	27.58 ug/l	97
7) Trichlorofluoromethane	1.88	101	2109373	24.25 ug/l	100
8) Diethyl ether	2.13	59	352836	22.51 ug/l	98
9) Acrolein	2.23	56	64000	20.81 ug/l	96
10) 1,1,2-Trichloro-1,2,2-trif	2.31	101	2057895	24.02 ug/l	94
11) Acetone	2.37	58	148625	105.08 ug/l	87
12) Iodomethane	2.43	142	2314518	27.14 ug/l	100
13) Carbon Disulfide	2.47	76	2116787	22.82 ug/l	100
14) 1,1-Dichloroethene	2.29	96	879994	23.92 ug/l	98
15) Allyl Chloride	2.62	41	829951	22.50 ug/l	96
16) Methyl Acetate	2.68	43	322761	22.95 ug/l	99
17) Methylene Chloride	2.75	84	770885	22.75 ug/l	98
18) Tertiary-butyl Alcohol	2.96	59	293319	116.68 ug/l	99
19) Methyl tert-Butyl Ether	3.07	73	1550656	24.51 ug/l	98
20) Acrylonitrile	3.04	53	124999	23.01 ug/l	97
21) trans-1,2-Dichloroethene	3.04	96	1054346	24.81 ug/l	99
22) 1,1-Dichloroethane	3.53	63	1579303	23.23 ug/l	99
23) Chloroprene	3.66	53	969575	23.48 ug/l	99
24) Vinyl Acetate	3.66	43	2229895	21.62 ug/l	98
25) Di-isopropyl ether	3.69	45	2199992	21.71 ug/l	98
26) Ethyl tertiary-butyl ether	4.23	59	2111904	22.70 ug/l	99
27) 2-Butanone	4.45	72	299149	111.20 ug/l	94
28) cis-1,2 Dichloroethene	4.38	96	1141106	23.79 ug/l	96

(#) = qualifier out of range (m) = manual integration
M415142.D LO060606.M Mon Jun 26 11:22:39 2006 MS4 Page 1

Quantitation Report (QT Reviewed)

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415142.D Vial: 2
Acq On : 26 Jun 2006 8:43 am Operator: MD
Sample : BPF0210-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 26 11:22 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) 2,2-Dichloropropane	4.36	77	1415049	24.34 ug/l	98
30) Methyl Acrylate	4.61	55	617064	22.37 ug/l	100
31) Methacrylonitrile	4.76	41	335857	20.94 ug/l	97
32) Bromochloromethane	4.73	128	880592	24.47 ug/l	99
33) Tetrahydrofuran	4.82	42	160601	22.28 ug/l	97
34) Chloroform	4.90	83	2055304	24.05 ug/l	100
35) 1,1,1-Trichloroethane	5.14	97	2003461	23.99 ug/l	99
37) Cyclohexane	5.19	56	1002319	21.50 ug/l	97
38) 1-Chlorobutane	5.33	56	1425717	23.22 ug/l	99
39) 1,1-Dichloropropene	5.40	75	1383618	23.69 ug/l	99
40) Carbon Tetrachloride	5.39	117	2191695	23.95 ug/l	100
41) Benzene	5.73	78	2426014	23.04 ug/l	100
43) 1,2-Dichloroethane	5.78	62	926252	24.17 ug/l	99
44) Tertiary-amyl methyl ether	6.01	73	1963108	23.07 ug/l	99
45) Trichloroethene	6.83	95	1481523	24.03 ug/l	98
46) Methyl Cyclohexane	7.13	83	1396289	23.43 ug/l	98
47) 1,2-Dichloropropane	7.20	63	967359	22.77 ug/l	97
48) Dibromomethane	7.40	93	1199714	23.89 ug/l	97
49) 1,4-Dioxane	7.52	88	177295	463.14 ug/l	96
50) Methyl Methacrylate	7.55	41	607448	22.50 ug/l	97
51) Bromodichloromethane	7.72	83	2138063	24.47 ug/l	100
52) 2-Nitropropane	8.16	43	166528	23.47 ug/l	100
53) 2-Chloroethyl vinyl ether	8.33	63	363256	26.96 ug/l	97
54) 4-Methyl-2-Pentanone	8.87	58	1393782	108.55 ug/l	99
55) cis-1,3-Dichloropropene	8.53	75	1547472	23.84 ug/l	98
56) Toluene	9.08	92	1923294	23.69 ug/l	99
57) trans-1,3-Dichloropropene	9.56	75	1302551	24.09 ug/l	99
58) 1,1,2-Trichloroethane	9.85	83	857995	23.38 ug/l	98
61) 2-Hexanone	10.39	43	2357361	111.94 ug/l	98
62) Ethyl Methacrylate	9.82	69	1095680	22.18 ug/l	93
63) 1,3-Dichloropropane	10.14	76	1372300	22.86 ug/l	99
64) Tetrachloroethene	10.03	164	1544602	24.25 ug/l	98
65) Dibromochloromethane	10.52	129	2484754	24.02 ug/l	100
66) 1,2-Dibromoethane	10.67	107	1846828	23.42 ug/l	100
67) 1-Chlorohexane	11.67	91	1573932	23.51 ug/l	100
68) Chlorobenzene	11.59	112	2880862	23.84 ug/l	100
69) 1,1,1,2-Tetrachloroethane	11.79	131	1657676	23.49 ug/l	99
70) Ethylbenzene	11.86	91	3994200	23.81 ug/l	100
71) Xylene P,M	12.09	106	3281999	47.34 ug/l	98
72) Xylene O	12.80	106	1556805	23.61 ug/l	98
73) Styrene	12.84	104	2686485	23.83 ug/l	99
74) Bromoform	13.13	173	1858901	24.56 ug/l	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415142.D Vial: 2
Acq On : 26 Jun 2006 8:43 am Operator: MD
Sample : BPF0210-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 26 11:22 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75)	cis-1,4-Dichloro-2-butene	13.72	75	406649m	27.17 ug/l	
78)	Isopropylbenzene	13.53	105	4583414	23.26 ug/l	100
79)	Trans-1,4-Dichloro-2-Buten	14.24	53	280509	23.71 ug/l	98
80)	1,2,3-Trichloropropane	14.17	75	1254514	22.00 ug/l	99
81)	Bromobenzene	13.99	156	1641976	23.69 ug/l	98
82)	1,1,2,2-Tetrachloroethane	14.14	83	1666862	23.74 ug/l	100
83)	n-Propylbenzene	14.30	91	5761878	22.83 ug/l	99
84)	2-Chlorotoluene	14.39	91	3036481m	24.53 ug/l	
85)	4-Chlorotoluene	14.62	91	3840741	23.06 ug/l	100
86)	1,3,5-Trimethylbenzene	14.67	105	3770596	23.26 ug/l	99
87)	Pentachloroethane	15.25	119	5349460	23.46 ug/l	97
88)	tert-Butylbenzene	15.25	119	5349460	23.46 ug/l	99
89)	1,2,4-Trimethylbenzene	15.36	105	3806935	23.23 ug/l	99
90)	sec-Butylbenzene	15.69	105	5687204	23.22 ug/l	100
91)	1,3 Dichlorobenzene	15.82	146	2758106	23.43 ug/l	99
92)	4-Isopropyltoluene	16.00	119	4682509	23.56 ug/l	99
93)	1,4 Dichlorobenzene	16.00	146	2883381	23.48 ug/l	99
94)	n-Butylbenzene	16.79	91	4180639	23.53 ug/l	99
95)	1,2 Dichlorobenzene	16.70	146	2494754	23.33 ug/l	98
96)	Hexachloroethane	17.16	117	1830645	24.21 ug/l	97
97)	1,2-Dibromo-3-Chloropropan	18.23	75	325651	24.53 ug/l	95
98)	1,2,4-Trichlorobenzene	20.14	180	2140372	24.01 ug/l	99
99)	Hexachlorobutadiene	20.55	225	1558325	24.53 ug/l	100
100)	Naphthalene	20.60	128	2795798	24.17 ug/l	100
101)	1,2,3-Trichlorobenzene	21.00	180	1798192	25.64 ug/l	98

(#) = qualifier out of range (m) = manual integration

ANALYSIS SEQUENCE

BPF0211

Instrument: VMS4

Calibration ID: 0606010

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606383-17	B: 5035/8260 ppb Low Leve	A	1			6F22041	MACTEC Engineering & Consulting, In
0606383-10	C: x5035/8260 ppb Low Lev	F	2			6F22041	MACTEC Engineering & Consulting, In
0606383-07	C: x5035/8260 ppb Low Lev	C	3			6F22041	MACTEC Engineering & Consulting, In
0606383-06	C: x5035/8260 ppb Low Lev	C	4			6F22041	MACTEC Engineering & Consulting, In
0606383-05	C: x5035/8260 ppb Low Lev	F	5			6F22041	MACTEC Engineering & Consulting, In
0606383-04	C: x5035/8260 ppb Low Lev	D	6			6F22041	MACTEC Engineering & Consulting, In
0606383-03	C: x5035/8260 ppb Low Lev	F	7			6F22041	MACTEC Engineering & Consulting, In
0606383-02	C: x5035/8260 ppb Low Lev	E	8			6F22041	MACTEC Engineering & Consulting, In
0606383-01	C: x5035/8260 ppb Low Lev	G	9			6F22041	MACTEC Engineering & Consulting, In
0606374-16	C: x5035/8260 ppb Low Lev	E	10			6F22041	MACTEC Engineering & Consulting, In
0606374-13	C: x5035/8260 ppb Low Lev	A	11			6F22041	MACTEC Engineering & Consulting, In
BF62615-BLK1	QC		12			6F22041	
BF62615-BS1	QC		13			6F22041	
BF62615-BSD1	QC		14			6F22041	
BPF0211-CCV1	QC		15		6F26062	6F22041	
BPF0211-TUN1	QC		16		6F26061		

Samples Loaded By Date Data Processed By Date

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/26/06	20	M4 15160	0606374-10	10060606	4.7/10 D4190	[illegible]
↓	21	M4 61	-11	↓	7/10 D4212	↓
	22	M4 62	-12		3.6/10 D4177	
	23	M4 63	0606383-11		6.7/10 D4338	
	24	M4 64	BF62614- MS1		4.1/10 D4336 0606383-11	
	25	M4 65	BF62614- MSD1		3.9/10 D4329 0606383-11	
	26	M4 66	BF0211- TUN		6F26061 [illegible]	
	27	M4 67	BF0211- CCV1		6F26062	
	28	M4 68	BF62615- BS1		6F26063	
	29	M4 69	BF62615- BSD1		6F26063	
	30	M4 70	Tent Blk			
	31	M4 71	BF62615- BLK1			
	32	M4 72	0606383-17		5/10 D3928	
	33	M4 73	0606377-13		8.1/10 D4199	
	34	M4 74	-14		6.2/10 ~~D4177~~ 4174	
↓	35	M4 75	-15	↓	5.3/10 D4188	↓
6/26/06	36	M4 76	-16	10060606	7.4/10 D4175	[illegible]

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: 6F22039

On-column IS: 6F22041

Page_____

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/20/06	37	M415177	0606383-01	100606	7.9/10 P3179	
	38	M4 78	-02		4.7/10 P3924	
	39	M4 79	-03		6.6/10 P3180	
	40	M4 80	-04		3.5/10 P3922	
	41	M4 81	-05		6.3/10 P3189	
	42	M4 82	-06		6.9/10 P3910	
	43	M4 83	-07		5.8/10 P4319	
	44	M4 84	-08		5.6/10 P4330	
	45	M4 85	-10		9.5/10 P4337	
	46	M4 86	-12		4.3/10 R. Archer error P4337	
	47	M4 87	-13		4/10 P4341	
	48	M4 88	-14		3.3/10 P3917	
	49	M4 89	BF62615- MS1		3.8/10 P4326 0606383-13	
6/20/06	50	M4 90	BF62615- MSD1	100606	4.2/10 P4327 0606383-13	
6/22/06	1	M4 91	BF0219- TUN		6F27044	
	2	M4 92	BF0219- CCV		6F27045	
6/22/06	3	M4 93	BF62718- BS1	100606	6F27046	

Run Sequence Confirmation

Surrogate: 6F27039

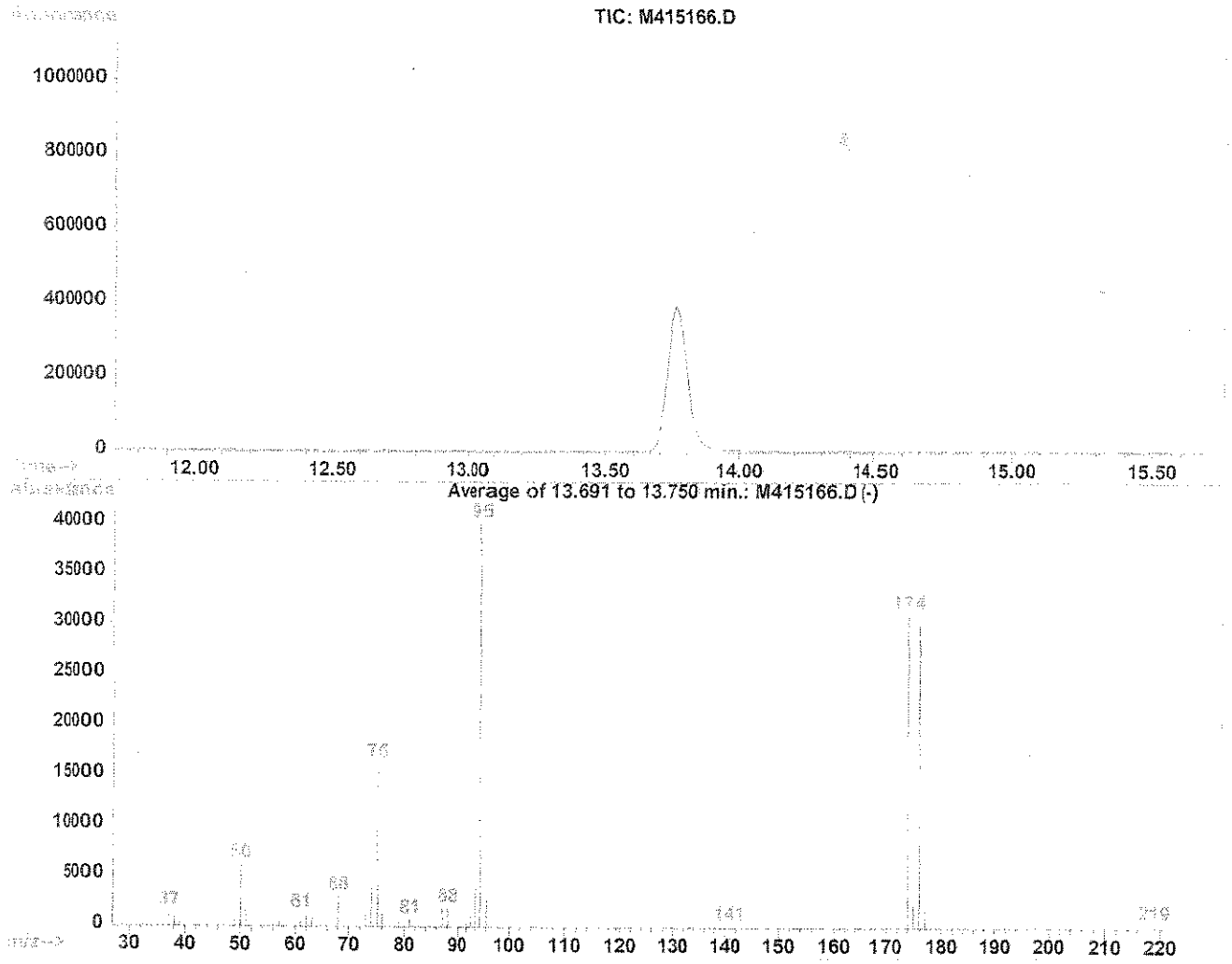
On-column IS: 6F27041

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Page____

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415166.D Vial: 26
Acq On : 26 Jun 2006 8:38 pm Operator: MD
Sample : BPF0211-TUN1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010



Spectrum Information: Average of 13.691 to 13.750 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.2	6106	PASS
75	95	30	60	40.5	16224	PASS
95	95	100	100	100.0	40095	PASS
96	95	5	9	7.3	2908	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	77.4	31047	PASS
175	174	5	9	7.1	2213	PASS
176	174	95	101	97.7	30338	PASS
177	176	5	9	6.7	2035	PASS

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415167.D Vial: 27
Acq On : 26 Jun 2006 9:07 pm Operator: MD
Sample : BPFO211-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	#	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000		0.0	88	-0.03
2		Dichlorodifluoromethane	0.333	0.310		6.9	88	0.00
3		Chloromethane	0.158	0.139		12.0	86	-0.01
4		Vinyl Chloride	0.174	0.156		10.3	84	0.00
5		Bromomethane	0.160	0.144		10.0	86	0.00
6		Chloroethane	0.084	0.078		7.1	81	0.00
7		Trichlorofluoromethane	0.584	0.549		6.0	89	-0.01
8		Diethyl ether	0.105	0.092		12.4	83	0.00
9		Acrolein	0.021	0.016		23.8	77	-0.01
10		1,1,2-Trichloro-1,2,2-trifl	0.575	0.534		7.1	87	0.00
11		Acetone	0.009	0.008		11.1	83	-0.01
12		Iodomethane	0.572	0.593		-3.7	97	-0.01
13		Carbon Disulfide	0.622	0.548		11.9	84	-0.01
14		1,1-Dichloroethene	0.247	0.228		7.7	87	-0.01
15		Allyl Chloride	0.248	0.215		13.3	81	-0.01
16		Methyl Acetate	0.099	0.085		14.1	85	-0.03
17		Methylene Chloride	0.259	0.202		22.0	81	-0.01
18		Tertiary-butyl Alcohol	0.019	0.017		10.5	102	-0.03
19		Methyl tert-Butyl Ether	0.425	0.419		1.4	93	-0.03
20		Acrylonitrile	0.036	0.036		0.0	96	-0.03
21		trans-1,2-Dichloroethene	0.285	0.292		-2.5	97	-0.01
22		1,1-Dichloroethane	0.456	0.412		9.6	85	-0.03
23		Chloroprene	0.277	0.251		9.4	85	-0.03
24		Vinyl Acetate	0.692	0.577		16.6	79	-0.03
25		Di-isopropyl ether	0.680	0.576		15.3	80	-0.01
26		Ethyl tertiary-butyl ether	0.624	0.556		10.9	84	-0.03
27		2-Butanone	0.018	0.016		11.1	83	-0.03
28		cis-1,2 Dichloroethene	0.322	0.295		8.4	86	-0.03
29		2,2-Dichloropropane	0.390	0.350		10.3	84	-0.03
30		Methyl Acrylate	0.185	0.158		14.6	83	-0.03
31		Methacrylonitrile	0.108	0.086		20.4	82	-0.03
32		Bromochloromethane	0.241	0.230		4.6	89	-0.03
33		Tetrahydrofuran	0.048	0.041		14.6	80	-0.04
34		Chloroform	0.574	0.537		6.4	88	-0.03
35		1,1,1-Trichloroethane	0.560	0.523		6.6	89	-0.03
36	S	Dibromofluoromethane(SURR)	0.758	0.707		6.7	90	-0.03
37		Cyclohexane	0.313	0.269		14.1	79	-0.01
38		1-Chlorobutane	0.412	0.369		10.4	87	-0.01
39		1,1-Dichloropropene	0.392	0.358		8.7	87	-0.01
40		Carbon Tetrachloride	0.614	0.562		8.5	88	-0.03
41		Benzene	0.707	0.627		11.3	84	-0.01
42	S	1,2-Dichloroethane-d4(SURR)	0.246	0.235		4.5	92	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415167.D Vial: 27
Acq On : 26 Jun 2006 9:07 pm Operator: MD
Sample : BPF0211-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43		1,2-Dichloroethane	0.257	0.246	4.3	90	-0.03
44		Tertiary-amyl methyl ether	0.571	0.512	10.3	85	-0.03
45		Trichloroethene	0.414	0.383	7.5	88	-0.03
46		Methyl Cyclohexane	0.400	0.361	9.8	85	-0.01
47		1,2-Dichloropropane	0.285	0.249	12.6	82	-0.03
48		Dibromomethane	0.337	0.314	6.8	88	-0.01
49		1,4-Dioxane	0.003	0.002	33.3#	88	-0.03
50		Methyl Methacrylate	0.181	0.148	18.2	78	-0.03
51		Bromodichloromethane	0.587	0.554	5.6	88	-0.01
52		2-Nitropropane	0.048	0.044	8.3	91	-0.03
53		2-Chloroethyl vinyl ether	0.105	0.088	16.2	81	-0.03
54		4-Methyl-2-Pentanone	0.086	0.071	17.4	82	-0.03
55		cis-1,3-Dichloropropene	0.436	0.397	8.9	85	-0.03
56		Toluene	0.545	0.498	8.6	86	-0.03
57		trans-1,3-Dichloropropene	0.363	0.335	7.7	86	-0.03
58		1,1,2-Trichloroethane	0.246	0.223	9.3	86	-0.03
59	I	Chlorobenzene-d5	1.000	1.000	0.0	89	-0.01
60	S	Toluene-d8 (SURR)	1.083	0.975	10.0	86	-0.01
61		2-Hexanone	0.174	0.134	23.0	82	-0.01
62		Ethyl Methacrylate	0.380	0.325	14.5	83	-0.03
63		1,3-Dichloropropane	0.462	0.407	11.9	85	-0.03
64		Tetrachloroethene	0.490	0.468	4.5	91	-0.03
65		Dibromochloromethane	0.797	0.738	7.4	89	-0.03
66		1,2-Dibromoethane	0.607	0.549	9.6	87	-0.03
67		1-Chlorohexane	0.516	0.466	9.7	87	-0.03
68		Chlorobenzene	0.931	0.851	8.6	87	-0.03
69		1,1,1,2-Tetrachloroethane	0.543	0.500	7.9	90	-0.03
70		Ethylbenzene	1.292	1.175	9.1	86	-0.03
71		Xylene P,M	0.534	0.483	9.6	86	-0.03
72		Xylene O	0.508	0.459	9.6	87	-0.03
73		Styrene	0.868	0.787	9.3	86	-0.01
74		Bromoform	0.583	0.547	6.2	90	-0.03
75		cis-1,4-Dichloro-2-butene	0.115	0.099	13.9	80	-0.03
76	S	Bromofluorobenzene (SURR)	0.733	0.670	8.6	87	-0.01
77	I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	90	-0.03
78		Isopropylbenzene	2.587	2.325	10.1	87	-0.03
79		Trans-1,4-Dichloro-2-Butene	0.155	0.138	11.0	86	-0.03
80		1,2,3-Trichloropropane	0.748	0.631	15.6	87	-0.03
81		Bromobenzene	0.910	0.837	8.0	89	-0.03
82		1,1,2,2-Tetrachloroethane	0.982	0.832	15.3	86	-0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415167.D Vial: 27
Acq On : 26 Jun 2006 9:07 pm Operator: MD
Sample : BPF0211-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%	%Dev	Area%	Dev(min)
83	n-Propylbenzene	3.314	2.992		9.7	85	-0.03
84	2-Chlorotoluene	1.625	1.447		11.0	91	-0.01
85	4-Chlorotoluene	2.186	1.941		11.2	87	-0.03
86	1,3,5-Trimethylbenzene	2.128	1.910		10.2	87	-0.01
87	Pentachloroethane	2.994	2.697		9.9	87	-0.03
88	tert-Butylbenzene	2.994	2.697		9.9	87	-0.03
89	1,2,4-Trimethylbenzene	2.152	1.927		10.5	87	-0.03
90	sec-Butylbenzene	3.215	2.893		10.0	88	-0.03
91	1,3 Dichlorobenzene	1.545	1.401		9.3	88	-0.03
92	4-Isopropyltoluene	2.609	2.366		9.3	88	-0.03
93	1,4 Dichlorobenzene	1.612	1.455		9.7	88	-0.03
94	n-Butylbenzene	2.333	2.093		10.3	86	-0.01
95	1,2 Dichlorobenzene	1.404	1.264		10.0	88	-0.03
96	Hexachloroethane	0.993	0.924		6.9	89	-0.03
97	1,2-Dibromo-3-Chloropropane	0.174	0.162		6.9	92	-0.03
98	1,2,4-Trichlorobenzene	1.170	1.049		10.3	89	-0.03
99	Hexachlorobutadiene	0.834	0.797		4.4	94	-0.03
100	Naphthalene	1.681	1.334		20.6	85	-0.03
101	1,2,3-Trichlorobenzene	1.006	0.898		10.7	92	-0.03

Quantitation Report (QT Reviewed)

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415167.D Vial: 27
Acq On : 26 Jun 2006 9:07 pm Operator: MD
Sample : BPF0211-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 8:37 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.22	96	3783441	25.00	ug/l	-0.03
59) Chlorobenzene-d5	11.55	117	3313850	25.00	ug/l	-0.01
77) 1,4 Dichlorobenzene-D4	15.96	152	1931828	25.00	ug/l	-0.03
System Monitoring Compounds						
36) Dibromofluoromethane(SURR)	5.14	111	2673701	23.30	ug/l	-0.03
Spiked Amount 25.000	Range 70 - 130		Recovery = 93.20%			
42) 1,2-Dichloroethane-d4(SURR	5.66	65	887345	23.85	ug/l	-0.01
Spiked Amount 25.000	Range 70 - 130		Recovery = 95.40%			
60) Toluene-d8 (SURR)	8.98	98	3231767	22.51	ug/l	-0.01
Spiked Amount 25.000	Range 70 - 130		Recovery = 90.04%			
76) Bromofluorobenzene (SURR)	13.77	95	2218825	22.82	ug/l	-0.01
Spiked Amount 25.000	Range 70 - 130		Recovery = 91.28%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.21	85	1171054	23.22	ug/l	99
3) Chloromethane	1.34	50	526255	21.95	ug/l	98
4) Vinyl Chloride	1.40	62	590100	22.47	ug/l	98
5) Bromomethane	1.63	94	545730	22.60	ug/l	99
6) Chloroethane	1.70	64	296529	25.07	ug/l	99
7) Trichlorofluoromethane	1.88	101	2077276	23.51	ug/l	99
8) Diethyl ether	2.13	59	348234	21.87	ug/l	97
9) Acrolein	2.22	56	61742	19.77	ug/l	99
10) 1,1,2-Trichloro-1,2,2-trif	2.31	101	2019699	23.21	ug/l	93
11) Acetone	2.37	58	150774	104.95	ug/l	96
12) Iodomethane	2.43	142	2242747	25.89	ug/l	100
13) Carbon Disulfide	2.47	76	2071463	21.99	ug/l	100
14) 1,1-Dichloroethene	2.30	96	862502	23.08	ug/l	98
15) Allyl Chloride	2.62	41	811887	21.67	ug/l	95
16) Methyl Acetate	2.67	43	321179	22.48	ug/l	97
17) Methylene Chloride	2.76	84	765014	22.20	ug/l	98
18) Tertiary-butyl Alcohol	2.95	59	325313	127.61	ug/l	96
19) Methyl tert-Butyl Ether	3.07	73	1586889	24.70	ug/l	98
20) Acrylonitrile	3.02	53	134626	24.40	ug/l	96
21) trans-1,2-Dichloroethene	3.04	96	1104131	25.58	ug/l	98
22) 1,1-Dichloroethane	3.53	63	1560533	22.59	ug/l	100
23) Chloroprene	3.65	53	950122	22.65	ug/l	99
24) Vinyl Acetate	3.65	43	2184004	20.85	ug/l	99
25) Di-isopropyl ether	3.69	45	2177524	21.16	ug/l	89
26) Ethyl tertiary-butyl ether	4.22	59	2104035	22.27	ug/l	98
27) 2-Butanone	4.45	72	293673	107.48	ug/l	95
28) cis-1,2 Dichloroethene	4.36	96	1115905	22.91	ug/l	99

(#) = qualifier out of range (m) = manual integration
M415167.D LO060606.M Tue Jun 27 08:37:21 2006 MS4 Page 1

Quantitation Report (QT Reviewed)

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415167.D Vial: 27
Acq On : 26 Jun 2006 9:07 pm Operator: MD
Sample : BPF0211-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 8:37 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) 2,2-Dichloropropane	4.35	77	1324203	22.43 ug/l	98
30) Methyl Acrylate	4.60	55	598645	21.37 ug/l	98
31) Methacrylonitrile	4.77	41	323616	19.87 ug/l	97
32) Bromochloromethane	4.74	128	870530	23.82 ug/l	97
33) Tetrahydrofuran	4.81	42	153442	20.96 ug/l	100
34) Chloroform	4.88	83	2032145	23.41 ug/l	100
35) 1,1,1-Trichloroethane	5.12	97	1977737	23.32 ug/l	99
37) Cyclohexane	5.20	56	1017308	21.49 ug/l	99
38) 1-Chlorobutane	5.33	56	1395000	22.36 ug/l	99
39) 1,1-Dichloropropene	5.41	75	1355623	22.85 ug/l	99
40) Carbon Tetrachloride	5.38	117	2127802	22.89 ug/l	100
41) Benzene	5.73	78	2373966	22.20 ug/l	100
43) 1,2-Dichloroethane	5.78	62	930352	23.90 ug/l	99
44) Tertiary-amyl methyl ether	6.00	73	1938500	22.43 ug/l	99
45) Trichloroethene	6.83	95	1450577	23.16 ug/l	99
46) Methyl Cyclohexane	7.13	83	1365556	22.56 ug/l	98
47) 1,2-Dichloropropane	7.21	63	943967	21.88 ug/l	98
48) Dibromomethane	7.40	93	1189871	23.32 ug/l	95
49) 1,4-Dioxane	7.50	88	177143	455.61 ug/l	99
50) Methyl Methacrylate	7.55	41	560938	20.46 ug/l	98
51) Bromodichloromethane	7.73	83	2096570	23.62 ug/l	99
52) 2-Nitropropane	8.14	43	164721	22.86 ug/l	100
53) 2-Chloroethyl vinyl ether	8.34	63	334613	24.10 ug/l	99
54) 4-Methyl-2-Pentanone	8.87	58	1349103	103.45 ug/l	99
55) cis-1,3-Dichloropropene	8.52	75	1501557	22.78 ug/l	99
56) Toluene	9.08	92	1884762	22.86 ug/l	100
57) trans-1,3-Dichloropropene	9.54	75	1268298	23.09 ug/l	100
58) 1,1,2-Trichloroethane	9.84	83	842300	22.59 ug/l	100
61) 2-Hexanone	10.39	43	2225125	103.47 ug/l	96
62) Ethyl Methacrylate	9.81	69	1076436	21.34 ug/l	95
63) 1,3-Dichloropropane	10.12	76	1349009	22.02 ug/l	100
64) Tetrachloroethene	10.03	164	1551754	23.87 ug/l	98
65) Dibromochloromethane	10.51	129	2445459	23.16 ug/l	99
66) 1,2-Dibromoethane	10.66	107	1820926	22.62 ug/l	99
67) 1-Chlorohexane	11.67	91	1545888	22.62 ug/l	99
68) Chlorobenzene	11.60	112	2821637	22.87 ug/l	99
69) 1,1,1,2-Tetrachloroethane	11.78	131	1656648	23.00 ug/l	98
70) Ethylbenzene	11.85	91	3892986	22.73 ug/l	99
71) Xylene P,M	12.09	106	3199046	45.20 ug/l	99
72) Xylene O	12.80	106	1522692	22.62 ug/l	100
73) Styrene	12.85	104	2607303	22.65 ug/l	99
74) Bromoform	13.11	173	1812935	23.46 ug/l	98

(#) = qualifier out of range (m) = manual integration
M415167.D LO060606.M Tue Jun 27 08:37:21 2006 MS4 Page 2

Quantitation Report (QT Reviewed)

Data File : Q:\VOA\MS4_MH\MH0606\MH062606\M415167.D Vial: 27
Acq On : 26 Jun 2006 9:07 pm Operator: MD
Sample : BPF0211-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 8:37 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75)	cis-1,4-Dichloro-2-butene	13.71	75	327883m	21.46 ug/l	
78)	Isopropylbenzene	13.52	105	4491481	22.47 ug/l	100
79)	Trans-1,4-Dichloro-2-Buten	14.25	53	265829	22.15 ug/l	99
80)	1,2,3-Trichloropropane	14.16	75	1218696	21.07 ug/l	100
81)	Bromobenzene	13.99	156	1617900	23.01 ug/l	97
82)	1,1,2,2-Tetrachloroethane	14.13	83	1606493	22.57 ug/l	98
83)	n-Propylbenzene	14.31	91	5780357	22.57 ug/l	100
84)	2-Chlorotoluene	14.39	91	2796034m	22.27 ug/l	
85)	4-Chlorotoluene	14.62	91	3749252	22.19 ug/l	100
86)	1,3,5-Trimethylbenzene	14.68	105	3689562	22.44 ug/l	99
87)	Pentachloroethane	15.26	119	5209854	22.52 ug/l	99
88)	tert-Butylbenzene	15.26	119	5209854	22.52 ug/l	100
89)	1,2,4-Trimethylbenzene	15.36	105	3722990	22.39 ug/l	99
90)	sec-Butylbenzene	15.69	105	5589149	22.50 ug/l	100
91)	1,3 Dichlorobenzene	15.82	146	2706433	22.66 ug/l	99
92)	4-Isopropyltoluene	16.00	119	4571147	22.68 ug/l	99
93)	1,4 Dichlorobenzene	16.00	146	2811735	22.57 ug/l	99
94)	n-Butylbenzene	16.79	91	4042668	22.43 ug/l	99
95)	1,2 Dichlorobenzene	16.69	146	2441407	22.51 ug/l	99
96)	Hexachloroethane	17.15	117	1784670	23.27 ug/l	99
97)	1,2-Dibromo-3-Chloropropan	18.23	75	312720	23.22 ug/l	96
98)	1,2,4-Trichlorobenzene	20.14	180	2025929	22.40 ug/l	99
99)	Hexachlorobutadiene	20.54	225	1539806	23.89 ug/l	100
100)	Naphthalene	20.59	128	2576622	21.95 ug/l	100
101)	1,2,3-Trichlorobenzene	20.99	180	1734356	24.38 ug/l	99

(#) = qualifier out of range (m) = manual integration
M415167.D LO060606.M Tue Jun 27 08:37:22 2006 MS4 Page 3

ANALYSIS SEQUENCE

BPF0219

Instrument: VMS4

Calibnration ID: 0606010

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0219-TUN1	QC		1		6F27044		
BPF0219-CCV1	QC		2		6F27045	6F22041	
BF62718-BLK1	QC		3			6F22041	
BF62718-BS1	QC		4			6F22041	
BF62718-BSD1	QC		5			6F22041	
0606383-14	)C: x5035/8260 ppb Low Lev	E	6			6F22041	MACTEC Engineering & Consulting, In
0606383-13	)C: x5035/8260 ppb Low Lev	E	7			6F22041	MACTEC Engineering & Consulting, In
0606383-12	)C: x5035/8260 ppb Low Lev	E	8			6F22041	MACTEC Engineering & Consulting, In
0606383-08	)C: x5035/8260 ppb Low Lev	D	9			6F22041	MACTEC Engineering & Consulting, In
0606374-15	)C: x5035/8260 ppb Low Lev	D	10			6F22041	MACTEC Engineering & Consulting, In
0606374-14	)C: x5035/8260 ppb Low Lev	D	11			6F22041	MACTEC Engineering & Consulting, In
0606374-07	)C: x5035/8260 ppb Low Lev	E	12			6F22041	MACTEC Engineering & Consulting, In
0606374-03	)C: x5035/8260 ppb Low Lev	E	13			6F22041	MACTEC Engineering & Consulting, In
0606373-07	)C: x5035/8260 ppb Low Lev	F	14			6F22041	MACTEC Engineering & Consulting, In
BF62718-MS1	QC		15			6F22041	
BF62718-MSD1	QC		16			6F22041	

Samples Loaded By Date Data Processed By Date

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/20/06	37	M4 15177	0606383-01	1006606	7.9/10 03179	✓
	38	M4 78	-02		4.7/10 03929	
	39	M4 79	-03		6.6/10 03180	
	40	M4 80	-04		3.5/10 03922	
	41	M4 81	-05		6.3/10 03189	
	42	M4 82	-06		6.9/10 03910	
	43	M4 83	-07		5.8/10 04319	
	44	M4 84	-08		5.6/10 04330	
476	45	M4 85	-10		9.5/10 04339	
	46	M4 86	-12		4.3/10 R. Archer error 04337	
	47	M4 87	-13		4/10 04341	
	48	M4 88	-14		3.3/10 03919	
	49	M4 89	BF62615- MS1		3.8/10 04326 0606383-13	
6/21/06	50	M4 90	BF62615- MSD1	1006606	4.2/10 04327 0606383-13	✓
6/21/06	1	M4 91	BF0219- TUN		6F27094	
	2	M4 92	BF0219- CCV		6F27095	✓
6/21/06	3	M4 93	BF62718- BS1	1006606	6F27096	✓

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: 6F27039

On-column IS: 6F27041

Page______

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/27/06	4	M4 15194	BF62718- BSD1	1006060	bF27046	
	5	M4 95	Test Blk			
	6	M4 96	BF62718- Blk1			
	7	M4 97	0606383-12		4.3/10 04337	
	8	M4 98	-13		4/10 04341	
	9	M4 99	-14		3.3/10 03919	
	10	M4 15200	BF62718- MS1		6F17081 10ml/10ml 3.8/10 04326 0606383-13	
6/27/06	11	M4 01	BF62718- MSD1	1006060	bF17081 10ml/10ml 4.2/10 04327 0606383-13	
		M4	0606373-01		8.8/10 MW 6/27/06 04236	
		M4	-05		MW 6/27/06 04242	
		M4	-06		MW 6/27/06	
6/27/06	12	M4 15202	0606373 -07	1006060	4/10 04232	
	13	M4 03	-12		3/10 03914	
	14	M4 04	0606379-03		8/10 04181	
6/27/06	15	M4 05	-07	1006060	7.6/10 04179	
		M4	-09		MW 6/27/06 04185	
6/27/06	16	M4 15206	-11	1006060	6.4/10 04201	

477

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: bF27039

On-column IS: 6F27041

Page______

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/27/06	17	M4 15207	0606374-17	L060606	7.9/10 D4186	ro
↓	18	M4 08	-15	↓	7.7/10 D4200	↓
↓	19	M4 09	0606383-08	↓	4.6/10 D4332	↓
6/27/06	20	M4 10	~~0606374-12~~ 0606383-12 blank	L060606	~~4.6/10~~ blank 7.5/10 D4328 ~~D4176~~	ro
6/27/06	21	M4 11	blank ~~0606383~~ 0606374-12	L060606	4.8/10 D4176	ro
6/28/06	1	M4 12	BF0232- TUM	AG061306	6F28046	
	2	M4 13	BF0232- CON	↓	6F28047	↓
	3	M4 14	BF62822- BS1	↓	6F12081 20µl/15ml	↓
	4	M4 15	BF62822- BSD1	↓	6F12081 20µl/15ml	↓
	5	M4 16	Test BLK	↓		↓
	6	M4 17	BF62822-BLK1	↓		↓
	7	M4 18	0606374-13	↓	50X pH<2	↓
	8	M4 19	0606349-07	↓	10X	↓
	9	M4 20	0606349-06	↓	1000X	↓
	10	M4 21	BF62611- MS1	↓	6F12081 10µl/10ml 0606349-06 ← used Batch # from MS1 100X run	↓
↓	11	M4 22	BF62611- MSD1	↓	6F12081 10µl/10ml 0606349-06 RPD dil. spk>0.04	↓
6/28/06	12	M4 23	Test BLK	AG061306		ro

Run Sequence Confirmation ____________

Control Number 20.0023-0601A

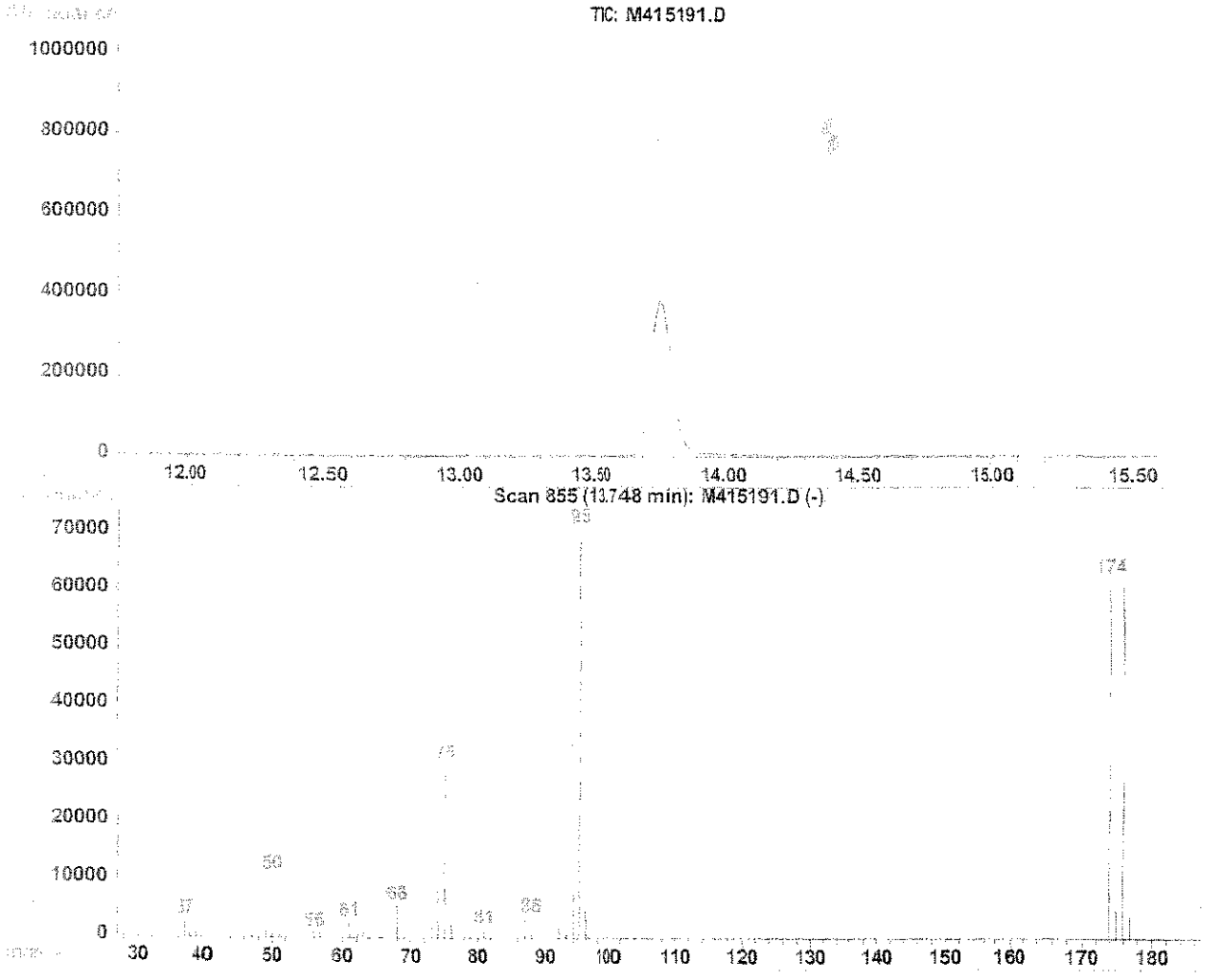
All Standards must be noted with a primary or secondary ID

Surrogate: 6F22039

On-column IS: 6F22041

478

Data File : Q:/VOA/MS4_MH/MH0606/MH062706\M415191.D Vial: 1
Acq On : 27 Jun 2006 8:18 am Operator: MD
Sample : BPF0219-TUN1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010



Spectrum Information: Scan 855

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.1	10690	PASS
75	95	30	60	42.2	29856	PASS
95	95	100	100	100.0	70716	PASS
96	95	5	9	8.2	5810	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	87.9	62136	PASS
175	174	5	9	7.7	4802	PASS
176	174	95	101	97.6	60656	PASS
177	176	5	9	6.4	3867	PASS

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH062706\M415192.D Vial: 2
Acq On : 27 Jun 2006 8:47 am Operator: MD
Sample : BPF0219-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	86	-0.03
2		Dichlorodifluoromethane	0.333	0.310	6.9	86	0.00
3		Chloromethane	0.158	0.137	13.3	83	-0.03
4		Vinyl Chloride	0.174	0.155	10.9	82	0.00
5		Bromomethane	0.160	0.143	10.6	83	0.00
6		Chloroethane	0.084	0.083	1.2	84	0.00
7		Trichlorofluoromethane	0.584	0.543	7.0	86	-0.02
8		Diethyl ether	0.105	0.089	15.2	79	0.00
9		Acrolein	0.021	0.016	23.8	74	-0.01
10		1,1,2-Trichloro-1,2,2-trifl	0.575	0.528	8.2	84	0.00
11		Acetone	0.009	0.007	22.2	76	-0.02
12		Iodomethane	0.572	0.575	-0.5	92	-0.02
13		Carbon Disulfide	0.622	0.549	11.7	82	-0.02
14		1,1-Dichloroethene	0.247	0.225	8.9	84	-0.02
15		Allyl Chloride	0.248	0.214	13.7	79	-0.02
16		Methyl Acetate	0.099	0.081	18.2	79	-0.03
17		Methylene Chloride	0.259	0.198	23.6	78	-0.01
18		Tertiary-butyl Alcohol	0.019	0.015	21.1	89	-0.03
19		Methyl tert-Butyl Ether	0.425	0.407	4.2	89	-0.03
20		Acrylonitrile	0.036	0.034	5.6	90	-0.03
21		trans-1,2-Dichloroethene	0.285	0.288	-1.1	93	-0.03
22		1,1-Dichloroethane	0.456	0.407	10.7	82	-0.03
23		Chloroprene	0.277	0.253	8.7	84	-0.03
24		Vinyl Acetate	0.692	0.566	18.2	76	-0.03
25		Di-isopropyl ether	0.680	0.566	16.8	77	-0.02
26		Ethyl tertiary-butyl ether	0.624	0.540	13.5	80	-0.03
27		2-Butanone	0.018	0.015	16.7	78	-0.03
28		cis-1,2 Dichloroethene	0.322	0.292	9.3	83	-0.03
29		2,2-Dichloropropane	0.390	0.367	5.9	86	-0.03
30		Methyl Acrylate	0.185	0.152	17.8	78	-0.03
31		Methacrylonitrile	0.108	0.083	23.1	78	-0.03
32		Bromochloromethane	0.241	0.224	7.1	85	-0.03
33		Tetrahydrofuran	0.048	0.039	18.8	75	-0.04
34		Chloroform	0.574	0.528	8.0	85	-0.03
35		1,1,1-Trichloroethane	0.560	0.518	7.5	86	-0.03
36	S	Dibromofluoromethane(SURR)	0.758	0.695	8.3	86	-0.03
37		Cyclohexane	0.313	0.267	14.7	77	-0.02
38		1-Chlorobutane	0.412	0.365	11.4	84	-0.02
39		1,1-Dichloropropene	0.392	0.358	8.7	85	-0.02
40		Carbon Tetrachloride	0.614	0.558	9.1	85	-0.03
41		Benzene	0.707	0.622	12.0	81	-0.02
42	S	1,2-Dichloroethane-d4(SURR)	0.246	0.227	7.7	87	-0.02

(#) = Out of Range
M415192.D LO060606.M Tue Jun 27 11:39:06 2006 MS4 Page 1

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH062706\M415192.D Vial: 2
Acq On : 27 Jun 2006 8:47 am Operator: MD
Sample : BPF0219-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43		1,2-Dichloroethane	0.257	0.238	7.4	85	-0.03
44		Tertiary-amyl methyl ether	0.571	0.500	12.4	81	-0.03
45		Trichloroethene	0.414	0.379	8.5	85	-0.03
46		Methyl Cyclohexane	0.400	0.361	9.8	83	-0.02
47		1,2-Dichloropropane	0.285	0.248	13.0	80	-0.03
48		Dibromomethane	0.337	0.305	9.5	84	-0.02
49		1,4-Dioxane	0.003	0.002	33.3#	76	-0.03
50		Methyl Methacrylate	0.181	0.147	18.8	75	-0.03
51		Bromodichloromethane	0.587	0.545	7.2	85	-0.02
52		2-Nitropropane	0.048	0.042	12.5	85	-0.03
53		2-Chloroethyl vinyl ether	0.105	0.084	20.0	75	-0.03
54		4-Methyl-2-Pentanone	0.086	0.069	19.8	77	-0.03
55		cis-1,3-Dichloropropene	0.436	0.394	9.6	82	-0.03
56		Toluene	0.545	0.494	9.4	83	-0.03
57		trans-1,3-Dichloropropene	0.363	0.334	8.0	84	-0.03
58		1,1,2-Trichloroethane	0.246	0.217	11.8	82	-0.03
59	I	Chlorobenzene-d5	1.000	1.000	0.0	86	-0.02
60	S	Toluene-d8 (SURR)	1.083	0.979	9.6	84	-0.02
61		2-Hexanone	0.174	0.134	23.0	78	-0.01
62		Ethyl Methacrylate	0.380	0.322	15.3	80	-0.03
63		1,3-Dichloropropane	0.462	0.403	12.8	81	-0.03
64		Tetrachloroethene	0.490	0.462	5.7	87	-0.03
65		Dibromochloromethane	0.797	0.726	8.9	84	-0.03
66		1,2-Dibromoethane	0.607	0.540	11.0	83	-0.03
67		1-Chlorohexane	0.516	0.476	7.8	86	-0.03
68		Chlorobenzene	0.931	0.863	7.3	85	-0.03
69		1,1,1,2-Tetrachloroethane	0.543	0.497	8.5	86	-0.02
70		Ethylbenzene	1.292	1.183	8.4	84	-0.03
71		Xylene P,M	0.534	0.492	7.9	85	-0.03
72		Xylene O	0.508	0.462	9.1	84	-0.03
73		Styrene	0.868	0.795	8.4	84	-0.02
74		Bromoform	0.583	0.539	7.5	86	-0.03
75		cis-1,4-Dichloro-2-butene	0.115	0.098	14.8	76	-0.03
76	S	Bromofluorobenzene (SURR)	0.733	0.671	8.5	84	-0.02
77	I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	88	-0.03
78		Isopropylbenzene	2.587	2.306	10.9	85	-0.03
79		Trans-1,4-Dichloro-2-Butene	0.155	0.136	12.3	82	-0.03
80		1,2,3-Trichloropropane	0.748	0.607	18.9	82	-0.03
81		Bromobenzene	0.910	0.826	9.2	86	-0.03
82		1,1,2,2-Tetrachloroethane	0.982	0.813	17.2	83	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH062706\M415192.D Vial: 2
Acq On : 27 Jun 2006 8:47 am Operator: MD
Sample : BPF0219-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%	%Dev	Area%	Dev(min)
83	n-Propylbenzene	3.314	2.992		9.7	83	-0.03
84	2-Chlorotoluene	1.625	1.458		10.3	90	-0.02
85	4-Chlorotoluene	2.186	1.940		11.3	85	-0.03
86	1,3,5-Trimethylbenzene	2.128	1.895		10.9	85	-0.02
87	Pentachloroethane	2.994	2.694		10.0	85	-0.03
88	tert-Butylbenzene	2.994	2.694		10.0	85	-0.03
89	1,2,4-Trimethylbenzene	2.152	1.911		11.2	85	-0.03
90	sec-Butylbenzene	3.215	2.884		10.3	85	-0.03
91	1,3 Dichlorobenzene	1.545	1.398		9.5	86	-0.03
92	4-Isopropyltoluene	2.609	2.366		9.3	86	-0.03
93	1,4 Dichlorobenzene	1.612	1.448		10.2	86	-0.03
94	n-Butylbenzene	2.333	2.109		9.6	85	-0.02
95	1,2 Dichlorobenzene	1.404	1.253		10.8	86	-0.03
96	Hexachloroethane	0.993	0.910		8.4	86	-0.02
97	1,2-Dibromo-3-Chloropropane	0.174	0.154		11.5	86	-0.03
98	1,2,4-Trichlorobenzene	1.170	1.065		9.0	88	-0.03
99	Hexachlorobutadiene	0.834	0.792		5.0	91	-0.03
100	Naphthalene	1.681	1.314		21.8	82	-0.03
101	1,2,3-Trichlorobenzene	1.006	0.888		11.7	89	-0.03

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH062706\M415192.D Vial: 2
Acq On : 27 Jun 2006 8:47 am Operator: MD
Sample : BPF0219-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 11:38 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.22	96	3702641	25.00 ug/l	-0.03
59) Chlorobenzene-d5	11.55	117	3194712	25.00 ug/l	-0.02
77) 1,4 Dichlorobenzene-D4	15.96	152	1891145	25.00 ug/l	-0.03
System Monitoring Compounds					
36) Dibromofluoromethane(SURR)	5.14	111	2572157	22.90 ug/l	-0.03
Spiked Amount 25.000	Range 70 - 130		Recovery = 91.60%		
42) 1,2-Dichloroethane-d4(SURR	5.66	65	841512	23.11 ug/l	-0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 92.44%		
60) Toluene-d8 (SURR)	8.98	98	3127411	22.60 ug/l	-0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 90.40%		
76) Bromofluorobenzene (SURR)	13.77	95	2143409	22.87 ug/l	-0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 91.48%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.21	85	1146259	23.23 ug/l	99
3) Chloromethane	1.33	50	509044	21.70 ug/l	100
4) Vinyl Chloride	1.40	62	572819	22.29 ug/l	99
5) Bromomethane	1.63	94	528209	22.35 ug/l	100
6) Chloroethane	1.70	64	307172	26.83 ug/l	98
7) Trichlorofluoromethane	1.88	101	2010493	23.25 ug/l	100
8) Diethyl ether	2.13	59	331364	21.26 ug/l	96
9) Acrolein	2.22	56	59252	19.38 ug/l	98
10) 1,1,2-Trichloro-1,2,2-trif	2.31	101	1953848	22.94 ug/l	92
11) Acetone	2.37	58	138670	98.63 ug/l	97
12) Iodomethane	2.43	142	2127507	25.10 ug/l	99
13) Carbon Disulfide	2.47	76	2034306	22.07 ug/l	100
14) 1,1-Dichloroethene	2.29	96	832622	22.77 ug/l	99
15) Allyl Chloride	2.62	41	792467	21.62 ug/l	95
16) Methyl Acetate	2.67	43	299449	21.40 ug/l	99
17) Methylene Chloride	2.76	84	734518	21.75 ug/l	98
18) Tertiary-butyl Alcohol	2.95	59	285259	114.10 ug/l	96
19) Methyl tert-Butyl Ether	3.07	73	1507724	23.98 ug/l	98
20) Acrylonitrile	3.02	53	126098	23.35 ug/l	97
21) trans-1,2-Dichloroethene	3.02	96	1065020	25.22 ug/l	98
22) 1,1-Dichloroethane	3.53	63	1505366	22.27 ug/l	100
23) Chloroprene	3.65	53	935774	22.80 ug/l	98
24) Vinyl Acetate	3.65	43	2095870	20.44 ug/l	98
25) Di-isopropyl ether	3.69	45	2096990	20.82 ug/l	88
26) Ethyl tertiary-butyl ether	4.21	59	1998855	21.61 ug/l	99
27) 2-Butanone	4.45	72	272881	102.05 ug/l	92
28) cis-1,2 Dichloroethene	4.36	96	1082407	22.70 ug/l	100

(#) = qualifier out of range (m) = manual integration
M415192.D LO060606.M Tue Jun 27 11:39:12 2006 MS4 Page 1

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH062706\M415192.D Vial: 2
Acq On : 27 Jun 2006 8:47 am Operator: MD
Sample : BPF0219-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 11:38 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) 2,2-Dichloropropane	4.35	77	1357488	23.49 ug/l	98
30) Methyl Acrylate	4.60	55	561279	20.47 ug/l	100
31) Methacrylonitrile	4.77	41	308794	19.37 ug/l	97
32) Bromochloromethane	4.74	128	827870	23.15 ug/l	96
33) Tetrahydrofuran	4.81	42	145209	20.27 ug/l	96
34) Chloroform	4.88	83	1953551	23.00 ug/l	100
35) 1,1,1-Trichloroethane	5.12	97	1916470	23.09 ug/l	99
37) Cyclohexane	5.20	56	988932	21.34 ug/l	96
38) 1-Chlorobutane	5.33	56	1353232	22.17 ug/l	100
39) 1,1-Dichloropropene	5.41	75	1325676	22.83 ug/l	98
40) Carbon Tetrachloride	5.38	117	2064546	22.70 ug/l	99
41) Benzene	5.73	78	2301342	21.99 ug/l	100
43) 1,2-Dichloroethane	5.78	62	882518	23.17 ug/l	98
44) Tertiary-amyl methyl ether	6.00	73	1850314	21.87 ug/l	99
45) Trichloroethene	6.83	95	1403847	22.91 ug/l	99
46) Methyl Cyclohexane	7.13	83	1337870	22.58 ug/l	97
47) 1,2-Dichloropropane	7.21	63	917060	21.72 ug/l	98
48) Dibromomethane	7.40	93	1130190	22.64 ug/l	94
49) 1,4-Dioxane	7.50	88	152973	402.23 ug/l	97
50) Methyl Methacrylate	7.55	41	542923	20.23 ug/l	96
51) Bromodichloromethane	7.73	83	2016099	23.21 ug/l	99
52) 2-Nitropropane	8.14	43	153798	21.81 ug/l	100
53) 2-Chloroethyl vinyl ether	8.34	63	312342	22.81 ug/l	97
54) 4-Methyl-2-Pentanone	8.87	58	1270023	99.51 ug/l	98
55) cis-1,3-Dichloropropene	8.52	75	1460092	22.63 ug/l	97
56) Toluene	9.08	92	1829079	22.67 ug/l	99
57) trans-1,3-Dichloropropene	9.54	75	1236403	23.00 ug/l	99
58) 1,1,2-Trichloroethane	9.84	83	803934	22.03 ug/l	99
61) 2-Hexanone	10.39	43	2132812	102.88 ug/l	97
62) Ethyl Methacrylate	9.81	69	1029677	21.18 ug/l	96
63) 1,3-Dichloropropane	10.12	76	1285991	21.77 ug/l	99
64) Tetrachloroethene	10.03	164	1475604	23.54 ug/l	98
65) Dibromochloromethane	10.51	129	2319498	22.78 ug/l	100
66) 1,2-Dibromoethane	10.66	107	1724096	22.22 ug/l	99
67) 1-Chlorohexane	11.67	91	1522101	23.10 ug/l	100
68) Chlorobenzene	11.60	112	2755757	23.17 ug/l	99
69) 1,1,1,2-Tetrachloroethane	11.79	131	1588695	22.88 ug/l	98
70) Ethylbenzene	11.85	91	3779426	22.89 ug/l	100
71) Xylene P,M	12.09	106	3141439	46.04 ug/l	99
72) Xylene O	12.80	106	1475619	22.74 ug/l	100
73) Styrene	12.85	104	2540273	22.89 ug/l	99
74) Bromoform	13.11	173	1722934	23.13 ug/l	95

(#) = qualifier out of range (m) = manual integration
M415192.D LO060606.M Tue Jun 27 11:39:13 2006 MS4 Page 2

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH062706\M415192.D Vial: 2
Acq On : 27 Jun 2006 8:47 am Operator: MD
Sample : BPF0219-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 11:38 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75)	cis-1,4-Dichloro-2-butene	13.71	75	311548m	21.15 ug/l	
78)	Isopropylbenzene	13.52	105	4361636	22.29 ug/l	99
79)	Trans-1,4-Dichloro-2-Buten	14.25	53	256396	21.82 ug/l	97
80)	1,2,3-Trichloropropane	14.16	75	1147773	20.27 ug/l	100
81)	Bromobenzene	13.99	156	1561867	22.69 ug/l	99
82)	1,1,2,2-Tetrachloroethane	14.14	83	1537065	22.06 ug/l	99
83)	n-Propylbenzene	14.30	91	5657705	22.57 ug/l	99
84)	2-Chlorotoluene	14.39	91	2757025m	22.43 ug/l	
85)	4-Chlorotoluene	14.62	91	3668331	22.18 ug/l	99
86)	1,3,5-Trimethylbenzene	14.68	105	3583096	22.26 ug/l	99
87)	Pentachloroethane	15.26	119	5095032	22.50 ug/l	99
88)	tert-Butylbenzene	15.26	119	5095032	22.50 ug/l	100
89)	1,2,4-Trimethylbenzene	15.36	105	3614526	22.21 ug/l	100
90)	sec-Butylbenzene	15.69	105	5454361	22.43 ug/l	100
91)	1,3 Dichlorobenzene	15.82	146	2644621	22.62 ug/l	99
92)	4-Isopropyltoluene	16.00	119	4473997	22.67 ug/l	100
93)	1,4 Dichlorobenzene	16.00	146	2739000	22.46 ug/l	99
94)	n-Butylbenzene	16.79	91	3988973	22.61 ug/l	98
95)	1,2 Dichlorobenzene	16.69	146	2369785	22.32 ug/l	99
96)	Hexachloroethane	17.16	117	1721849	22.93 ug/l	96
97)	1,2-Dibromo-3-Chloropropan	18.23	75	291377	22.11 ug/l	96
98)	1,2,4-Trichlorobenzene	20.14	180	2014674	22.76 ug/l	99
99)	Hexachlorobutadiene	20.54	225	1497206	23.73 ug/l	100
100)	Naphthalene	20.58	128	2485245	21.62 ug/l	100
101)	1,2,3-Trichlorobenzene	20.99	180	1679912	24.12 ug/l	100

Volatile Organics Data Package

MeOH

Volatile Organics
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2701
Date Sampled: 06/22/06 17:35
Percent Solids: 20
Initial Volume: 11.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-05
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	1030	1	06/28/06
1,1,1-Trichloroethane	ND	ug/Kg dry	515	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	515	1	06/28/06
1,1,2-Trichloroethane	ND	ug/Kg dry	515	1	06/28/06
1,1-Dichloroethane	**4670**	ug/Kg dry	515	1	06/28/06
1,1-Dichloroethene	**2340**	ug/Kg dry	515	1	06/28/06
1,1-Dichloropropene	ND	ug/Kg dry	515	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	515	1	06/28/06
1,2,3-Trichloropropane	ND	ug/Kg dry	515	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	515	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	515	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	2580	1	06/28/06
1,2-Dibromoethane	ND	ug/Kg dry	515	1	06/28/06
1,2-Dichlorobenzene	ND	ug/Kg dry	515	1	06/28/06
1,2-Dichloroethane	ND	ug/Kg dry	515	1	06/28/06
1,2-Dichloropropane	ND	ug/Kg dry	515	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	515	1	06/28/06
1,3-Dichlorobenzene	ND	ug/Kg dry	515	1	06/28/06
1,3-Dichloropropane	ND	ug/Kg dry	515	1	06/28/06
1,4-Dichlorobenzene	ND	ug/Kg dry	515	1	06/28/06
1,4-Dioxane - Screen	ND	ug/Kg dry	51500	1	06/28/06
1-Chlorohexane	ND	ug/Kg dry	515	1	06/28/06
2,2-Dichloropropane	ND	ug/Kg dry	1030	1	06/28/06
2-Butanone	ND	ug/Kg dry	12900	1	06/28/06
2-Chlorotoluene	ND	ug/Kg dry	515	1	06/28/06
2-Hexanone	ND	ug/Kg dry	5150	1	06/28/06
4-Chlorotoluene	ND	ug/Kg dry	515	1	06/28/06
4-Isopropyltoluene	ND	ug/Kg dry	515	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	5150	1	06/28/06
Acetone	ND	ug/Kg dry	12900	1	06/28/06
Benzene	ND	ug/Kg dry	515	1	06/28/06
Bromobenzene	ND	ug/Kg dry	515	1	06/28/06
Bromochloromethane	ND	ug/Kg dry	515	1	06/28/06
Bromodichloromethane	ND	ug/Kg dry	515	1	06/28/06
Bromoform	ND	ug/Kg dry	515	1	06/28/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2701
Date Sampled: 06/22/06 17:35
Percent Solids: 20
Initial Volume: 11.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-05
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Bromomethane	ND	ug/Kg dry	1030	1	06/28/06
Carbon Disulfide	ND	ug/Kg dry	515	1	06/28/06
Carbon Tetrachloride	ND	ug/Kg dry	515	1	06/28/06
Chlorobenzene	ND	ug/Kg dry	515	1	06/28/06
Chloroethane	ND	ug/Kg dry	1030	1	06/28/06
Chloroform	ND	ug/Kg dry	515	1	06/28/06
Chloromethane	ND	ug/Kg dry	1030	1	06/28/06
cis-1,2-Dichloroethene	**103000**	ug/Kg dry	515	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	515	1	06/28/06
Dibromochloromethane	ND	ug/Kg dry	515	1	06/28/06
Dibromomethane	ND	ug/Kg dry	515	1	06/28/06
Dichlorodifluoromethane	ND	ug/Kg dry	515	1	06/28/06
Diethyl Ether	ND	ug/Kg dry	515	1	06/28/06
Di-isopropyl ether	ND	ug/Kg dry	515	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	515	1	06/28/06
Ethylbenzene	ND	ug/Kg dry	515	1	06/28/06
Hexachlorobutadiene	ND	ug/Kg dry	515	1	06/28/06
Isopropylbenzene	ND	ug/Kg dry	515	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	515	1	06/28/06
Methylene Chloride	ND	ug/Kg dry	2580	1	06/28/06
Naphthalene	ND	ug/Kg dry	515	1	06/28/06
n-Butylbenzene	ND	ug/Kg dry	515	1	06/28/06
n-Propylbenzene	ND	ug/Kg dry	515	1	06/28/06
sec-Butylbenzene	ND	ug/Kg dry	515	1	06/28/06
Styrene	ND	ug/Kg dry	515	1	06/28/06
tert-Butylbenzene	ND	ug/Kg dry	515	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	515	1	06/28/06
Tetrachloroethene	ND	ug/Kg dry	515	1	06/28/06
Tetrahydrofuran	ND	ug/Kg dry	2580	1	06/28/06
Toluene	ND	ug/Kg dry	515	1	06/28/06
trans-1,2-Dichloroethene	**3620**	ug/Kg dry	515	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	515	1	06/28/06
Trichloroethene	**15100**	ug/Kg dry	515	1	06/28/06
Trichlorofluoromethane	ND	ug/Kg dry	515	1	06/28/06
Vinyl Acetate	ND	ug/Kg dry	2580	1	06/28/06
Vinyl Chloride	**5420**	ug/Kg dry	515	1	06/28/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2701
Date Sampled: 06/22/06 17:35
Percent Solids: 20
Initial Volume: 11.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-05
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Xylene O	ND	ug/Kg dry	515	1	06/28/06
Xylene P,M	ND	ug/Kg dry	1030	1	06/28/06
Xylenes (Total)	ND	ug/Kg dry	1540		06/28/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*93 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*87 %*		*70-130*
Surrogate: Dibromofluoromethane	*101 %*		*70-130*
Surrogate: Toluene-d8	*94 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2703
Date Sampled: 06/22/06 17:46
Percent Solids: 79
Initial Volume: 19.2
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-06
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	125	1	06/28/06
1,1,1-Trichloroethane	**384**	ug/Kg dry	62.7	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	62.7	1	06/28/06
1,1,2-Trichloroethane	ND	ug/Kg dry	62.7	1	06/28/06
1,1-Dichloroethane	ND	ug/Kg dry	62.7	1	06/28/06
1,1-Dichloroethene	ND	ug/Kg dry	62.7	1	06/28/06
1,1-Dichloropropene	ND	ug/Kg dry	62.7	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	62.7	1	06/28/06
1,2,3-Trichloropropane	ND	ug/Kg dry	62.7	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	62.7	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	62.7	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	314	1	06/28/06
1,2-Dibromoethane	ND	ug/Kg dry	62.7	1	06/28/06
1,2-Dichlorobenzene	ND	ug/Kg dry	62.7	1	06/28/06
1,2-Dichloroethane	ND	ug/Kg dry	62.7	1	06/28/06
1,2-Dichloropropane	ND	ug/Kg dry	62.7	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	62.7	1	06/28/06
1,3-Dichlorobenzene	ND	ug/Kg dry	62.7	1	06/28/06
1,3-Dichloropropane	ND	ug/Kg dry	62.7	1	06/28/06
1,4-Dichlorobenzene	ND	ug/Kg dry	62.7	1	06/28/06
1,4-Dioxane - Screen	ND	ug/Kg dry	6270	1	06/28/06
1-Chlorohexane	ND	ug/Kg dry	62.7	1	06/28/06
2,2-Dichloropropane	ND	ug/Kg dry	125	1	06/28/06
2-Butanone	ND	ug/Kg dry	1570	1	06/28/06
2-Chlorotoluene	ND	ug/Kg dry	62.7	1	06/28/06
2-Hexanone	ND	ug/Kg dry	627	1	06/28/06
4-Chlorotoluene	ND	ug/Kg dry	62.7	1	06/28/06
4-Isopropyltoluene	ND	ug/Kg dry	62.7	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	627	1	06/28/06
Acetone	ND	ug/Kg dry	1570	1	06/28/06
Benzene	ND	ug/Kg dry	62.7	1	06/28/06
Bromobenzene	ND	ug/Kg dry	62.7	1	06/28/06
Bromochloromethane	ND	ug/Kg dry	62.7	1	06/28/06
Bromodichloromethane	ND	ug/Kg dry	62.7	1	06/28/06
Bromoform	ND	ug/Kg dry	62.7	1	06/28/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2703
Date Sampled: 06/22/06 17:46
Percent Solids: 79
Initial Volume: 19.2
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-06
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Bromomethane	ND	ug/Kg dry	125	1	06/28/06
Carbon Disulfide	ND	ug/Kg dry	62.7	1	06/28/06
Carbon Tetrachloride	ND	ug/Kg dry	62.7	1	06/28/06
Chlorobenzene	ND	ug/Kg dry	62.7	1	06/28/06
Chloroethane	ND	ug/Kg dry	125	1	06/28/06
Chloroform	ND	ug/Kg dry	62.7	1	06/28/06
Chloromethane	ND	ug/Kg dry	125	1	06/28/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	62.7	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	62.7	1	06/28/06
Dibromochloromethane	ND	ug/Kg dry	62.7	1	06/28/06
Dibromomethane	ND	ug/Kg dry	62.7	1	06/28/06
Dichlorodifluoromethane	ND	ug/Kg dry	62.7	1	06/28/06
Diethyl Ether	ND	ug/Kg dry	62.7	1	06/28/06
Di-isopropyl ether	ND	ug/Kg dry	62.7	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	62.7	1	06/28/06
Ethylbenzene	ND	ug/Kg dry	62.7	1	06/28/06
Hexachlorobutadiene	ND	ug/Kg dry	62.7	1	06/28/06
Isopropylbenzene	ND	ug/Kg dry	62.7	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	62.7	1	06/28/06
Methylene Chloride	ND	ug/Kg dry	314	1	06/28/06
Naphthalene	ND	ug/Kg dry	62.7	1	06/28/06
n-Butylbenzene	ND	ug/Kg dry	62.7	1	06/28/06
n-Propylbenzene	ND	ug/Kg dry	62.7	1	06/28/06
sec-Butylbenzene	ND	ug/Kg dry	62.7	1	06/28/06
Styrene	ND	ug/Kg dry	62.7	1	06/28/06
tert-Butylbenzene	ND	ug/Kg dry	62.7	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	62.7	1	06/28/06
Tetrachloroethene	ND	ug/Kg dry	62.7	1	06/28/06
Tetrahydrofuran	ND	ug/Kg dry	314	1	06/28/06
Toluene	ND	ug/Kg dry	62.7	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	62.7	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	62.7	1	06/28/06
Trichloroethene	**691**	ug/Kg dry	62.7	1	06/28/06
Trichlorofluoromethane	ND	ug/Kg dry	62.7	1	06/28/06
Vinyl Acetate	ND	ug/Kg dry	314	1	06/28/06
Vinyl Chloride	ND	ug/Kg dry	62.7	1	06/28/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2703
Date Sampled: 06/22/06 17:46
Percent Solids: 79
Initial Volume: 19.2
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-06
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Xylene O	ND	ug/Kg dry	62.7	1	06/28/06
Xylene P,M	ND	ug/Kg dry	125	1	06/28/06
Xylenes (Total)	ND	ug/Kg dry	188		06/28/06

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*87 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*91 %*		*70-130*
Surrogate: Dibromofluoromethane	*97 %*		*70-130*
Surrogate: Toluene-d8	*96 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2501
Date Sampled: 06/22/06 18:45
Percent Solids: 30
Initial Volume: 15.7
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-10
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	552	1	06/28/06
1,1,1-Trichloroethane	ND	ug/Kg dry	276	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	276	1	06/28/06
1,1,2-Trichloroethane	ND	ug/Kg dry	276	1	06/28/06
1,1-Dichloroethane	**1090**	ug/Kg dry	276	1	06/28/06
1,1-Dichloroethene	ND	ug/Kg dry	276	1	06/28/06
1,1-Dichloropropene	ND	ug/Kg dry	276	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	276	1	06/28/06
1,2,3-Trichloropropane	ND	ug/Kg dry	276	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	276	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	276	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	1380	1	06/28/06
1,2-Dibromoethane	ND	ug/Kg dry	276	1	06/28/06
1,2-Dichlorobenzene	ND	ug/Kg dry	276	1	06/28/06
1,2-Dichloroethane	ND	ug/Kg dry	276	1	06/28/06
1,2-Dichloropropane	ND	ug/Kg dry	276	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	276	1	06/28/06
1,3-Dichlorobenzene	ND	ug/Kg dry	276	1	06/28/06
1,3-Dichloropropane	ND	ug/Kg dry	276	1	06/28/06
1,4-Dichlorobenzene	ND	ug/Kg dry	276	1	06/28/06
1,4-Dioxane - Screen	ND	ug/Kg dry	27600	1	06/28/06
1-Chlorohexane	ND	ug/Kg dry	276	1	06/28/06
2,2-Dichloropropane	ND	ug/Kg dry	552	1	06/28/06
2-Butanone	ND	ug/Kg dry	6900	1	06/28/06
2-Chlorotoluene	ND	ug/Kg dry	276	1	06/28/06
2-Hexanone	ND	ug/Kg dry	2760	1	06/28/06
4-Chlorotoluene	ND	ug/Kg dry	276	1	06/28/06
4-Isopropyltoluene	ND	ug/Kg dry	276	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	2760	1	06/28/06
Acetone	ND	ug/Kg dry	6900	1	06/28/06
Benzene	ND	ug/Kg dry	276	1	06/28/06
Bromobenzene	ND	ug/Kg dry	276	1	06/28/06
Bromochloromethane	ND	ug/Kg dry	276	1	06/28/06
Bromodichloromethane	ND	ug/Kg dry	276	1	06/28/06
Bromoform	ND	ug/Kg dry	276	1	06/28/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2501
Date Sampled: 06/22/06 18:45
Percent Solids: 30
Initial Volume: 15.7
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-10
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Bromomethane	ND	ug/Kg dry	552	1	06/28/06
Carbon Disulfide	ND	ug/Kg dry	276	1	06/28/06
Carbon Tetrachloride	ND	ug/Kg dry	276	1	06/28/06
Chlorobenzene	ND	ug/Kg dry	276	1	06/28/06
Chloroethane	ND	ug/Kg dry	552	1	06/28/06
Chloroform	ND	ug/Kg dry	276	1	06/28/06
Chloromethane	ND	ug/Kg dry	552	1	06/28/06
cis-1,2-Dichloroethene	**11500**	ug/Kg dry	276	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	276	1	06/28/06
Dibromochloromethane	ND	ug/Kg dry	276	1	06/28/06
Dibromomethane	ND	ug/Kg dry	276	1	06/28/06
Dichlorodifluoromethane	ND	ug/Kg dry	276	1	06/28/06
Diethyl Ether	ND	ug/Kg dry	276	1	06/28/06
Di-isopropyl ether	ND	ug/Kg dry	276	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	276	1	06/28/06
Ethylbenzene	ND	ug/Kg dry	276	1	06/28/06
Hexachlorobutadiene	ND	ug/Kg dry	276	1	06/28/06
Isopropylbenzene	ND	ug/Kg dry	276	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	276	1	06/28/06
Methylene Chloride	ND	ug/Kg dry	1380	1	06/28/06
Naphthalene	ND	ug/Kg dry	276	1	06/28/06
n-Butylbenzene	ND	ug/Kg dry	276	1	06/28/06
n-Propylbenzene	ND	ug/Kg dry	276	1	06/28/06
sec-Butylbenzene	ND	ug/Kg dry	276	1	06/28/06
Styrene	ND	ug/Kg dry	276	1	06/28/06
tert-Butylbenzene	ND	ug/Kg dry	276	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	276	1	06/28/06
Tetrachloroethene	ND	ug/Kg dry	276	1	06/28/06
Tetrahydrofuran	ND	ug/Kg dry	1380	1	06/28/06
Toluene	ND	ug/Kg dry	276	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	276	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	276	1	06/28/06
Trichloroethene	**276**	ug/Kg dry	276	1	06/28/06
Trichlorofluoromethane	ND	ug/Kg dry	276	1	06/28/06
Vinyl Acetate	ND	ug/Kg dry	1380	1	06/28/06
Vinyl Chloride	**24800**	ug/Kg dry	276	1	06/28/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2501
Date Sampled: 06/22/06 18:45
Percent Solids: 30
Initial Volume: 15.7
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-10
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Xylene O	ND	ug/Kg dry	276	1	06/28/06
Xylene P,M	ND	ug/Kg dry	552	1	06/28/06
Xylenes (Total)	ND	ug/Kg dry	828		06/28/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*74 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*69 %*	*+*	*70-130*
Surrogate: Dibromofluoromethane	*91 %*		*70-130*
Surrogate: Toluene-d8	*78 %*		*70-130*

Volatile Organics Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF62718 - 5035										
Bromoform	12.7		ug/L	25.0	ND	51	70-130	0	20	+
Bromomethane	19.1		ug/L	25.0	ND	76	70-130	1	20	
Carbon Disulfide	25.1		ug/L	25.0	4.38	83	70-130	0	20	
Carbon Tetrachloride	16.4		ug/L	25.0	ND	66	70-130	11	20	+
Chlorobenzene	13.0		ug/L	25.0	ND	52	70-130	6	20	+
Chloroethane	26.8		ug/L	25.0	ND	107	70-130	3	20	
Chloroform	18.4		ug/L	25.0	ND	74	70-130	3	20	
Chloromethane	19.3		ug/L	25.0	ND	77	70-130	3	20	
cis-1,2-Dichloroethene	38.0		ug/L	25.0	33.6	18	70-130	5	20	+
cis-1,3-Dichloropropene	11.6		ug/L	25.0	ND	46	70-130	6	20	+
Dibromochloromethane	14.3		ug/L	25.0	ND	57	70-130	2	20	+
Dibromomethane	16.4		ug/L	25.0	ND	66	70-130	0	20	+
Dichlorodifluoromethane	21.4		ug/L	25.0	ND	86	70-130	3	20	+
Diethyl Ether	17.2		ug/L	25.0	ND	69	70-130	3	20	+
Di-isopropyl ether	17.2		ug/L	25.0	ND	69	70-130	3	20	+
Ethyl tertiary-butyl ether	17.2		ug/L	25.0	ND	69	70-130	3	20	+
Ethylbenzene	14.2		ug/L	25.0	ND	57	70-130	8	20	+
Hexachlorobutadiene	3.9		ug/L	25.0	ND	16	70-130	40	20	+
Isopropylbenzene	11.8		ug/L	25.0	0.525	45	70-130	16	20	+
Methyl tert-Butyl Ether	17.8		ug/L	25.0	ND	71	70-130	9	20	
Methylene Chloride	17.6		ug/L	25.0	-1.41	76	70-130	4	20	
Naphthalene	5.8		ug/L	25.0	ND	23	70-130	12	20	+
n-Butylbenzene	7.6		ug/L	25.0	ND	30	70-130	29	20	+
n-Propylbenzene	10.7		ug/L	25.0	ND	43	70-130	13	20	+
sec-Butylbenzene	9.3		ug/L	25.0	0.325	36	70-130	29	20	+
Styrene	1.9		ug/L	25.0	ND	8	70-130	32	20	+
tert-Butylbenzene	10.2		ug/L	25.0	ND	41	70-130	20	20	+
Tertiary-amyl methyl ether	17.3		ug/L	25.0	ND	69	70-130	4	20	+
Tetrachloroethene	15.4		ug/L	25.0	ND	62	70-130	9	20	+
Tetrahydrofuran	17.6		ug/L	25.0	ND	70	70-130	3	20	
Toluene	16.1		ug/L	25.0	ND	64	70-130	5	20	+
trans-1,2-Dichloroethene	19.1		ug/L	25.0	1.26	71	70-130	7	20	
trans-1,3-Dichloropropene	10.6		ug/L	25.0	ND	42	70-130	5	20	+
Trichloroethene	17.4		ug/L	25.0	0.725	67	70-130	4	20	+
Trichlorofluoromethane	20.9		ug/L	25.0	ND	84	70-130	4	20	
Vinyl Chloride	36.0		ug/L	25.0	35.4	2	70-130	143	20	+
Xylene O	12.7		ug/L	25.0	ND	51	70-130	9	20	+
Xylene P,M	26.9		ug/L	50.0	ND	54	70-130	9	20	+
Surrogate: 1,2-Dichloroethane-d4	*25.2*		ug/L	*25.0*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.9*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*24.5*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: Toluene-d8	*24.0*		ug/L	*25.0*		*96*	*70-130*			
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62806 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	100	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62806 -5035										
1,1,1-Trichloroethane	ND	50.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	50.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	50.0	ug/Kg wet							
1,1-Dichloroethane	ND	50.0	ug/Kg wet							
1,1-Dichloroethene	ND	50.0	ug/Kg wet							
1,1-Dichloropropene	ND	50.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	50.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	50.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	50.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	50.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	250	ug/Kg wet							
1,2-Dibromoethane	ND	50.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,2-Dichloroethane	ND	50.0	ug/Kg wet							
1,2-Dichloropropane	ND	50.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	50.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,3-Dichloropropane	ND	50.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	5000	ug/Kg wet							
1-Chlorohexane	ND	50.0	ug/Kg wet							
2,2-Dichloropropane	ND	100	ug/Kg wet							
2-Butanone	ND	1250	ug/Kg wet							
2-Chlorotoluene	ND	50.0	ug/Kg wet							
2-Hexanone	ND	500	ug/Kg wet							
4-Chlorotoluene	ND	50.0	ug/Kg wet							
4-Isopropyltoluene	ND	50.0	ug/Kg wet							
4-Methyl-2-Pentanone	ND	500	ug/Kg wet							
Acetone	ND	1250	ug/Kg wet							
Benzene	ND	50.0	ug/Kg wet							
Bromobenzene	ND	50.0	ug/Kg wet							
Bromochloromethane	ND	50.0	ug/Kg wet							
Bromodichloromethane	ND	50.0	ug/Kg wet							
Bromoform	ND	50.0	ug/Kg wet							
Bromomethane	ND	100	ug/Kg wet							
Carbon Disulfide	ND	50.0	ug/Kg wet							
Carbon Tetrachloride	ND	50.0	ug/Kg wet							
Chlorobenzene	ND	50.0	ug/Kg wet							
Chloroethane	ND	100	ug/Kg wet							
Chloroform	ND	50.0	ug/Kg wet							
Chloromethane	ND	100	ug/Kg wet							
cis-1,2-Dichloroethene	ND	50.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	50.0	ug/Kg wet							
Dibromochloromethane	ND	50.0	ug/Kg wet							
Dibromomethane	ND	50.0	ug/Kg wet							
Dichlorodifluoromethane	ND	50.0	ug/Kg wet							
Diethyl Ether	ND	50.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62806 - 5035										
1,1,1-Trichloroethane	ND	50.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	50.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	50.0	ug/Kg wet							
1,1-Dichloroethane	ND	50.0	ug/Kg wet							
1,1-Dichloroethene	ND	50.0	ug/Kg wet							
1,1-Dichloropropene	ND	50.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	50.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	50.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	50.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	50.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	250	ug/Kg wet							
1,2-Dibromoethane	ND	50.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,2-Dichloroethane	ND	50.0	ug/Kg wet							
1,2-Dichloropropane	ND	50.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	50.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,3-Dichloropropane	ND	50.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	5000	ug/Kg wet							
1-Chlorohexane	ND	50.0	ug/Kg wet							
2,2-Dichloropropane	ND	100	ug/Kg wet							
2-Butanone	ND	1250	ug/Kg wet							
2-Chlorotoluene	ND	50.0	ug/Kg wet							
2-Hexanone	ND	500	ug/Kg wet							
4-Chlorotoluene	ND	50.0	ug/Kg wet							
4-Isopropyltoluene	ND	50.0	ug/Kg wet							
4-Methyl-2-Pentanone	ND	500	ug/Kg wet							
Acetone	ND	1250	ug/Kg wet							
Benzene	ND	50.0	ug/Kg wet							
Bromobenzene	ND	50.0	ug/Kg wet							
Bromochloromethane	ND	50.0	ug/Kg wet							
Bromodichloromethane	ND	50.0	ug/Kg wet							
Bromoform	ND	50.0	ug/Kg wet							
Bromomethane	ND	100	ug/Kg wet							
Carbon Disulfide	ND	50.0	ug/Kg wet							
Carbon Tetrachloride	ND	50.0	ug/Kg wet							
Chlorobenzene	ND	50.0	ug/Kg wet							
Chloroethane	ND	100	ug/Kg wet							
Chloroform	ND	50.0	ug/Kg wet							
Chloromethane	ND	100	ug/Kg wet							
cis-1,2-Dichloroethene	ND	50.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	50.0	ug/Kg wet							
Dibromochloromethane	ND	50.0	ug/Kg wet							
Dibromomethane	ND	50.0	ug/Kg wet							
Dichlorodifluoromethane	ND	50.0	ug/Kg wet							
Diethyl Ether	ND	50.0	ug/Kg wet							

500

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62806 - 5035										
1,1,1-Trichloroethane	ND	50.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	50.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	50.0	ug/Kg wet							
1,1-Dichloroethane	ND	50.0	ug/Kg wet							
1,1-Dichloroethene	ND	50.0	ug/Kg wet							
1,1-Dichloropropene	ND	50.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	50.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	50.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	50.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	50.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	250	ug/Kg wet							
1,2-Dibromoethane	ND	50.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,2-Dichloroethane	ND	50.0	ug/Kg wet							
1,2-Dichloropropane	ND	50.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	50.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,3-Dichloropropane	ND	50.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	5000	ug/Kg wet							
1-Chlorohexane	ND	50.0	ug/Kg wet							
2,2-Dichloropropane	ND	100	ug/Kg wet							
2-Butanone	ND	1250	ug/Kg wet							
2-Chlorotoluene	ND	50.0	ug/Kg wet							
2-Hexanone	ND	500	ug/Kg wet							
4-Chlorotoluene	ND	50.0	ug/Kg wet							
4-Isopropyltoluene	ND	50.0	ug/Kg wet							
4-Methyl-2-Pentanone	ND	500	ug/Kg wet							
Acetone	ND	1250	ug/Kg wet							
Benzene	ND	50.0	ug/Kg wet							
Bromobenzene	ND	50.0	ug/Kg wet							
Bromochloromethane	ND	50.0	ug/Kg wet							
Bromodichloromethane	ND	50.0	ug/Kg wet							
Bromoform	ND	50.0	ug/Kg wet							
Bromomethane	ND	100	ug/Kg wet							
Carbon Disulfide	ND	50.0	ug/Kg wet							
Carbon Tetrachloride	ND	50.0	ug/Kg wet							
Chlorobenzene	ND	50.0	ug/Kg wet							
Chloroethane	ND	100	ug/Kg wet							
Chloroform	ND	50.0	ug/Kg wet							
Chloromethane	ND	100	ug/Kg wet							
cis-1,2-Dichloroethene	ND	50.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	50.0	ug/Kg wet							
Dibromochloromethane	ND	50.0	ug/Kg wet							
Dibromomethane	ND	50.0	ug/Kg wet							
Dichlorodifluoromethane	ND	50.0	ug/Kg wet							
Diethyl Ether	ND	50.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62806 - 5035										
1,1,1-Trichloroethane	ND	50.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	50.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	50.0	ug/Kg wet							
1,1-Dichloroethane	ND	50.0	ug/Kg wet							
1,1-Dichloroethene	ND	50.0	ug/Kg wet							
1,1-Dichloropropene	ND	50.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	50.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	50.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	50.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	50.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	250	ug/Kg wet							
1,2-Dibromoethane	ND	50.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,2-Dichloroethane	ND	50.0	ug/Kg wet							
1,2-Dichloropropane	ND	50.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	50.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,3-Dichloropropane	ND	50.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	5000	ug/Kg wet							
1-Chlorohexane	ND	50.0	ug/Kg wet							
2,2-Dichloropropane	ND	100	ug/Kg wet							
2-Butanone	ND	1250	ug/Kg wet							
2-Chlorotoluene	ND	50.0	ug/Kg wet							
2-Hexanone	ND	500	ug/Kg wet							
4-Chlorotoluene	ND	50.0	ug/Kg wet							
4-Isopropyltoluene	ND	50.0	ug/Kg wet							
4-Methyl-2-Pentanone	ND	500	ug/Kg wet							
Acetone	ND	1250	ug/Kg wet							
Benzene	ND	50.0	ug/Kg wet							
Bromobenzene	ND	50.0	ug/Kg wet							
Bromochloromethane	ND	50.0	ug/Kg wet							
Bromodichloromethane	ND	50.0	ug/Kg wet							
Bromoform	ND	50.0	ug/Kg wet							
Bromomethane	ND	100	ug/Kg wet							
Carbon Disulfide	ND	50.0	ug/Kg wet							
Carbon Tetrachloride	ND	50.0	ug/Kg wet							
Chlorobenzene	ND	50.0	ug/Kg wet							
Chloroethane	ND	100	ug/Kg wet							
Chloroform	ND	50.0	ug/Kg wet							
Chloromethane	ND	100	ug/Kg wet							
cis-1,2-Dichloroethene	ND	50.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	50.0	ug/Kg wet							
Dibromochloromethane	ND	50.0	ug/Kg wet							
Dibromomethane	ND	50.0	ug/Kg wet							
Dichlorodifluoromethane	ND	50.0	ug/Kg wet							
Diethyl Ether	ND	50.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62806 - 5035										
Di-isopropyl ether	ND	50.0	ug/Kg wet							
Ethyl tertiary-butyl ether	ND	50.0	ug/Kg wet							
Ethylbenzene	ND	50.0	ug/Kg wet							
Hexachlorobutadiene	ND	50.0	ug/Kg wet							
Isopropylbenzene	ND	50.0	ug/Kg wet							
Methyl tert-Butyl Ether	ND	50.0	ug/Kg wet							
Methylene Chloride	ND	250	ug/Kg wet							
Naphthalene	ND	50.0	ug/Kg wet							
n-Butylbenzene	ND	50.0	ug/Kg wet							
n-Propylbenzene	ND	50.0	ug/Kg wet							
sec-Butylbenzene	ND	50.0	ug/Kg wet							
Styrene	ND	50.0	ug/Kg wet							
tert-Butylbenzene	ND	50.0	ug/Kg wet							
Tertiary-amyl methyl ether	ND	50.0	ug/Kg wet							
Tetrachloroethene	ND	50.0	ug/Kg wet							
Tetrahydrofuran	ND	250	ug/Kg wet							
Toluene	ND	50.0	ug/Kg wet							
trans-1,2-Dichloroethene	ND	50.0	ug/Kg wet							
trans-1,3-Dichloropropene	ND	50.0	ug/Kg wet							
Trichloroethene	ND	50.0	ug/Kg wet							
Trichlorofluoromethane	ND	50.0	ug/Kg wet							
Vinyl Acetate	ND	250	ug/Kg wet							
Vinyl Chloride	ND	50.0	ug/Kg wet							
Xylene O	ND	50.0	ug/Kg wet							
Xylene P,M	ND	100	ug/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*2280*		ug/Kg wet	*2500*		*91*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2490*		ug/Kg wet	*2500*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*2600*		ug/Kg wet	*2500*		*104*	*70-130*			
Surrogate: Toluene-d8	*2560*		ug/Kg wet	*2500*		*102*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	23.2		ug/L	25.0		93	70-130			
1,1,1-Trichloroethane	24.3		ug/L	25.0		97	70-130			
1,1,2,2-Tetrachloroethane	24.6		ug/L	25.0		98	70-130			
1,1,2-Trichloroethane	24.7		ug/L	25.0		99	70-130			
1,1-Dichloroethane	24.7		ug/L	25.0		99	70-130			
1,1-Dichloroethene	25.2		ug/L	25.0		101	70-130			
1,1-Dichloropropene	23.8		ug/L	25.0		95	70-130			
1,2,3-Trichlorobenzene	26.8		ug/L	25.0		107	70-130			
1,2,3-Trichloropropane	23.6		ug/L	25.0		94	70-130			
1,2,4-Trichlorobenzene	25.3		ug/L	25.0		101	70-130			
1,2,4-Trimethylbenzene	25.6		ug/L	25.0		102	70-130			
1,2-Dibromo-3-Chloropropane	24.8		ug/L	25.0		99	70-130			
1,2-Dibromoethane	23.0		ug/L	25.0		92	70-130			
1,2-Dichlorobenzene	25.4		ug/L	25.0		102	70-130			
1,2-Dichloroethane	21.3		ug/L	25.0		85	70-130			
1,2-Dichloropropane	24.7		ug/L	25.0		99	70-130			
1,3,5-Trimethylbenzene	25.0		ug/L	25.0		100	70-130			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62806 -5035										
1,3-Dichlorobenzene	24.6		ug/L	25.0		98	70-130			
1,3-Dichloropropane	26.0		ug/L	25.0		104	70-130			
1,4-Dichlorobenzene	24.6		ug/L	25.0		98	70-130			
1,4-Dioxane - Screen	562		ug/L	500		112	70-130			
1-Chlorohexane	24.5		ug/L	25.0		98	70-130			
2,2-Dichloropropane	24.3		ug/L	25.0		97	70-130			
2-Butanone	112		ug/L	125		90	70-130			
2-Chlorotoluene	24.5		ug/L	25.0		98	70-130			
2-Hexanone	120		ug/L	125		96	70-130			
4-Chlorotoluene	24.5		ug/L	25.0		98	70-130			
4-Isopropyltoluene	25.0		ug/L	25.0		100	70-130			
4-Methyl-2-Pentanone	120		ug/L	125		96	70-130			
Acetone	118		ug/L	125		94	70-130			
Benzene	23.8		ug/L	25.0		95	70-130			
Bromobenzene	26.3		ug/L	25.0		105	70-130			
Bromochloromethane	23.0		ug/L	25.0		92	70-130			
Bromodichloromethane	26.2		ug/L	25.0		105	70-130			
Bromoform	23.4		ug/L	25.0		94	70-130			
Bromomethane	22.3		ug/L	25.0		89	70-130			
Carbon Disulfide	24.8		ug/L	25.0		99	70-130			
Carbon Tetrachloride	22.8		ug/L	25.0		91	70-130			
Chlorobenzene	25.1		ug/L	25.0		100	70-130			
Chloroethane	23.5		ug/L	25.0		94	70-130			
Chloroform	24.0		ug/L	25.0		96	70-130			
Chloromethane	23.1		ug/L	25.0		92	70-130			
cis-1,2-Dichloroethene	25.9		ug/L	25.0		104	70-130			
cis-1,3-Dichloropropene	23.1		ug/L	25.0		92	70-130			
Dibromochloromethane	23.8		ug/L	25.0		95	70-130			
Dibromomethane	24.2		ug/L	25.0		97	70-130			
Dichlorodifluoromethane	23.8		ug/L	25.0		95	70-130			
Diethyl Ether	24.2		ug/L	25.0		97	70-130			
Di-isopropyl ether	23.9		ug/L	25.0		96	70-130			
Ethyl tertiary-butyl ether	23.5		ug/L	25.0		94	70-130			
Ethylbenzene	25.7		ug/L	25.0		103	70-130			
Hexachlorobutadiene	25.9		ug/L	25.0		104	70-130			
Isopropylbenzene	23.7		ug/L	25.0		95	70-130			
Methyl tert-Butyl Ether	24.1		ug/L	25.0		96	70-130			
Methylene Chloride	25.1		ug/L	25.0		100	70-130			
Naphthalene	25.9		ug/L	25.0		104	70-130			
n-Butylbenzene	24.5		ug/L	25.0		98	70-130			
n-Propylbenzene	25.3		ug/L	25.0		101	70-130			
sec-Butylbenzene	25.2		ug/L	25.0		101	70-130			
Styrene	25.8		ug/L	25.0		103	70-130			
tert-Butylbenzene	25.6		ug/L	25.0		102	70-130			
Tertiary-amyl methyl ether	25.0		ug/L	25.0		100	70-130			
Tetrachloroethene	23.6		ug/L	25.0		94	70-130			
Tetrahydrofuran	22.1		ug/L	25.0		88	70-130			

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62806 - 5035										
Toluene	25.1		ug/L	25.0		100	70-130			
trans-1,2-Dichloroethene	25.4		ug/L	25.0		102	70-130			
trans-1,3-Dichloropropene	21.0		ug/L	25.0		84	70-130			
Trichloroethene	24.0		ug/L	25.0		96	70-130			
Trichlorofluoromethane	22.5		ug/L	25.0		90	70-130			
Vinyl Acetate	21.4		ug/L	25.0		86	70-130			
Vinyl Chloride	24.4		ug/L	25.0		98	70-130			
Xylene O	25.6		ug/L	25.0		102	70-130			
Xylene P,M	50.8		ug/L	50.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	*2390*		ug/Kg wet	*2500*		*96*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2420*		ug/Kg wet	*2500*		*97*	*70-130*			
Surrogate: Dibromofluoromethane	*2400*		ug/Kg wet	*2500*		*96*	*70-130*			
Surrogate: Toluene-d8	*2510*		ug/Kg wet	*2500*		*100*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	24.4		ug/L	25.0		98	70-130	5	20	
1,1,1-Trichloroethane	26.0		ug/L	25.0		104	70-130	7	20	
1,1,2,2-Tetrachloroethane	26.0		ug/L	25.0		104	70-130	6	20	
1,1,2-Trichloroethane	26.2		ug/L	25.0		105	70-130	6	20	
1,1-Dichloroethane	26.3		ug/L	25.0		105	70-130	6	20	
1,1-Dichloroethene	27.2		ug/L	25.0		109	70-130	8	20	
1,1-Dichloropropene	25.9		ug/L	25.0		104	70-130	9	20	
1,2,3-Trichlorobenzene	27.7		ug/L	25.0		111	70-130	4	20	
1,2,3-Trichloropropane	25.5		ug/L	25.0		102	70-130	8	20	
1,2,4-Trichlorobenzene	26.7		ug/L	25.0		107	70-130	6	20	
1,2,4-Trimethylbenzene	27.6		ug/L	25.0		110	70-130	8	20	
1,2-Dibromo-3-Chloropropane	25.9		ug/L	25.0		104	70-130	5	20	
1,2-Dibromoethane	24.2		ug/L	25.0		97	70-130	5	20	
1,2-Dichlorobenzene	26.4		ug/L	25.0		106	70-130	4	20	
1,2-Dichloroethane	22.9		ug/L	25.0		92	70-130	8	20	
1,2-Dichloropropane	26.2		ug/L	25.0		105	70-130	6	20	
1,3,5-Trimethylbenzene	27.3		ug/L	25.0		109	70-130	9	20	
1,3-Dichlorobenzene	26.4		ug/L	25.0		106	70-130	8	20	
1,3-Dichloropropane	27.3		ug/L	25.0		109	70-130	5	20	
1,4-Dichlorobenzene	25.8		ug/L	25.0		103	70-130	5	20	
1,4-Dioxane - Screen	661		ug/L	500		132	70-130	16	20	+
1-Chlorohexane	26.4		ug/L	25.0		106	70-130	8	20	
2,2-Dichloropropane	25.6		ug/L	25.0		102	70-130	5	20	
2-Butanone	116		ug/L	125		93	70-130	3	20	
2-Chlorotoluene	27.4		ug/L	25.0		110	70-130	12	20	
2-Hexanone	125		ug/L	125		100	70-130	4	20	
4-Chlorotoluene	26.2		ug/L	25.0		105	70-130	7	20	
4-Isopropyltoluene	26.8		ug/L	25.0		107	70-130	7	20	
4-Methyl-2-Pentanone	127		ug/L	125		102	70-130	6	20	
Acetone	122		ug/L	125		98	70-130	4	20	
Benzene	24.6		ug/L	25.0		98	70-130	3	20	
Bromobenzene	27.9		ug/L	25.0		112	70-130	6	20	
Bromochloromethane	24.3		ug/L	25.0		97	70-130	5	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62806 - 5035										
Bromodichloromethane	27.5		ug/L	25.0		110	70-130	5	20	
Bromoform	24.6		ug/L	25.0		98	70-130	4	20	
Bromomethane	24.9		ug/L	25.0		100	70-130	12	20	
Carbon Disulfide	26.5		ug/L	25.0		106	70-130	7	20	
Carbon Tetrachloride	24.9		ug/L	25.0		100	70-130	9	20	
Chlorobenzene	26.7		ug/L	25.0		107	70-130	7	20	
Chloroethane	24.8		ug/L	25.0		99	70-130	5	20	
Chloroform	25.5		ug/L	25.0		102	70-130	6	20	
Chloromethane	23.8		ug/L	25.0		95	70-130	3	20	
cis-1,2-Dichloroethene	27.2		ug/L	25.0		109	70-130	5	20	
cis-1,3-Dichloropropene	24.4		ug/L	25.0		98	70-130	6	20	
Dibromochloromethane	24.7		ug/L	25.0		99	70-130	4	20	
Dibromomethane	25.4		ug/L	25.0		102	70-130	5	20	
Dichlorodifluoromethane	25.7		ug/L	25.0		103	70-130	8	20	
Diethyl Ether	25.7		ug/L	25.0		103	70-130	6	20	
Di-isopropyl ether	25.6		ug/L	25.0		102	70-130	6	20	
Ethyl tertiary-butyl ether	25.0		ug/L	25.0		100	70-130	6	20	
Ethylbenzene	27.0		ug/L	25.0		108	70-130	5	20	
Hexachlorobutadiene	28.7		ug/L	25.0		115	70-130	10	20	
Isopropylbenzene	25.4		ug/L	25.0		102	70-130	7	20	
Methyl tert-Butyl Ether	25.6		ug/L	25.0		102	70-130	6	20	
Methylene Chloride	26.3		ug/L	25.0		105	70-130	5	20	
Naphthalene	27.6		ug/L	25.0		110	70-130	6	20	
n-Butylbenzene	26.7		ug/L	25.0		107	70-130	9	20	
n-Propylbenzene	26.9		ug/L	25.0		108	70-130	7	20	
sec-Butylbenzene	27.1		ug/L	25.0		108	70-130	7	20	
Styrene	26.9		ug/L	25.0		108	70-130	5	20	
tert-Butylbenzene	27.2		ug/L	25.0		109	70-130	7	20	
Tertiary-amyl methyl ether	26.5		ug/L	25.0		106	70-130	6	20	
Tetrachloroethene	25.2		ug/L	25.0		101	70-130	7	20	
Tetrahydrofuran	22.6		ug/L	25.0		90	70-130	2	20	
Toluene	26.5		ug/L	25.0		106	70-130	6	20	
trans-1,2-Dichloroethene	27.0		ug/L	25.0		108	70-130	6	20	
trans-1,3-Dichloropropene	21.9		ug/L	25.0		88	70-130	5	20	
Trichloroethene	25.7		ug/L	25.0		103	70-130	7	20	
Trichlorofluoromethane	24.2		ug/L	25.0		97	70-130	7	20	
Vinyl Acetate	22.7		ug/L	25.0		91	70-130	6	20	
Vinyl Chloride	25.9		ug/L	25.0		104	70-130	6	20	
Xylene O	27.3		ug/L	25.0		109	70-130	7	20	
Xylene P,M	53.2		ug/L	50.0		106	70-130	4	20	
Surrogate: 1,2-Dichloroethane-d4	*2380*		ug/Kg wet	*2500*		*95*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2500*		ug/Kg wet	*2500*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*2530*		ug/Kg wet	*2500*		*101*	*70-130*			
Surrogate: Toluene-d8	*2630*		ug/Kg wet	*2500*		*105*	*70-130*			
8081A Organochlorine Pesticides										
Batch BF62729 - 3541										

Volatile Organics Calibration Data

ANALYSIS SEQUENCE

BPF0223

Instrument: VMS1

Calibnration ID: 0606001

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0223-TUN1	QC		1		6F27054		
BPF0223-CAL1	QC		2		6F27055	6F22057	
BPF0223-CAL2	QC		3		6F27056	6F22057	
BPF0223-CAL3	QC		4		6F27057	6F22057	
BPF0223-CAL4	QC		5		6F27058	6F22057	
BPF0223-CAL5	QC		6		6F27059	6F22057	
BPF0223-CAL6	QC		7		6F27060	6F22057	
BPF0223-SCV1	QC		8		6F27061	6F22057	

Samples Loaded By Date Data Processed By Date

ESS LABORATORY MS-1 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/26/06	06	M1 04/035	0606348-02	AA061606		
↓	07	M1 36	BF62612-MS1	↓	from 0606348-02 40µl/100ml 6F12081	RS
6/26/06	08	M1 37	BF62612-MS1	AA061606	0606348-02 40µl/100ml 6F12081	↓
6/29/06	1	M1 38	BPF0223 -Tune	HF053106	6F12081	RS
	2	M1 39	-CAL1		6F27054	KS
	3	M1 40	-CAL2		055	
	4	M1 41	-CAL3		056	
	5	M1 42	-CAL4		057	
	6	M1 43	-CAL5		058	
	7	M1 44	BPF0223 -CAL6	↓	6F27 059	
↓	8	M1 45	TB	HB053106	6F27 060	
6/27/06	9	M1 46	BPF0223 -SCV1	HB062706		↓
6/28/06	1	M1 47	BPF0228 -Tune	↓	6F27061	KS
6/28/06	2	M1 48	BPF0228 -CCV1	HB062706	6F28037	↓
					6F28038	VM

Run Sequence Confirmation _______ KS 6/29/06

Surrogate: 6F22055 / 6E19052 5:1

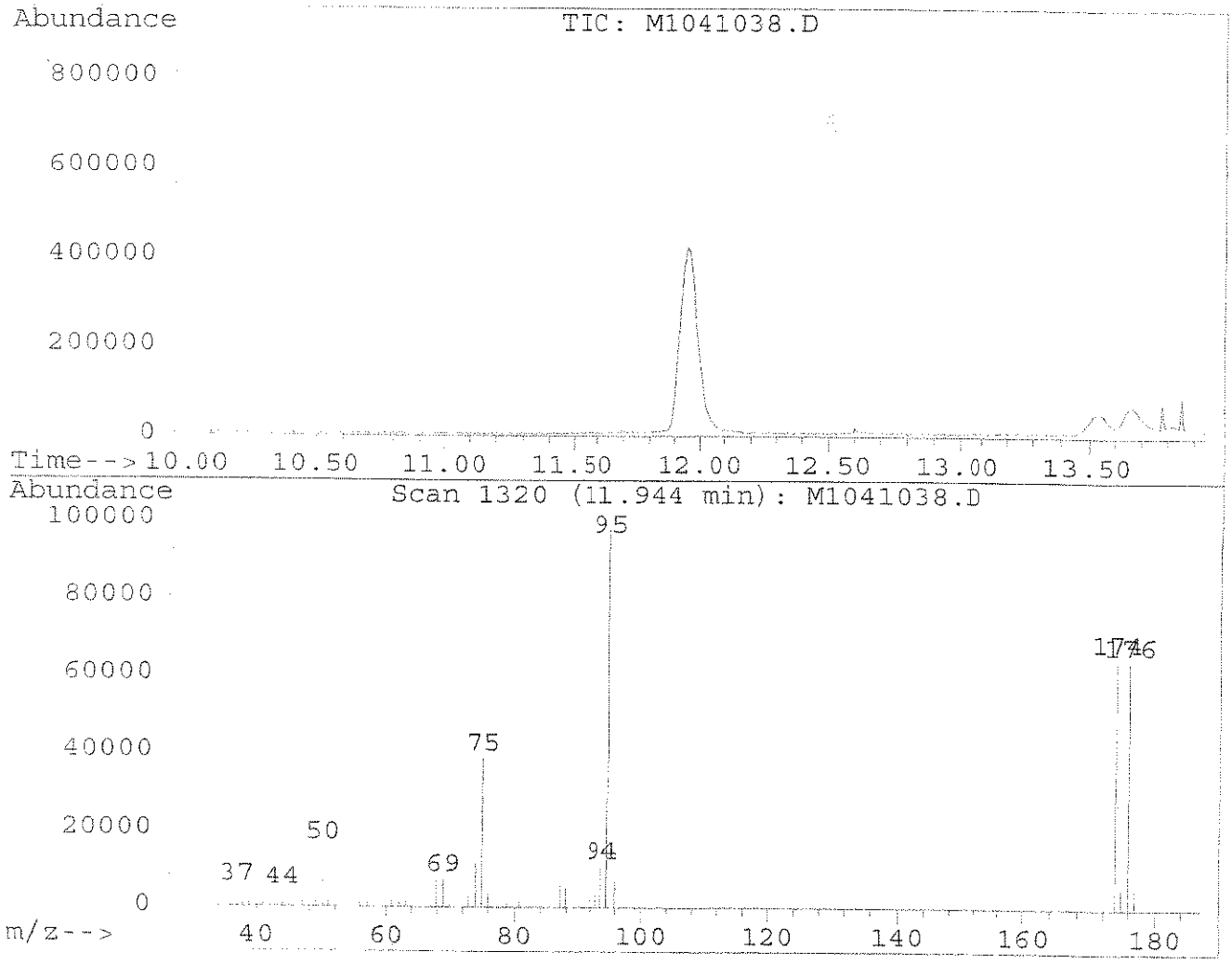
On-column IS: 6F22057 / 6J27048

Control Number 20.0001-0601A

BFB

Data File : Q:\VOA\MS1_MA\MA0606\MA062706\M1041038.D Vial: 1
Acq On : 27 Jun 106 3:26 pm Operator: RES
Sample : BPF0223-TUN1 Inst : VOA MASS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI053106.M
Title : Element ID: 0606001



Peak Apex is scan: 1320

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.8	15420	PASS
75	95	30	60	39.4	38408	PASS
95	95	100	100	100.0	97568	PASS
96	95	5	9	7.0	6797	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	66.2	64576	PASS
175	174	5	9	8.1	5235	PASS
176	174	95	101	98.9	63880	PASS
177	176	5	9	7.6	4878	PASS

M1041038.D HI053106.M Wed Jun 28 06:08:34 2006

Response Factor Report VOA MASS

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:25:32 2006
Response via : Initial Calibration

Calibration Files
25 =M1041039.D 10 =M1041040.D 2.5 =M1041041.D
.5 =M1041042.D = 50 =M1041043.D

		Compound	25	10	2.5	.5	5	~~50~~ 100	Avg	%RSD
								6/28/06		
1)	I	Fluorobenzene	ISTD							
2)		Dichlorodifluoromet	0.478	0.460	0.390	0.340	0.481	0.445	0.432	12.99
3)		Chloromethane	0.283	0.287	0.265	0.302	0.275	0.247	0.277	6.89
4)		Vinyl Chloride	0.263	0.255	0.224	0.179	0.267	0.238	0.238	13.94
5)		Bromomethane	0.220	0.222	0.206	0.254	0.240	0.225	0.228	7.35
6)		Chloroethane	0.098	0.094	0.092	0.049	0.099	0.088	0.087	21.74
7)		Trichlorofluorometh	0.508	0.497	0.460	0.403	0.519	0.479	0.478	8.88
8)		Diethyl ether	0.148	0.146	0.141	0.117	0.150	0.135	0.140	8.69
9)		Acrolein	0.018	0.022	0.032		0.021	0.019	0.022	24.51
10)		1,1,2-Trichloro-1,2	0.488	0.476	0.421	0.355	0.485	0.438	0.444	11.51
11)		Acetone	0.008	0.011	0.019	0.008	0.007	0.438	0.011	47.84
12)		Iodomethane	0.641	0.688	0.582	0.692	0.606	0.438	0.642	7.63
13)		Carbon Disulfide	0.688	0.668	0.571	0.498	0.696	0.632	0.626	12.37
14)	M	1,1-Dichloroethene	0.247	0.241	0.211	0.155	0.246	0.220	0.220	15.94
15)		Allyl Chloride	0.398	0.382	0.339	0.338	0.400	0.355	0.369	7.67
16)		Methyl Acetate	0.098	0.105	0.124	0.101	0.090	0.355	0.104	12.42
17)		Methylene Chloride	0.273	0.262	0.249	0.212	0.270	0.246	0.252	8.82
18)		Methyl tert-Butyl E	0.470	0.461	0.425	0.399	0.480	0.431	0.444	7.04
19)		Acrylonitrile	0.037	0.035	0.031	0.037	0.034	0.431	0.035	7.22
20)		trans-1,2-Dichloroe	0.278	0.271	0.243	0.199	0.280	0.256	0.254	12.11
21)		1,1-Dichloroethane	0.441	0.433	0.383	0.335	0.447	0.405	0.407	10.57
22)		Vinyl Acetate	0.813	0.794	0.710	0.684	0.829	0.737	0.761	7.79
23)		Chloroprene	0.318	0.304	0.270	0.217	0.320	0.293	0.287	13.61
24)		Di-isopropyl ether	0.963	0.924	0.900	0.889	0.973	0.863	0.919	4.70
25)		Ethyl tertiary-buty	0.727	0.703	0.668	0.593	0.744	0.673	0.685	7.84
26)		2-Butanone	0.012	0.011	0.011	0.010	0.011	0.009	0.011	7.61
27)		cis-1,2 Dichloroeth	0.267	0.264	0.238	0.208	0.264	0.241	0.247	9.29
28)		2,2-Dichloropropane	0.380	0.372	0.358	0.376	0.359	0.328	0.362	5.22
29)		Methyl Acrylate	0.127	0.119	0.116	0.130	0.118	0.328	0.122	5.08
30)		Bromochloromethane	0.166	0.160	0.144	0.099	0.168	0.159	0.149	17.39
31)		Methacrylonitrile	0.077	0.079	0.082	0.080	0.070	0.159	0.077	5.83
32)		Tetrahydrofuran	0.030	0.030	0.039	0.028	0.032	0.027	0.031	13.92
33)		Chloroform	0.467	0.460	0.434	0.424	0.464	0.427	0.446	4.42
34)	S	Dibromofluoromethan	0.473	0.466	0.417	0.358	0.472	0.435	0.437	10.27
35)		1,1,1-Trichloroetha	0.434	0.415	0.363	0.311	0.436	0.398	0.393	12.27
36)		Cyclohexane	0.253	0.255	0.192	0.248	0.234	0.186	0.228	13.68
37)		1-Chlorobutane	0.496	0.427	0.467	0.568	0.535	0.428	0.487	11.77
38)		1,1-Dichloropropene	0.341	0.300	0.286	0.245	0.339	0.294	0.301	11.88
39)		Carbon Tetrachlorid	0.382	0.333	0.315	0.218	0.386	0.358	0.332	18.71
40)	M	Benzene	0.746	0.741	0.562	0.487	0.755	0.661	0.659	16.99
41)	S	1,2-Dichloroethane-	0.211	0.201	0.149	0.214	0.181	0.661	0.191	14.00
42)		1,2-Dichloroethane	0.234	0.237	0.216	0.251	0.241	0.212	0.232	6.48
43)		Tertiary-amyl methy	0.621	0.612	0.581	0.504	0.644	0.600	0.593	8.23

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report VOA MASS

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:25:32 2006
Response via : Initial Calibration

Calibration Files
25 =M1041039.D 10 =M1041040.D 2.5 =M1041041.D
.5 =M1041042.D = 50 =M1041043.D

		Compound	25	10	2.5	.5	50	Avg	%RSD
44)	M	Trichloroethene	0.347	0.338	0.317	0.281	0.355	0.334	0.329	8.04
45)		Methyl Cyclohexane	0.297	0.289	0.255	0.221	0.300	0.284	0.274	11.19
46)		1,2-Dichloropropane	0.289	0.274	0.255	0.203	0.296	0.271	0.265	12.63
47)		Dibromomethane	0.211	0.203	0.183	0.116	0.214	0.195	0.187	19.56
48)		Methyl Methacrylate	0.174	0.167	0.165	0.129	0.185	0.164	0.164	11.49
49)		1,4-Dioxane	0.001	0.003	0.004	0.020	0.001	0.001	0.005	144.69
50)		Bromodichloromethan	0.472	0.453	0.412	0.352	0.479	0.446	0.436	10.86
51)		2-Nitropropane	0.034	0.034	0.031	0.033	0.034	0.030	0.033	5.05
52)		2-Chloroethyl vinyl	0.122	0.117	0.105	0.076	0.127	0.113	0.110	16.48
53)		4-Methyl-2-Pentanon	0.067	0.065	0.060	0.053	0.070	0.062	0.063	9.59
54)		cis-1,3-Dichloropro	0.421	0.401	0.346	0.269	0.430	0.396	0.377	15.98
55)		Toluene	0.599	0.577	0.528	0.442	0.598	0.549	0.549	10.80
56)		trans-1,3-Dichlorop	0.327	0.309	0.256	0.195	0.337	0.313	0.290	18.70
57)		1,1,2-Trichloroetha	0.188	0.181	0.172	0.123	0.191	0.173	0.171	14.57
58)	I	Chlorobenzene-d5	----------	ISTD	----------					
59)	S	Toluene-d8 (SURR)	1.126	1.090	1.029	0.837	1.155	1.082	1.053	10.84
60)		2-Hexanone	0.127	0.121	0.127	0.123	0.133	0.123	0.126	3.50
61)		Ethyl Methacrylate	0.356	0.341	0.336	0.318	0.374	0.344	0.345	5.45
62)		1,3-Dichloropropane	0.416	0.406	0.370	0.277	0.439	0.407	0.386	15.02
63)		Tetrachloroethene	0.373	0.363	0.325	0.235	0.381	0.361	0.340	16.11
64)		Dibromochloromethan	0.429	0.405	0.363	0.268	0.466	0.446	0.396	18.20
65)		1,2-Dibromoethane	0.385	0.362	0.320	0.238	0.405	0.384	0.349	17.66
66)		1-Chlorohexane	0.432	0.427	0.383	0.400	0.439	0.413	0.416	5.09
67)	M	Chlorobenzene	0.911	0.878	0.811	0.644	0.934	0.879	0.843	12.56
68)		1,1,1,2-Tetrachloro	0.392	0.367	0.342	0.230	0.408	0.394	0.355	18.55
69)		Ethylbenzene	1.312	1.284	1.214	1.033	1.326	1.227	1.233	8.73
70)		Xylene P,M	0.562	0.555	0.517	0.425	0.570	0.533	0.527	10.18
71)		Xylene O	0.548	0.524	0.480	0.385	0.554	0.520	0.502	12.55
72)		Styrene	0.953	0.916	0.839	0.684	0.963	0.904	0.877	11.86
73)		Bromoform	0.244	0.225	0.183	0.060	0.268	0.259	0.207	37.69
74)		cis1,4-Dichloro-2-b	0.044	0.045	0.039	0.050	0.049	0.259	0.046	9.54
75)	S	Bromofluorobenzene	0.645	0.626	0.611	0.562	0.648	0.610	0.617	5.11
76)	I	1,4 Dichlorobenzene-D	----------	ISTD	----------					
77)		Isopropylbenzene	2.913	2.823	2.492	2.141	2.940	2.795	2.684	11.56
78)		Trans-1,4-Dichloro-	0.125	0.113	0.145	0.140	2.940	2.795	0.131	11.11
79)		1,2,3-Trichloroprop	0.583	0.554	0.612	0.366	0.611	0.588	0.552	16.95
80)		Bromobenzene	0.843	0.810	0.731	0.619	0.868	0.831	0.784	11.87
81)		1,1,2,2-Tetrachloro	0.694	0.679	0.642	0.591	0.720	0.674	0.667	6.74
82)		n-Propylbenzene	3.140	2.927	2.666	2.458	3.031	2.929	2.859	8.80
83)		2-Chlorotoluene	2.207	2.171	1.895	1.833	2.196	2.073	2.062	7.86
84)		4-Chlorotoluene	2.380	2.349	2.214	2.041	2.385	2.294	2.277	5.81
85)		1,3,5-Trimethylbenz	2.199	2.165	1.986	1.790	2.214	2.122	2.079	7.87

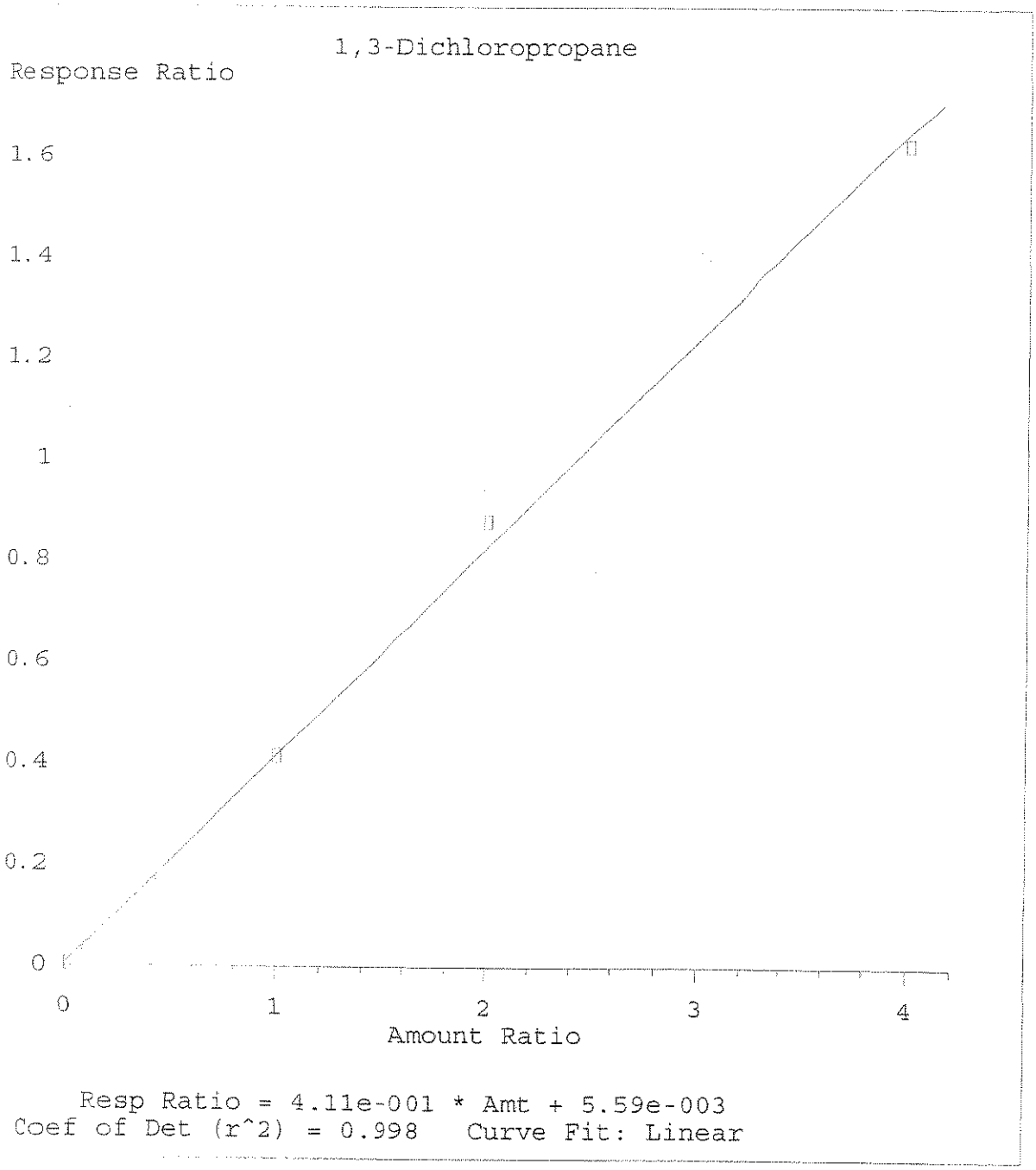
Response Factor Report VOA MASS

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:25:32 2006
Response via : Initial Calibration

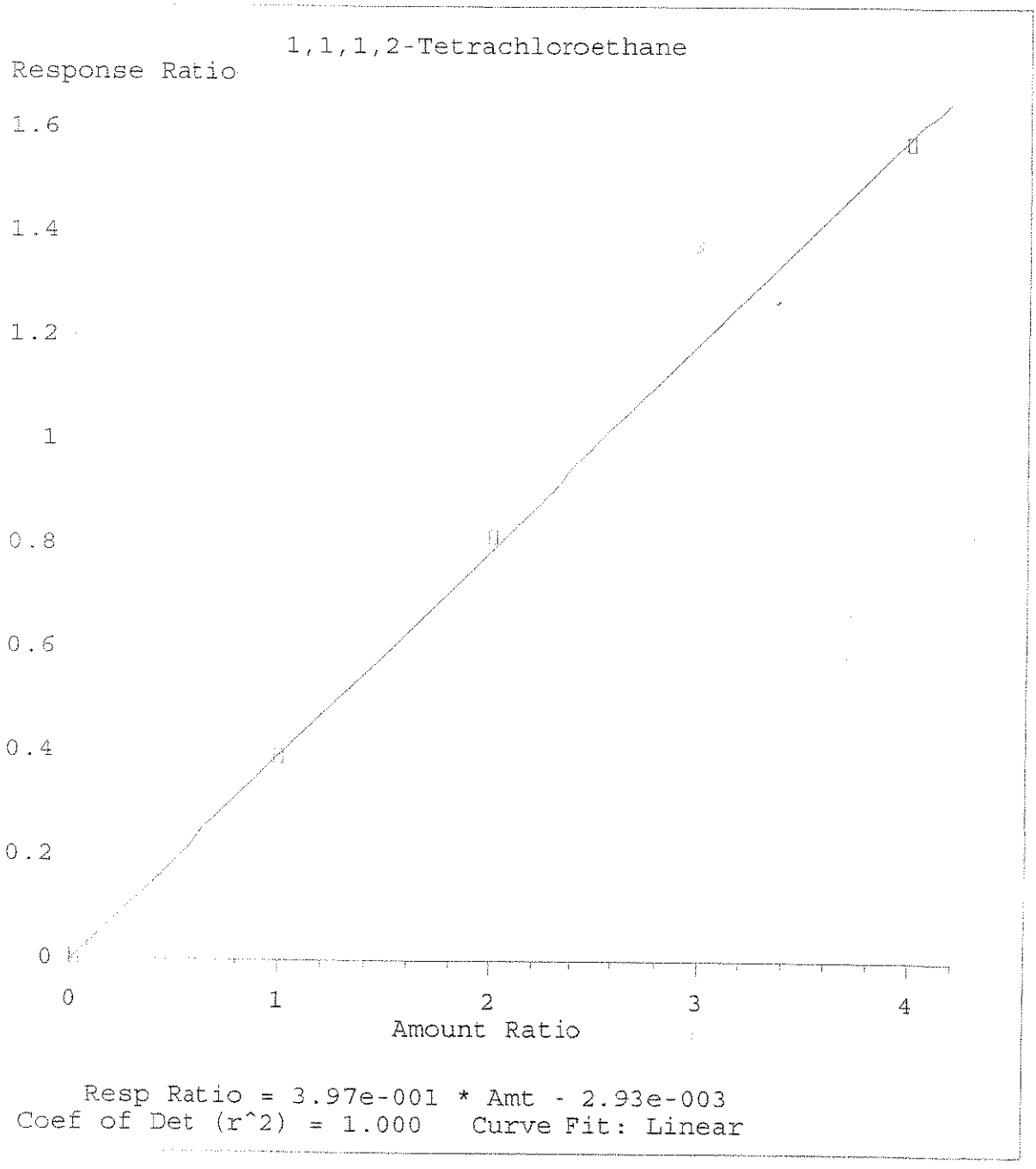
Calibration Files
25 =M1041039.D 10 =M1041040.D 2.5 =M1041041.D
.5 =M1041042.D = 50 =M1041043.D

	Compound	25	10	2.5	.5	50	100	Avg	%RSD
86)	tert-Butylbenzene	2.751	2.664	2.403	2.013	2.764	2.654	2.542	11.39
87)	Pentachloroethane	2.751	2.664	2.403	2.013	2.764	2.654	2.542	11.39
88)	1,2,4-Trimethylbenz	2.267	2.193	1.987	1.759	2.238	2.130	2.096	9.18
89)	sec-Butylbenzene	2.729	2.704	2.454	2.097	2.741	2.632	2.559	9.78
90)	1,3 Dichlorobenzene	1.434	1.367	1.257	1.073	1.470	1.389	1.332	10.97
91)	4-Isopropyltoluene	2.213	2.175	1.962	1.713	2.205	2.128	2.066	9.48
92)	1,4 Dichlorobenzene	1.539	1.483	1.354	1.187	1.552	1.495	1.435	9.77
93)	n-Butylbenzene	1.721	1.688	1.564	1.768	1.663	1.607	1.669	4.46
94)	1,2 Dichlorobenzene	1.239	1.215	1.094	0.890	1.267	1.215	1.153	12.29
95)	Hexachloroethane	0.464	0.433	0.371	0.498	0.504	1.215	0.454	11.98
96)	1,2-Dibromo-3-Chlor	0.092	0.097	0.082	0.094	0.094	1.215	0.092	6.41
97)	1,2,4-Trichlorobenz	0.583	0.646	0.538	0.598	0.551	0.598	0.586	6.55
98)	Hexachlorobutadiene	0.269	0.326	0.256	0.356	0.256	0.278	0.290	14.26
99)	Naphthalene	0.806	0.992	0.793	1.128	0.799	0.838	0.893	15.40
100)	1,2,3-Trichlorobenz	0.398	0.543	0.405	0.623	0.382	0.416	0.461	21.32

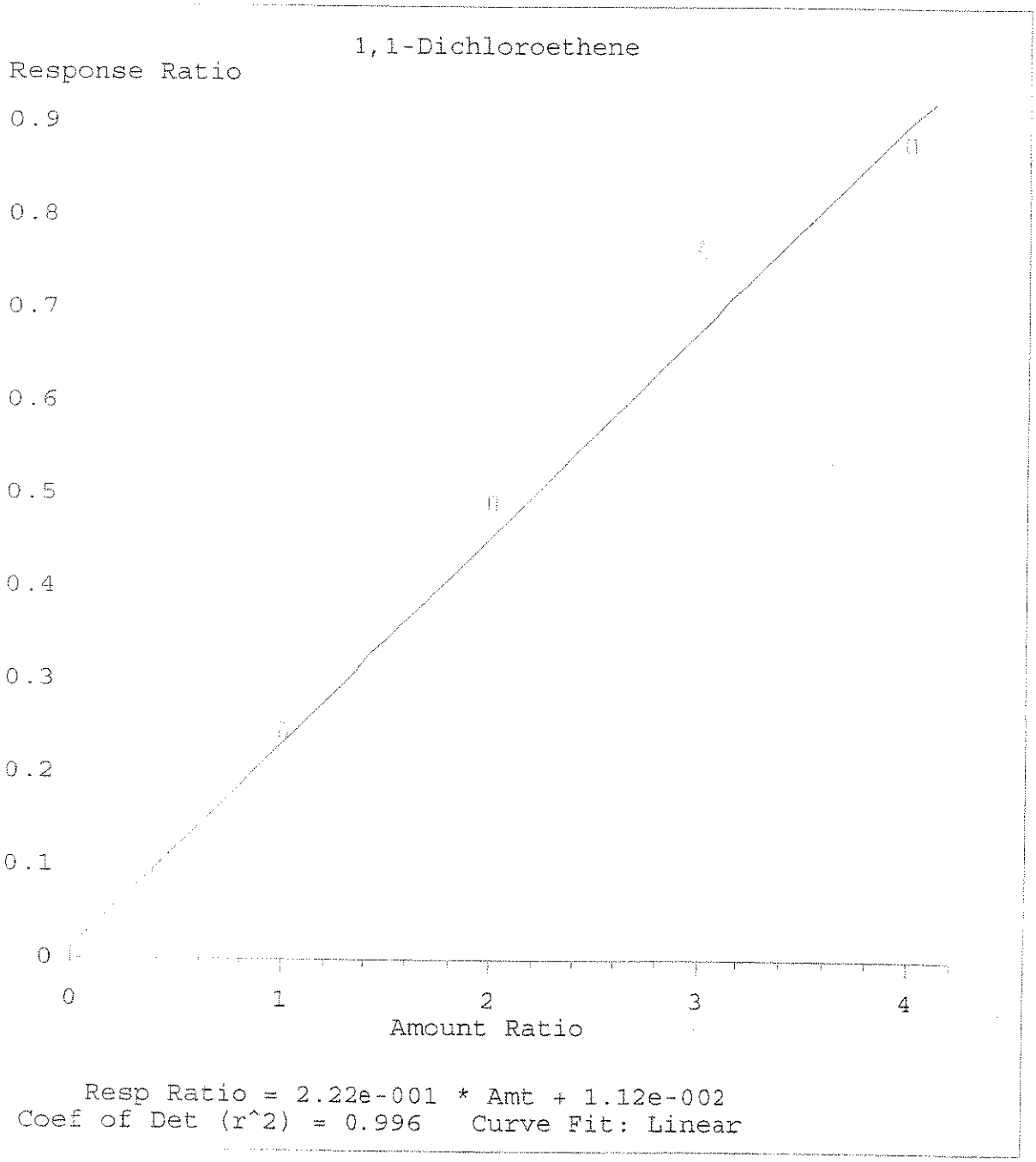
(#) = Out of Range ### Number of calibration levels exceeded format ###



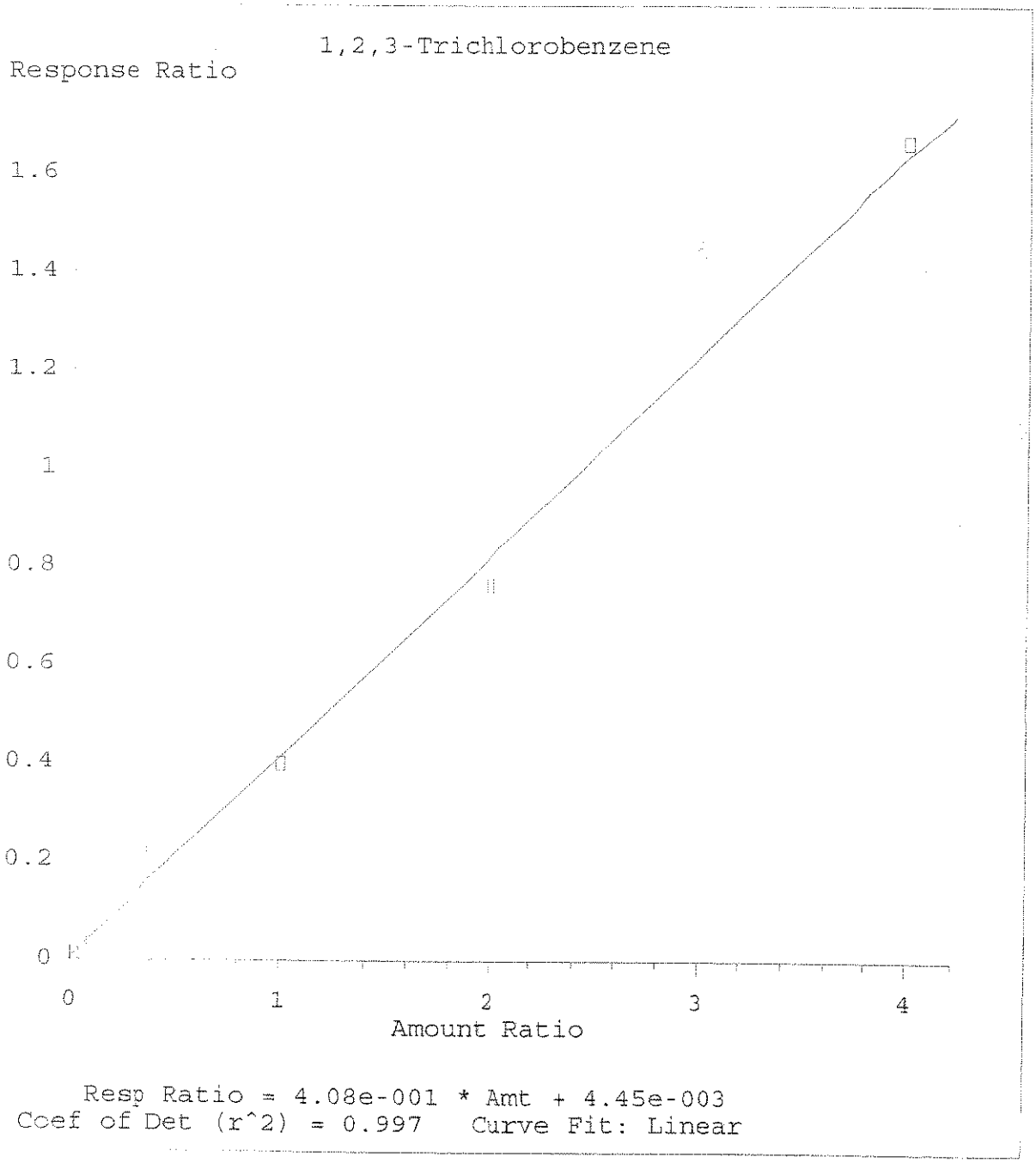
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:34:21 2006



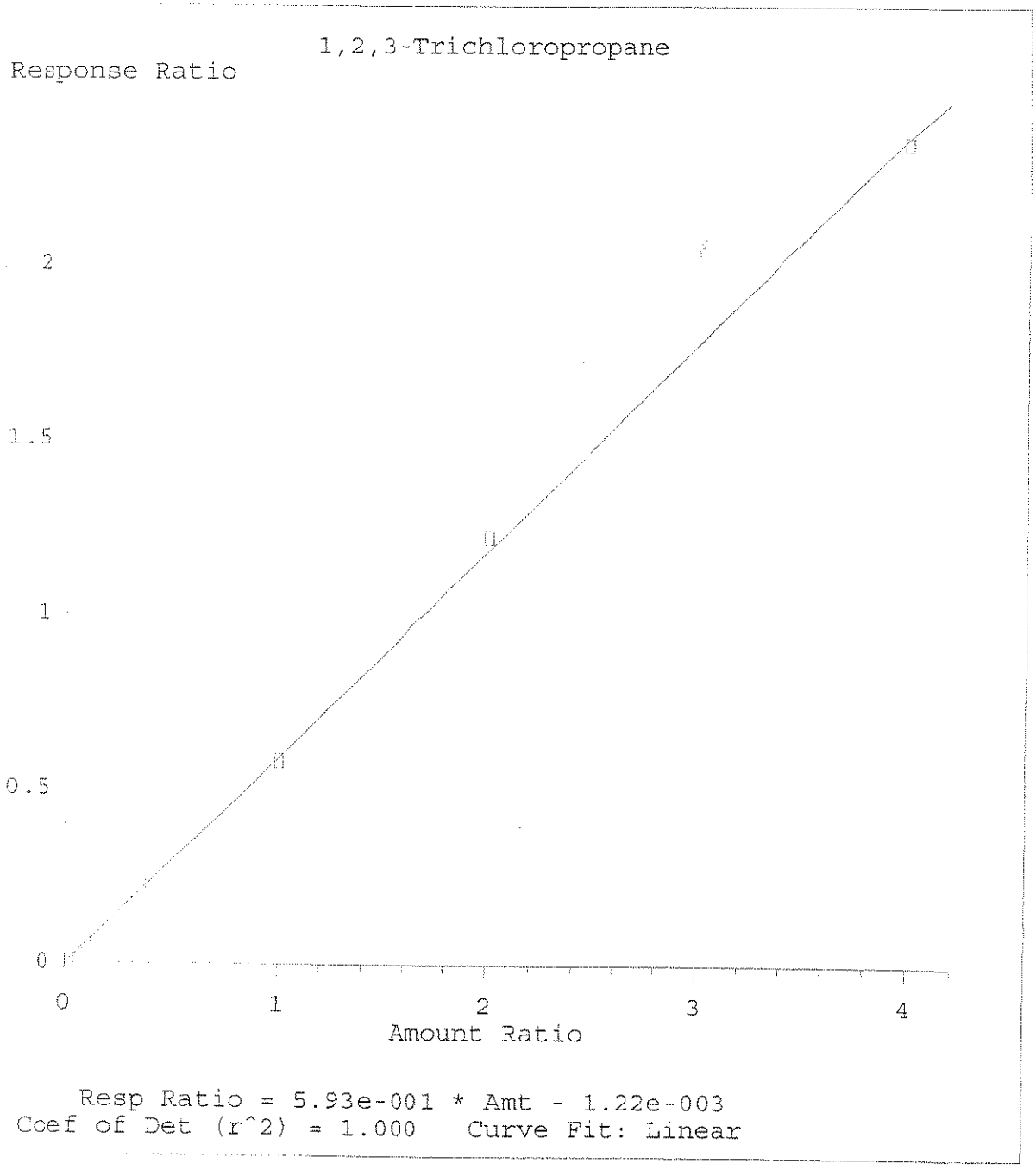
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:22:08 2006



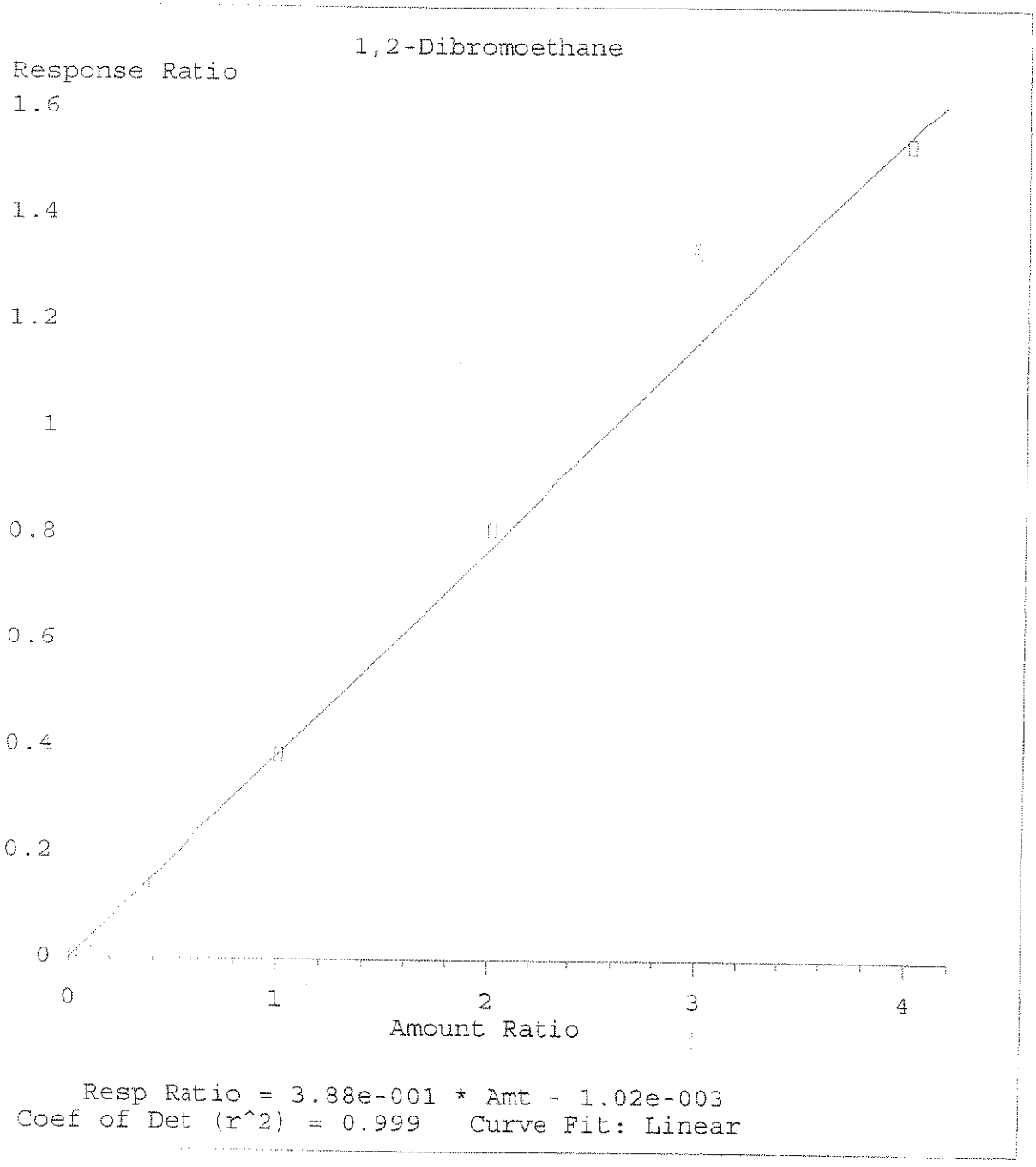
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 06:56:36 2006



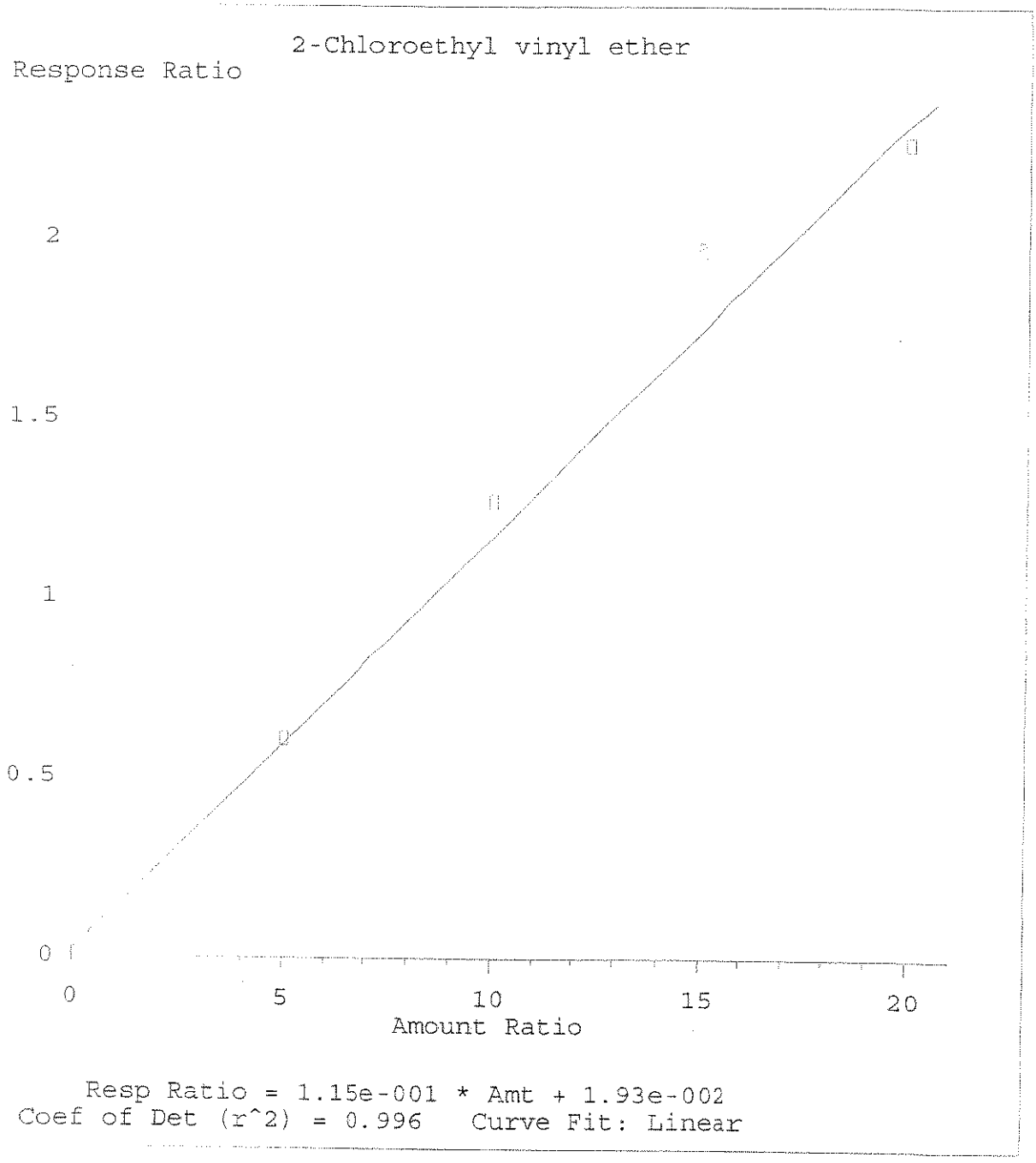
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:25:16 2006



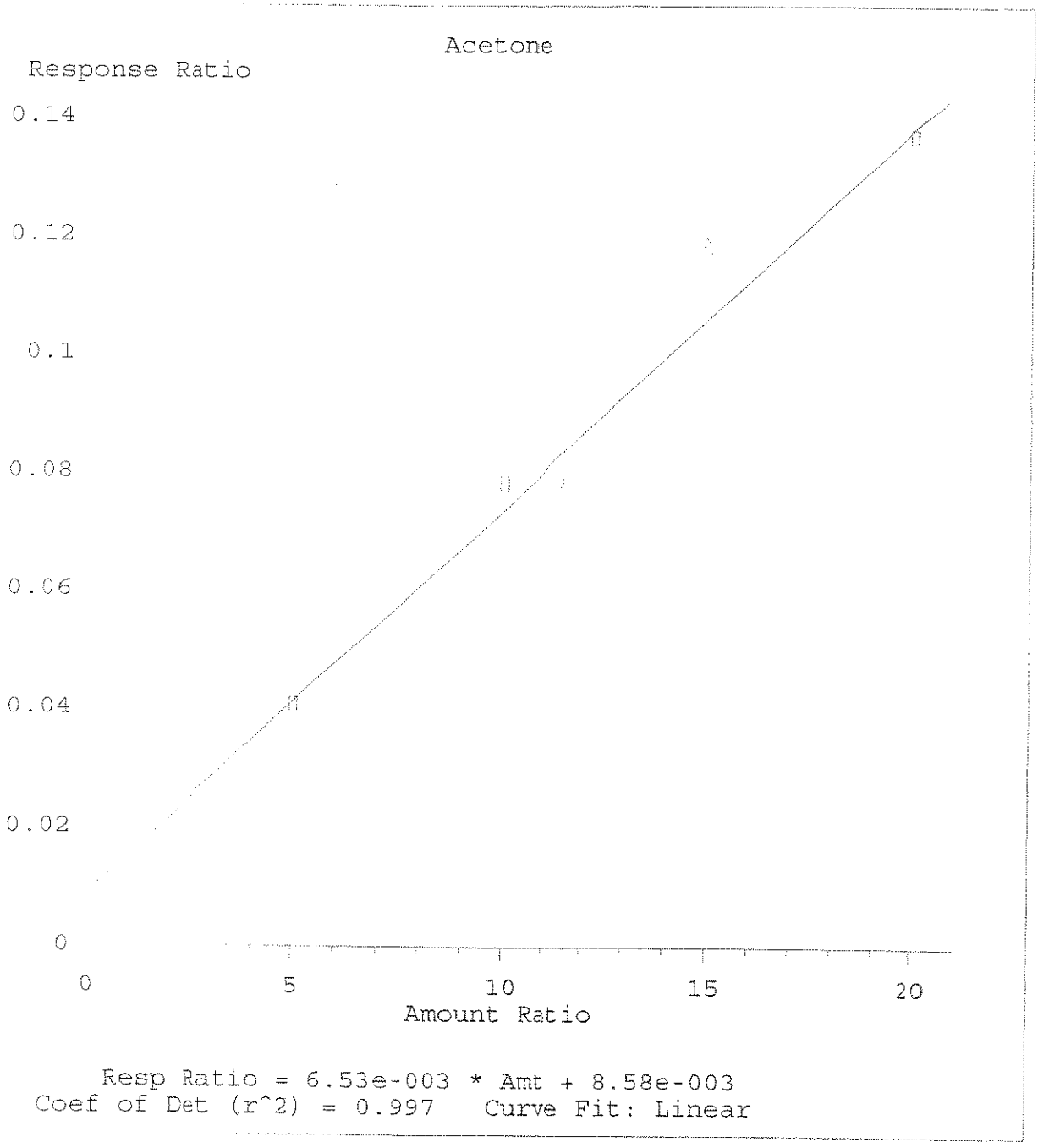
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:23:38 2006



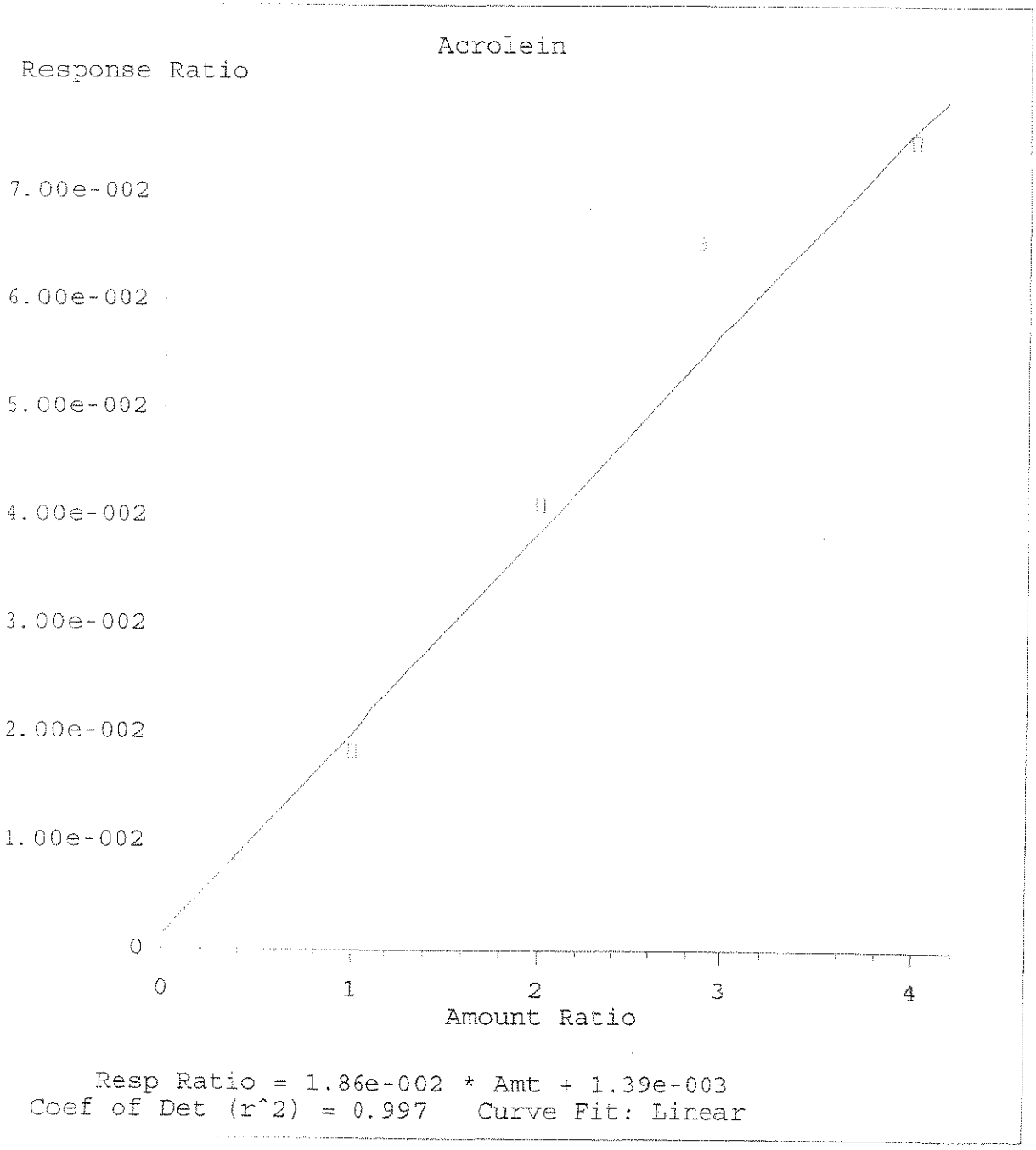
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:21:41 2006



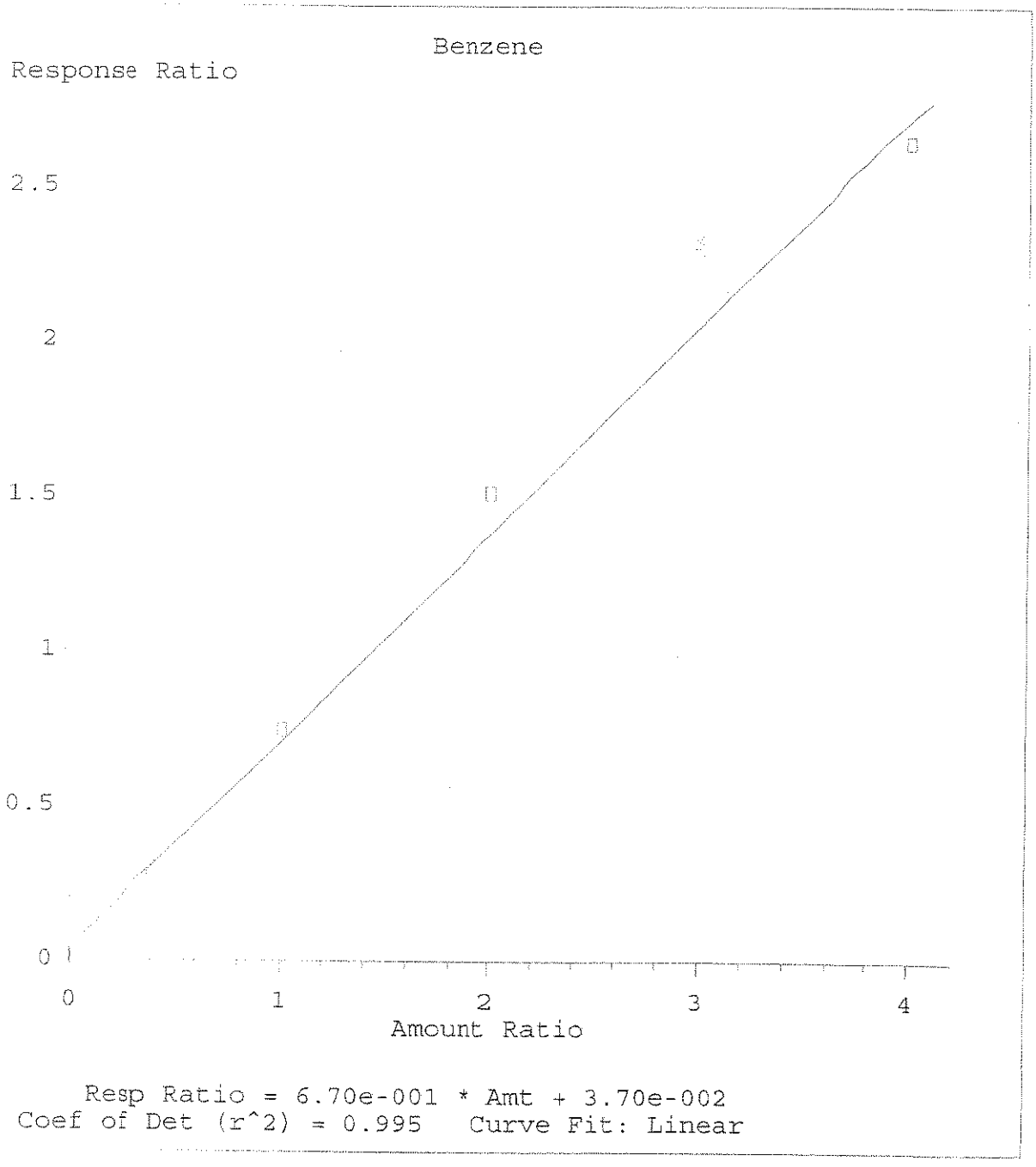
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:18:27 2006



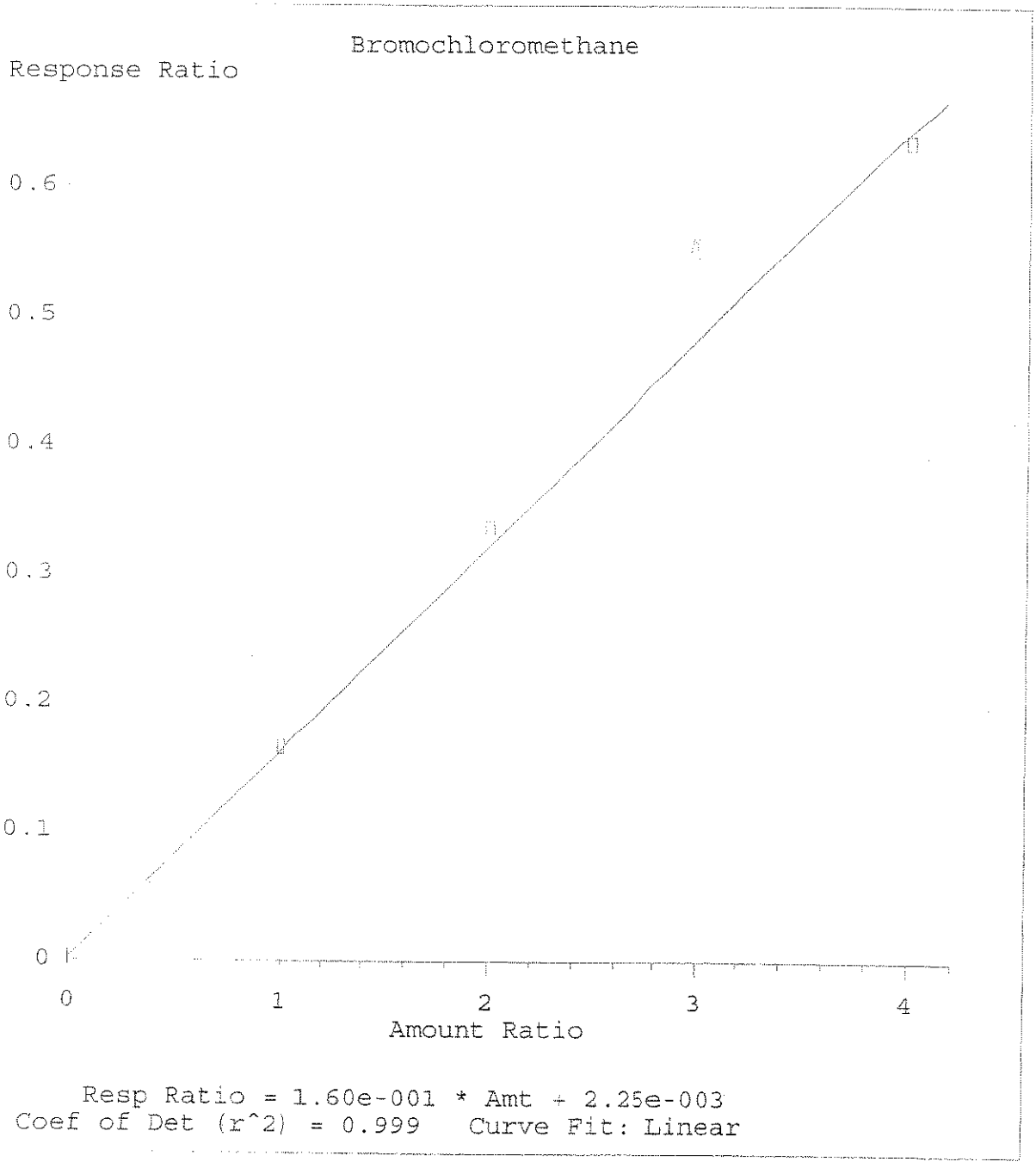
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 06:53:51 2006



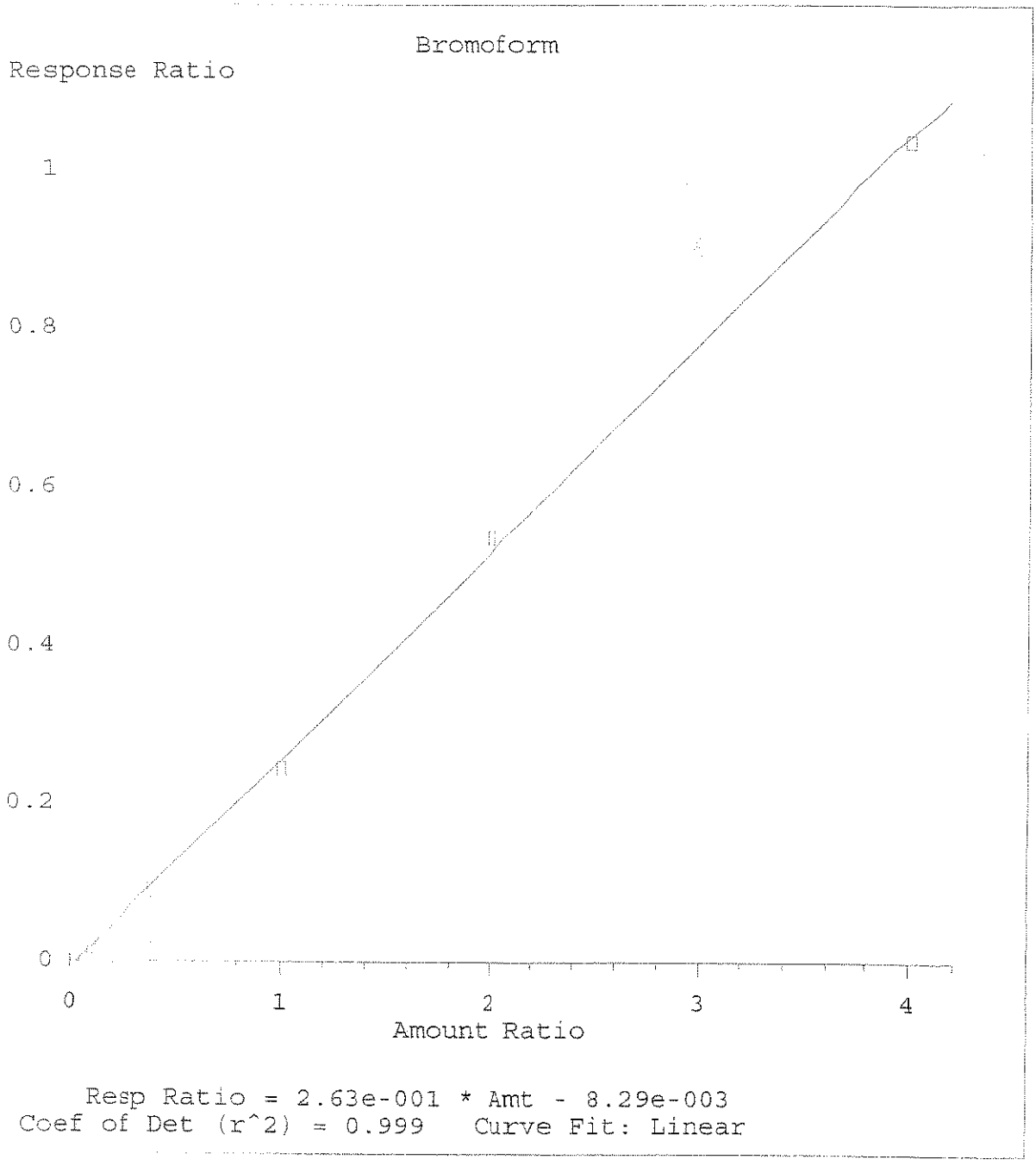
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 06:53:04 2006



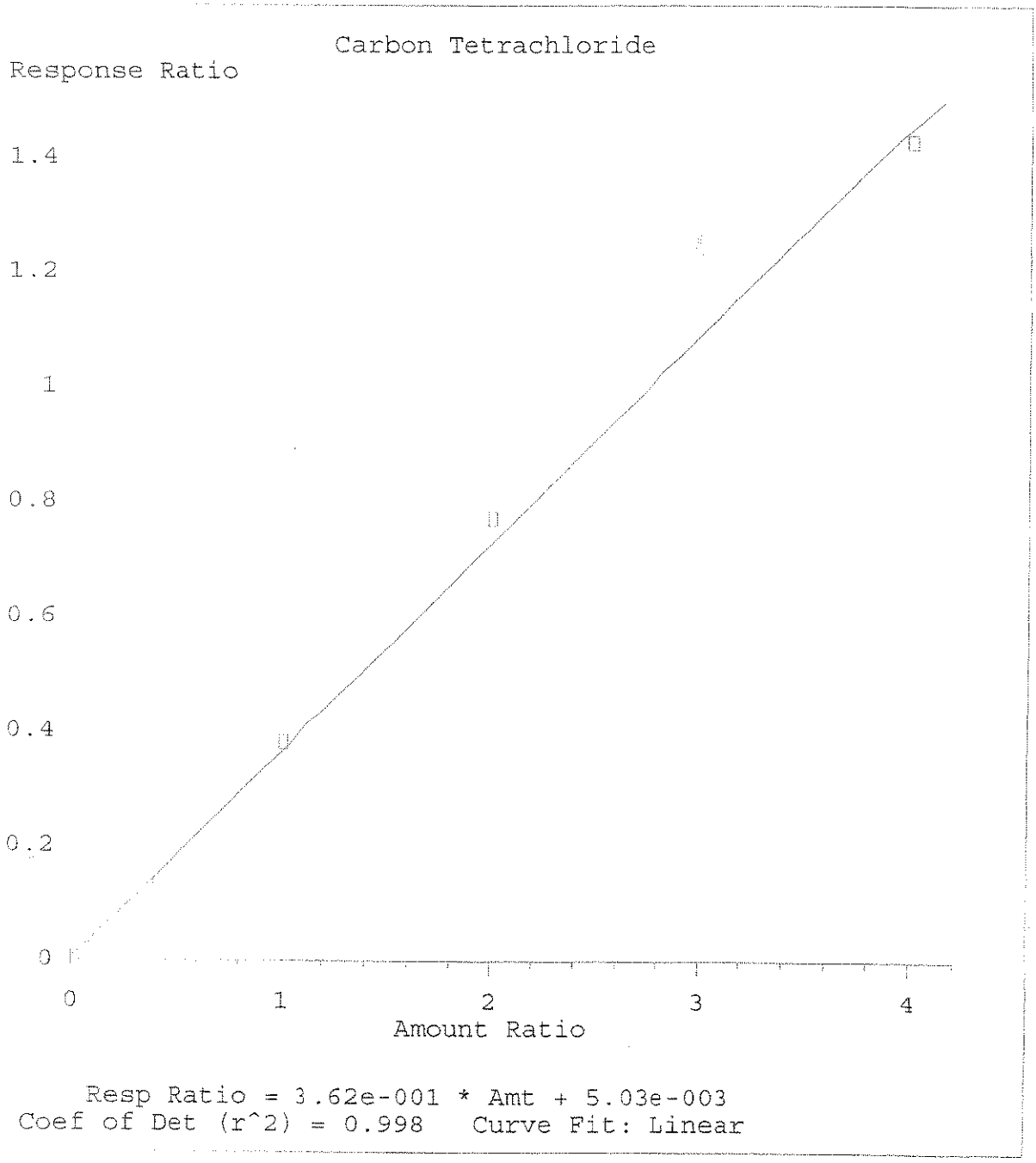
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:17:16 2006



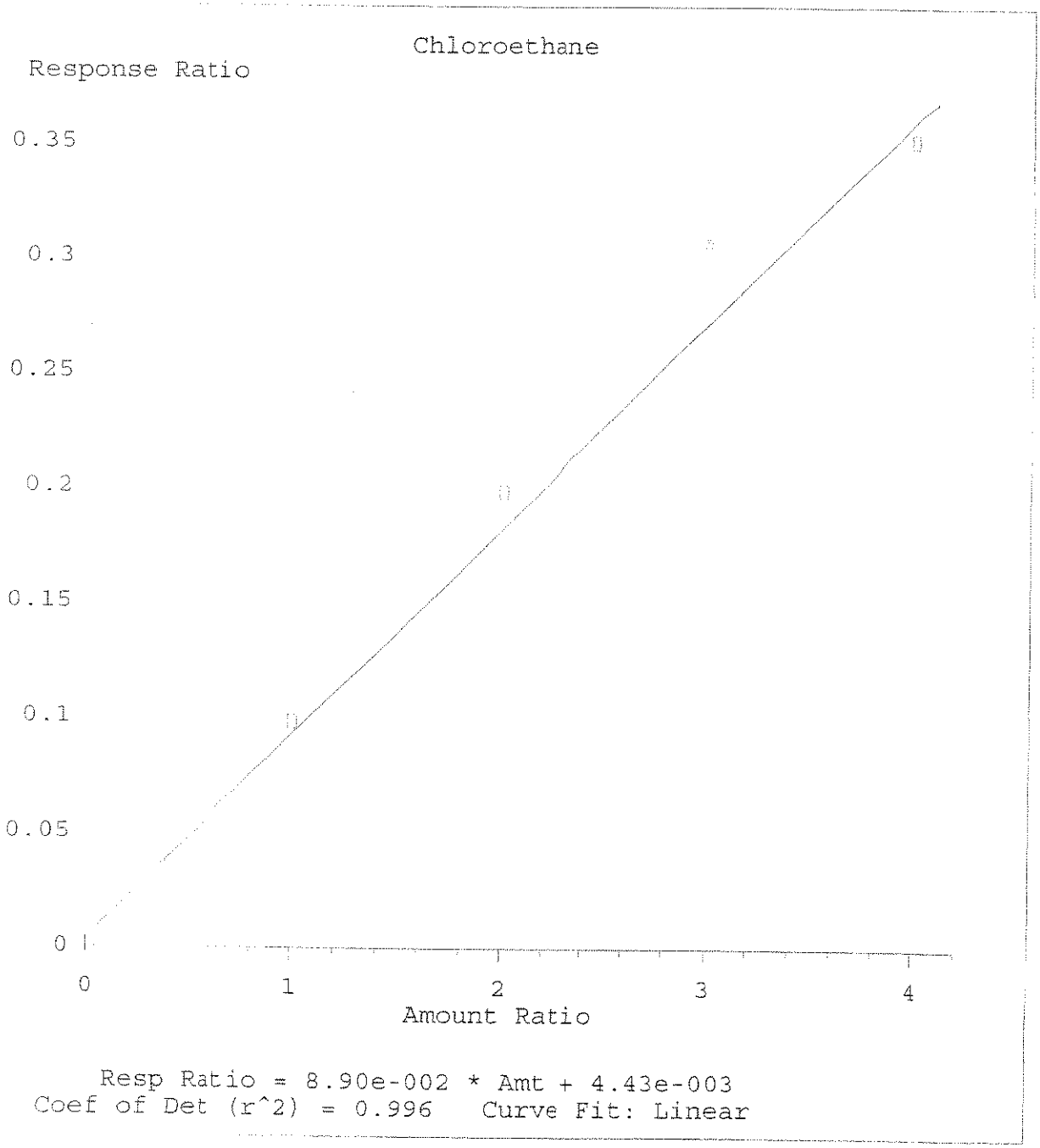
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 06:58:52 2006



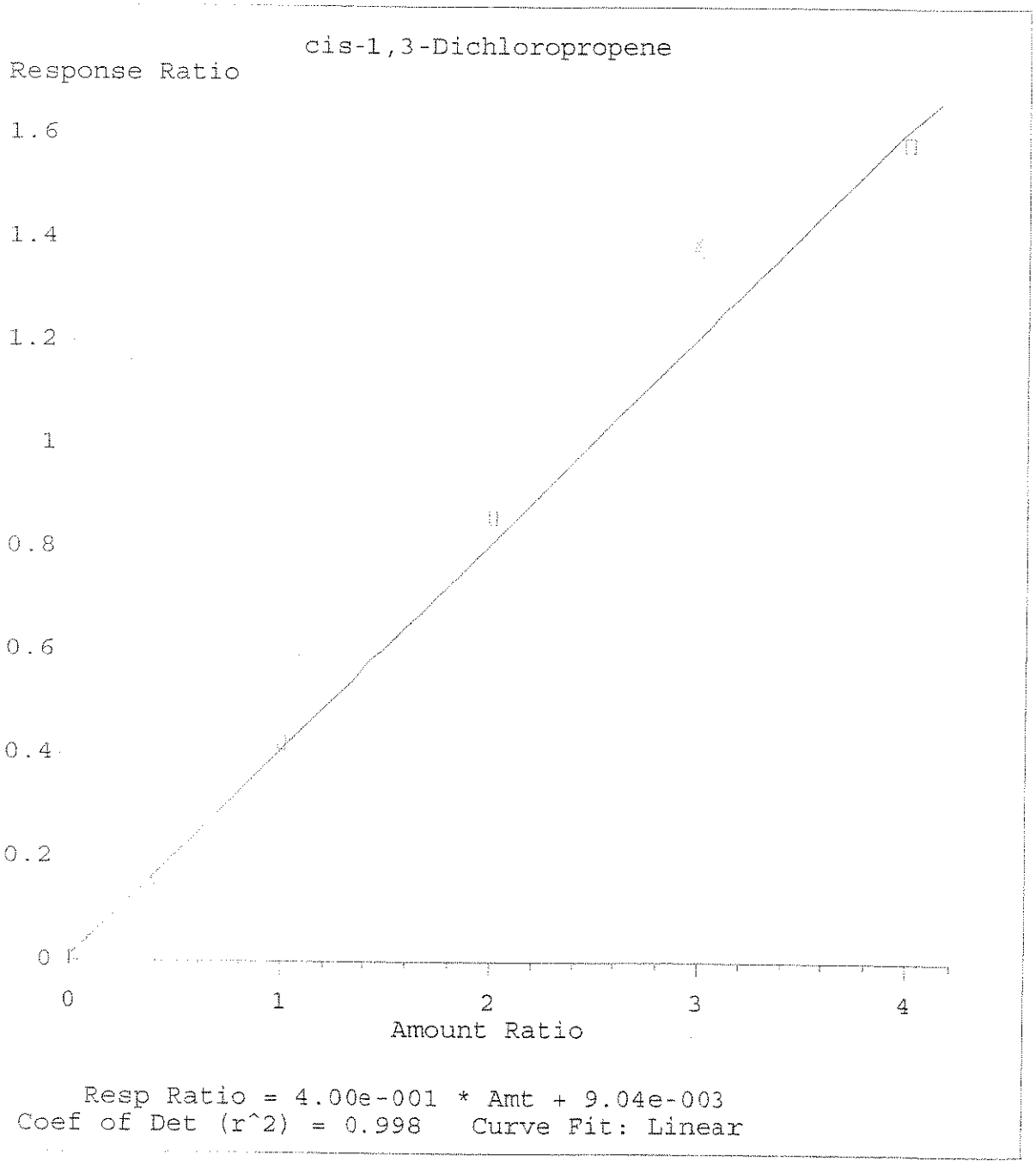
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:22:38 2006



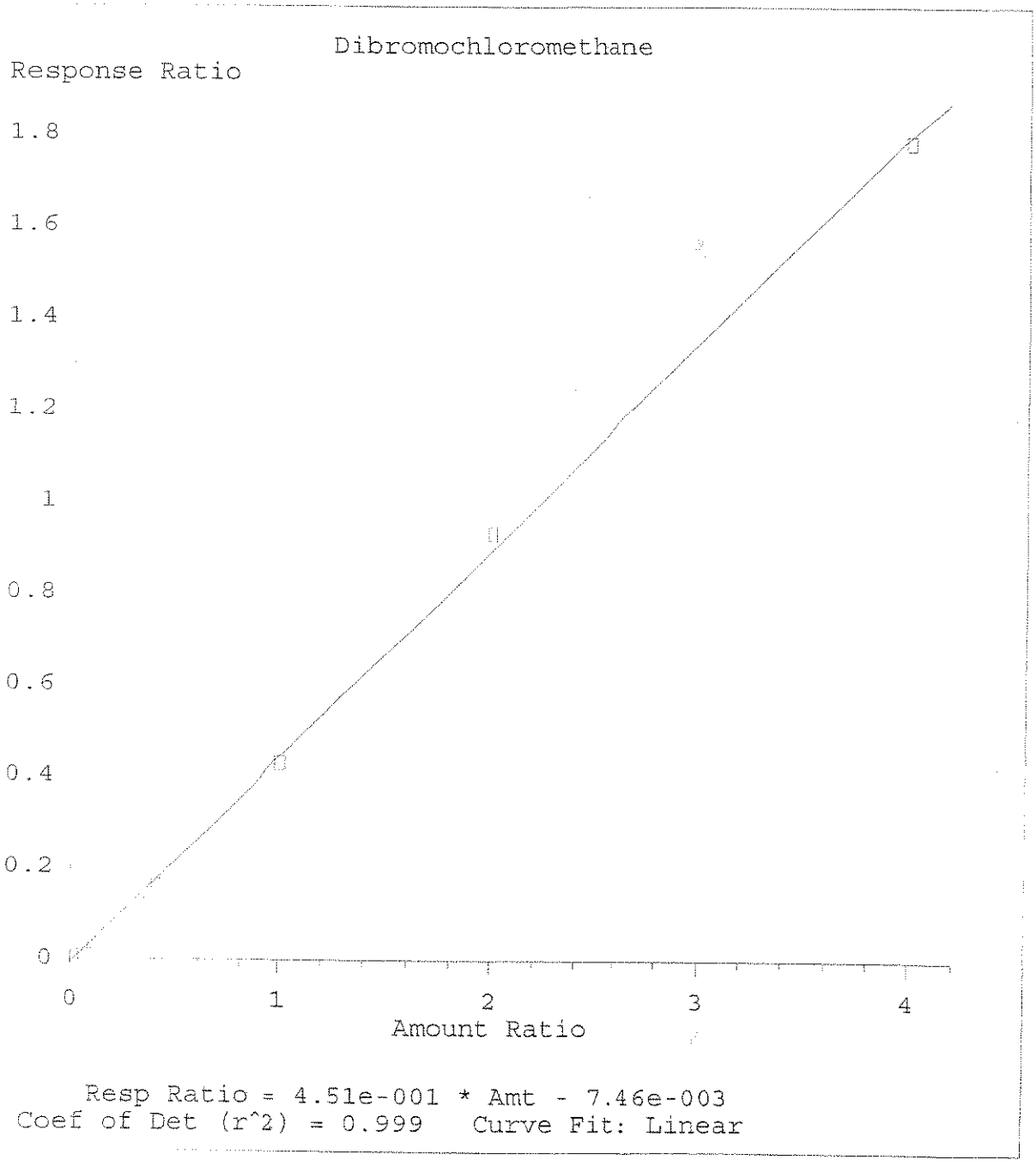
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:10:08 2006



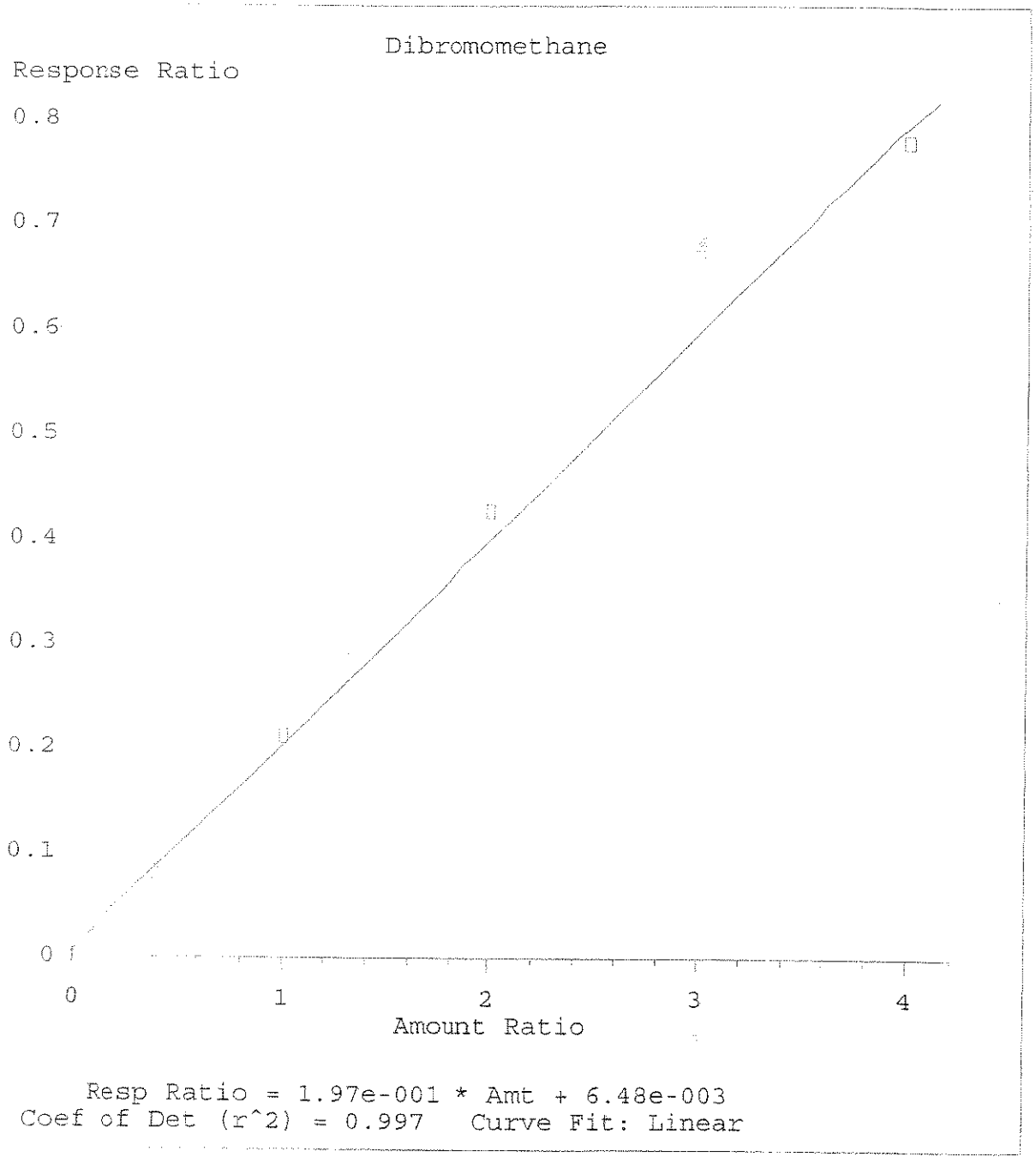
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 06:51:34 2006



Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:19:51 2006



Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:21:28 2006



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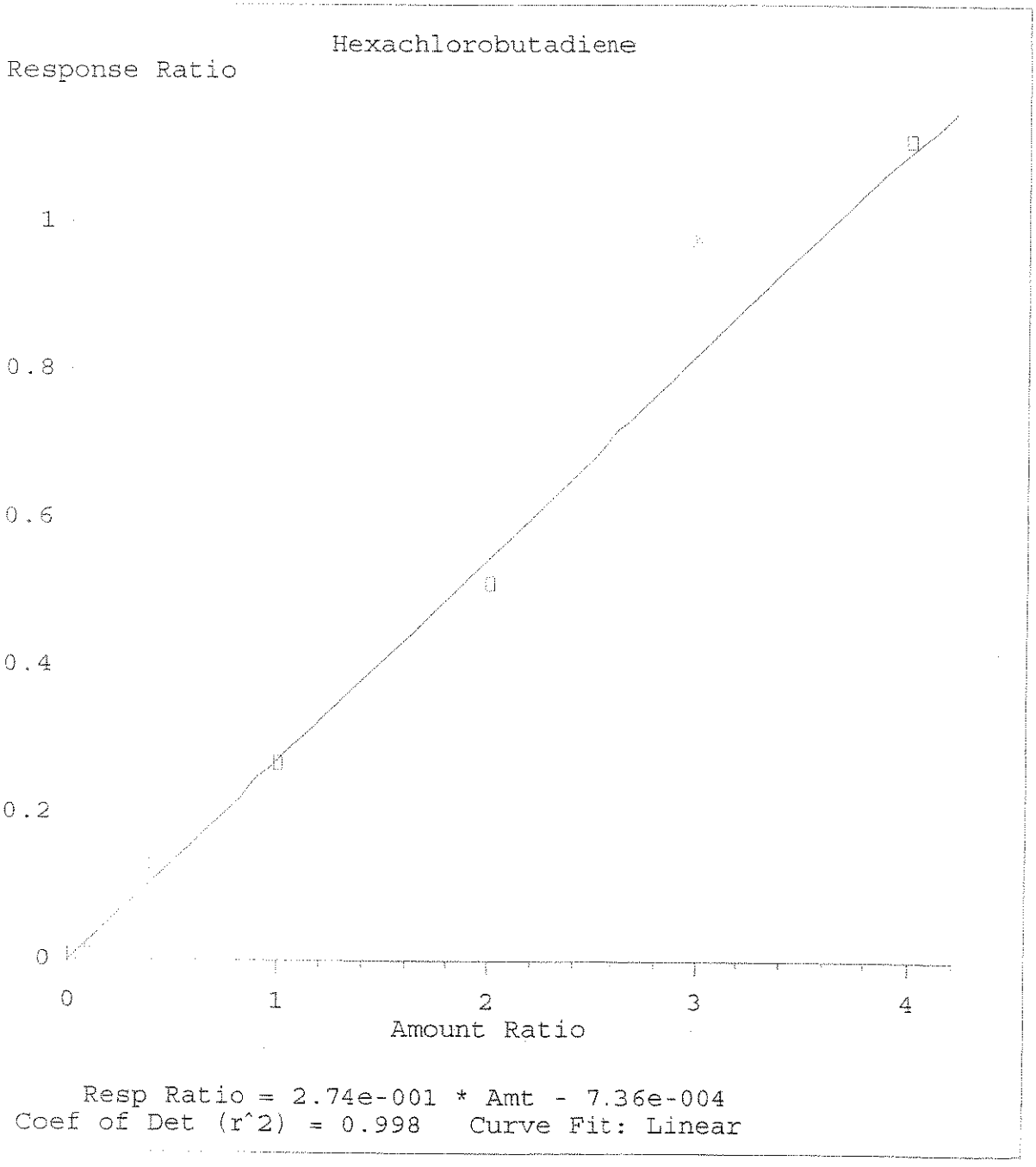
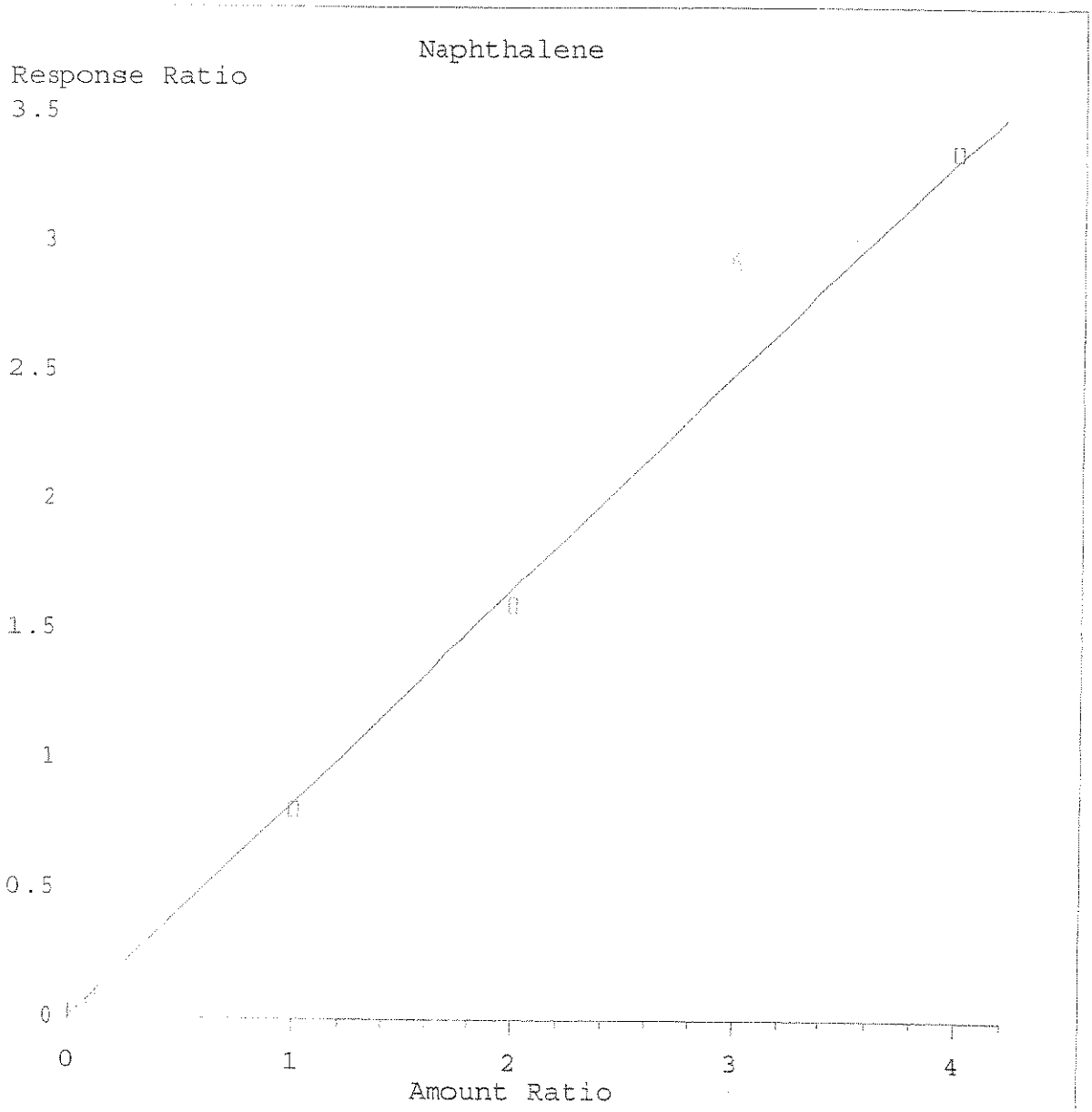
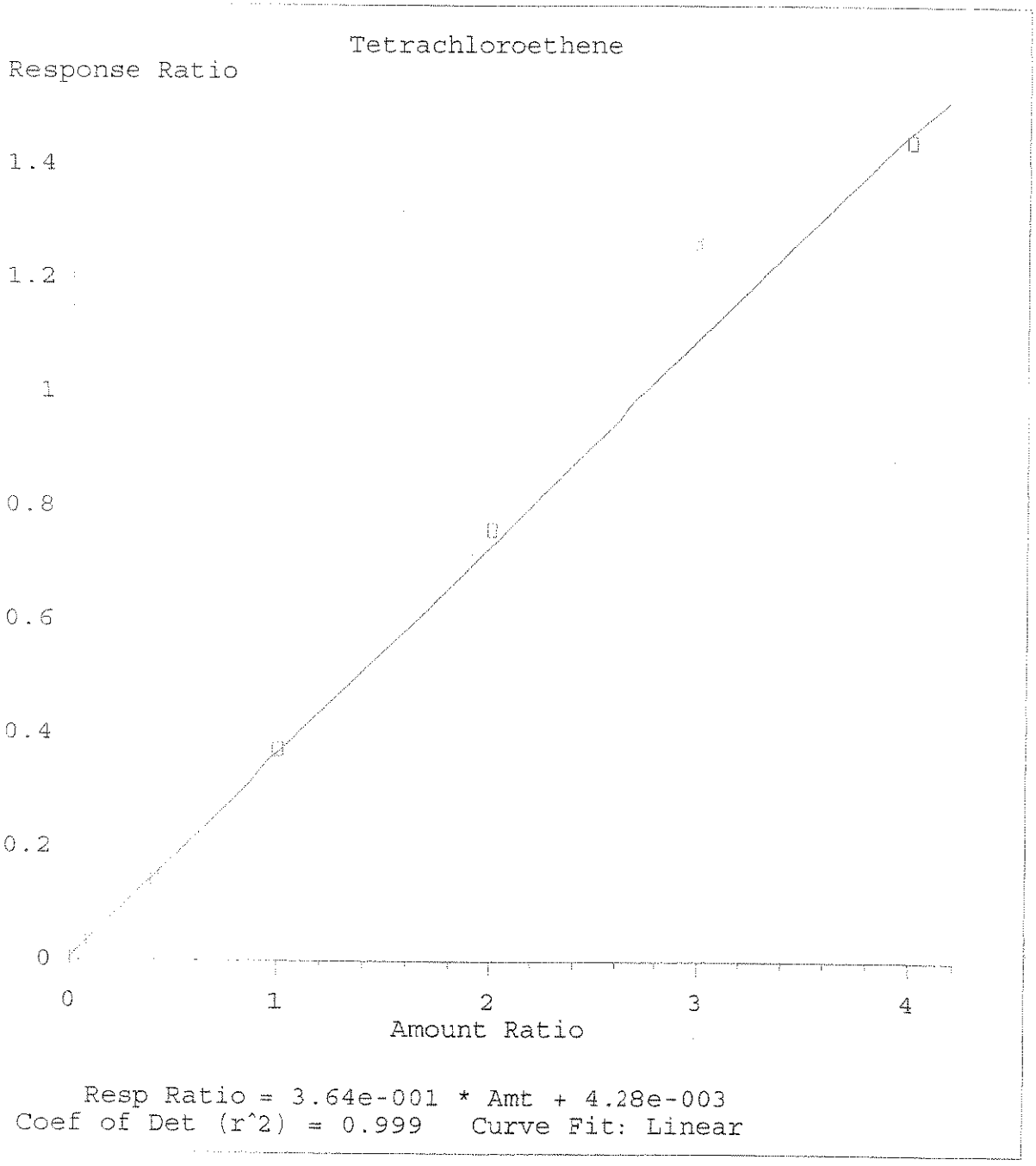


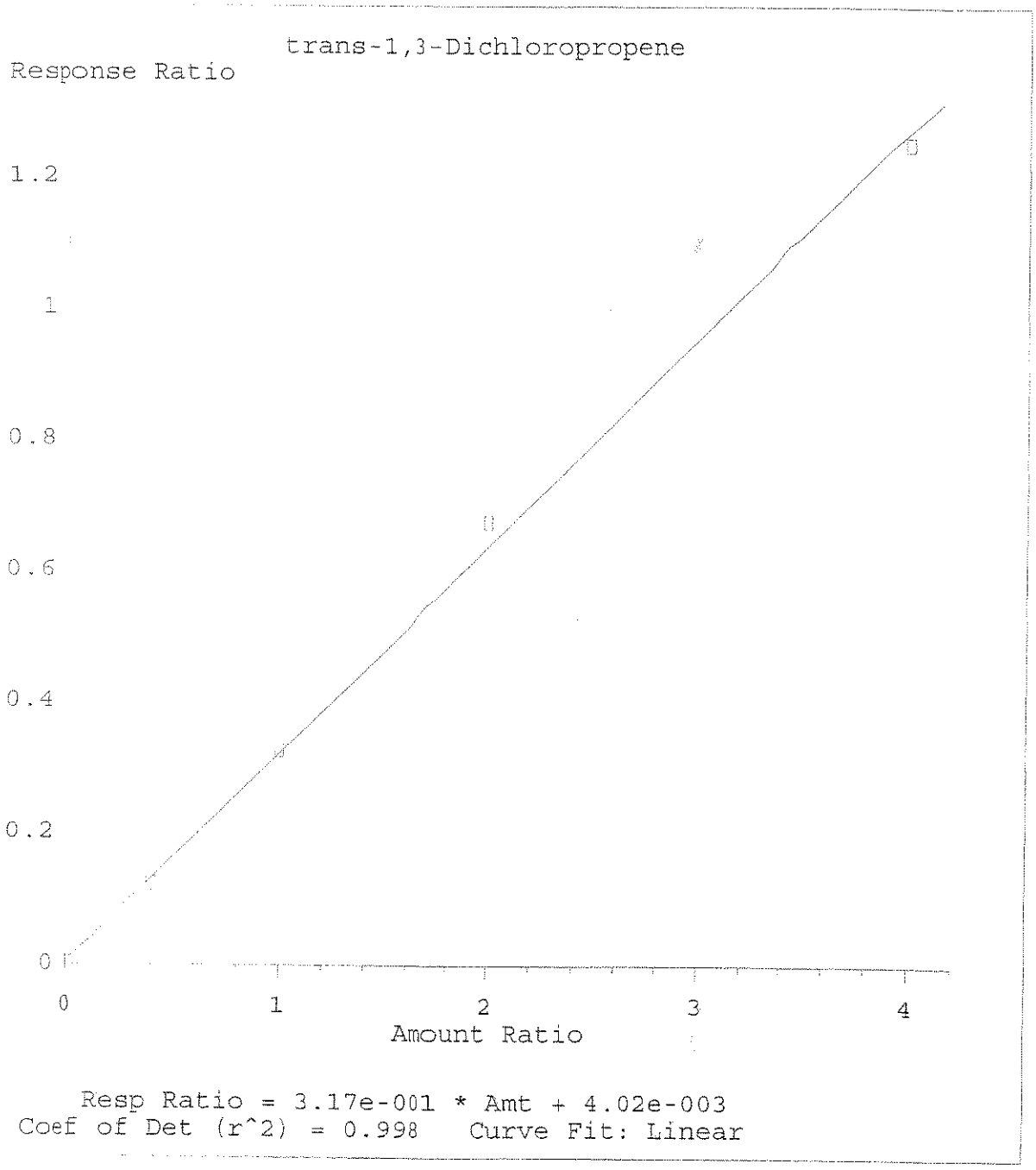
Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:24:47 2006



Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:25:06 2006



Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:20:48 2006



Method Name: C:\HPCHEM\1\METHODS\HI062706.M
Calibration Table Last Updated: Wed Jun 28 07:20:19 2006

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062706\M1041046.D Vial: 9
Acq On : 27 Jun 106 7:32 pm Operator: RES
Sample : BPF0223-SCV1 Inst : VOA MASS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	109	0.00
2		Dichlorodifluoromethane	0.432	0.421	2.6	96	0.00
3		Chloromethane	0.277	0.246	10.9	95	-0.01
4		Vinyl Chloride	0.238	0.234	1.4	97	0.00
5		Bromomethane	0.228	0.216	5.1	107	0.00
6		Chloroethane	0.087	0.098	-13.0	109	0.00
7		Trichlorofluoromethane	0.478	0.471	1.3	101	0.01
8		Diethyl ether	0.140	0.138	0.8	102	-0.01
9		Acrolein	0.022	0.010	53.6#	62	0.00
10		1,1,2-Trichloro-1,2,2-trifl	0.444	0.437	1.6	98	0.00
11		Acetone	0.011	0.008	28.7	101	-0.01
12		Iodomethane	0.642	0.636	1.0	108	0.00
13		Carbon Disulfide	0.626	0.629	-0.5	100	0.00
14	M	1,1-Dichloroethene	0.220	0.241	-9.7	107	0.00
15		Allyl Chloride	0.369	0.343	7.1	94	0.00
16		Methyl Acetate	0.104	0.108	-4.0	121	-0.01
17		Methylene Chloride	0.252	0.255	-1.3	102	0.00
18		Methyl tert-Butyl Ether	0.444	0.437	1.6	102	0.00
19		Acrylonitrile	0.035	0.032	8.7	93	-0.01
20		trans-1,2-Dichloroethene	0.254	0.264	-3.6	103	0.00
21		1,1-Dichloroethane	0.407	0.404	0.7	100	-0.01
22		Vinyl Acetate	0.761	0.657	13.7	88	0.00
23		Chloroprene	0.287	0.000	100.0#	0#	-0.02
24		Di-isopropyl ether	0.919	0.905	1.5	103	-0.01
25		Ethyl tertiary-butyl ether	0.685	0.659	3.7	99	0.00
26		2-Butanone	0.011	0.010	8.4	93	-0.02
27		cis-1,2 Dichloroethene	0.247	0.263	-6.6	108	0.00
28		2,2-Dichloropropane	0.362	0.326	10.1	94	0.00
29		Methyl Acrylate	0.122	0.113	7.7	97	-0.01
30		Bromochloromethane	0.149	0.156	-4.8	103	0.00
31		Methacrylonitrile	0.077	0.070	9.8	99	-0.01
32		Tetrahydrofuran	0.031	0.028	9.7	102	-0.01
33		Chloroform	0.446	0.440	1.4	103	0.00
34	S	Dibromofluoromethane(SURR)	0.437	0.402	8.0	93	0.00
35		1,1,1-Trichloroethane	0.393	0.396	-1.0	100	0.00
36		Cyclohexane	0.228	0.219	4.1	94	0.01
37		1-Chlorobutane	0.487	0.500	-2.8	110	0.00
38		1,1-Dichloropropene	0.301	0.297	1.5	95	0.00
39		Carbon Tetrachloride	0.332	0.350	-5.6	100	0.00
40	M	Benzene	0.659	0.704	-6.9	103	0.00
41	S	1,2-Dichloroethane-d4(SURR)	0.191	0.166	13.4	86	0.00
42		1,2-Dichloroethane	0.232	0.212	8.4	99	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062706\M1041046.D Vial: 9
Acq On : 27 Jun 106 7:32 pm Operator: RES
Sample : BPF0223-SCV1 Inst : VOA MASS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43		Tertiary-amyl methyl ether	0.593	0.571	3.8	100	0.00
44	M	Trichloroethene	0.329	0.327	0.7	103	0.00
45		Methyl Cyclohexane	0.274	0.283	-3.0	104	0.00
46		1,2-Dichloropropane	0.265	0.264	0.4	99	0.00
47		Dibromomethane	0.187	0.198	-5.8	102	0.00
48		Methyl Methacrylate	0.164	0.157	4.4	98	-0.01
49		1,4-Dioxane	0.005	0.001	78.8#	88	0.01
50		Bromodichloromethane	0.436	0.458	-5.2	106	0.00
51		2-Nitropropane	0.033	0.031	4.8	100	0.00
52		2-Chloroethyl vinyl ether	0.110	0.021	80.6#	19#	0.00
53		4-Methyl-2-Pentanone	0.063	0.060	4.8	97	0.00
54		cis-1,3-Dichloropropene	0.377	0.374	0.9	97	0.00
55		Toluene	0.549	0.557	-1.4	101	0.00
56		trans-1,3-Dichloropropene	0.290	0.267	7.6	89	0.00
57		1,1,2-Trichloroethane	0.171	0.175	-2.1	101	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
59	S	Toluene-d8 (SURR)	1.053	1.004	4.6	92	0.00
60		2-Hexanone	0.126	0.121	4.0	98	0.00
61		Ethyl Methacrylate	0.345	0.347	-0.6	100	0.00
62		1,3-Dichloropropane	0.386	0.407	-5.6	101	0.00
63		Tetrachloroethene	0.340	0.360	-5.9	99	0.00
64		Dibromochloromethane	0.396	0.426	-7.5	102	0.00
65		1,2-Dibromoethane	0.349	0.365	-4.7	97	0.00
66		1-Chlorohexane	0.416	0.411	1.1	98	0.00
67	M	Chlorobenzene	0.843	0.868	-3.0	98	0.00
68		1,1,1,2-Tetrachloroethane	0.355	0.376	-5.8	98	0.00
69		Ethylbenzene	1.233	1.296	-5.2	101	0.00
70		Xylene P,M	0.527	0.546	-3.7	100	0.01
71		Xylene O	0.502	0.532	-6.1	100	0.00
72		Styrene	0.877	0.931	-6.2	100	0.00
73		Bromoform	0.207	0.238	-15.2	100	0.00
74		cis1,4-Dichloro-2-butene	0.046	0.000	100.0#	0#	-11.84#
75	S	Bromofluorobenzene (SURR)	0.617	0.567	8.1	90	0.00
76	I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	103	0.00
77		Isopropylbenzene	2.684	2.594	3.3	92	0.00
78		Trans-1,4-Dichloro-2-Butene	0.131	0.115	12.6	94	0.00
79		1,2,3-Trichloropropane	0.552	0.549	0.6	97	-0.01
80		Bromobenzene	0.784	0.838	-6.9	103	0.00
81		1,1,2,2-Tetrachloroethane	0.667	0.656	1.6	98	0.00
82		n-Propylbenzene	2.859	2.959	-3.5	97	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062706\M1041046.D Vial: 9
Acq On : 27 Jun 106 7:32 pm Operator: RES
Sample : BPF0223-SCV1 Inst : VOA MASS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	2-Chlorotoluene	2.062	2.096	-1.6	98	0.00
84	4-Chlorotoluene	2.277	2.235	1.8	97	0.00
85	1,3,5-Trimethylbenzene	2.079	2.130	-2.4	100	0.00
86	tert-Butylbenzene	2.542	2.654	-4.4	100	0.00
87	Pentachloroethane	2.542	2.654	-4.4	100	0.00
88	1,2,4-Trimethylbenzene	2.096	2.196	-4.8	100	0.00
89	sec-Butylbenzene	2.559	2.618	-2.3	99	0.00
90	1,3 Dichlorobenzene	1.332	1.351	-1.5	97	0.00
91	4-Isopropyltoluene	2.066	2.101	-1.7	98	0.00
92	1,4 Dichlorobenzene	1.435	1.423	0.9	96	0.00
93	n-Butylbenzene	1.669	1.649	1.2	99	0.00
94	1,2 Dichlorobenzene	1.153	1.192	-3.3	99	0.00
95	Hexachloroethane	0.454	0.455	-0.2	101	0.00
96	1,2-Dibromo-3-Chloropropane	0.092	0.086	6.2	96	0.00
97	1,2,4-Trichlorobenzene	0.586	0.581	0.9	103	0.00
98	Hexachlorobutadiene	0.290	0.281	3.3	108	0.00
99	Naphthalene	0.893	0.822	7.9	105	0.00
100	1,2,3-Trichlorobenzene	0.461	0.423	8.2	110	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062706\M1041046.D Vial: 9
Acq On : 27 Jun 106 7:32 pm Operator: RES
Sample : BPF0223-SCV1 Inst : VOA MASS
Misc : Multiplr: 1.00
Quant Time: Jun 29 10:57 19106

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.07	96	3263352	25.00	ug/l	0.00
58) Chlorobenzene-d5	10.13	117	2603933	25.00	ug/l	0.00
76) 1,4 Dichlorobenzene-D4	13.82	152	1234582	25.00	ug/l	0.00
System Monitoring Compounds						%Recovery
34) Dibromofluoromethane(SURR)	5.31	111	1310921	23.00	ug/l	91.99%
41) 1,2-Dichloroethane-d4(SURR	5.69	65	540117	21.65	ug/l	86.59%
59) Toluene-d8 (SURR)	8.08	98	2615648	23.84	ug/l	95.36%
75) Bromofluorobenzene (SURR)	11.95	95	1476264	22.97	ug/l	91.89%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.56	85	1373407	24.35	ug/l	98
3) Chloromethane	1.74	50	803761	22.27	ug/l	95
4) Vinyl Chloride	1.84	62	764915	24.66	ug/l	98
5) Bromomethane	2.15	94	705855	23.72	ug/l	100
6) Chloroethane	2.24	64	319651	26.26	ug/l	100
7) Trichlorofluoromethane	2.48	101	1538268	24.67	ug/l	100
8) Diethyl ether	2.79	59	451757	24.80	ug/l	97
9) Acrolein	2.93	56	33763	12.05	ug/l	87
10) 1,1,2-Trichloro-1,2,2-trif	2.98	101	1426230	24.61	ug/l	99
11) Acetone	3.08	58	123466	112.04	ug/l	100
12) Iodomethane	3.13	142	2074287	24.76	ug/l	100
13) Carbon Disulfide	3.18	76	2051290	25.12	ug/l	100
14) 1,1-Dichloroethene	2.98	96	787113	25.87	ug/l	98
15) Allyl Chloride	3.34	41	1118062	23.23	ug/l	100
16) Methyl Acetate	3.39	43	351810	26.00	ug/l	98
17) Methylene Chloride	3.47	84	832892	25.33	ug/l	95
18) Methyl tert-Butyl Ether	3.76	73	1427628	24.61	ug/l	98
19) Acrylonitrile	3.74	53	103746	22.82	ug/l	94
20) trans-1,2-Dichloroethene	3.74	96	860439	25.91	ug/l	99
21) 1,1-Dichloroethane	4.16	63	1319290	24.83	ug/l	100
22) Vinyl Acetate	4.24	43	2143627	21.57	ug/l	99
24) Di-isopropyl ether	4.25	45	2952553	24.62	ug/l	90
25) Ethyl tertiary-butyl ether	4.64	59	2150905	24.07	ug/l	98
26) 2-Butanone	4.82	72	160171	114.54	ug/l	95
27) cis-1,2 Dichloroethene	4.77	96	859053	26.65	ug/l	96
28) 2,2-Dichloropropane	4.76	77	1062695	22.48	ug/l	98
29) Methyl Acrylate	4.92	55	367967	23.07	ug/l	95
30) Bromochloromethane	5.04	128	510491	24.06	ug/l	95
31) Methacrylonitrile	5.05	41	227986	22.56	ug/l	97
32) Tetrahydrofuran	5.10	42	91317	22.57	ug/l	95
33) Chloroform	5.13	83	1434874	24.65	ug/l	95
35) 1,1,1-Trichloroethane	5.31	97	1293886	25.24	ug/l	98
36) Cyclohexane	5.39	56	713232	23.97	ug/l m	51

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062706\M1041046.D Vial: 9
Acq On : 27 Jun 106 7:32 pm Operator: RES
Sample : BPF0223-SCV1 Inst : VOA MASS
Misc : Multiplr: 1.00
Quant Time: Jun 29 10:57 19106

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

xlw 6/30/06

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
37) 1-Chlorobutane	5.44	56	1632399	25.69 ug/l	m	99
38) 1,1-Dichloropropene	5.49	75	967865	24.63 ug/l		98
39) Carbon Tetrachloride	5.49	117	1143609	23.85 ug/l		99
40) Benzene	5.73	78	2297072	24.87 ug/l		100
42) 1,2-Dichloroethane	5.78	62	693323	22.89 ug/l		99
43) Tertiary-amyl methyl ether	5.89	73	1863061	24.05 ug/l		98
44) Trichloroethene	6.50	95	1065704	24.84 ug/l		96
45) Methyl Cyclohexane	6.72	83	922018	25.75 ug/l		97
46) 1,2-Dichloropropane	6.80	63	860113	24.89 ug/l		97
47) Dibromomethane	6.94	93	645698	24.30 ug/l		96
48) Methyl Methacrylate	6.96	41	511111	23.89 ug/l		99
49) 1,4-Dioxane	7.02	88	70709	340.79 ug/l		98
50) Bromodichloromethane	7.15	83	1495889	26.31 ug/l		97
51) 2-Nitropropane	7.47	43	101548	23.79 ug/l		90
52) 2-Chloroethyl vinyl ether	7.56	63	348375	19.00 ug/l		96
53) 4-Methyl-2-Pentanone	7.98	58	976284	119.02 ug/l		91
54) cis-1,3-Dichloropropene	7.73	75	1219814	22.78 ug/l		98
55) Toluene	8.17	92	1816652	25.35 ug/l		99
56) trans-1,3-Dichloropropene	8.49	75	872878	20.78 ug/l		98
57) 1,1,2-Trichloroethane	8.75	83	571347	25.52 ug/l		96
60) 2-Hexanone	9.13	43	1570771	119.98 ug/l		98
61) Ethyl Methacrylate	8.63	69	903799	25.15 ug/l		98
62) 1,3-Dichloropropane	8.97	76	1060768	26.40 ug/l		97
63) Tetrachloroethene	8.91	164	936223	24.43 ug/l		95
64) Dibromochloromethane	9.30	129	1108938	24.00 ug/l		98
65) 1,2-Dibromoethane	9.46	107	951366	23.60 ug/l		100
66) 1-Chlorohexane	10.16	91	1071444	24.74 ug/l		98
67) Chlorobenzene	10.17	112	2260123	25.75 ug/l		98
68) 1,1,1,2-Tetrachloroethane	10.30	131	978812	23.85 ug/l		97
69) Ethylbenzene	10.34	91	3375967	26.30 ug/l		99
70) Xylene P,M	10.53	106	2845096	51.84 ug/l		100
71) Xylene O	11.13	106	1385728	26.52 ug/l		100
72) Styrene	11.16	104	2424602	26.55 ug/l		98
73) Bromoform	11.44	173	620164	23.43 ug/l		98
77) Isopropylbenzene	11.72	105	3202873	24.16 ug/l		100
78) Trans-1,4-Dichloro-2-Buten	12.31	53	141475	21.86 ug/l		92
79) 1,2,3-Trichloropropane	12.27	75	678290	23.23 ug/l		94
80) Bromobenzene	12.17	156	1034594	26.73 ug/l		96
81) 1,1,2,2-Tetrachloroethane	12.22	83	809473	24.59 ug/l		98
82) n-Propylbenzene	12.37	91	3652789	25.87 ug/l		99
83) 2-Chlorotoluene	12.49	91	2587120	25.40 ug/l	m	99
84) 4-Chlorotoluene	12.67	91	2759721	24.54 ug/l		100
85) 1,3,5-Trimethylbenzene	12.66	105	2629398	25.61 ug/l		98
86) tert-Butylbenzene	13.19	119	3276993	26.11 ug/l		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062706\M1041046.D Vial: 9
Acq On : 27 Jun 106 7:32 pm Operator: RES
Sample : BPF0223-SCV1 Inst : VOA MASS
Misc : Multiplr: 1.00
Quant Time: Jun 29 10:57 19106

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
87)	Pentachloroethane	13.19	119	3276993	26.11 ug/l	98
88)	1,2,4-Trimethylbenzene	13.27	105	2711348	26.20 ug/l	98
89)	sec-Butylbenzene	13.54	105	3231924	25.57 ug/l	99
90)	1,3 Dichlorobenzene	13.70	146	1668435	25.37 ug/l	99
91)	4-Isopropyltoluene	13.80	119	2593503	25.42 ug/l	100
92)	1,4 Dichlorobenzene	13.86	146	1756274	24.78 ug/l	97
93)	n-Butylbenzene	14.45	91	2035992	24.71 ug/l	99
94)	1,2 Dichlorobenzene	14.44	146	1471576	25.84 ug/l	99
95)	Hexachloroethane	14.78	117	561537	25.04 ug/l	97
96)	1,2-Dibromo-3-Chloropropan	15.44	75	106075	23.44 ug/l	90
97)	1,2,4-Trichlorobenzene	16.27	180	716816	24.78 ug/l	94
98)	Hexachlorobutadiene	16.44	225	346558	25.67 ug/l	99
99)	Naphthalene	16.50	128	1014966	24.69 ug/l	100
100)	1,2,3-Trichlorobenzene	16.75	180	522593	25.65 ug/l	98

(#) = qualifier out of range (m) = manual integration

ANALYSIS SEQUENCE

BPF0228

Instrument: VMS1

Calibnration ID: 0606042

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0228-TUN1	QC		1		6F28037		
BPF0228-CCV1	QC		2		6F28038	6F22057	
BF62806-BLK1	QC		3			6F22057	
BF62806-BS1	QC		4			6F22057	
BF62806-BSD1	QC		5			6F22057	
BF62806-MS1	QC		6			6F22057	
BF62806-MSD1	QC		7			6F22057	
0606427-02	MA-MCP 5035/8260 ppm V	A	8			6F22057	Gannett Fleming
0606427-01	XMA MCP 5035/8260 ppm	A	9			6F22057	Gannett Fleming
0606427-01	VOC: x5035/8260 ppb VOA	A	10			6F22057	Gannett Fleming
0606427-01	MA-MCP 5035/8260 ppm V	A	11			6F22057	Gannett Fleming
0606427-01	TB: 5035/8260 ppb VOA	A	12			6F22057	Gannett Fleming
0606383-10	VOC: x5035/8260 ppb VOA	E	13			6F22057	MACTEC Engineering & Consulting, In
0606383-06	VOC: x5035/8260 ppb VOA	C	14			6F22057	MACTEC Engineering & Consulting, In
0606383-05	VOC: x5035/8260 ppb VOA	E	15			6F22057	MACTEC Engineering & Consulting, In
0606374-13	VOC: x5035/8260 ppb VOA	D	16			6F22057	MACTEC Engineering & Consulting, In
0606374-11	VOC: x5035/8260 ppb VOA	D	17			6F22057	MACTEC Engineering & Consulting, In
0606374-09	VOC: x5035/8260 ppb VOA	D	18			6F22057	MACTEC Engineering & Consulting, In
0606374-06	VOC: x5035/8260 ppb VOA	D	19			6F22057	MACTEC Engineering & Consulting, In
0606374-05	VOC: x5035/8260 ppb VOA	D	20			6F22057	MACTEC Engineering & Consulting, In
0606373-15	VOC: x5035/8260 ppb VOA	D	21			6F22057	MACTEC Engineering & Consulting, In
0606373-14	VOC: x5035/8260 ppb VOA	D	22			6F22057	MACTEC Engineering & Consulting, In
0606373-11	TB: 5035/8260 ppb VOA	A	23			6F22057	MACTEC Engineering & Consulting, In
0606373-08	VOC: x5035/8260 ppb VOA	D	24			6F22057	MACTEC Engineering & Consulting, In
0606373-01	VOC: x5035/8260 ppb VOA	D	25			6F22057	MACTEC Engineering & Consulting, In
0606360-01	VOC: x5035/8260 ppb VOA	B	26			6F22057	Vertex

Samples Loaded By Date Data Processed By Date

ESS LABORATORY MS-1 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/26/06	06	M1 041035	0606348-02	A2061606	from SVOC	
↓	07	M1 36	BF62612-MS1	↓	0606348-02 40µL/100mL GF12081	↓
6/26/06	08	M1 37	BF62612-MSD1	A2061606	0606348-02 40µL/100mL GF12081	
6/29/06	1	M1 38	BBF0223-TUN1	HP5973106	GF27054	
	2	M1 39	-CAL1		055	
	3	M1 40	-CAL2		056	
	4	M1 41	-CAL3		057	
	5	M1 42	-CAL4		058	
	6	M1 43	-CAL5		051 050	
	7	M1 44	BBF0223-CAL6		GF27 060	
↓	8	M1 45	TB	HP5973106		↓
6/27/06	9	M1 46	BBF0223-SCV1	HP062706	GF27061	
6/28/06	1	M1 47	BBF0228-TUN1	↓	GF28037	↓
6/29/06	2	M1 48	BBF0228-CCV1	HP062706	GF28038	

542

Run Sequence Confirmation

JP 6/29/06

Surrogate: GF22055 / GE19053 5011

On-column IS: GF22057 / GF27048

ESS LABORATORY MS-1 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/28/06	3	M1 041049	BF62806 -BS1	HE062706	6F28039 100X	pcj
	4	M1 50	BF62806 -DS01		6F28039	
	5	M1 51	TB			
	6	M1 52	TB			
	7	M1 53	BF62806 -DUP1			
	8	M1 54	0606427-02		15/15 TB D1711	
	9	M1 55	0606373-11		15/15 TB D4023	
	10	M1 56	0606360-01		19.3/15 D4006	
	11	M1 57	0606373-01		7.6/15 D4022 ~~D4002~~	
	12	M1 58	-08		8.3/15 D3876	
	13	M1 59	-14		20.5/15 D3866	
	14	M1 60	0606373-15		18.8/15 D3887	
	15	M1 61	0606374-05		23.1/15 D3859	
6/29/06	16	M1 62	0606374-06	HE062706	24.9/15 10X D3849	pcj

Run Sequence Confirmation JMW 6/28/06

Surrogate: AQ 6F22055 / Soil 6F19050

On-column IS: 6F22057 / 6F27049

543

ESS LABORATORY MS-1 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/28/06	17	M1 0410 63	0606374 - 09	HE062706	9.9/15 100X D3853	
	18	M1 64	-11		11.6/15 D3840	
	19	M1 65	-12		11.6/15 D3846	
	20	M1 66	0606374 -13		87.2/15 D3847	
	21	M1 67	0606393 - 05		11.9/15 D3844	
	22	M1 68	" -06		19.2/15 D3855	
	23	M1 69	0606383 -10		15.7/15 D3983	
	24	M1 70	0606427 -01		21.8/15 100X C5989	
	25	M1 71	BF62806 -MS1		0606427-01 100µL/100mL 6F27042	
6/28/06	26	M1 72	BF62806 -MSD1	HE062706	0606427-01 100µL/100mL 6F27042	RK
6/29/06	1	M1 73	BBF0238 -Tun1		6F29034 ~~6F29034~~ x	
	2	M1 74	BBF0238 -CCV1		6F29035	
	3	M1 75	BF62904 -BS1		6F29036 100X	
6/29/06	4	M1 76	BF62904 -DSD1	HE062706	6F29036 100X	RK

Run Sequence Confirmation

RK 6/29/06

Surrogate: 6F19050

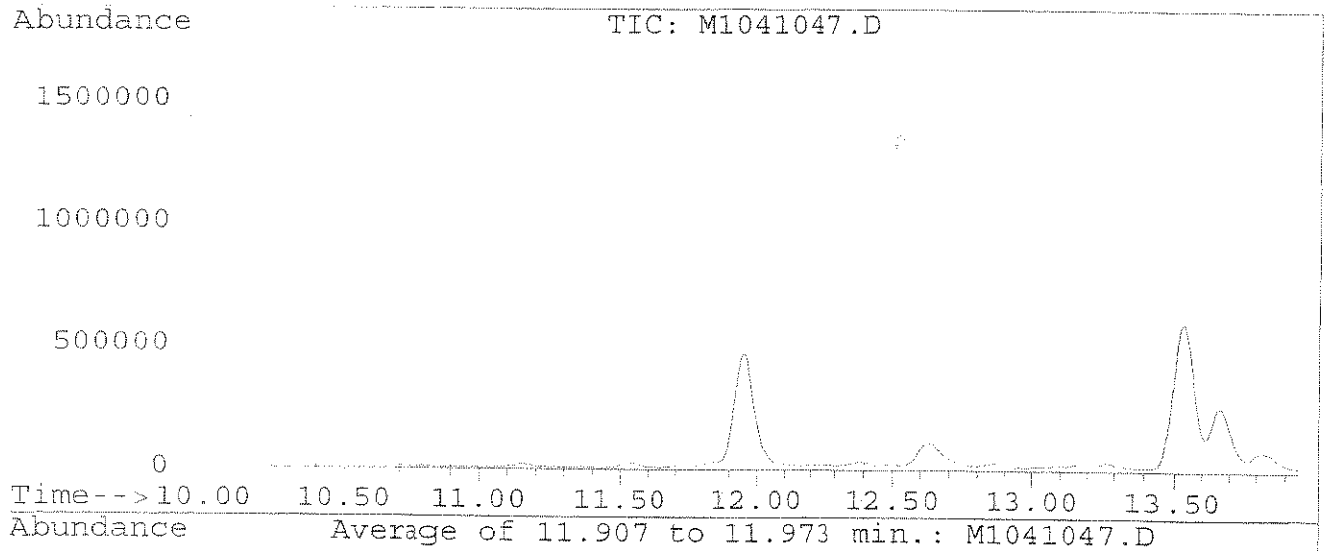
On-column IS: 6F27048

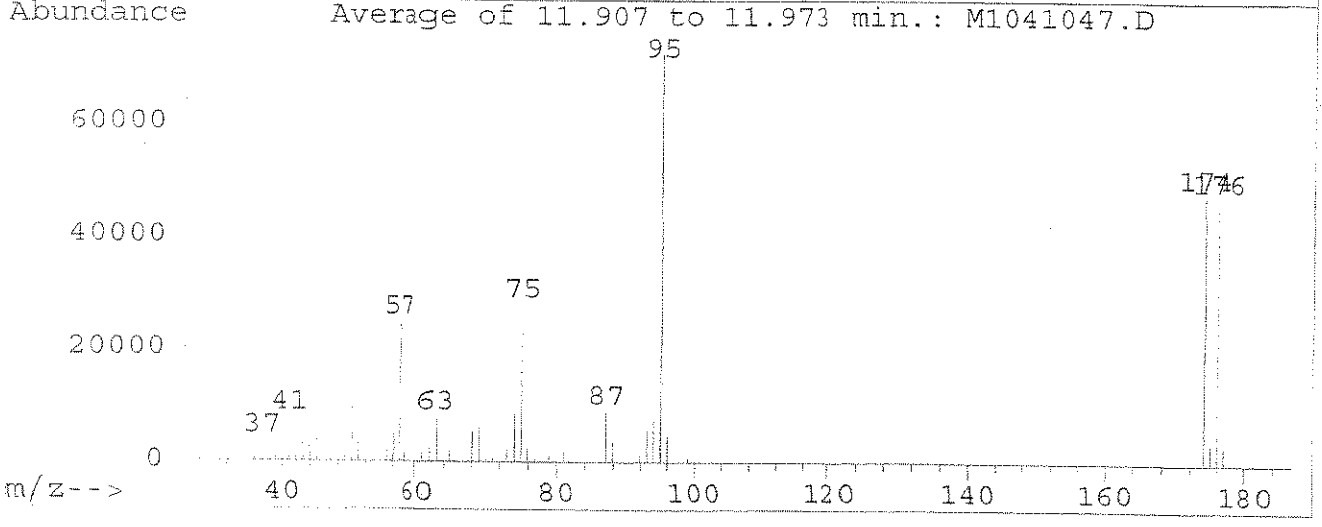
544

BFB

Data File : Q:\VOA\MS1_MA\MA0606\MA062806\M1041047.D Vial: 1
Acq On : 28 Jun 106 7:42 am Operator: RES
Sample : BPF0228-TUN1 Inst : VOA MASS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001





Peak Apex is scan: 1316

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.9	11498	PASS
75	95	30	60	38.4	27835	PASS
95	95	100	100	100.0	72540	PASS
96	95	5	9	6.5	4724	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	65.7	47630	PASS
175	174	5	9	7.5	3593	PASS
176	174	95	101	98.9	47083	PASS
177	176	5	9	6.4	3030	PASS

M1041047.D HI062706.M Wed Jun 28 09:55:35 2006

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062806\M1041048.D Vial: 2
Acq On : 28 Jun 106 8:10 am Operator: RES
Sample : BPF0228-CCV1 Inst : VOA MASS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	107	0.00
2		Dichlorodifluoromethane	0.432	0.440	-1.7	98	0.00
3		Chloromethane	0.277	0.302	-9.1	114	-0.01
4		Vinyl Chloride	0.238	0.248	-4.4	101	0.00
5		Bromomethane	0.228	0.182	20.2	88	0.00
6		Chloroethane	0.087	0.089	-2.5	97	0.00
7		Trichlorofluoromethane	0.478	0.464	2.8	98	0.00
8		Diethyl ether	0.140	0.138	0.8	100	0.00
9		Acrolein	0.022	0.020	9.4	118	0.00
10		1,1,2-Trichloro-1,2,2-trifl	0.444	0.459	-3.3	100	0.00
11		Acetone	0.011	0.009	18.7	113	0.01
12		Iodomethane	0.642	0.545	15.1	91	0.01
13		Carbon Disulfide	0.626	0.652	-4.2	101	0.00
14	M	1,1-Dichloroethene	0.220	0.228	-3.9	99	0.00
15		Allyl Chloride	0.369	0.385	-4.4	103	0.00
16		Methyl Acetate	0.104	0.096	7.8	105	0.00
17		Methylene Chloride	0.252	0.248	1.4	97	0.00
18		Methyl tert-Butyl Ether	0.444	0.440	1.0	100	0.00
19		Acrylonitrile	0.035	0.034	2.6	97	0.00
20		trans-1,2-Dichloroethene	0.254	0.260	-2.2	100	0.00
21		1,1-Dichloroethane	0.407	0.412	-1.1	100	0.00
22		Vinyl Acetate	0.761	0.761	-0.0	100	0.00
23		Chloroprene	0.287	0.297	-3.7	100	0.00
24		Di-isopropyl ether	0.919	0.896	2.4	100	0.00
25		Ethyl tertiary-butyl ether	0.685	0.682	0.5	100	0.00
26		2-Butanone	0.011	0.011	1.4	98	0.00
27		cis-1,2 Dichloroethene	0.247	0.246	0.4	98	0.00
28		2,2-Dichloropropane	0.362	0.355	1.8	100	0.00
29		Methyl Acrylate	0.122	0.115	5.6	97	0.00
30		Bromochloromethane	0.149	0.147	1.2	95	0.00
31		Methacrylonitrile	0.077	0.074	5.0	102	0.00
32		Tetrahydrofuran	0.031	0.030	2.1	109	0.02
33		Chloroform	0.446	0.432	3.1	99	0.00
34	S	Dibromofluoromethane(SURR)	0.437	0.437	-0.1	99	0.00
35		1,1,1-Trichloroethane	0.393	0.397	-1.0	98	0.00
36		Cyclohexane	0.228	0.216	5.4	91	0.00
37		1-Chlorobutane	0.487	0.423	13.0	91	0.00
38		1,1-Dichloropropene	0.301	0.299	0.8	94	0.00
39		Carbon Tetrachloride	0.332	0.347	-4.4	97	0.00
40	M	Benzene	0.659	0.660	-0.1	95	0.00
41	S	1,2-Dichloroethane-d4(SURR)	0.191	0.170	11.2	86	0.00
42		1,2-Dichloroethane	0.232	0.211	9.1	96	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062806\M1041048.D Vial: 2
Acq On : 28 Jun 106 8:10 am Operator: RES
Sample : BPF0228-CCV1 Inst : VOA MASS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43		Tertiary-amyl methyl ether	0.593	0.595	-0.2	102	0.01
44	M	Trichloroethene	0.329	0.330	-0.4	102	0.00
45		Methyl Cyclohexane	0.274	0.287	-4.7	103	0.00
46		1,2-Dichloropropane	0.265	0.271	-2.2	100	0.00
47		Dibromomethane	0.187	0.193	-3.5	98	0.00
48		Methyl Methacrylate	0.164	0.160	2.4	98	0.00
49		1,4-Dioxane	0.005	0.001	73.1#	110	0.00
50		Bromodichloromethane	0.436	0.438	-0.5	99	0.00
51		2-Nitropropane	0.033	0.036	-10.1	113	0.01
52		2-Chloroethyl vinyl ether	0.110	0.116	-4.9	101	0.00
53		4-Methyl-2-Pentanone	0.063	0.063	-0.6	100	0.00
54		cis-1,3-Dichloropropene	0.377	0.391	-3.6	99	0.00
55		Toluene	0.549	0.551	-0.4	98	0.00
56		trans-1,3-Dichloropropene	0.290	0.306	-5.7	100	0.00
57		1,1,2-Trichloroethane	0.171	0.175	-2.0	99	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
59	S	Toluene-d8 (SURR)	1.053	1.084	-2.9	98	0.00
60		2-Hexanone	0.126	0.126	-0.0	101	0.00
61		Ethyl Methacrylate	0.345	0.344	0.3	98	0.00
62		1,3-Dichloropropane	0.386	0.408	-5.6	99	0.00
63		Tetrachloroethene	0.340	0.355	-4.6	97	0.00
64		Dibromochloromethane	0.396	0.427	-7.8	101	0.00
65		1,2-Dibromoethane	0.349	0.369	-5.6	97	0.00
66		1-Chlorohexane	0.416	0.422	-1.4	99	0.01
67	M	Chlorobenzene	0.843	0.870	-3.3	97	0.00
68		1,1,1,2-Tetrachloroethane	0.355	0.377	-6.1	98	0.00
69		Ethylbenzene	1.233	1.252	-1.6	97	0.00
70		Xylene P,M	0.527	0.538	-2.0	97	0.01
71		Xylene O	0.502	0.522	-4.0	97	0.00
72		Styrene	0.877	0.906	-3.4	97	0.00
73		Bromoform	0.207	0.243	-17.7	101	0.01
74		cis1,4-Dichloro-2-butene	0.046	0.047	-2.6	109	0.00
75	S	Bromofluorobenzene (SURR)	0.617	0.618	-0.1	97	0.00
76	I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	102	0.00
77		Isopropylbenzene	2.684	2.793	-4.1	98	0.00
78		Trans-1,4-Dichloro-2-Butene	0.131	0.136	-4.1	111	0.00
79		1,2,3-Trichloropropane	0.552	0.603	-9.2	105	0.00
80		Bromobenzene	0.784	0.806	-2.8	97	0.00
81		1,1,2,2-Tetrachloroethane	0.667	0.682	-2.3	100	0.00
82		n-Propylbenzene	2.859	2.917	-2.0	95	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062806\M1041048.D Vial: 2
Acq On : 28 Jun 106 8:10 am Operator: RES
Sample : BPF0228-CCV1 Inst : VOA MASS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	2-Chlorotoluene	2.062	2.027	1.7	94	0.00
84	4-Chlorotoluene	2.277	2.284	-0.3	98	0.00
85	1,3,5-Trimethylbenzene	2.079	2.105	-1.2	97	0.00
86	tert-Butylbenzene	2.542	2.632	-3.6	97	0.00
87	Pentachloroethane	2.542	2.632	-3.6	97	0.00
88	1,2,4-Trimethylbenzene	2.096	2.151	-2.6	97	0.00
89	sec-Butylbenzene	2.559	2.643	-3.3	99	0.00
90	1,3 Dichlorobenzene	1.332	1.363	-2.3	97	0.00
91	4-Isopropyltoluene	2.066	2.147	-3.9	99	0.00
92	1,4 Dichlorobenzene	1.435	1.480	-3.2	98	0.00
93	n-Butylbenzene	1.669	1.622	2.8	96	0.00
94	1,2 Dichlorobenzene	1.153	1.175	-1.8	97	0.00
95	Hexachloroethane	0.454	0.478	-5.2	105	0.00
96	1,2-Dibromo-3-Chloropropane	0.092	0.094	-2.9	104	0.00
97	1,2,4-Trichlorobenzene	0.586	0.563	4.0	98	0.00
98	Hexachlorobutadiene	0.290	0.279	4.0	105	0.00
99	Naphthalene	0.893	0.808	9.5	102	0.00
100	1,2,3-Trichlorobenzene	0.461	0.402	12.9	103	0.00

Quantitation Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062806\M1041048.D Vial: 2
Acq On : 28 Jun 106 8:10 am Operator: RES
Sample : BPF0228-CCV1 Inst : VOA MASS
Misc : Multiplr: 1.00
Quant Time: Jun 28 11:18 19106

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	6.07	96	3196558	25.00	ug/l		0.00
58) Chlorobenzene-d5	10.13	117	2576358	25.00	ug/l		0.00
76) 1,4 Dichlorobenzene-D4	13.82	152	1216483	25.00	ug/l		0.00
System Monitoring Compounds							%Recovery
34) Dibromofluoromethane(SURR)	5.31	111	1397748	25.03	ug/l		100.13%
41) 1,2-Dichloroethane-d4(SURR	5.69	65	542335	22.19	ug/l		88.76%
59) Toluene-d8 (SURR)	8.08	98	2793332	25.73	ug/l		102.93%
75) Bromofluorobenzene (SURR)	11.96	95	1591162	25.03	ug/l		100.11%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.56	85	1405290	25.43	ug/l		96
3) Chloromethane	1.74	50	964809	27.28	ug/l		96
4) Vinyl Chloride	1.84	62	792822	26.10	ug/l		97
5) Bromomethane	2.15	94	581464	19.95	ug/l		97
6) Chloroethane	2.24	64	284188	23.72	ug/l		98
7) Trichlorofluoromethane	2.47	101	1484434	24.30	ug/l		98
8) Diethyl ether	2.80	59	442600	24.81	ug/l		96
9) Acrolein	2.93	56	64546	25.29	ug/l		93
10) 1,1,2-Trichloro-1,2,2-trif	2.98	101	1466503	25.83	ug/l		97
11) Acetone	3.11	58	137883	132.34	ug/l		93
12) Iodomethane	3.14	142	1742434	21.23	ug/l		99
13) Carbon Disulfide	3.17	76	2084530	26.06	ug/l		100
14) 1,1-Dichloroethene	2.97	96	729918	24.42	ug/l		98
15) Allyl Chloride	3.34	41	1230486	26.10	ug/l		96
16) Methyl Acetate	3.40	43	305329	23.04	ug/l		99
17) Methylene Chloride	3.48	84	793876	24.65	ug/l		97
18) Methyl tert-Butyl Ether	3.77	73	1406116	24.75	ug/l		98
19) Acrylonitrile	3.74	53	108458	24.36	ug/l		98
20) trans-1,2-Dichloroethene	3.73	96	831293	25.56	ug/l		98
21) 1,1-Dichloroethane	4.16	63	1315866	25.28	ug/l		97
22) Vinyl Acetate	4.25	43	2433942	25.01	ug/l		99
23) Chloroprene	4.25	53	950609	25.92	ug/l		92
24) Di-isopropyl ether	4.26	45	2865311	24.39	ug/l		95
25) Ethyl tertiary-butyl ether	4.64	59	2178657	24.88	ug/l		100
26) 2-Butanone	4.84	72	168792	123.23	ug/l	#	88
27) cis-1,2 Dichloroethene	4.78	96	786109	24.89	ug/l		96
28) 2,2-Dichloropropane	4.77	77	1136322	24.54	ug/l		98
29) Methyl Acrylate	4.93	55	368783	23.61	ug/l		97
30) Bromochloromethane	5.03	128	471430	22.67	ug/l		95
31) Methacrylonitrile	5.06	41	235161	23.75	ug/l		98
32) Tetrahydrofuran	5.13	42	96995	24.47	ug/l		92
33) Chloroform	5.13	83	1380913	24.22	ug/l		98
35) 1,1,1-Trichloroethane	5.32	97	1267836	25.25	ug/l		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062806\M1041048.D Vial: 2
Acq On : 28 Jun 106 8:10 am Operator: RES
Sample : BPF0228-CCV1 Inst : VOA MASS
Misc : Multiplr: 1.00
Quant Time: Jun 28 11:18 19106

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

XP 6/28/06

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	Cyclohexane	5.37	56	689042	23.64	ug/l	m	51
37)	1-Chlorobutane	5.43	56	1353694	21.75	ug/l	m	98
38)	1,1-Dichloropropene	5.49	75	954437	24.80	ug/l		98
39)	Carbon Tetrachloride	5.49	117	1107639	23.58	ug/l		99
40)	Benzene	5.74	78	2108206	23.22	ug/l		100
42)	1,2-Dichloroethane	5.78	62	674459	22.74	ug/l		99
43)	Tertiary-amyl methyl ether	5.91	73	1901259	25.06	ug/l		97
44)	Trichloroethene	6.50	95	1054619	25.09	ug/l		95
45)	Methyl Cyclohexane	6.73	83	917704	26.17	ug/l		98
46)	1,2-Dichloropropane	6.80	63	864688	25.54	ug/l		98
47)	Dibromomethane	6.94	93	618439	23.74	ug/l		97
48)	Methyl Methacrylate	6.97	41	511404	24.40	ug/l		99
49)	1,4-Dioxane	7.01	88	87739	494.18	ug/l		97
50)	Bromodichloromethane	7.16	83	1399411	25.12	ug/l		99
51)	2-Nitropropane	7.49	43	115121	27.53	ug/l	m	27
52)	2-Chloroethyl vinyl ether	7.55	63	1846599	121.33	ug/l		98
53)	4-Methyl-2-Pentanone	7.98	58	1010364	125.75	ug/l		97
54)	cis-1,3-Dichloropropene	7.74	75	1249393	23.85	ug/l		99
55)	Toluene	8.17	92	1761061	25.09	ug/l		99
56)	trans-1,3-Dichloropropene	8.50	75	978509	23.83	ug/l		97
57)	1,1,2-Trichloroethane	8.75	83	559139	25.50	ug/l		94
60)	2-Hexanone	9.14	43	1619744	125.05	ug/l		98
61)	Ethyl Methacrylate	8.64	69	885655	24.91	ug/l		100
62)	1,3-Dichloropropane	8.98	76	1050088	26.41	ug/l		100
63)	Tetrachloroethene	8.91	164	915423	24.14	ug/l		99
64)	Dibromochloromethane	9.30	129	1100340	24.07	ug/l		99
65)	1,2-Dibromoethane	9.45	107	949839	23.82	ug/l		99
66)	1-Chlorohexane	10.17	91	1086006	25.34	ug/l		99
67)	Chlorobenzene	10.17	112	2242309	25.82	ug/l		97
68)	1,1,1,2-Tetrachloroethane	10.31	131	971524	23.92	ug/l		97
69)	Ethylbenzene	10.35	91	3226265	25.40	ug/l		98
70)	Xylene P,M	10.53	106	2769811	51.01	ug/l		97
71)	Xylene O	11.14	106	1344099	26.00	ug/l		98
72)	Styrene	11.16	104	2334749	25.84	ug/l		99
73)	Bromoform	11.45	173	626578	23.91	ug/l		98
74)	cis1,4-Dichloro-2-butene	11.85	75	120341	25.66	ug/l		95
77)	Isopropylbenzene	11.72	105	3397647	26.01	ug/l		99
78)	Trans-1,4-Dichloro-2-Buten	12.32	53	165899	26.02	ug/l	#	82
79)	1,2,3-Trichloropropane	12.29	75	734100	25.51	ug/l		97
80)	Bromobenzene	12.17	156	979991	25.69	ug/l		98
81)	1,1,2,2-Tetrachloroethane	12.23	83	829456	25.57	ug/l		96
82)	n-Propylbenzene	12.38	91	3547985	25.51	ug/l		100
83)	2-Chlorotoluene	12.50	91	2466238	24.57	ug/l	m	100
84)	4-Chlorotoluene	12.68	91	2778590	25.08	ug/l		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\VOA\MS1_MA\MA0606\MA062806\M1041048.D Vial: 2
Acq On : 28 Jun 106 8:10 am Operator: RES
Sample : BPF0228-CCV1 Inst : VOA MASS
Misc : Multiplr: 1.00
Quant Time: Jun 28 11:18 19106

Method : C:\HPCHEM\1\METHODS\HI062706.M
Title : Element ID: 0606001
Last Update : Wed Jun 28 07:34:21 2006
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85)	1,3,5-Trimethylbenzene	12.67	105	2560772	25.31 ug/l	99
86)	tert-Butylbenzene	13.19	119	3201744	25.89 ug/l	99
87)	Pentachloroethane	13.19	119	3201744	25.89 ug/l	98
88)	1,2,4-Trimethylbenzene	13.28	105	2616856	25.66 ug/l	99
89)	sec-Butylbenzene	13.56	105	3215676	25.82 ug/l	98
90)	1,3 Dichlorobenzene	13.71	146	1657828	25.58 ug/l	100
91)	4-Isopropyltoluene	13.81	119	2611999	25.98 ug/l	99
92)	1,4 Dichlorobenzene	13.86	146	1800784	25.79 ug/l	99
93)	n-Butylbenzene	14.45	91	1973475	24.31 ug/l	99
94)	1,2 Dichlorobenzene	14.45	146	1428869	25.46 ug/l	98
95)	Hexachloroethane	14.78	117	580971	26.29 ug/l	97
96)	1,2-Dibromo-3-Chloropropan	15.44	75	114766	25.74 ug/l	90
97)	1,2,4-Trichlorobenzene	16.27	180	684383	24.01 ug/l	99
98)	Hexachlorobutadiene	16.44	225	338966	25.48 ug/l	97
99)	Naphthalene	16.51	128	982635	24.26 ug/l	100
100)	1,2,3-Trichlorobenzene	16.76	180	488453	24.32 ug/l	98

Volatile Organics Data Package

(AQ)

Volatile Organics
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: Trip Blank Aqueous
Date Sampled: 06/22/06 00:00
Percent Solids: N/A
Initial Volume: 10
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-16
Sample Matrix: Aqueous
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	06/29/06
1,1,1-Trichloroethane	ND	ug/L	1.0	1	06/29/06
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	06/29/06
1,1,2-Trichloroethane	ND	ug/L	1.0	1	06/29/06
1,1-Dichloroethane	ND	ug/L	1.0	1	06/29/06
1,1-Dichloroethene	ND	ug/L	1.0	1	06/29/06
1,1-Dichloropropene	ND	ug/L	2.0	1	06/29/06
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	06/29/06
1,2,3-Trichloropropane	ND	ug/L	1.0	1	06/29/06
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	06/29/06
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	06/29/06
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0	1	06/29/06
1,2-Dibromoethane	ND	ug/L	1.0	1	06/29/06
1,2-Dichlorobenzene	ND	ug/L	1.0	1	06/29/06
1,2-Dichloroethane	ND	ug/L	1.0	1	06/29/06
1,2-Dichloropropane	ND	ug/L	1.0	1	06/29/06
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	06/29/06
1,3-Dichlorobenzene	ND	ug/L	1.0	1	06/29/06
1,3-Dichloropropane	ND	ug/L	1.0	1	06/29/06
1,4-Dichlorobenzene	ND	ug/L	1.0	1	06/29/06
1,4-Dioxane - Screen	ND	ug/L	500	1	06/29/06
1-Chlorohexane	ND	ug/L	1.0	1	06/29/06
2,2-Dichloropropane	ND	ug/L	1.0	1	06/29/06
2-Butanone	ND	ug/L	25.0	1	06/29/06
2-Chlorotoluene	ND	ug/L	1.0	1	06/29/06
2-Hexanone	ND	ug/L	10.0	1	06/29/06
4-Chlorotoluene	ND	ug/L	1.0	1	06/29/06
4-Isopropyltoluene	ND	ug/L	1.0	1	06/29/06
4-Methyl-2-Pentanone	ND	ug/L	25.0	1	06/29/06
Acetone	ND	ug/L	25.0	1	06/29/06
Benzene	ND	ug/L	1.0	1	06/29/06
Bromobenzene	ND	ug/L	2.0	1	06/29/06
Bromochloromethane	ND	ug/L	1.0	1	06/29/06
Bromodichloromethane	ND	ug/L	1.0	1	06/29/06
Bromoform	ND	ug/L	1.0	1	06/29/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: Trip Blank Aqueous
Date Sampled: 06/22/06 00:00
Percent Solids: N/A
Initial Volume: 10
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-16
Sample Matrix: Aqueous
Analyst: MD

8260B Volatile Organic Compounds

Bromomethane	ND	ug/L	2.0	1	06/29/06
Carbon Disulfide	ND	ug/L	1.0	1	06/29/06
Carbon Tetrachloride	ND	ug/L	1.0	1	06/29/06
Chlorobenzene	ND	ug/L	1.0	1	06/29/06
Chloroethane	ND	ug/L	2.0	1	06/29/06
Chloroform	ND	ug/L	1.0	1	06/29/06
Chloromethane	ND	ug/L	2.0	1	06/29/06
cis-1,2-Dichloroethene	ND	ug/L	1.0	1	06/29/06
cis-1,3-Dichloropropene	ND	ug/L	0.5	1	06/29/06
Dibromochloromethane	ND	ug/L	1.0	1	06/29/06
Dibromomethane	ND	ug/L	1.0	1	06/29/06
Dichlorodifluoromethane	ND	ug/L	2.0	1	06/29/06
Diethyl Ether	ND	ug/L	1.0	1	06/29/06
Di-isopropyl ether	ND	ug/L	1.0	1	06/29/06
Ethyl tertiary-butyl ether	ND	ug/L	1.0	1	06/29/06
Ethylbenzene	ND	ug/L	1.0	1	06/29/06
Hexachlorobutadiene	ND	ug/L	0.6	1	06/29/06
Isopropylbenzene	ND	ug/L	1.0	1	06/29/06
Methyl tert-Butyl Ether	ND	ug/L	1.0	1	06/29/06
Methylene Chloride	ND	ug/L	5.0	1	06/29/06
Naphthalene	ND	ug/L	1.0	1	06/29/06
n-Butylbenzene	ND	ug/L	1.0	1	06/29/06
n-Propylbenzene	ND	ug/L	1.0	1	06/29/06
sec-Butylbenzene	ND	ug/L	1.0	1	06/29/06
Styrene	ND	ug/L	1.0	1	06/29/06
tert-Butylbenzene	ND	ug/L	1.0	1	06/29/06
Tertiary-amyl methyl ether	ND	ug/L	1.0	1	06/29/06
Tetrachloroethene	ND	ug/L	1.0	1	06/29/06
Tetrahydrofuran	ND	ug/L	5.0	1	06/29/06
Toluene	ND	ug/L	1.0	1	06/29/06
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	06/29/06
trans-1,3-Dichloropropene	ND	ug/L	0.5	1	06/29/06
Trichloroethene	ND	ug/L	1.0	1	06/29/06
Trichlorofluoromethane	ND	ug/L	2.0	1	06/29/06
Vinyl Acetate	ND	ug/L	5.0	1	06/29/06
Vinyl Chloride	ND	ug/L	1.0	1	06/29/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: Trip Blank Aqueous
Date Sampled: 06/22/06 00:00
Percent Solids: N/A
Initial Volume: 10
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-16
Sample Matrix: Aqueous
Analyst: MD

8260B Volatile Organic Compounds

Xylene O	ND	ug/L	1.0	1	06/29/06
Xylene P,M	ND	ug/L	2.0	1	06/29/06
Xylenes (Total)	ND	ug/L	3.0		06/29/06

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*96 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*98 %*		*70-130*
Surrogate: Dibromofluoromethane	*99 %*		*70-130*
Surrogate: Toluene-d8	*98 %*		*70-130*

Volatile Organics Quality Control Data

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch BF62701 - 3541										
Aroclor 1262	ND	33.3	ug/Kg wet							
Aroclor 1268	ND	33.3	ug/Kg wet							
Surrogate: Decachlorobiphenyl	*17.8*		ug/Kg wet	*16.7*		*107*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*16.8*		ug/Kg wet	*16.7*		*101*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*15.2*		ug/Kg wet	*16.7*		*91*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.4*		ug/Kg wet	*16.7*		*92*	*30-150*			
LCS										
Aroclor 1016	341	33.3	ug/Kg wet	333		102	40-140			
Aroclor 1260	328	33.3	ug/Kg wet	333		98	40-140			
Surrogate: Decachlorobiphenyl	*17.9*		ug/Kg wet	*16.7*		*107*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*17.0*		ug/Kg wet	*16.7*		*102*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*15.8*		ug/Kg wet	*16.7*		*95*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.5*		ug/Kg wet	*16.7*		*93*	*30-150*			
LCS Dup										
Aroclor 1016	341	33.3	ug/Kg wet	333		102	40-140	0	50	
Aroclor 1260	327	33.3	ug/Kg wet	333		98	40-140	0.3	50	
Surrogate: Decachlorobiphenyl	*17.7*		ug/Kg wet	*16.7*		*106*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*17.0*		ug/Kg wet	*16.7*		*102*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*16.0*		ug/Kg wet	*16.7*		*96*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.7*		ug/Kg wet	*16.7*		*94*	*30-150*			
8100M Total Petroleum Hydrocarbons										
Batch BF62724 - 3541										
Blank										
Total Petroleum Hydrocarbons	ND	37.5	mg/kg wet							
Surrogate: O-Terphenyl	*5.40*		mg/kg wet	*5.00*		*108*	*40-140*			
LCS										
Total Petroleum Hydrocarbons	993	37.5	mg/kg wet	1000		99	40-140			
Surrogate: O-Terphenyl	*5.81*		mg/kg wet	*5.00*		*116*	*40-140*			
LCS Dup										
Total Petroleum Hydrocarbons	921	37.5	mg/kg wet	1000		92	40-140	8	50	
Surrogate: O-Terphenyl	*5.35*		mg/kg wet	*5.00*		*107*	*40-140*			
8260B Volatile Organic Compounds										
Batch BF62823 - 5030B										
Blank										
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
1,1-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	1.0	ug/L							

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch BF62823 - 5030B										
1,1-Dichloropropene	ND	2.0	ug/L							
1,2,3-Trichlorobenzene	ND	1.0	ug/L							
1,2,3-Trichloropropane	ND	1.0	ug/L							
1,2,4-Trichlorobenzene	ND	1.0	ug/L							
1,2,4-Trimethylbenzene	ND	1.0	ug/L							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							
1,2-Dichlorobenzene	ND	1.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
1,3,5-Trimethylbenzene	ND	1.0	ug/L							
1,3-Dichlorobenzene	ND	1.0	ug/L							
1,3-Dichloropropane	ND	1.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
1,4-Dioxane - Screen	ND	500	ug/L							
1-Chlorohexane	ND	1.0	ug/L							
2,2-Dichloropropane	ND	1.0	ug/L							
2-Butanone	ND	25.0	ug/L							
2-Chlorotoluene	ND	1.0	ug/L							
2-Hexanone	ND	10.0	ug/L							
4-Chlorotoluene	ND	1.0	ug/L							
4-Isopropyltoluene	ND	1.0	ug/L							
4-Methyl-2-Pentanone	ND	25.0	ug/L							
Acetone	ND	25.0	ug/L							
Benzene	ND	1.0	ug/L							
Bromobenzene	ND	2.0	ug/L							
Bromochloromethane	ND	1.0	ug/L							
Bromodichloromethane	ND	1.0	ug/L							
Bromoform	ND	1.0	ug/L							
Bromomethane	ND	2.0	ug/L							
Carbon Disulfide	ND	1.0	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Chlorobenzene	ND	1.0	ug/L							
Chloroethane	ND	2.0	ug/L							
Chloroform	ND	1.0	ug/L							
Chloromethane	ND	2.0	ug/L							
cis-1,2-Dichloroethene	ND	1.0	ug/L							
cis-1,3-Dichloropropene	ND	0.5	ug/L							
Dibromochloromethane	ND	1.0	ug/L							
Dibromomethane	ND	1.0	ug/L							
Dichlorodifluoromethane	ND	2.0	ug/L							
Diethyl Ether	ND	1.0	ug/L							
Di-isopropyl ether	ND	1.0	ug/L							
Ethyl tertiary-butyl ether	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Hexachlorobutadiene	ND	0.6	ug/L							
Isopropylbenzene	ND	1.0	ug/L							

559

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch BF62823 - 5030B										
Methyl tert-Butyl Ether	ND	1.0	ug/L							
Methylene Chloride	ND	5.0	ug/L							
Naphthalene	ND	1.0	ug/L							
n-Butylbenzene	ND	1.0	ug/L							
n-Propylbenzene	ND	1.0	ug/L							
sec-Butylbenzene	ND	1.0	ug/L							
Styrene	ND	1.0	ug/L							
tert-Butylbenzene	ND	1.0	ug/L							
Tertiary-amyl methyl ether	ND	1.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
Tetrahydrofuran	ND	5.0	ug/L							
Toluene	ND	1.0	ug/L							
trans-1,2-Dichloroethene	ND	1.0	ug/L							
trans-1,3-Dichloropropene	ND	0.5	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	2.0	ug/L							
Vinyl Acetate	ND	5.0	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylene O	ND	1.0	ug/L							
Xylene P,M	ND	2.0	ug/L							
Surrogate: 1,2-Dichloroethane-d4	*24.2*		ug/L	*25.0*		*97*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.6*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*24.9*		ug/L	*25.0*		*100*	*70-130*			
Surrogate: Toluene-d8	*24.5*		ug/L	*25.0*		*98*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	9.8		ug/L	10.0		98	70-130			
1,1,1-Trichloroethane	10.2		ug/L	10.0		102	70-130			
1,1,2,2-Tetrachloroethane	9.4		ug/L	10.0		94	70-130			
1,1,2-Trichloroethane	10.2		ug/L	10.0		102	70-130			
1,1-Dichloroethane	9.9		ug/L	10.0		99	70-130			
1,1-Dichloroethene	11.0		ug/L	10.0		110	70-130			
1,1-Dichloropropene	10.0		ug/L	10.0		100	70-130			
1,2,3-Trichlorobenzene	9.8		ug/L	10.0		98	70-130			
1,2,3-Trichloropropane	9.0		ug/L	10.0		90	70-130			
1,2,4-Trichlorobenzene	9.7		ug/L	10.0		97	70-130			
1,2,4-Trimethylbenzene	10.0		ug/L	10.0		100	70-130			
1,2-Dibromo-3-Chloropropane	10.3		ug/L	10.0		103	70-130			
1,2-Dibromoethane	10.0		ug/L	10.0		100	70-130			
1,2-Dichlorobenzene	10.1		ug/L	10.0		101	70-130			
1,2-Dichloroethane	10.3		ug/L	10.0		103	70-130			
1,2-Dichloropropane	9.6		ug/L	10.0		96	70-130			
1,3,5-Trimethylbenzene	9.9		ug/L	10.0		99	70-130			
1,3-Dichlorobenzene	9.7		ug/L	10.0		97	70-130			
1,3-Dichloropropane	9.9		ug/L	10.0		99	70-130			
1,4-Dichlorobenzene	9.6		ug/L	10.0		96	70-130			
1,4-Dioxane - Screen	271		ug/L	200		136	70-130			+
1-Chlorohexane	10.0		ug/L	10.0		100	70-130			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch BF62823 - 5030B										
2,2-Dichloropropane	9.7		ug/L	10.0		97	70-130			
2-Butanone	53.2		ug/L	50.0		106	70-130			
2-Chlorotoluene	10.4		ug/L	10.0		104	70-130			
2-Hexanone	48.0		ug/L	50.0		96	70-130			
4-Chlorotoluene	9.6		ug/L	10.0		96	70-130			
4-Isopropyltoluene	9.6		ug/L	10.0		96	70-130			
4-Methyl-2-Pentanone	49.3		ug/L	50.0		99	70-130			
Acetone	49.8		ug/L	50.0		100	70-130			
Benzene	10.0		ug/L	10.0		100	70-130			
Bromobenzene	10.6		ug/L	10.0		106	70-130			
Bromochloromethane	11.0		ug/L	10.0		110	70-130			
Bromodichloromethane	10.9		ug/L	10.0		109	70-130			
Bromoform	10.3		ug/L	10.0		103	70-130			
Bromomethane	9.8		ug/L	10.0		98	70-130			
Carbon Disulfide	9.8		ug/L	10.0		98	70-130			
Carbon Tetrachloride	10.4		ug/L	10.0		104	70-130			
Chlorobenzene	10.1		ug/L	10.0		101	70-130			
Chloroethane	10.3		ug/L	10.0		103	70-130			
Chloroform	10.4		ug/L	10.0		104	70-130			
Chloromethane	8.6		ug/L	10.0		86	70-130			
cis-1,2-Dichloroethene	10.9		ug/L	10.0		109	70-130			
cis-1,3-Dichloropropene	9.8		ug/L	10.0		98	70-130			
Dibromochloromethane	10.4		ug/L	10.0		104	70-130			
Dibromomethane	10.7		ug/L	10.0		107	70-130			
Dichlorodifluoromethane	9.4		ug/L	10.0		94	70-130			
Diethyl Ether	10.4		ug/L	10.0		104	70-130			
Di-isopropyl ether	9.6		ug/L	10.0		96	70-130			
Ethyl tertiary-butyl ether	9.7		ug/L	10.0		97	70-130			
Ethylbenzene	10.2		ug/L	10.0		102	70-130			
Hexachlorobutadiene	9.6		ug/L	10.0		96	70-130			
Isopropylbenzene	9.1		ug/L	10.0		91	70-130			
Methyl tert-Butyl Ether	10.3		ug/L	10.0		103	70-130			
Methylene Chloride	10.2		ug/L	10.0		102	70-130			
Naphthalene	9.4		ug/L	10.0		94	70-130			
n-Butylbenzene	9.6		ug/L	10.0		96	70-130			
n-Propylbenzene	9.8		ug/L	10.0		98	70-130			
sec-Butylbenzene	9.5		ug/L	10.0		95	70-130			
Styrene	10.2		ug/L	10.0		102	70-130			
tert-Butylbenzene	9.8		ug/L	10.0		98	70-130			
Tertiary-amyl methyl ether	10.1		ug/L	10.0		101	70-130			
Tetrachloroethene	10.1		ug/L	10.0		101	70-130			
Tetrahydrofuran	9.4		ug/L	10.0		94	70-130			
Toluene	10.2		ug/L	10.0		102	70-130			
trans-1,2-Dichloroethene	10.4		ug/L	10.0		104	70-130			
trans-1,3-Dichloropropene	9.3		ug/L	10.0		93	70-130			
Trichloroethene	10.1		ug/L	10.0		101	70-130			
Trichlorofluoromethane	10.0		ug/L	10.0		100	70-130			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch BF62823 - 5030B										
Vinyl Acetate	9.4		ug/L	10.0		94	70-130			
Vinyl Chloride	9.7		ug/L	10.0		97	70-130			
Xylene O	10.2		ug/L	10.0		102	70-130			
Xylene P,M	20.4		ug/L	20.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	*25.0*		ug/L	*25.0*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.2*		ug/L	*25.0*		*97*	*70-130*			
Surrogate: Dibromofluoromethane	*25.0*		ug/L	*25.0*		*100*	*70-130*			
Surrogate: Toluene-d8	*24.4*		ug/L	*25.0*		*98*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	9.4		ug/L	10.0		94	70-130	4	20	
1,1,1-Trichloroethane	9.8		ug/L	10.0		98	70-130	4	20	
1,1,2,2-Tetrachloroethane	9.1		ug/L	10.0		91	70-130	3	20	
1,1,2-Trichloroethane	9.8		ug/L	10.0		98	70-130	4	20	
1,1-Dichloroethane	9.5		ug/L	10.0		95	70-130	4	20	
1,1-Dichloroethene	10.4		ug/L	10.0		104	70-130	6	20	
1,1-Dichloropropene	9.5		ug/L	10.0		95	70-130	5	20	
1,2,3-Trichlorobenzene	9.3		ug/L	10.0		93	70-130	5	20	
1,2,3-Trichloropropane	8.6		ug/L	10.0		86	70-130	5	20	
1,2,4-Trichlorobenzene	9.2		ug/L	10.0		92	70-130	5	20	
1,2,4-Trimethylbenzene	9.5		ug/L	10.0		95	70-130	5	20	
1,2-Dibromo-3-Chloropropane	9.8		ug/L	10.0		98	70-130	5	20	
1,2-Dibromoethane	9.5		ug/L	10.0		95	70-130	5	20	
1,2-Dichlorobenzene	9.6		ug/L	10.0		96	70-130	5	20	
1,2-Dichloroethane	9.7		ug/L	10.0		97	70-130	6	20	
1,2-Dichloropropane	9.1		ug/L	10.0		91	70-130	5	20	
1,3,5-Trimethylbenzene	9.4		ug/L	10.0		94	70-130	5	20	
1,3-Dichlorobenzene	9.2		ug/L	10.0		92	70-130	5	20	
1,3-Dichloropropane	9.5		ug/L	10.0		95	70-130	4	20	
1,4-Dichlorobenzene	9.2		ug/L	10.0		92	70-130	4	20	
1,4-Dioxane - Screen	158		ug/L	200		79	70-130	53	20	+
1-Chlorohexane	9.1		ug/L	10.0		91	70-130	9	20	
2,2-Dichloropropane	9.0		ug/L	10.0		90	70-130	7	20	
2-Butanone	51.4		ug/L	50.0		103	70-130	3	20	
2-Chlorotoluene	10.5		ug/L	10.0		105	70-130	1	20	
2-Hexanone	45.6		ug/L	50.0		91	70-130	5	20	
4-Chlorotoluene	9.3		ug/L	10.0		93	70-130	3	20	
4-Isopropyltoluene	9.2		ug/L	10.0		92	70-130	4	20	
4-Methyl-2-Pentanone	48.0		ug/L	50.0		96	70-130	3	20	
Acetone	45.1		ug/L	50.0		90	70-130	10	20	
Benzene	9.5		ug/L	10.0		95	70-130	5	20	
Bromobenzene	10.1		ug/L	10.0		101	70-130	5	20	
Bromochloromethane	10.6		ug/L	10.0		106	70-130	4	20	
Bromodichloromethane	10.3		ug/L	10.0		103	70-130	6	20	
Bromoform	9.7		ug/L	10.0		97	70-130	6	20	
Bromomethane	9.7		ug/L	10.0		97	70-130	1	20	
Carbon Disulfide	9.3		ug/L	10.0		93	70-130	5	20	
Carbon Tetrachloride	9.8		ug/L	10.0		98	70-130	6	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch BF62823 - 5030B										
Chlorobenzene	9.6		ug/L	10.0		96	70-130	5	20	
Chloroethane	9.7		ug/L	10.0		97	70-130	6	20	
Chloroform	9.9		ug/L	10.0		99	70-130	5	20	
Chloromethane	8.2		ug/L	10.0		82	70-130	5	20	
cis-1,2-Dichloroethene	10.3		ug/L	10.0		103	70-130	6	20	
cis-1,3-Dichloropropene	9.3		ug/L	10.0		93	70-130	5	20	
Dibromochloromethane	9.8		ug/L	10.0		98	70-130	6	20	
Dibromomethane	10.2		ug/L	10.0		102	70-130	5	20	
Dichlorodifluoromethane	8.6		ug/L	10.0		86	70-130	9	20	
Diethyl Ether	9.4		ug/L	10.0		94	70-130	10	20	
Di-isopropyl ether	9.1		ug/L	10.0		91	70-130	5	20	
Ethyl tertiary-butyl ether	9.2		ug/L	10.0		92	70-130	5	20	
Ethylbenzene	9.6		ug/L	10.0		96	70-130	6	20	
Hexachlorobutadiene	9.6		ug/L	10.0		96	70-130	0	20	
Isopropylbenzene	8.6		ug/L	10.0		86	70-130	6	20	
Methyl tert-Butyl Ether	9.8		ug/L	10.0		98	70-130	5	20	
Methylene Chloride	9.8		ug/L	10.0		98	70-130	4	20	
Naphthalene	8.8		ug/L	10.0		88	70-130	7	20	
n-Butylbenzene	9.1		ug/L	10.0		91	70-130	5	20	
n-Propylbenzene	8.8		ug/L	10.0		88	70-130	11	20	
sec-Butylbenzene	9.1		ug/L	10.0		91	70-130	4	20	
Styrene	9.6		ug/L	10.0		96	70-130	6	20	
tert-Butylbenzene	9.3		ug/L	10.0		93	70-130	5	20	
Tertiary-amyl methyl ether	9.7		ug/L	10.0		97	70-130	4	20	
Tetrachloroethene	9.5		ug/L	10.0		95	70-130	6	20	
Tetrahydrofuran	8.7		ug/L	10.0		87	70-130	8	20	
Toluene	9.8		ug/L	10.0		98	70-130	4	20	
trans-1,2-Dichloroethene	9.8		ug/L	10.0		98	70-130	6	20	
trans-1,3-Dichloropropene	8.8		ug/L	10.0		88	70-130	6	20	
Trichloroethene	9.6		ug/L	10.0		96	70-130	5	20	
Trichlorofluoromethane	9.4		ug/L	10.0		94	70-130	6	20	
Vinyl Acetate	9.0		ug/L	10.0		90	70-130	4	20	
Vinyl Chloride	9.1		ug/L	10.0		91	70-130	6	20	
Xylene O	9.6		ug/L	10.0		96	70-130	6	20	
Xylene P,M	19.3		ug/L	20.0		96	70-130	6	20	
Surrogate: 1,2-Dichloroethane-d4	*25.2*		ug/L	*25.0*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.1*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*25.0*		ug/L	*25.0*		*100*	*70-130*			
Surrogate: Toluene-d8	*24.2*		ug/L	*25.0*		*97*	*70-130*			
8270C Polynuclear Aromatic Hydrocarbons										
Batch BF62824 - 3541										
Blank										
1-Methylnaphthalene	ND	500	ug/Kg wet							
2-Methylnaphthalene	ND	500	ug/Kg wet							
Acenaphthene	ND	500	ug/Kg wet							
Acenaphthylene	ND	500	ug/Kg wet							

Volatile Organics Calibration Data

ANALYSIS SEQUENCE

BPF0103

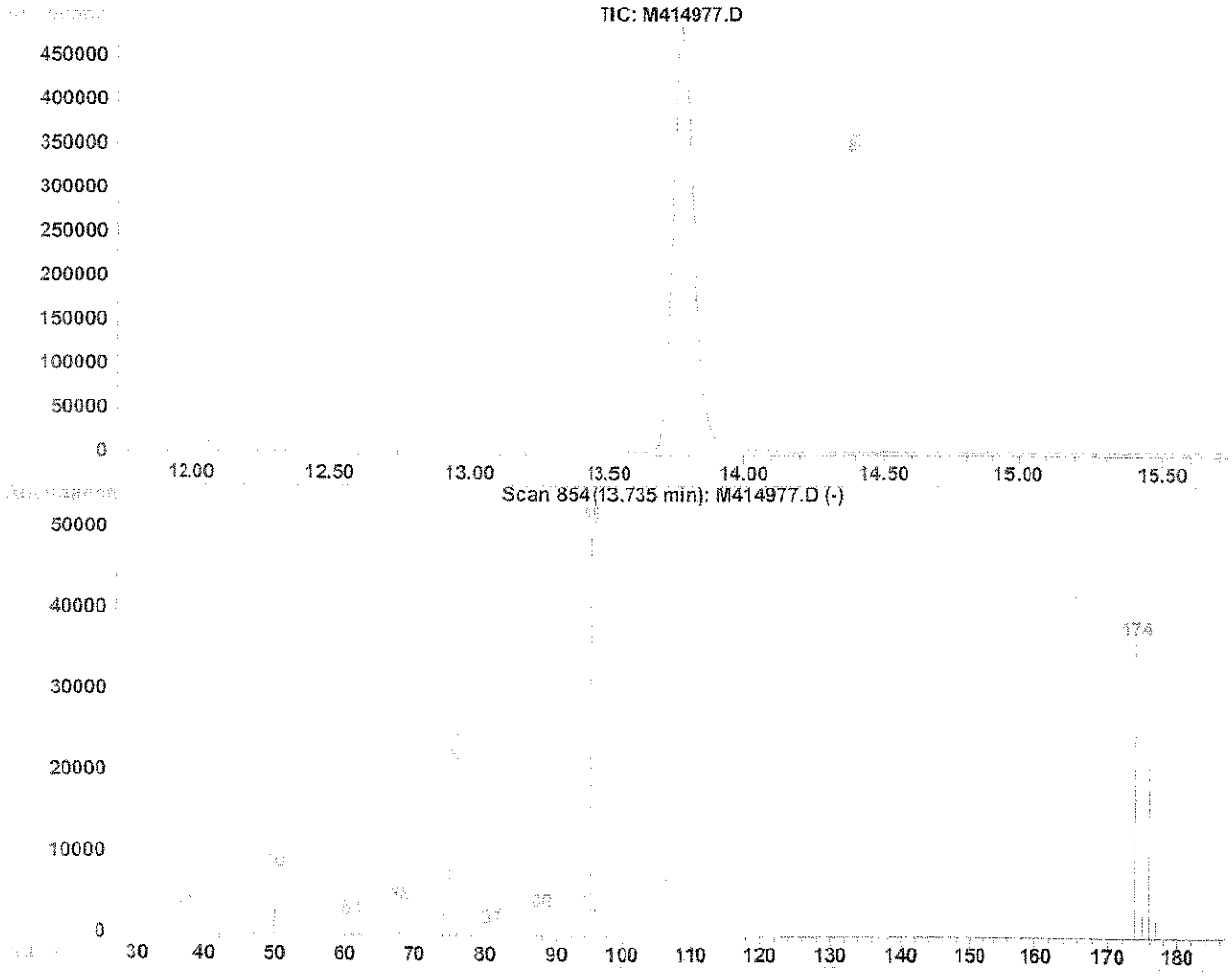
Instrument: VMS4

Calibration ID: 0605011

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0103-TUN1	QC		1		6F13060		
BPF0103-CAL1	QC		2		6F13063	6E24035	
BPF0103-CAL2	QC		3		6F13064	6E24035	
BPF0103-CAL3	QC		4		6F13065	6E24035	
BPF0103-CAL4	QC		5		6F13066	6E24035	
BPF0103-CAL5	QC		6		6F13067	6E24035	
BPF0103-CAL6	QC		7		6F13068	6E24035	
BPF0103-CAL7	QC		8		6F13069	6E24035	
BPF0103-SCV1	QC		9		6F13070	6E24035	

Samples Loaded By Date Data Processed By Date

Data File : Q:/VOA/MS4_MH/MH0606/MH061306\M414977.D Vial: 1
Acq On : 13 Jun 2006 9:37 am Operator: MD
Sample : BPF0103-TUN1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\AQ050906.M (RTE Integrator)
Title : Element ID: 0605011



Spectrum Information: Scan 854

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.2	7618	PASS
75	95	30	60	41.1	20672	PASS
95	95	100	100	100.0	50277	PASS
96	95	5	9	7.7	3859	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	72.5	36456	PASS
175	174	5	9	7.3	2651	PASS
176	174	95	101	95.1	34656	PASS
177	176	5	9	6.5	2257	PASS

Response Factor Report VOA_MS4

Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)
Title : Element ID: 0605011
Last Update : Tue Jun 13 14:28:50 2006
Response via : Initial Calibration

Calibration Files
25 =M414978.D 10 =M414979.D 5 =M414980.D
1 =M414981.D 50 =M414983.D 100 =M414984.D

		Compound	25	10	5	1	50	100	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluoromet	0.300	0.306	0.313	0.324	0.296	0.296	0.306	3.58
3)		Chloromethane	0.156	0.156	0.163	0.168	0.167	0.197	0.168	9.19
4)		Vinyl Chloride	0.157	0.158	0.164	0.166	0.157	0.158	0.160	2.47
5)		Bromomethane	0.193	0.177	0.182	0.180	0.189	0.160	0.180	6.42
6)		Chloroethane	0.095	0.095	0.099	0.103	0.091	0.084	0.094	6.99
7)		Trichlorofluorometh	0.519	0.525	0.544	0.543	0.516	0.525	0.529	2.28
8)		Diethyl ether	0.097	0.093	0.096	0.097	0.106	0.095	0.097	4.41
9)		Acrolein	0.015	0.015	0.016		0.015	0.015	0.015	3.09
10)		1,1,2-Trichloro-1,2	0.558	0.567	0.580	0.600	0.538	0.531	0.562	4.56
11)		Acetone	0.006	0.006	0.005	0.005	0.006	0.006	0.006	3.78
12)		Iodomethane	0.486	0.515	0.504	0.471	0.449	0.360	0.464	12.09
13)		Carbon Disulfide	0.647	0.662	0.697	0.722	0.654	0.666	0.674	4.33
14)		1,1-Dichloroethene	0.259	0.273	0.281	0.272	0.254	0.251	0.265	4.54
15)		Allyl Chloride	0.248	0.261	0.272	0.279	0.233	0.204	0.249	11.07
16)		Methyl Acetate	0.070	0.077	0.082	0.074	0.070	0.073	0.074	5.77
17)		Methylene Chloride	0.253	0.258	0.277		0.255	0.262	0.261	3.69
18)		Methyl tert-Butyl E	0.367	0.379	0.391	0.393	0.368	0.364	0.377	3.34
19)		Acrylonitrile	0.026	0.027	0.027		0.027	0.028	0.027	2.06
20)		trans-1,2-Dichloroe	0.302	0.306	0.316	0.309	0.303	0.307	0.307	1.61
21)		1,1-Dichloroethane	0.441	0.445	0.466	0.470	0.443	0.455	0.453	2.77
22)		Chloroprene	0.255	0.255	0.263	0.266	0.258	0.263	0.260	1.89
23)		Vinyl Acetate	0.589	0.604	0.625	0.629	0.595	0.601	0.607	2.69
24)		Di-isopropyl ether	0.676	0.684	0.710	0.710	0.682	0.694	0.693	2.10
25)		Ethyl tertiary-buty	0.577	0.585	0.608	0.593	0.584	0.601	0.591	2.00
26)		2-Butanone	0.009	0.009	0.009	0.006	0.009	0.009	0.008	12.75
27)		cis-1,2 Dichloroeth	0.315	0.317	0.327	0.331	0.317	0.325	0.322	2.01
28)		2,2-Dichloropropane	0.347	0.360	0.370	0.394	0.316	0.319	0.351	8.60
29)		Methyl Acrylate	0.114	0.114	0.120	0.109	0.118	0.120	0.116	3.78
30)		Methacrylonitrile	0.065	0.070	0.075	0.062	0.065	0.068	0.067	6.56
31)		Bromochloromethane	0.228	0.232	0.240	0.236	0.217	0.215	0.228	4.49
32)		Tetrahydrofuran	0.027	0.027	0.025		0.028	0.026	0.027	3.97
33)		Chloroform	0.562	0.566	0.587	0.591	0.568	0.585	0.576	2.15
34)		1,1,1-Trichloroetha	0.513	0.524	0.538	0.542	0.521	0.532	0.528	2.06
35)	S	Dibromofluoromethan	0.710	0.721	0.754	0.762	0.721	0.732	0.733	2.78
36)		Cyclohexane	0.277	0.288	0.278	0.275	0.265	0.258	0.273	3.93
37)		1-Chlorobutane	0.372	0.379	0.413	0.427	0.391	0.396	0.396	5.26
38)		1,1-Dichloropropene	0.358	0.365	0.378	0.377	0.359	0.362	0.366	2.35
39)		Carbon Tetrachlorid	0.530	0.536	0.558	0.577	0.537	0.543	0.547	3.16
40)		Benzene	0.685	0.695	0.718	0.731	0.698	0.708	0.706	2.38
41)	S	1,2-Dichloroethane-	0.215	0.214	0.220	0.214	0.220	0.225	0.218	1.99
42)		1,2-Dichloroethane	0.234	0.231	0.237	0.234	0.241	0.246	0.237	2.29
43)		Tertiary-amyl methy	0.488	0.493	0.513	0.516	0.504	0.516	0.505	2.42
44)		Trichloroethene	0.390	0.391	0.402	0.403	0.392	0.397	0.396	1.39

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)
Title : Element ID: 0605011
Last Update : Tue Jun 13 14:28:50 2006
Response via : Initial Calibration

Calibration Files
25 =M414978.D 10 =M414979.D 5 =M414980.D
1 =M414981.D 50 =M414983.D 100 =M414984.D

		Compound	25	10	5	1	50	100	Avg	%RSD
45)		Methyl Cyclohexane	0.300	0.304	0.313	0.316	0.300	0.298	0.305	2.55
46)		1,2-Dichloropropane	0.284	0.285	0.295	0.293	0.289	0.292	0.290	1.52
47)		Dibromomethane	0.291	0.292	0.304	0.291	0.293	0.292	0.294	1.66
48)		1,4-Dioxane	0.000	0.002	0.002	0.003	0.000	0.001	0.001	90.49
49)		Methyl Methacrylate	0.120	0.122	0.125	0.124	0.121	0.124	0.123	1.83
50)		Bromodichloromethan	0.573	0.572	0.581	0.586	0.576	0.587	0.579	1.11
51)		2-Nitropropane	0.027	0.030	0.032		0.026	0.027	0.029	7.78
52)		2-Chloroethyl vinyl	0.041	0.050	0.048	0.048			0.047	8.41
53)		4-Methyl-2-Pentanon	0.049	0.049	0.050	0.047	0.050	0.050	0.049	2.32
54)		cis-1,3-Dichloropro	0.425	0.423	0.437	0.416	0.431	0.440	0.422	4.64
55)		Toluene	0.525	0.523	0.537	0.551	0.533	0.542	0.535	1.98
56)		trans-1,3-Dichlorop	0.331	0.329	0.333	0.312	0.338	0.347	0.326	5.72
57)		1,1,2-Trichloroetha	0.211	0.212	0.220	0.209	0.216	0.216	0.214	1.95
58)	I	Chlorobenzene-d5	----------			ISTD	----------			
59)	S	Toluene-d8 (SURR)	1.009	1.013	1.047	1.043	1.036	1.066	1.036	2.09
60)		2-Hexanone	0.086	0.086	0.086	0.080	0.089	0.091	0.086	4.51
61)		Ethyl Methacrylate	0.276	0.284	0.289	0.290	0.292	0.298	0.288	2.59
62)		1,3-Dichloropropane	0.395	0.396	0.406	0.398	0.411	0.422	0.405	2.61
63)		Tetrachloroethene	0.433	0.435	0.445	0.462	0.439	0.449	0.444	2.45
64)		Dibromochloromethan	0.696	0.692	0.695	0.698	0.719	0.742	0.699	3.93
65)		1,2-Dibromoethane	0.489	0.486	0.496	0.489	0.507	0.518	0.497	2.51
66)		1-Chlorohexane	0.430	0.432	0.448	0.362	0.441	0.446	0.426	7.61
67)		Chlorobenzene	0.897	0.897	0.924	0.947	0.918	0.939	0.920	2.26
68)		1,1,1,2-Tetrachloro	0.515	0.529	0.549	0.650	0.522	0.537	0.550	9.13
69)		Ethylbenzene	1.210	1.210	1.241	1.307	1.233	1.269	1.245	3.02
70)		Xylene P,M	0.496	0.494	0.510	0.509	0.505	0.515	0.505	1.64
71)		Xylene O	0.477	0.488	0.500	0.493	0.490	0.499	0.491	1.70
72)		Styrene	0.841	0.834	0.853	0.832	0.860	0.881	0.850	2.18
73)		Bromoform	0.443	0.432	0.437	0.426	0.460	0.478	0.446	4.37
74)		cis-1,4-Dichloro-2-	0.090	0.085	0.083	0.076	0.087	0.087	0.085	6.06
75)	S	Bromofluorobenzene	0.697	0.699	0.714	0.731	0.707	0.723	0.712	1.89
76)	I	1,4 Dichlorobenzene-D	----------			ISTD	----------			
77)		Isopropylbenzene	2.358	2.369	2.425	2.472	2.429	2.503	2.426	2.32
78)		Trans-1,4-Dichloro-	0.108	0.103	0.094		0.115	0.122	0.108	10.05
79)		1,2,3-Trichloroprop	0.531	0.520	0.546	0.583	0.561	0.578	0.553	4.57
80)		Bromobenzene	0.888	0.888	0.904	0.919	0.918	0.947	0.911	2.48
81)		1,1,2,2-Tetrachloro	0.680	0.684	0.700	0.772	0.711	0.726	0.722	5.52
82)		n-Propylbenzene	2.811	2.818	2.871	3.027	3.037	3.075	2.940	4.07
83)		2-Chlorotoluene	1.419	1.720	1.755	1.704	1.613	1.706	1.653	7.49
84)		4-Chlorotoluene	2.080	2.124	2.159	2.334	2.134	2.188	2.170	4.06
85)		1,3,5-Trimethylbenz	1.926	1.976	2.011	2.045	1.984	2.034	1.996	2.19
86)		Pentachloroethane	2.671	2.695	2.789	2.968	2.727	2.769	2.770	3.85
87)		tert-Butylbenzene	2.671	2.695	2.789	2.968	2.727	2.769	2.770	3.85

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)
Title : Element ID: 0605011
Last Update : Tue Jun 13 14:28:50 2006
Response via : Initial Calibration

Calibration Files
25 =M414978.D 10 =M414979.D 5 =M414980.D
1 =M414981.D 50 =M414983.D 100 =M414984.D

	Compound	25	10	5	1	50	100	Avg	%RSD
88)	1,2,4-Trimethylbenz	1.997	2.017	2.064	2.123	2.056	2.125	2.064	2.56
89)	sec-Butylbenzene	2.596	2.615	2.677	2.793	2.658	2.755	2.682	2.90
90)	1,3 Dichlorobenzene	1.476	1.479	1.520	1.604	1.506	1.560	1.524	3.26
91)	4-Isopropyltoluene	2.137	2.163	2.245	2.367	2.180	2.226	2.220	3.72
92)	1,4 Dichlorobenzene	1.524	1.542	1.601	1.701	1.566	1.604	1.589	3.95
93)	n-Butylbenzene	1.784	1.815	1.823	1.838	1.825	1.876	1.827	1.65
94)	1,2 Dichlorobenzene	1.307	1.339	1.374	1.444	1.340	1.382	1.364	3.47
95)	Hexachloroethane	0.858	0.853	0.868	0.898	0.885	0.921	0.881	2.95
96)	1,2-Dibromo-3-Chlor	0.103	0.100	0.098	0.072	0.111	0.114	0.100	14.74
97)	1,2,4-Trichlorobenz	0.993	1.022	1.045	1.101	1.025	1.060	1.041	3.57
98)	Hexachlorobutadiene	0.429	0.456	0.468	0.516	0.445	0.456	0.466	6.22
99)	Naphthalene	1.098	1.132	1.160	1.301	1.168	1.209	1.178	6.02
100)	1,2,3-Trichlorobenz	0.768	0.821	0.824	0.918	0.801	0.827	0.827	6.05

(#) = Out of Range ### Number of calibration levels exceeded format ###
AQ061306.M Tue Jun 13 14:29:09 2006 MS4 Page 3

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH061306\M414986.D Vial: 10
Acq On : 13 Jun 2006 2:07 pm Operator: MD
Sample : BPF0103-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)
Title : Element ID: 0605011
Last Update : Tue Jun 13 14:28:50 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43		Tertiary-amyl methyl ether	0.505	0.478	5.3	103	0.00
44		Trichloroethene	0.396	0.376	5.1	102	0.00
45		Methyl Cyclohexane	0.305	0.293	3.9	103	0.00
46		1,2-Dichloropropane	0.290	0.269	7.2	100	0.00
47		Dibromomethane	0.294	0.286	2.7	104	0.00
48		1,4-Dioxane	0.001	0.002	-100.0#	116	0.00
49		Methyl Methacrylate	0.123	0.114	7.3	99	0.00
50		Bromodichloromethane	0.579	0.573	1.0	106	0.00
51		2-Nitropropane	0.029	0.025	13.8	89	0.01
52		2-Chloroethyl vinyl ether	0.047	0.008	83.0#	17#	0.01
53		4-Methyl-2-Pentanone	0.049	0.046	6.1	101	0.00
54		cis-1,3-Dichloropropene	0.422	0.387	8.3	97	0.00
55		Toluene	0.535	0.513	4.1	104	0.00
56		trans-1,3-Dichloropropene	0.326	0.280	14.1	91	0.00
57		1,1,2-Trichloroethane	0.214	0.202	5.6	101	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00
59	S	Toluene-d8 (SURR)	1.036	2.578	-148.8#	269#	0.00
60		2-Hexanone	0.086	0.078	9.3	97	0.00
61		Ethyl Methacrylate	0.288	0.258	10.4	96	0.00
62		1,3-Dichloropropane	0.405	0.381	5.9	102	0.00
63		Tetrachloroethene	0.444	0.418	5.9	102	0.00
64		Dibromochloromethane	0.699	0.667	4.6	102	0.00
65		1,2-Dibromoethane	0.497	0.460	7.4	100	0.00
66		1-Chlorohexane	0.426	0.424	0.5	104	0.00
67		Chlorobenzene	0.920	0.861	6.4	102	0.00
68		1,1,1,2-Tetrachloroethane	0.550	0.499	9.3	100	0.00
69		Ethylbenzene	1.245	1.201	3.5	105	0.00
70		Xylene P,M	0.505	0.496	1.8	106	0.00
71		Xylene O	0.491	0.480	2.2	104	0.00
72		Styrene	0.850	0.828	2.6	105	0.00
73		Bromoform	0.446	0.411	7.8	101	0.00
74		cis-1,4-Dichloro-2-butene	0.085	0.000	100.0#	0#	-13.73#
75	S	Bromofluorobenzene (SURR)	0.712	1.749	-145.6#	265#	0.00
76	I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	106	0.00
77		Isopropylbenzene	2.426	2.152	11.3	96	0.00
78		Trans-1,4-Dichloro-2-Butene	0.108	0.086	20.4	89	0.00
79		1,2,3-Trichloropropane	0.553	0.469	15.2	96	0.00
80		Bromobenzene	0.911	0.886	2.7	106	0.00
81		1,1,2,2-Tetrachloroethane	0.722	0.638	11.6	99	0.00
82		n-Propylbenzene	2.940	2.918	0.7	110	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH061306\M414986.D
Acq On : 13 Jun 2006 2:07 pm
Sample : BPF0103-SCV1
Misc :
MS Integration Params: rteint.p

Vial: 10
Operator: MD
Inst : VOA_MS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)
Title : Element ID: 0605011
Last Update : Tue Jun 13 14:28:50 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	2-Chlorotoluene	1.653	1.543	6.7	95	0.00
84	4-Chlorotoluene	2.170	2.053	5.4	103	0.00
85	1,3,5-Trimethylbenzene	1.996	1.934	3.1	104	0.00
86	Pentachloroethane	2.770	2.659	4.0	105	0.00
87	tert-Butylbenzene	2.770	2.659	4.0	105	0.00
88	1,2,4-Trimethylbenzene	2.064	2.001	3.1	105	0.00
89	sec-Butylbenzene	2.682	2.586	3.6	105	0.00
90	1,3 Dichlorobenzene	1.524	1.386	9.1	100	0.00
91	4-Isopropyltoluene	2.220	2.130	4.1	105	0.00
92	1,4 Dichlorobenzene	1.589	1.453	8.6	100	0.00
93	n-Butylbenzene	1.827	1.825	0.1	107	0.00
94	1,2 Dichlorobenzene	1.364	1.285	5.8	102	0.00
95	Hexachloroethane	0.881	0.836	5.1	104	0.00
96	1,2-Dibromo-3-Chloropropane	0.100	0.091	9.0	96	0.00
97	1,2,4-Trichlorobenzene	1.041	1.004	3.6	104	0.00
98	Hexachlorobutadiene	0.466	0.465	0.2	108	0.00
99	Naphthalene	1.178	1.030	12.6	97	0.00
100	1,2,3-Trichlorobenzene	0.827	0.807	2.4	104	0.00

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH061306\M414986.D Vial: 10
Acq On : 13 Jun 2006 2:07 pm Operator: MD
Sample : BPF0103-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 14:31 19106 Quant Results File: AQ061306.RES

Quant Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)
Title : Element ID: 0605011
Last Update : Tue Jun 13 14:28:50 2006
Response via : Initial Calibration
DataAcq Meth : AQ050906

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	6.25	96	4289610	25.00	ug/l		0.00
58) Chlorobenzene-d5	11.56	117	3714124	25.00	ug/l		0.00
76) 1,4 Dichlorobenzene-D4	15.97	152	2078173	25.00	ug/l		0.00
System Monitoring Compounds							
35) Dibromofluoromethane(SURR)	5.16	111	3107678	24.70	ug/l		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 98.80%				
41) 1,2-Dichloroethane-d4(SURR	5.67	65	884641	23.66	ug/l		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 94.64%				
59) Toluene-d8 (SURR)	8.99	98	3829680	24.89	ug/l		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 99.56%				
75) Bromofluorobenzene (SURR)	13.78	95	2598332	24.58	ug/l		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 98.32%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.22	85	533225	10.16	ug/l		100
3) Chloromethane	1.37	50	256447	8.91	ug/l		100
4) Vinyl Chloride	1.41	62	266090	9.71	ug/l		99
5) Bromomethane	1.64	94	307804	9.96	ug/l		95
6) Chloroethane	1.73	64	162329	10.01	ug/l		98
7) Trichlorofluoromethane	1.90	101	823362	9.08	ug/l		100
8) Diethyl ether	2.14	59	151019	9.04	ug/l		100
9) Acrolein	2.25	56	15833	6.07	ug/l		97
10) 1,1,2-Trichloro-1,2,2-trif	2.34	101	883214	9.15	ug/l		99
11) Acetone	2.38	58	40173	42.47	ug/l		94
12) Iodomethane	2.45	142	915882	11.50	ug/l		99
13) Carbon Disulfide	2.50	76	1114279	9.63	ug/l		100
14) 1,1-Dichloroethene	2.32	96	455613	10.02	ug/l		93
15) Allyl Chloride	2.65	41	389246	9.10	ug/l		97
16) Methyl Acetate	2.68	43	125190	9.82	ug/l		94
17) Methylene Chloride	2.78	84	462845	10.33	ug/l		100
18) Methyl tert-Butyl Ether	3.08	73	612126	9.47	ug/l		99
19) Acrylonitrile	3.03	53	42329	9.16	ug/l		93
20) trans-1,2-Dichloroethene	3.05	96	515455	9.77	ug/l		97
21) 1,1-Dichloroethane	3.56	63	734063	9.44	ug/l		99
22) Chloroprene	3.69	53	8317	0.19	ug/l	#	1
23) Vinyl Acetate	3.67	43	960168	9.21	ug/l		98
24) Di-isopropyl ether	3.70	45	1133702	9.54	ug/l		96
25) Ethyl tertiary-butyl ether	4.23	59	921359	9.08	ug/l		99
26) 2-Butanone	4.45	72	64908	45.06	ug/l		97
27) cis-1,2 Dichloroethene	4.39	96	562917	10.19	ug/l		99
28) 2,2-Dichloropropane	4.37	77	547490	9.09	ug/l		99

(#) = qualifier out of range (m) = manual integration

Data File : Q:/VOA/MS4_MH/MH0606/MH061306\M414986.D Vial: 10
Acq On : 13 Jun 2006 2:07 pm Operator: MD
Sample : BPF0103-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 14:31 19106 Quant Results File: AQ061306.RES

Quant Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)
Title : Element ID: 0605011
Last Update : Tue Jun 13 14:28:50 2006
Response via : Initial Calibration
DataAcq Meth : AQ050906

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) Methyl Acrylate	4.61	55	175987	8.84 ug/l	99
30) Methacrylonitrile	4.78	41	109452	9.45 ug/l	97
31) Bromochloromethane	4.75	128	378753	9.68 ug/l	98
32) Tetrahydrofuran	4.84	42	38965	8.55 ug/l	97
33) Chloroform	4.91	83	943253	9.54 ug/l	100
34) 1,1,1-Trichloroethane	5.16	97	856246	9.44 ug/l	99
36) Cyclohexane	5.22	56	457689	9.75 ug/l	98
37) 1-Chlorobutane	5.36	56	661018	9.72 ug/l	100
38) 1,1-Dichloropropene	5.43	75	594443	9.45 ug/l	99
39) Carbon Tetrachloride	5.42	117	894478	9.53 ug/l	99
40) Benzene	5.76	78	1163016	9.61 ug/l	100
42) 1,2-Dichloroethane	5.80	62	368641	9.06 ug/l	99
43) Tertiary-amyl methyl ether	6.01	73	819899	9.46 ug/l	99
44) Trichloroethene	6.86	95	644664	9.49 ug/l	99
45) Methyl Cyclohexane	7.14	83	503490	9.62 ug/l	97
46) 1,2-Dichloropropane	7.23	63	461869	9.29 ug/l	99
47) Dibromomethane	7.41	93	491424	9.74 ug/l	97
48) 1,4-Dioxane	7.51	88	62807	288.73 ug/l	98
49) Methyl Methacrylate	7.56	41	195063	9.27 ug/l	97
50) Bromodichloromethane	7.74	83	983098	9.89 ug/l	99
51) 2-Nitropropane	8.17	43	42992	8.79 ug/l	98
52) 2-Chloroethyl vinyl ether	8.36	63	68835	8.62 ug/l	95
53) 4-Methyl-2-Pentanone	8.88	58	395400	46.94 ug/l	93
54) cis-1,3-Dichloropropene	8.54	75	664453	9.18 ug/l	99
55) Toluene	9.11	92	880585	9.60 ug/l	99
56) trans-1,3-Dichloropropene	9.57	75	480452	8.59 ug/l	99
57) 1,1,2-Trichloroethane	9.87	83	346184	9.42 ug/l	99
60) 2-Hexanone	10.40	43	581962	45.35 ug/l	98
61) Ethyl Methacrylate	9.82	69	383697	8.96 ug/l	94
62) 1,3-Dichloropropane	10.13	76	565621	9.41 ug/l	97
63) Tetrachloroethene	10.04	164	621492	9.43 ug/l	98
64) Dibromochloromethane	10.52	129	990662	9.54 ug/l	99
65) 1,2-Dibromoethane	10.67	107	683199	9.25 ug/l	100
66) 1-Chlorohexane	11.68	91	630197	9.95 ug/l	99
67) Chlorobenzene	11.61	112	1278956	9.36 ug/l	98
68) 1,1,1,2-Tetrachloroethane	11.80	131	741445	9.07 ug/l	100
69) Ethylbenzene	11.87	91	1784599	9.65 ug/l	99
70) Xylene P,M	12.10	106	1473177	19.64 ug/l	99
71) Xylene O	12.81	106	712436	9.76 ug/l	100
72) Styrene	12.86	104	1230268	9.74 ug/l	99
73) Bromoform	13.12	173	610269	9.21 ug/l	99
77) Isopropylbenzene	13.53	105	1788932	8.87 ug/l	100

(#) = qualifier out of range (m) = manual integration

Data File : Q:/VOA/MS4_MH/MH0606/MH061306\M414986.D Vial: 10
Acq On : 13 Jun 2006 2:07 pm Operator: MD
Sample : BPF0103-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 14:31 19106 Quant Results File: AQ061306.RES

Quant Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)
Title : Element ID: 0605011
Last Update : Tue Jun 13 14:28:50 2006
Response via : Initial Calibration
DataAcq Meth : AQ050906

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78)	Trans-1,4-Dichloro-2-Buten	14.26	53	71305	7.91 ug/l	91
79)	1,2,3-Trichloropropane	14.17	75	389509	8.47 ug/l	99
80)	Bromobenzene	14.00	156	736525	9.73 ug/l	97
81)	1,1,2,2-Tetrachloroethane	14.15	83	530534	8.84 ug/l	98
82)	n-Propylbenzene	14.32	91	2425660	9.93 ug/l	99
83)	2-Chlorotoluene	14.40	91	1282446	9.33 ug/l	96
84)	4-Chlorotoluene	14.63	91	1706760	9.46 ug/l	99
85)	1,3,5-Trimethylbenzene	14.69	105	1607933	9.69 ug/l	99
86)	Pentachloroethane	15.27	119	2210417	9.60 ug/l	99
87)	tert-Butylbenzene	15.27	119	2210417	9.60 ug/l	100
88)	1,2,4-Trimethylbenzene	15.37	105	1663724	9.70 ug/l	100
89)	sec-Butylbenzene	15.70	105	2149839	9.64 ug/l	99
90)	1,3 Dichlorobenzene	15.83	146	1152493	9.10 ug/l	99
91)	4-Isopropyltoluene	16.01	119	1770365	9.59 ug/l	99
92)	1,4 Dichlorobenzene	16.01	146	1208167	9.14 ug/l	99
93)	n-Butylbenzene	16.80	91	1517354	9.99 ug/l	99
94)	1,2 Dichlorobenzene	16.70	146	1067960	9.42 ug/l	99
95)	Hexachloroethane	17.17	117	695204	9.50 ug/l	99
96)	1,2-Dibromo-3-Chloropropan	18.24	75	75630	9.12 ug/l	91
97)	1,2,4-Trichlorobenzene	20.15	180	834386	9.64 ug/l	99
98)	Hexachlorobutadiene	20.57	225	386613	9.99 ug/l	99
99)	Naphthalene	20.61	128	856154	8.74 ug/l	100
100)	1,2,3-Trichlorobenzene	21.01	180	670452	9.76 ug/l	96

(#) = qualifier out of range (m) = manual integration

ANALYSIS SEQUENCE

BPF0233

Instrument: VMS4

Calibnration ID: 0606016

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0233-TUN1	QC		1		6F28048	6F22041	
BPF0233-CCV1	QC		2		6F28049	6F22041	
BF62823-BS1	QC		3			6F22041	
BF62823-BSD1	QC		4			6F22041	
BF62823-BLK1	QC		5			6F22041	
0606346-13	VOC: x8260 ppb VOA	F	6			6F22041	MACTEC Engineering & Consulting, In
0606346-14	VOC: x8260 ppb VOA	F	7			6F22041	MACTEC Engineering & Consulting, In
0606346-15	VOC: x8260 ppb VOA	G	8			6F22041	MACTEC Engineering & Consulting, In
0606383-16	TB: 8260 ppb VOA	A	9			6F22041	MACTEC Engineering & Consulting, In
0606375-01	VOC: 8260 ppb DoD VOA	G	10			6F22041	RC & D
0606383-15	VOC: x8260 ppb VOA	E	11			6F22041	MACTEC Engineering & Consulting, In
0606371-01	VOC: x8260 ppm VOA	F	12			6F22041	Vanasse Hangen Brustlin, Inc.
0606384-01	VOC: x8260 ppb VOA	C	13			6F22041	ESS Group, Inc. (RI)
0606349-08	VOC: x8260 ppb VOA	B	14			6F22041	Blackstone Consulting
0606349-10	VOC: x8260 ppb VOA	E	15			6F22041	Blackstone Consulting
0606363-01	OC: 624 ppb Stanley Short Li	A	16			6F22041	Stanley-Bostitch
0606363-01	VOC: 624 ppb VOA	A	17			6F22041	Stanley-Bostitch
0606359-04	TB: 624 ppb VOA	A	18			6F22041	Day-O-Lite Manufacturing
0606359-03	VOC: 624 ppb VOA	B	19			6F22041	Day-O-Lite Manufacturing
0606348-03	TB: 624 ppb VOA	A	20			6F22041	New England Gas Company, Inc.
0606348-02	TB: 624 ppb VOA	H	21			6F22041	New England Gas Company, Inc.
0606348-02	TB: 8260 ppb VOA	H	22			6F22041	New England Gas Company, Inc.
0606348-02	OC: 624 ppb Stanley Short Li	H	23			6F22041	New England Gas Company, Inc.
0606348-02	VOC: 624 ppb VOA	H	24			6F22041	New England Gas Company, Inc.
0606348-02	VOC: 8260 ppb DoD VOA	H	25			6F22041	New England Gas Company, Inc.
0606348-02	VOC: x8260 ppb VOA	H	26			6F22041	New England Gas Company, Inc.
0606348-02	VOC: x8260 ppm VOA	H	27			6F22041	New England Gas Company, Inc.
BF62823-MS1	QC		28			6F22041	
BF62823-MSD1	QC		29			6F22041	
0606349-07	VOC: x8260 ppb VOA	F	30			6F22041	Blackstone Consulting
0606349-14	VOC: x8260 ppb VOA	F	31			6F22041	Blackstone Consulting
0606385-03	VOC: x8260 ppb VOA	B	32			6F22041	Alliance Environmental Group
0606385-02	VOC: x8260 ppb VOA	B	33			6F22041	Alliance Environmental Group

Samples Loaded By Date Data Processed By Date

ANALYSIS SEQUENCE

BPF0233

Instrument: VMS4

Calibnration ID: 0606016

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606385-01	VOC: x8260 ppb VOA	B	34			6F22041	Alliance Environmental Group

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/28/06	13	M4 15224	0606346-01	AQ061306	pH 2	mo
	14	M4 25	-02			
	15	M4 26	-03			
	16	M4 27	-05			
	17	M4 28	-06			
	18	M4 29	-07			
	19	M4 30	-08			
	20	M4 31	-09			
	21	M4 32	-10			
	22	M4 33	-11			
	23	M4 34	-12			577
	24	M4 35	BF62822-MS1		6F12081 10ml/10ml 0606346-02	
	25	M4 36	BF62822-MSD1		6F12081 10ml/10ml 0606346-02	
	26	M4 37	BLF0233-TLM		6F28048	
	27	M4 38	BLF0233-CCV1		6F28019	
	28	M4 39	BF62823-BS1		6F12081 2ml/5ml	
6/29/06	29	M4 40	BF62823-BSD1	AQ061306	6F12081 2ml/5ml	mo

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: 6F22039

On-column IS: 6F22041

Page_____

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/28/06	30	M4 15241	Test Blk B. [illegible]	AQ06130b		ND
	31	M4 42	bF62823-BLK1			
	32	M4 43	0606346-13		pH<2	
	33	M4 44	-14			
	34	M4 45	-15			
	35	M4 46	0606383-16			
	36	M4 47	0606375-01			
	37	M4 48	0606383-15			
	38	M4 49	0606371-01			
	39	M4 50	0606384-01			
	40	M4 51	0606349-08		100X	
	41	M4 52	-10			
	42	M4 53	-11			
	43	M4 54	-12			
	44	M4 55	-13			
	45	M4 56	-14		100X	
6/28/06	46	M4 57	0606385-01	AQ06130b	pH<2	ND

578

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: bF27039

On-column IS: bF27041

Page____

680

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/28/06	47	M4 15258	0606385-02	AG06130b	pAc2	
	48	M4 59	-03			[illegible]
	49	M4 60	-04			
	50	M4 61	-05		TCE Blow out (run blks)	
	51	M4 62	0606359-04			
	~~52~~ 1	M4 63	0606348-03		[illegible] 6/29's run within 24hrs	
	2	M4 64	0606363-01			
	3	M4 65	0606359-03		[illegible]	
	4	M4 66	0606348-02			
	5	M4 67	BF62823- MS1			
6/28/06	C	M4 68	BF62823- MSD1	AG06130b	6F12081 / 4ul/10ml 0606348-02; 6F12081 4ul/10ml 0606348-02	
6/29/06	1	M4 69	BF10247- TVM		6F29056	[illegible]
	2	M4 70	BF10247- CCV1		6F29057	
	3	M4 71	BF62926- BS1		6F12081 20ul/50ml	
	4	M4 72	BF62926- BSD1		6F12081 20ul/50ml	
	5	M4 73	Test Blk			
6/29/06	6	M4 74	BF62926- BLK1	AG06130b		[illegible]

Run Sequence Confirmation ______________________

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

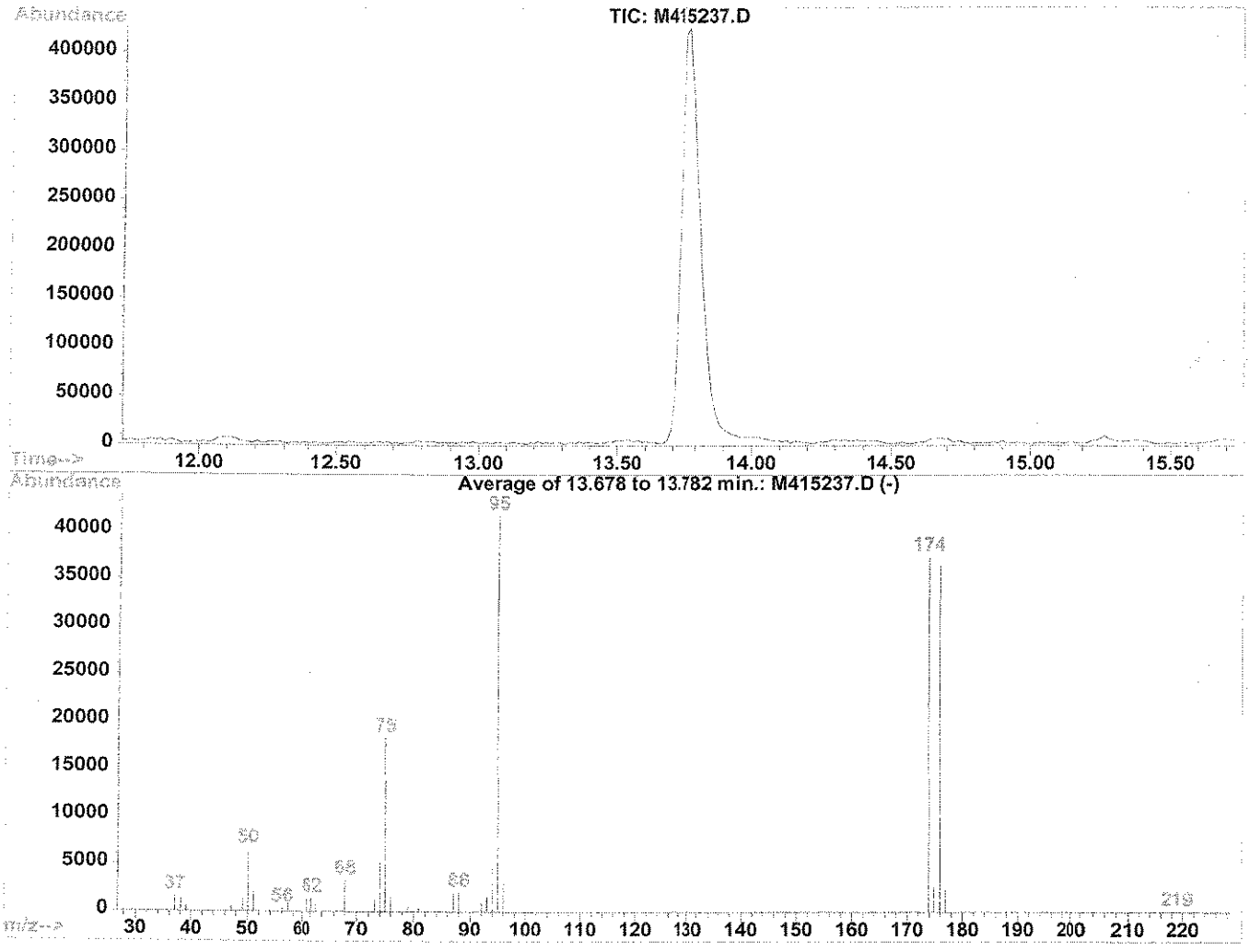
Surrogate: 6F22039

On-column IS: 6F22041

579

060

Data File : Q:/VOA/MS4_MH/MH0606/MH062806\M415237.D Vial: 26
Acq On : 28 Jun 2006 9:00 pm Operator: MD
Sample : BPF0233-TUN1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)
Title : Element ID: 0606016



Spectrum Information: Average of 13.678 to 13.782 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.6	6518	PASS
75	95	30	60	43.8	18288	PASS
95	95	100	100	100.0	41715	PASS
96	95	5	9	8.0	3325	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	89.5	37337	PASS
175	174	5	9	7.1	2651	PASS
176	174	95	101	97.7	36496	PASS
177	176	5	9	6.5	2390	PASS

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH062806\M415238.D Vial: 27
Acq On : 28 Jun 2006 9:29 pm Operator: MD
Sample : BPF0233-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)
Title : Element ID: 0606016
Last Update : Tue Jun 13 14:28:50 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	85	0.00
2		Dichlorodifluoromethane	0.306	0.281	8.2	80	0.00
3		Chloromethane	0.168	0.147	12.5	80	0.00
4		Vinyl Chloride	0.160	0.153	4.4	83	0.00
5		Bromomethane	0.180	0.185	-2.8	82	0.00
6		Chloroethane	0.094	0.092	2.1	82	0.00
7		Trichlorofluoromethane	0.529	0.540	-2.1	89	0.00
8		Diethyl ether	0.097	0.103	-6.2	90	-0.02
9		Acrolein	0.015	0.013	13.3	75	0.00
10		1,1,2-Trichloro-1,2,2-trifl	0.562	0.554	1.4	85	0.00
11		Acetone	0.006	0.006	0.0	84	0.00
12		Iodomethane	0.464	0.480	-3.4	84	0.00
13		Carbon Disulfide	0.674	0.628	6.8	83	0.00
14		1,1-Dichloroethene	0.265	0.263	0.8	87	0.00
15		Allyl Chloride	0.249	0.237	4.8	81	0.00
16		Methyl Acetate	0.074	0.068	8.1	83	0.00
17		Methylene Chloride	0.261	0.249	4.6	84	0.00
18		Methyl tert-Butyl Ether	0.377	0.374	0.8	87	0.00
19		Acrylonitrile	0.027	0.026	3.7	85	0.00
20		trans-1,2-Dichloroethene	0.307	0.306	0.3	86	0.00
21		1,1-Dichloroethane	0.453	0.440	2.9	85	-0.02
22		Chloroprene	0.260	0.260	0.0	87	0.00
23		Vinyl Acetate	0.607	0.548	9.7	79	0.00
24		Di-isopropyl ether	0.693	0.636	8.2	80	-0.02
25		Ethyl tertiary-butyl ether	0.591	0.572	3.2	85	0.00
26		2-Butanone	0.008	0.009	-12.5	87	0.00
27		cis-1,2 Dichloroethene	0.322	0.321	0.3	87	-0.02
28		2,2-Dichloropropane	0.351	0.322	8.3	79	0.00
29		Methyl Acrylate	0.116	0.114	1.7	85	0.00
30		Methacrylonitrile	0.067	0.068	-1.5	89	0.00
31		Bromochloromethane	0.228	0.237	-3.9	88	0.00
32		Tetrahydrofuran	0.027	0.026	3.7	80	-0.02
33		Chloroform	0.576	0.581	-0.9	88	-0.02
34		1,1,1-Trichloroethane	0.528	0.536	-1.5	89	0.00
35	S	Dibromofluoromethane(SURR)	0.733	0.735	-0.3	88	-0.02
36		Cyclohexane	0.273	0.234	14.3	72	0.00
37		1-Chlorobutane	0.396	0.390	1.5	89	0.00
38		1,1-Dichloropropene	0.366	0.364	0.5	87	0.00
39		Carbon Tetrachloride	0.547	0.553	-1.1	89	0.00
40		Benzene	0.706	0.684	3.1	85	0.00
41	S	1,2-Dichloroethane-d4(SURR)	0.218	0.228	-4.6	90	-0.02
42		1,2-Dichloroethane	0.237	0.250	-5.5	91	0.00

(#) = Out of Range

Data File : Q:/VOA/MS4_MH/MH0606/MH062806\M415238.D Vial: 27
Acq On : 28 Jun 2006 9:29 pm Operator: MD
Sample : BPF0233-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)
Title : Element ID: 0606016
Last Update : Tue Jun 13 14:28:50 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43		Tertiary-amyl methyl ether	0.505	0.493	2.4	86	0.00
44		Trichloroethene	0.396	0.400	-1.0	87	0.00
45		Methyl Cyclohexane	0.305	0.275	9.8	78	0.00
46		1,2-Dichloropropane	0.290	0.278	4.1	83	0.00
47		Dibromomethane	0.294	0.301	-2.4	88	0.00
48		1,4-Dioxane	0.001	0.000	100.0#	108	0.00
49		Methyl Methacrylate	0.123	0.117	4.9	83	0.00
50		Bromodichloromethane	0.579	0.596	-2.9	88	0.00
51		2-Nitropropane	0.029	0.029	0.0	90	0.00
52		2-Chloroethyl vinyl ether	0.047	0.024	48.9#	50#	0.00
53		4-Methyl-2-Pentanone	0.049	0.048	2.0	84	0.00
54		cis-1,3-Dichloropropene	0.422	0.422	0.0	85	0.00
55		Toluene	0.535	0.540	-0.9	88	0.00
56		trans-1,3-Dichloropropene	0.326	0.334	-2.5	86	0.00
57		1,1,2-Trichloroethane	0.214	0.213	0.5	86	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00
59	S	Toluene-d8 (SURR)	1.036	1.015	2.0	87	0.00
60		2-Hexanone	0.086	0.083	3.5	83	0.00
61		Ethyl Methacrylate	0.288	0.277	3.8	86	0.00
62		1,3-Dichloropropane	0.405	0.396	2.2	86	0.00
63		Tetrachloroethene	0.444	0.439	1.1	87	0.00
64		Dibromochloromethane	0.699	0.714	-2.1	88	0.00
65		1,2-Dibromoethane	0.497	0.501	-0.8	88	0.00
66		1-Chlorohexane	0.426	0.410	3.8	82	0.00
67		Chlorobenzene	0.920	0.919	0.1	88	0.00
68		1,1,1,2-Tetrachloroethane	0.550	0.531	3.5	89	0.00
69		Ethylbenzene	1.245	1.209	2.9	86	0.00
70		Xylene P,M	0.505	0.499	1.2	87	0.00
71		Xylene O	0.491	0.485	1.2	87	0.00
72		Styrene	0.850	0.848	0.2	87	0.00
73		Bromoform	0.446	0.461	-3.4	90	0.00
74		cis-1,4-Dichloro-2-butene	0.085	0.083	2.4	79	0.00
75	S	Bromofluorobenzene (SURR)	0.712	0.697	2.1	86	0.00
76	I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	85	0.00
77		Isopropylbenzene	2.426	2.322	4.3	84	0.00
78		Trans-1,4-Dichloro-2-Butene	0.108	0.109	-0.9	85	0.00
79		1,2,3-Trichloropropane	0.553	0.532	3.8	85	0.00
80		Bromobenzene	0.911	0.930	-2.1	89	0.00
81		1,1,2,2-Tetrachloroethane	0.722	0.699	3.2	88	0.00
82		n-Propylbenzene	2.940	2.720	7.5	82	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH062806\M415238.D Vial: 27
Acq On : 28 Jun 2006 9:29 pm Operator: MD
Sample : BPF0233-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)
Title : Element ID: 0606016
Last Update : Tue Jun 13 14:28:50 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	2-Chlorotoluene	1.653	1.429	13.6	86	0.00
84	4-Chlorotoluene	2.170	2.101	3.2	86	0.00
85	1,3,5-Trimethylbenzene	1.996	1.892	5.2	84	0.00
86	Pentachloroethane	2.770	2.645	4.5	84	0.00
87	tert-Butylbenzene	2.770	2.645	4.5	84	0.00
88	1,2,4-Trimethylbenzene	2.064	1.969	4.6	84	0.00
89	sec-Butylbenzene	2.682	2.480	7.5	81	0.00
90	1,3 Dichlorobenzene	1.524	1.491	2.2	86	0.00
91	4-Isopropyltoluene	2.220	2.081	6.3	83	0.00
92	1,4 Dichlorobenzene	1.589	1.548	2.6	87	0.00
93	n-Butylbenzene	1.827	1.672	8.5	80	0.00
94	1,2 Dichlorobenzene	1.364	1.339	1.8	87	0.00
95	Hexachloroethane	0.881	0.828	6.0	82	0.00
96	1,2-Dibromo-3-Chloropropane	0.100	0.109	-9.0	90	0.00
97	1,2,4-Trichlorobenzene	1.041	0.959	7.9	82	0.00
98	Hexachlorobutadiene	0.466	0.418	10.3	83	0.00
99	Naphthalene	1.178	1.042	11.5	81	0.00
100	1,2,3-Trichlorobenzene	0.827	0.761	8.0	84	0.00

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH062806\M415238.D Vial: 27
Acq On : 28 Jun 2006 9:29 pm Operator: MD
Sample : BPF0233-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 29 12:21 19106 Quant Results File: AQ061306.RES

Quant Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)
Title : Element ID: 0606016
Last Update : Tue Jun 13 14:28:50 2006
Response via : Initial Calibration
DataAcq Meth : AQ061306

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.23	96	3514956	25.00	ug/l	0.00
58) Chlorobenzene-d5	11.55	117	3103647	25.00	ug/l	0.00
76) 1,4 Dichlorobenzene-D4	15.97	152	1724184	25.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane(SURR)	5.15	111	2583121	25.05	ug/l	-0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 100.20%			
41) 1,2-Dichloroethane-d4(SURR	5.65	65	802732	26.20	ug/l	-0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 104.80%			
59) Toluene-d8 (SURR)	8.99	98	3150773	24.51	ug/l	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 98.04%			
75) Bromofluorobenzene (SURR)	13.77	95	2164543	24.50	ug/l	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 98.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.22	85	988146	22.99	ug/l	99
3) Chloromethane	1.37	50	516522	21.89	ug/l	99
4) Vinyl Chloride	1.41	62	538240	23.96	ug/l	99
5) Bromomethane	1.64	94	651987	25.74	ug/l	97
6) Chloroethane	1.71	64	322674	24.29	ug/l	100
7) Trichlorofluoromethane	1.90	101	1896704	25.51	ug/l	99
8) Diethyl ether	2.13	59	361486	26.42	ug/l	98
9) Acrolein	2.23	56	45022	21.07	ug/l	97
10) 1,1,2-Trichloro-1,2,2-trif	2.32	101	1947884	24.64	ug/l	97
11) Acetone	2.37	58	99393	128.23	ug/l	90
12) Iodomethane	2.45	142	1688245	25.86	ug/l	100
13) Carbon Disulfide	2.50	76	2207267	23.28	ug/l	100
14) 1,1-Dichloroethene	2.31	96	924725	24.82	ug/l	98
15) Allyl Chloride	2.65	41	833743	23.78	ug/l	90
16) Methyl Acetate	2.68	43	240415	23.01	ug/l	99
17) Methylene Chloride	2.77	84	875163	23.84	ug/l	97
18) Methyl tert-Butyl Ether	3.06	73	1314626	24.81	ug/l	97
19) Acrylonitrile	3.04	53	90898	24.01	ug/l	95
20) trans-1,2-Dichloroethene	3.05	96	1074278	24.86	ug/l	98
21) 1,1-Dichloroethane	3.54	63	1547629	24.28	ug/l	99
22) Chloroprene	3.67	53	914848	25.03	ug/l	99
23) Vinyl Acetate	3.66	43	1925718	22.55	ug/l	100
24) Di-isopropyl ether	3.69	45	2236164	22.96	ug/l	90
25) Ethyl tertiary-butyl ether	4.23	59	2011407	24.19	ug/l	98
26) 2-Butanone	4.45	72	160223	135.74	ug/l	87
27) cis-1,2 Dichloroethene	4.37	96	1129860	24.96	ug/l	99
28) 2,2-Dichloropropane	4.37	77	1131332	22.92	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH062806\M415238.D Vial: 27
Acq On : 28 Jun 2006 9:29 pm Operator: MD
Sample : BPF0233-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 29 12:21 19106 Quant Results File: AQ061306.RES

Quant Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)
Title : Element ID: 0606016
Last Update : Tue Jun 13 14:28:50 2006
Response via : Initial Calibration
DataAcq Meth : AQ061306

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29)	Methyl Acrylate	4.61	55	400335	24.55 ug/l	97
30)	Methacrylonitrile	4.76	41	237885	25.07 ug/l	98
31)	Bromochloromethane	4.75	128	831605	25.95 ug/l	95
32)	Tetrahydrofuran	4.81	42	90471	24.22 ug/l	97
33)	Chloroform	4.90	83	2040858	25.18 ug/l	99
34)	1,1,1-Trichloroethane	5.15	97	1882401	25.34 ug/l	99
36)	Cyclohexane	5.22	56	824099	21.43 ug/l	96
37)	1-Chlorobutane	5.34	56	1370733	24.61 ug/l	98
38)	1,1-Dichloropropene	5.42	75	1280262	24.85 ug/l	99
39)	Carbon Tetrachloride	5.40	117	1943578	25.28 ug/l	98
40)	Benzene	5.74	78	2403777	24.23 ug/l	100
42)	1,2-Dichloroethane	5.79	62	880276	26.39 ug/l	94
43)	Tertiary-amyl methyl ether	6.01	73	1733501	24.42 ug/l	99
44)	Trichloroethene	6.84	95	1406595	25.26 ug/l	98
45)	Methyl Cyclohexane	7.14	83	965866	22.51 ug/l	97
46)	1,2-Dichloropropane	7.22	63	976077	23.96 ug/l	98
47)	Dibromomethane	7.41	93	1056508	25.57 ug/l	97
48)	1,4-Dioxane	7.50	88	31024	174.05 ug/l	98
49)	Methyl Methacrylate	7.56	41	411649	23.87 ug/l	98
50)	Bromodichloromethane	7.74	83	2093171	25.70 ug/l	100
51)	2-Nitropropane	8.15	43	101652	25.35 ug/l	97
52)	2-Chloroethyl vinyl ether	8.35	63	420876	64.34 ug/l	99
53)	4-Methyl-2-Pentanone	8.87	58	842477	122.05 ug/l	97
54)	cis-1,3-Dichloropropene	8.53	75	1484864	25.02 ug/l	99
55)	Toluene	9.09	92	1897862	25.24 ug/l	100
56)	trans-1,3-Dichloropropene	9.55	75	1174990	25.64 ug/l	100
57)	1,1,2-Trichloroethane	9.85	83	750056	24.92 ug/l	99
60)	2-Hexanone	10.39	43	1292515	120.54 ug/l	97
61)	Ethyl Methacrylate	9.82	69	860927	24.05 ug/l	98
62)	1,3-Dichloropropane	10.13	76	1227644	24.44 ug/l	100
63)	Tetrachloroethene	10.04	164	1361083	24.70 ug/l	99
64)	Dibromochloromethane	10.52	129	2216465	25.54 ug/l	98
65)	1,2-Dibromoethane	10.67	107	1553596	25.16 ug/l	100
66)	1-Chlorohexane	11.68	91	1272173	24.03 ug/l	97
67)	Chlorobenzene	11.61	112	2850757	24.96 ug/l	99
68)	1,1,1,2-Tetrachloroethane	11.79	131	1648628	24.13 ug/l	99
69)	Ethylbenzene	11.86	91	3752096	24.28 ug/l	100
70)	Xylene P,M	12.10	106	3095466	49.38 ug/l	99
71)	Xylene O	12.81	106	1504242	24.66 ug/l	100
72)	Styrene	12.84	104	2630394	24.91 ug/l	100
73)	Bromoform	13.13	173	1431285	25.85 ug/l	95
74)	cis-1,4-Dichloro-2-butene	13.72	75	258763m	24.61 ug/l	

(#) = qualifier out of range (m) = manual integration

Data File : Q:/VOA/MS4_MH/MH0606/MH062806\M415238.D Vial: 27
Acq On : 28 Jun 2006 9:29 pm Operator: MD
Sample : BPF0233-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 29 12:21 19106 Quant Results File: AQ061306.RES

Quant Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)
Title : Element ID: 0606016
Last Update : Tue Jun 13 14:28:50 2006
Response via : Initial Calibration
DataAcq Meth : AQ061306

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77)	Isopropylbenzene	13.53	105	4003161	23.93 ug/l	100
78)	Trans-1,4-Dichloro-2-Buten	14.26	53	187416	25.05 ug/l	94
79)	1,2,3-Trichloropropane	14.17	75	917296	24.04 ug/l	99
80)	Bromobenzene	14.00	156	1604276	25.54 ug/l	97
81)	1,1,2,2-Tetrachloroethane	14.14	83	1205507	24.22 ug/l	98
82)	n-Propylbenzene	14.32	91	4690058	23.13 ug/l	100
83)	2-Chlorotoluene	14.39	91	2463678	21.61 ug/l	99
84)	4-Chlorotoluene	14.63	91	3622647	24.21 ug/l	100
85)	1,3,5-Trimethylbenzene	14.67	105	3261794	23.70 ug/l	100
86)	Pentachloroethane	15.27	119	4561225	23.88 ug/l	98
87)	tert-Butylbenzene	15.27	119	4561225	23.88 ug/l	99
88)	1,2,4-Trimethylbenzene	15.37	105	3394876	23.85 ug/l	99
89)	sec-Butylbenzene	15.68	105	4275240	23.11 ug/l	99
90)	1,3 Dichlorobenzene	15.82	146	2570377	24.45 ug/l	100
91)	4-Isopropyltoluene	16.01	119	3588120	23.44 ug/l	100
92)	1,4 Dichlorobenzene	16.01	146	2668922	24.35 ug/l	99
93)	n-Butylbenzene	16.79	91	2882504	22.88 ug/l	99
94)	1,2 Dichlorobenzene	16.70	146	2307989	24.53 ug/l	99
95)	Hexachloroethane	17.16	117	1426883	23.49 ug/l	99
96)	1,2-Dibromo-3-Chloropropan	18.24	75	187893	27.31 ug/l	97
97)	1,2,4-Trichlorobenzene	20.15	180	1653697	23.03 ug/l	100
98)	Hexachlorobutadiene	20.55	225	721468	22.47 ug/l	99
99)	Naphthalene	20.60	128	1796729	22.11 ug/l	100
100)	1,2,3-Trichlorobenzene	21.00	180	1311600	23.01 ug/l	99

(#) = qualifier out of range (m) = manual integration

Semi-Volatile Organics Data Package

Semi-Volatile Organics
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2401
Date Sampled: 06/22/06 16:35
Percent Solids: 40
Initial Volume: 19.8
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-01
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	1260	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	1260	1	07/03/06
Acenaphthene	ND	ug/Kg dry	1260	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	1260	1	07/03/06
Anthracene	ND	ug/Kg dry	1260	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	1260	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	1260	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	1260	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	1260	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	1260	1	07/03/06
Chrysene	ND	ug/Kg dry	1260	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	1260	1	07/03/06
Fluoranthene	ND	ug/Kg dry	1260	1	07/03/06
Fluorene	ND	ug/Kg dry	1260	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	1260	1	07/03/06
Naphthalene	ND	ug/Kg dry	1260	1	07/03/06
Phenanthrene	ND	ug/Kg dry	1260	1	07/03/06
Pyrene	ND	ug/Kg dry	1260	1	07/03/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*77 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*76 %*		*30-130*
Surrogate: Nitrobenzene-d5	*79 %*		*30-130*
Surrogate: p-Terphenyl-d14	*69 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2403
Date Sampled: 06/22/06 16:50
Percent Solids: 21
Initial Volume: 19
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-02
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	2510	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	2510	1	07/03/06
Acenaphthene	ND	ug/Kg dry	2510	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	2510	1	07/03/06
Anthracene	ND	ug/Kg dry	2510	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	2510	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	2510	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	2510	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	2510	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	2510	1	07/03/06
Chrysene	ND	ug/Kg dry	2510	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	2510	1	07/03/06
Fluoranthene	ND	ug/Kg dry	2510	1	07/03/06
Fluorene	ND	ug/Kg dry	2510	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	2510	1	07/03/06
Naphthalene	ND	ug/Kg dry	2510	1	07/03/06
Phenanthrene	ND	ug/Kg dry	2510	1	07/03/06
Pyrene	ND	ug/Kg dry	2510	1	07/03/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*77 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*74 %*		*30-130*
Surrogate: Nitrobenzene-d5	*80 %*		*30-130*
Surrogate: p-Terphenyl-d14	*69 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2201
Date Sampled: 06/22/06 17:00
Percent Solids: 30
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-03
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	1590	1	07/04/06
2-Methylnaphthalene	ND	ug/Kg dry	1590	1	07/04/06
Acenaphthene	ND	ug/Kg dry	1590	1	07/04/06
Acenaphthylene	ND	ug/Kg dry	1590	1	07/04/06
Anthracene	ND	ug/Kg dry	1590	1	07/04/06
Benzo(a)anthracene	ND	ug/Kg dry	1590	1	07/04/06
Benzo(a)pyrene	ND	ug/Kg dry	1590	1	07/04/06
Benzo(b)fluoranthene	ND	ug/Kg dry	1590	1	07/04/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	1590	1	07/04/06
Benzo(k)fluoranthene	ND	ug/Kg dry	1590	1	07/04/06
Chrysene	ND	ug/Kg dry	1590	1	07/04/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	1590	1	07/04/06
Fluoranthene	ND	ug/Kg dry	1590	1	07/04/06
Fluorene	ND	ug/Kg dry	1590	1	07/04/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	1590	1	07/04/06
Naphthalene	ND	ug/Kg dry	1590	1	07/04/06
Phenanthrene	ND	ug/Kg dry	1590	1	07/04/06
Pyrene	ND	ug/Kg dry	1590	1	07/04/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*76 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*75 %*		*30-130*
Surrogate: Nitrobenzene-d5	*81 %*		*30-130*
Surrogate: p-Terphenyl-d14	*74 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2203
Date Sampled: 06/22/06 17:10
Percent Solids: 20
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-04
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/28/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	2380	1	07/04/06
2-Methylnaphthalene	ND	ug/Kg dry	2380	1	07/04/06
Acenaphthene	ND	ug/Kg dry	2380	1	07/04/06
Acenaphthylene	ND	ug/Kg dry	2380	1	07/04/06
Anthracene	ND	ug/Kg dry	2380	1	07/04/06
Benzo(a)anthracene	ND	ug/Kg dry	2380	1	07/04/06
Benzo(a)pyrene	ND	ug/Kg dry	2380	1	07/04/06
Benzo(b)fluoranthene	ND	ug/Kg dry	2380	1	07/04/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	2380	1	07/04/06
Benzo(k)fluoranthene	ND	ug/Kg dry	2380	1	07/04/06
Chrysene	ND	ug/Kg dry	2380	1	07/04/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	2380	1	07/04/06
Fluoranthene	ND	ug/Kg dry	2380	1	07/04/06
Fluorene	ND	ug/Kg dry	2380	1	07/04/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	2380	1	07/04/06
Naphthalene	ND	ug/Kg dry	2380	1	07/04/06
Phenanthrene	ND	ug/Kg dry	2380	1	07/04/06
Pyrene	ND	ug/Kg dry	2380	1	07/04/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*87 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*91 %*		*30-130*
Surrogate: Nitrobenzene-d5	*92 %*		*30-130*
Surrogate: p-Terphenyl-d14	*81 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2701
Date Sampled: 06/22/06 17:35
Percent Solids: 20
Initial Volume: 20.2
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-05
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/28/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	2480	1	07/04/06
2-Methylnaphthalene	ND	ug/Kg dry	2480	1	07/04/06
Acenaphthene	ND	ug/Kg dry	2480	1	07/04/06
Acenaphthylene	ND	ug/Kg dry	2480	1	07/04/06
Anthracene	ND	ug/Kg dry	2480	1	07/04/06
Benzo(a)anthracene	ND	ug/Kg dry	2480	1	07/04/06
Benzo(a)pyrene	ND	ug/Kg dry	2480	1	07/04/06
Benzo(b)fluoranthene	ND	ug/Kg dry	2480	1	07/04/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	2480	1	07/04/06
Benzo(k)fluoranthene	ND	ug/Kg dry	2480	1	07/04/06
Chrysene	ND	ug/Kg dry	2480	1	07/04/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	2480	1	07/04/06
Fluoranthene	ND	ug/Kg dry	2480	1	07/04/06
Fluorene	ND	ug/Kg dry	2480	1	07/04/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	2480	1	07/04/06
Naphthalene	ND	ug/Kg dry	2480	1	07/04/06
Phenanthrene	ND	ug/Kg dry	2480	1	07/04/06
Pyrene	ND	ug/Kg dry	2480	1	07/04/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*65 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*68 %*		*30-130*
Surrogate: Nitrobenzene-d5	*69 %*		*30-130*
Surrogate: p-Terphenyl-d14	*67 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2703
Date Sampled: 06/22/06 17:46
Percent Solids: 79
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-06
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/28/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	621	1	07/04/06
2-Methylnaphthalene	ND	ug/Kg dry	621	1	07/04/06
Acenaphthene	ND	ug/Kg dry	621	1	07/04/06
Acenaphthylene	ND	ug/Kg dry	621	1	07/04/06
Anthracene	ND	ug/Kg dry	621	1	07/04/06
Benzo(a)anthracene	ND	ug/Kg dry	621	1	07/04/06
Benzo(a)pyrene	ND	ug/Kg dry	621	1	07/04/06
Benzo(b)fluoranthene	ND	ug/Kg dry	621	1	07/04/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	621	1	07/04/06
Benzo(k)fluoranthene	ND	ug/Kg dry	621	1	07/04/06
Chrysene	ND	ug/Kg dry	621	1	07/04/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	621	1	07/04/06
Fluoranthene	ND	ug/Kg dry	621	1	07/04/06
Fluorene	ND	ug/Kg dry	621	1	07/04/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	621	1	07/04/06
Naphthalene	ND	ug/Kg dry	621	1	07/04/06
Phenanthrene	ND	ug/Kg dry	621	1	07/04/06
Pyrene	ND	ug/Kg dry	621	1	07/04/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*86 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*85 %*		*30-130*
Surrogate: Nitrobenzene-d5	*91 %*		*30-130*
Surrogate: p-Terphenyl-d14	*76 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2601
Date Sampled: 06/22/06 18:10
Percent Solids: 54
Initial Volume: 20
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-07
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/28/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	926	1	07/04/06
2-Methylnaphthalene	ND	ug/Kg dry	926	1	07/04/06
Acenaphthene	ND	ug/Kg dry	926	1	07/04/06
Acenaphthylene	ND	ug/Kg dry	926	1	07/04/06
Anthracene	ND	ug/Kg dry	926	1	07/04/06
Benzo(a)anthracene	ND	ug/Kg dry	926	1	07/04/06
Benzo(a)pyrene	ND	ug/Kg dry	926	1	07/04/06
Benzo(b)fluoranthene	ND	ug/Kg dry	926	1	07/04/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	926	1	07/04/06
Benzo(k)fluoranthene	ND	ug/Kg dry	926	1	07/04/06
Chrysene	ND	ug/Kg dry	926	1	07/04/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	926	1	07/04/06
Fluoranthene	ND	ug/Kg dry	926	1	07/04/06
Fluorene	ND	ug/Kg dry	926	1	07/04/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	926	1	07/04/06
Naphthalene	ND	ug/Kg dry	926	1	07/04/06
Phenanthrene	ND	ug/Kg dry	926	1	07/04/06
Pyrene	ND	ug/Kg dry	926	1	07/04/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*88 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*88 %*		*30-130*
Surrogate: Nitrobenzene-d5	*91 %*		*30-130*
Surrogate: p-Terphenyl-d14	*78 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2602
Date Sampled: 06/22/06 18:20
Percent Solids: 46
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-08
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/28/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	1040	1	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	1040	1	07/05/06
Acenaphthene	ND	ug/Kg dry	1040	1	07/05/06
Acenaphthylene	ND	ug/Kg dry	1040	1	07/05/06
Anthracene	ND	ug/Kg dry	1040	1	07/05/06
Benzo(a)anthracene	ND	ug/Kg dry	1040	1	07/05/06
Benzo(a)pyrene	ND	ug/Kg dry	1040	1	07/05/06
Benzo(b)fluoranthene	ND	ug/Kg dry	1040	1	07/05/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	1040	1	07/05/06
Benzo(k)fluoranthene	ND	ug/Kg dry	1040	1	07/05/06
Chrysene	ND	ug/Kg dry	1040	1	07/05/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	1040	1	07/05/06
Fluoranthene	ND	ug/Kg dry	1040	1	07/05/06
Fluorene	ND	ug/Kg dry	1040	1	07/05/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	1040	1	07/05/06
Naphthalene	ND	ug/Kg dry	1040	1	07/05/06
Phenanthrene	ND	ug/Kg dry	1040	1	07/05/06
Pyrene	ND	ug/Kg dry	1040	1	07/05/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*90 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*85 %*		*30-130*
Surrogate: Nitrobenzene-d5	*92 %*		*30-130*
Surrogate: p-Terphenyl-d14	*77 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2605
Date Sampled: 06/22/06 18:30
Percent Solids: 19
Initial Volume: 19.2
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-09
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/28/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	2740	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	2740	1	07/03/06
Acenaphthene	ND	ug/Kg dry	2740	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	2740	1	07/03/06
Anthracene	ND	ug/Kg dry	2740	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	2740	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	2740	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	2740	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	2740	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	2740	1	07/03/06
Chrysene	ND	ug/Kg dry	2740	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	2740	1	07/03/06
Fluoranthene	ND	ug/Kg dry	2740	1	07/03/06
Fluorene	ND	ug/Kg dry	2740	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	2740	1	07/03/06
Naphthalene	ND	ug/Kg dry	2740	1	07/03/06
Phenanthrene	ND	ug/Kg dry	2740	1	07/03/06
Pyrene	ND	ug/Kg dry	2740	1	07/03/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*78 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*80 %*		*30-130*
Surrogate: Nitrobenzene-d5	*82 %*		*30-130*
Surrogate: p-Terphenyl-d14	*74 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2501
Date Sampled: 06/22/06 18:45
Percent Solids: 30
Initial Volume: 20.1
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-10
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/28/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	1660	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	1660	1	07/03/06
Acenaphthene	ND	ug/Kg dry	1660	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	1660	1	07/03/06
Anthracene	ND	ug/Kg dry	1660	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	1660	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	1660	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	1660	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	1660	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	1660	1	07/03/06
Chrysene	ND	ug/Kg dry	1660	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	1660	1	07/03/06
Fluoranthene	**3170**	ug/Kg dry	1660	1	07/03/06
Fluorene	ND	ug/Kg dry	1660	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	1660	1	07/03/06
Naphthalene	ND	ug/Kg dry	1660	1	07/03/06
Phenanthrene	**2460**	ug/Kg dry	1660	1	07/03/06
Pyrene	**2400**	ug/Kg dry	1660	1	07/03/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*84 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*84 %*		*30-130*
Surrogate: Nitrobenzene-d5	*87 %*		*30-130*
Surrogate: p-Terphenyl-d14	*76 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2503
Date Sampled: 06/22/06 18:53
Percent Solids: 12
Initial Volume: 19.4
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-11
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	4300	1	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	4300	1	07/05/06
Acenaphthene	ND	ug/Kg dry	4300	1	07/05/06
Acenaphthylene	ND	ug/Kg dry	4300	1	07/05/06
Anthracene	ND	ug/Kg dry	4300	1	07/05/06
Benzo(a)anthracene	ND	ug/Kg dry	4300	1	07/05/06
Benzo(a)pyrene	ND	ug/Kg dry	4300	1	07/05/06
Benzo(b)fluoranthene	ND	ug/Kg dry	4300	1	07/05/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	4300	1	07/05/06
Benzo(k)fluoranthene	ND	ug/Kg dry	4300	1	07/05/06
Chrysene	ND	ug/Kg dry	4300	1	07/05/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	4300	1	07/05/06
Fluoranthene	ND	ug/Kg dry	4300	1	07/05/06
Fluorene	ND	ug/Kg dry	4300	1	07/05/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	4300	1	07/05/06
Naphthalene	ND	ug/Kg dry	4300	1	07/05/06
Phenanthrene	ND	ug/Kg dry	4300	1	07/05/06
Pyrene	ND	ug/Kg dry	4300	1	07/05/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*49 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*50 %*		*30-130*
Surrogate: Nitrobenzene-d5	*52 %*		*30-130*
Surrogate: p-Terphenyl-d14	*45 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2503D
Date Sampled: 06/23/06 10:05
Percent Solids: 16
Initial Volume: 20
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-12
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/28/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	3120	1	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	3120	1	07/05/06
Acenaphthene	ND	ug/Kg dry	3120	1	07/05/06
Acenaphthylene	ND	ug/Kg dry	3120	1	07/05/06
Anthracene	ND	ug/Kg dry	3120	1	07/05/06
Benzo(a)anthracene	ND	ug/Kg dry	3120	1	07/05/06
Benzo(a)pyrene	ND	ug/Kg dry	3120	1	07/05/06
Benzo(b)fluoranthene	ND	ug/Kg dry	3120	1	07/05/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	3120	1	07/05/06
Benzo(k)fluoranthene	ND	ug/Kg dry	3120	1	07/05/06
Chrysene	ND	ug/Kg dry	3120	1	07/05/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	3120	1	07/05/06
Fluoranthene	ND	ug/Kg dry	3120	1	07/05/06
Fluorene	ND	ug/Kg dry	3120	1	07/05/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	3120	1	07/05/06
Naphthalene	ND	ug/Kg dry	3120	1	07/05/06
Phenanthrene	ND	ug/Kg dry	3120	1	07/05/06
Pyrene	ND	ug/Kg dry	3120	1	07/05/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*79 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*79 %*		*30-130*
Surrogate: Nitrobenzene-d5	*83 %*		*30-130*
Surrogate: p-Terphenyl-d14	*72 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2507
Date Sampled: 06/23/06 10:30
Percent Solids: 12
Initial Volume: 19.9
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-13
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/28/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	4190	1	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	4190	1	07/05/06
Acenaphthene	ND	ug/Kg dry	4190	1	07/05/06
Acenaphthylene	ND	ug/Kg dry	4190	1	07/05/06
Anthracene	ND	ug/Kg dry	4190	1	07/05/06
Benzo(a)anthracene	ND	ug/Kg dry	4190	1	07/05/06
Benzo(a)pyrene	ND	ug/Kg dry	4190	1	07/05/06
Benzo(b)fluoranthene	ND	ug/Kg dry	4190	1	07/05/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	4190	1	07/05/06
Benzo(k)fluoranthene	ND	ug/Kg dry	4190	1	07/05/06
Chrysene	ND	ug/Kg dry	4190	1	07/05/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	4190	1	07/05/06
Fluoranthene	ND	ug/Kg dry	4190	1	07/05/06
Fluorene	ND	ug/Kg dry	4190	1	07/05/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	4190	1	07/05/06
Naphthalene	ND	ug/Kg dry	4190	1	07/05/06
Phenanthrene	ND	ug/Kg dry	4190	1	07/05/06
Pyrene	ND	ug/Kg dry	4190	1	07/05/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*88 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*86 %*		*30-130*
Surrogate: Nitrobenzene-d5	*91 %*		*30-130*
Surrogate: p-Terphenyl-d14	*79 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2507D
Date Sampled: 06/23/06 10:35
Percent Solids: 14
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-14
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/28/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	3400	1	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	3400	1	07/05/06
Acenaphthene	ND	ug/Kg dry	3400	1	07/05/06
Acenaphthylene	ND	ug/Kg dry	3400	1	07/05/06
Anthracene	ND	ug/Kg dry	3400	1	07/05/06
Benzo(a)anthracene	ND	ug/Kg dry	3400	1	07/05/06
Benzo(a)pyrene	ND	ug/Kg dry	3400	1	07/05/06
Benzo(b)fluoranthene	ND	ug/Kg dry	3400	1	07/05/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	3400	1	07/05/06
Benzo(k)fluoranthene	ND	ug/Kg dry	3400	1	07/05/06
Chrysene	ND	ug/Kg dry	3400	1	07/05/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	3400	1	07/05/06
Fluoranthene	ND	ug/Kg dry	3400	1	07/05/06
Fluorene	ND	ug/Kg dry	3400	1	07/05/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	3400	1	07/05/06
Naphthalene	ND	ug/Kg dry	3400	1	07/05/06
Phenanthrene	ND	ug/Kg dry	3400	1	07/05/06
Pyrene	ND	ug/Kg dry	3400	1	07/05/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*95 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*90 %*		*30-130*
Surrogate: Nitrobenzene-d5	*100 %*		*30-130*
Surrogate: p-Terphenyl-d14	*82 %*		*30-130*

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Semi-Volatile Organics Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch BF62823 - 5030B										
Chlorobenzene	9.6		ug/L	10.0		96	70-130	5	20	
Chloroethane	9.7		ug/L	10.0		97	70-130	6	20	
Chloroform	9.9		ug/L	10.0		99	70-130	5	20	
Chloromethane	8.2		ug/L	10.0		82	70-130	5	20	
cis-1,2-Dichloroethene	10.3		ug/L	10.0		103	70-130	6	20	
cis-1,3-Dichloropropene	9.3		ug/L	10.0		93	70-130	5	20	
Dibromochloromethane	9.8		ug/L	10.0		98	70-130	6	20	
Dibromomethane	10.2		ug/L	10.0		102	70-130	5	20	
Dichlorodifluoromethane	8.6		ug/L	10.0		86	70-130	9	20	
Diethyl Ether	9.4		ug/L	10.0		94	70-130	10	20	
Di-isopropyl ether	9.1		ug/L	10.0		91	70-130	5	20	
Ethyl tertiary-butyl ether	9.2		ug/L	10.0		92	70-130	5	20	
Ethylbenzene	9.6		ug/L	10.0		96	70-130	6	20	
Hexachlorobutadiene	9.6		ug/L	10.0		96	70-130	0	20	
Isopropylbenzene	8.6		ug/L	10.0		86	70-130	6	20	
Methyl tert-Butyl Ether	9.8		ug/L	10.0		98	70-130	5	20	
Methylene Chloride	9.8		ug/L	10.0		98	70-130	4	20	
Naphthalene	8.8		ug/L	10.0		88	70-130	7	20	
n-Butylbenzene	9.1		ug/L	10.0		91	70-130	5	20	
n-Propylbenzene	8.8		ug/L	10.0		88	70-130	11	20	
sec-Butylbenzene	9.1		ug/L	10.0		91	70-130	4	20	
Styrene	9.6		ug/L	10.0		96	70-130	6	20	
tert-Butylbenzene	9.3		ug/L	10.0		93	70-130	5	20	
Tertiary-amyl methyl ether	9.7		ug/L	10.0		97	70-130	4	20	
Tetrachloroethene	9.5		ug/L	10.0		95	70-130	6	20	
Tetrahydrofuran	8.7		ug/L	10.0		87	70-130	8	20	
Toluene	9.8		ug/L	10.0		98	70-130	4	20	
trans-1,2-Dichloroethene	9.8		ug/L	10.0		98	70-130	6	20	
trans-1,3-Dichloropropene	8.8		ug/L	10.0		88	70-130	6	20	
Trichloroethene	9.6		ug/L	10.0		96	70-130	5	20	
Trichlorofluoromethane	9.4		ug/L	10.0		94	70-130	6	20	
Vinyl Acetate	9.0		ug/L	10.0		90	70-130	4	20	
Vinyl Chloride	9.1		ug/L	10.0		91	70-130	6	20	
Xylene O	9.6		ug/L	10.0		96	70-130	6	20	
Xylene P,M	19.3		ug/L	20.0		96	70-130	6	20	
Surrogate: 1,2-Dichloroethane-d4	*25.2*		ug/L	*25.0*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.1*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*25.0*		ug/L	*25.0*		*100*	*70-130*			
Surrogate: Toluene-d8	*24.2*		ug/L	*25.0*		*97*	*70-130*			
8270C Polynuclear Aromatic Hydrocarbons										
Batch BF62824 - 3541										
Blank										
1-Methylnaphthalene	ND	500	ug/Kg wet							
2-Methylnaphthalene	ND	500	ug/Kg wet							
Acenaphthene	ND	500	ug/Kg wet							
Acenaphthylene	ND	500	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Polynuclear Aromatic Hydrocarbons										
Batch BF62824 - 3541										
Anthracene	ND	500	ug/Kg wet							
Benzo(a)anthracene	ND	500	ug/Kg wet							
Benzo(a)pyrene	ND	500	ug/Kg wet							
Benzo(b)fluoranthene	ND	500	ug/Kg wet							
Benzo(g,h,i)perylene	ND	500	ug/Kg wet							
Benzo(k)fluoranthene	ND	500	ug/Kg wet							
Chrysene	ND	500	ug/Kg wet							
Dibenzo(a,h)Anthracene	ND	500	ug/Kg wet							
Fluoranthene	ND	500	ug/Kg wet							
Fluorene	ND	500	ug/Kg wet							
Indeno(1,2,3-cd)Pyrene	ND	500	ug/Kg wet							
Naphthalene	ND	500	ug/Kg wet							
Phenanthrene	ND	500	ug/Kg wet							
Pyrene	ND	500	ug/Kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*4560*		ug/Kg wet	*5000*		*91*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*4520*		ug/Kg wet	*5000*		*90*	*30-130*			
Surrogate: Nitrobenzene-d5	*4990*		ug/Kg wet	*5000*		*100*	*30-130*			
Surrogate: p-Terphenyl-d14	*3910*		ug/Kg wet	*5000*		*78*	*30-130*			
LCS										
2-Methylnaphthalene	4130	500	ug/Kg wet	5000		83	40-140			
Acenaphthene	4070	500	ug/Kg wet	5000		81	40-140			
Acenaphthylene	4030	500	ug/Kg wet	5000		81	40-140			
Anthracene	4190	500	ug/Kg wet	5000		84	40-140			
Benzo(a)anthracene	4010	500	ug/Kg wet	5000		80	40-140			
Benzo(a)pyrene	4160	500	ug/Kg wet	5000		83	40-140			
Benzo(b)fluoranthene	4430	500	ug/Kg wet	5000		89	40-140			
Benzo(g,h,i)perylene	3990	500	ug/Kg wet	5000		80	40-140			
Benzo(k)fluoranthene	2740	500	ug/Kg wet	5000		55	40-140			
Chrysene	3920	500	ug/Kg wet	5000		78	40-140			
Dibenzo(a,h)Anthracene	4320	500	ug/Kg wet	5000		86	40-140			
Fluoranthene	4480	500	ug/Kg wet	5000		90	40-140			
Fluorene	3970	500	ug/Kg wet	5000		79	40-140			
Indeno(1,2,3-cd)Pyrene	4400	500	ug/Kg wet	5000		88	40-140			
Naphthalene	4010	500	ug/Kg wet	5000		80	40-140			
Phenanthrene	4270	500	ug/Kg wet	5000		85	40-140			
Pyrene	3920	500	ug/Kg wet	5000		78	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*3930*		ug/Kg wet	*5000*		*79*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*4080*		ug/Kg wet	*5000*		*82*	*30-130*			
Surrogate: Nitrobenzene-d5	*4460*		ug/Kg wet	*5000*		*89*	*30-130*			
Surrogate: p-Terphenyl-d14	*3970*		ug/Kg wet	*5000*		*79*	*30-130*			
LCS Dup										
2-Methylnaphthalene	4290	500	ug/Kg wet	5000		86	40-140	4	30	
Acenaphthene	4310	500	ug/Kg wet	5000		86	40-140	6	30	
Acenaphthylene	4260	500	ug/Kg wet	5000		85	40-140	5	30	
Anthracene	4380	500	ug/Kg wet	5000		88	40-140	5	30	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Polynuclear Aromatic Hydrocarbons										
Batch BF62824 - 3541										
Benzo(a)anthracene	4040	500	ug/Kg wet	5000		81	40-140	1	30	
Benzo(a)pyrene	4320	500	ug/Kg wet	5000		86	40-140	4	30	
Benzo(b)fluoranthene	5070	500	ug/Kg wet	5000		101	40-140	13	30	
Benzo(g,h,i)perylene	4210	500	ug/Kg wet	5000		84	40-140	5	30	
Benzo(k)fluoranthene	3370	500	ug/Kg wet	5000		67	40-140	20	30	
Chrysene	3960	500	ug/Kg wet	5000		79	40-140	1	30	
Dibenzo(a,h)Anthracene	4650	500	ug/Kg wet	5000		93	40-140	8	30	
Fluoranthene	4650	500	ug/Kg wet	5000		93	40-140	3	30	
Fluorene	4250	500	ug/Kg wet	5000		85	40-140	7	30	
Indeno(1,2,3-cd)Pyrene	4690	500	ug/Kg wet	5000		94	40-140	7	30	
Naphthalene	4170	500	ug/Kg wet	5000		83	40-140	4	30	
Phenanthrene	4430	500	ug/Kg wet	5000		89	40-140	5	30	
Pyrene	4060	500	ug/Kg wet	5000		81	40-140	4	30	
Surrogate: 1,2-Dichlorobenzene-d4	*4200*		ug/Kg wet	*5000*		*84*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*4330*		ug/Kg wet	*5000*		*87*	*30-130*			
Surrogate: Nitrobenzene-d5	*4700*		ug/Kg wet	*5000*		*94*	*30-130*			
Surrogate: p-Terphenyl-d14	*4010*		ug/Kg wet	*5000*		*80*	*30-130*			
Matrix Spike Source: 0606383-13										
2-Methylnaphthalene	30200	4080	ug/Kg dry	40800	ND	74	40-140			
Acenaphthene	30700	4080	ug/Kg dry	40800	ND	75	40-140			
Acenaphthylene	30500	4080	ug/Kg dry	40800	ND	75	40-140			
Anthracene	30500	4080	ug/Kg dry	40800	ND	75	40-140			
Benzo(a)anthracene	28300	4080	ug/Kg dry	40800	ND	69	40-140			
Benzo(a)pyrene	30700	4080	ug/Kg dry	40800	ND	75	40-140			
Benzo(b)fluoranthene	32900	4080	ug/Kg dry	40800	ND	81	40-140			
Benzo(g,h,i)perylene	33500	4080	ug/Kg dry	40800	ND	82	40-140			
Benzo(k)fluoranthene	34800	4080	ug/Kg dry	40800	ND	85	40-140			
Chrysene	28300	4080	ug/Kg dry	40800	ND	69	40-140			
Dibenzo(a,h)Anthracene	34700	4080	ug/Kg dry	40800	ND	85	40-140			
Fluoranthene	33000	4080	ug/Kg dry	40800	ND	81	40-140			
Fluorene	31200	4080	ug/Kg dry	40800	ND	76	40-140			
Indeno(1,2,3-cd)Pyrene	34600	4080	ug/Kg dry	40800	ND	85	40-140			
Naphthalene	30200	4080	ug/Kg dry	40800	ND	74	40-140			
Phenanthrene	30700	4080	ug/Kg dry	40800	ND	75	40-140			
Pyrene	28700	4080	ug/Kg dry	40800	ND	70	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*30000*		ug/Kg dry	*40800*		*74*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*31300*		ug/Kg dry	*40800*		*77*	*30-130*			
Surrogate: Nitrobenzene-d5	*32400*		ug/Kg dry	*40800*		*79*	*30-130*			
Surrogate: p-Terphenyl-d14	*28100*		ug/Kg dry	*40800*		*69*	*30-130*			
Matrix Spike Dup Source: 0606383-13										
2-Methylnaphthalene	31500	3990	ug/Kg dry	39900	ND	79	40-140	7	30	
Acenaphthene	31600	3990	ug/Kg dry	39900	ND	79	40-140	5	30	
Acenaphthylene	31300	3990	ug/Kg dry	39900	ND	78	40-140	4	30	
Anthracene	31600	3990	ug/Kg dry	39900	ND	79	40-140	5	30	
Benzo(a)anthracene	30800	3990	ug/Kg dry	39900	ND	77	40-140	11	30	

606

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Polynuclear Aromatic Hydrocarbons										
Batch BF62824 - 3541										
Benzo(a)pyrene	31700	3990	ug/Kg dry	39900	ND	79	40-140	5	30	
Benzo(b)fluoranthene	35200	3990	ug/Kg dry	39900	ND	88	40-140	8	30	
Benzo(g,h,i)perylene	33600	3990	ug/Kg dry	39900	ND	84	40-140	2	30	
Benzo(k)fluoranthene	29100	3990	ug/Kg dry	39900	ND	73	40-140	15	30	
Chrysene	29900	3990	ug/Kg dry	39900	ND	75	40-140	8	30	
Dibenzo(a,h)Anthracene	35800	3990	ug/Kg dry	39900	ND	90	40-140	6	30	
Fluoranthene	34300	3990	ug/Kg dry	39900	ND	86	40-140	6	30	
Fluorene	31400	3990	ug/Kg dry	39900	ND	79	40-140	4	30	
Indeno(1,2,3-cd)Pyrene	36300	3990	ug/Kg dry	39900	ND	91	40-140	7	30	
Naphthalene	31000	3990	ug/Kg dry	39900	ND	78	40-140	5	30	
Phenanthrene	32400	3990	ug/Kg dry	39900	ND	81	40-140	8	30	
Pyrene	30200	3990	ug/Kg dry	39900	ND	76	40-140	8	30	
Surrogate: 1,2-Dichlorobenzene-d4	*30200*		ug/Kg dry	*39900*		*76*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*31400*		ug/Kg dry	*39900*		*79*	*30-130*			
Surrogate: Nitrobenzene-d5	*34600*		ug/Kg dry	*39900*		*87*	*30-130*			
Surrogate: p-Terphenyl-d14	*30000*		ug/Kg dry	*39900*		*75*	*30-130*			
Batch BG60520 - 3541										
Blank										
1-Methylnaphthalene	ND	500	ug/Kg wet							
2-Methylnaphthalene	ND	500	ug/Kg wet							
Acenaphthene	ND	500	ug/Kg wet							
Acenaphthylene	ND	500	ug/Kg wet							
Anthracene	ND	500	ug/Kg wet							
Benzo(a)anthracene	ND	500	ug/Kg wet							
Benzo(a)pyrene	ND	500	ug/Kg wet							
Benzo(b)fluoranthene	ND	500	ug/Kg wet							
Benzo(g,h,i)perylene	ND	500	ug/Kg wet							
Benzo(k)fluoranthene	ND	500	ug/Kg wet							
Chrysene	ND	500	ug/Kg wet							
Dibenzo(a,h)Anthracene	ND	500	ug/Kg wet							
Fluoranthene	ND	500	ug/Kg wet							
Fluorene	ND	500	ug/Kg wet							
Indeno(1,2,3-cd)Pyrene	ND	500	ug/Kg wet							
Naphthalene	ND	500	ug/Kg wet							
Phenanthrene	ND	500	ug/Kg wet							
Pyrene	ND	500	ug/Kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*3860*		ug/Kg wet	*5000*		*77*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*3680*		ug/Kg wet	*5000*		*74*	*30-130*			
Surrogate: Nitrobenzene-d5	*4060*		ug/Kg wet	*5000*		*81*	*30-130*			
Surrogate: p-Terphenyl-d14	*3280*		ug/Kg wet	*5000*		*66*	*30-130*			
LCS										
2-Methylnaphthalene	4220	500	ug/Kg wet	5000		84	40-140			
Acenaphthene	4260	500	ug/Kg wet	5000		85	40-140			
Acenaphthylene	4210	500	ug/Kg wet	5000		84	40-140			
Anthracene	4350	500	ug/Kg wet	5000		87	40-140			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Polynuclear Aromatic Hydrocarbons										
Batch BG60520 - 3541										
Benzo(a)anthracene	4150	500	ug/Kg wet	5000		83	40-140			
Benzo(a)pyrene	4380	500	ug/Kg wet	5000		88	40-140			
Benzo(b)fluoranthene	5100	500	ug/Kg wet	5000		102	40-140			
Benzo(g,h,i)perylene	4440	500	ug/Kg wet	5000		89	40-140			
Benzo(k)fluoranthene	3340	500	ug/Kg wet	5000		67	40-140			
Chrysene	4010	500	ug/Kg wet	5000		80	40-140			
Dibenzo(a,h)Anthracene	4780	500	ug/Kg wet	5000		96	40-140			
Fluoranthene	4570	500	ug/Kg wet	5000		91	40-140			
Fluorene	4200	500	ug/Kg wet	5000		84	40-140			
Indeno(1,2,3-cd)Pyrene	4860	500	ug/Kg wet	5000		97	40-140			
Naphthalene	4270	500	ug/Kg wet	5000		85	40-140			
Phenanthrene	4420	500	ug/Kg wet	5000		88	40-140			
Pyrene	4080	500	ug/Kg wet	5000		82	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*4170*		ug/Kg wet	*5000*		*83*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*4270*		ug/Kg wet	*5000*		*85*	*30-130*			
Surrogate: Nitrobenzene-d5	*4730*		ug/Kg wet	*5000*		*95*	*30-130*			
Surrogate: p-Terphenyl-d14	*4140*		ug/Kg wet	*5000*		*83*	*30-130*			
LCS Dup										
2-Methylnaphthalene	3920	500	ug/Kg wet	5000		78	40-140	7	30	
Acenaphthene	3980	500	ug/Kg wet	5000		80	40-140	6	30	
Acenaphthylene	3950	500	ug/Kg wet	5000		79	40-140	6	30	
Anthracene	4140	500	ug/Kg wet	5000		83	40-140	5	30	
Benzo(a)anthracene	4020	500	ug/Kg wet	5000		80	40-140	4	30	
Benzo(a)pyrene	4090	500	ug/Kg wet	5000		82	40-140	7	30	
Benzo(b)fluoranthene	4530	500	ug/Kg wet	5000		91	40-140	11	30	
Benzo(g,h,i)perylene	4080	500	ug/Kg wet	5000		82	40-140	8	30	
Benzo(k)fluoranthene	3940	500	ug/Kg wet	5000		79	40-140	16	30	
Chrysene	3890	500	ug/Kg wet	5000		78	40-140	3	30	
Dibenzo(a,h)Anthracene	4440	500	ug/Kg wet	5000		89	40-140	8	30	
Fluoranthene	4430	500	ug/Kg wet	5000		89	40-140	2	30	
Fluorene	4010	500	ug/Kg wet	5000		80	40-140	5	30	
Indeno(1,2,3-cd)Pyrene	4410	500	ug/Kg wet	5000		88	40-140	10	30	
Naphthalene	3850	500	ug/Kg wet	5000		77	40-140	10	30	
Phenanthrene	4160	500	ug/Kg wet	5000		83	40-140	6	30	
Pyrene	3960	500	ug/Kg wet	5000		79	40-140	4	30	
Surrogate: 1,2-Dichlorobenzene-d4	*3930*		ug/Kg wet	*5000*		*79*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*3990*		ug/Kg wet	*5000*		*80*	*30-130*			
Surrogate: Nitrobenzene-d5	*4540*		ug/Kg wet	*5000*		*91*	*30-130*			
Surrogate: p-Terphenyl-d14	*4040*		ug/Kg wet	*5000*		*81*	*30-130*			
Matrix Spike **Source: 0606383-11**										
2-Methylnaphthalene	29100	3970	ug/Kg dry	39700	ND	73	40-140			
Acenaphthene	29200	3970	ug/Kg dry	39700	ND	74	40-140			
Acenaphthylene	28900	3970	ug/Kg dry	39700	ND	73	40-140			
Anthracene	30300	3970	ug/Kg dry	39700	ND	76	40-140			
Benzo(a)anthracene	28900	3970	ug/Kg dry	39700	ND	73	40-140			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Polynuclear Aromatic Hydrocarbons										
Batch BG60520 - 3541										
Benzo(a)pyrene	30200	3970	ug/Kg dry	39700	ND	76	40-140			
Benzo(b)fluoranthene	34000	3970	ug/Kg dry	39700	ND	86	40-140			
Benzo(g,h,i)perylene	29100	3970	ug/Kg dry	39700	ND	73	40-140			
Benzo(k)fluoranthene	27600	3970	ug/Kg dry	39700	ND	70	40-140			
Chrysene	28500	3970	ug/Kg dry	39700	ND	72	40-140			
Dibenzo(a,h)Anthracene	32200	3970	ug/Kg dry	39700	ND	81	40-140			
Fluoranthene	31400	3970	ug/Kg dry	39700	ND	79	40-140			
Fluorene	29400	3970	ug/Kg dry	39700	ND	74	40-140			
Indeno(1,2,3-cd)Pyrene	32200	3970	ug/Kg dry	39700	ND	81	40-140			
Naphthalene	28700	3970	ug/Kg dry	39700	ND	72	40-140			
Phenanthrene	31500	3970	ug/Kg dry	39700	ND	79	40-140			
Pyrene	29000	3970	ug/Kg dry	39700	ND	73	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*26400*		ug/Kg dry	*39700*		*66*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*28600*		ug/Kg dry	*39700*		*72*	*30-130*			
Surrogate: Nitrobenzene-d5	*30200*		ug/Kg dry	*39700*		*76*	*30-130*			
Surrogate: p-Terphenyl-d14	*28500*		ug/Kg dry	*39700*		*72*	*30-130*			
Matrix Spike Dup Source: 0606383-11										
2-Methylnaphthalene	36800	4130	ug/Kg dry	41300	ND	89	40-140	20	30	
Acenaphthene	37800	4130	ug/Kg dry	41300	ND	92	40-140	22	30	
Acenaphthylene	38200	4130	ug/Kg dry	41300	ND	92	40-140	23	30	
Anthracene	37300	4130	ug/Kg dry	41300	ND	90	40-140	17	30	
Benzo(a)anthracene	36200	4130	ug/Kg dry	41300	ND	88	40-140	19	30	
Benzo(a)pyrene	38000	4130	ug/Kg dry	41300	ND	92	40-140	19	30	
Benzo(b)fluoranthene	42700	4130	ug/Kg dry	41300	ND	103	40-140	18	30	
Benzo(g,h,i)perylene	35800	4130	ug/Kg dry	41300	ND	87	40-140	18	30	
Benzo(k)fluoranthene	24200	4130	ug/Kg dry	41300	ND	59	40-140	17	30	
Chrysene	36100	4130	ug/Kg dry	41300	ND	87	40-140	19	30	
Dibenzo(a,h)Anthracene	38900	4130	ug/Kg dry	41300	ND	94	40-140	15	30	
Fluoranthene	39600	4130	ug/Kg dry	41300	ND	96	40-140	19	30	
Fluorene	38400	4130	ug/Kg dry	41300	ND	93	40-140	23	30	
Indeno(1,2,3-cd)Pyrene	39600	4130	ug/Kg dry	41300	ND	96	40-140	17	30	
Naphthalene	36300	4130	ug/Kg dry	41300	ND	88	40-140	20	30	
Phenanthrene	40900	4130	ug/Kg dry	41300	ND	99	40-140	22	30	
Pyrene	35800	4130	ug/Kg dry	41300	ND	87	40-140	18	30	
Surrogate: 1,2-Dichlorobenzene-d4	*35100*		ug/Kg dry	*41300*		*85*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*37600*		ug/Kg dry	*41300*		*91*	*30-130*			
Surrogate: Nitrobenzene-d5	*40100*		ug/Kg dry	*41300*		*97*	*30-130*			
Surrogate: p-Terphenyl-d14	*35600*		ug/Kg dry	*41300*		*86*	*30-130*			
8270C(SIM) Polynuclear Aromatic Hydrocarbons										
Batch BF62717 - 3541										
Blank										
1-Methylnaphthalene	ND	25.0	ug/Kg wet							
2-Methylnaphthalene	ND	25.0	ug/Kg wet							
Acenaphthene	ND	25.0	ug/Kg wet							

Semi-Volatile Organics Calibration Data

ANALYSIS SEQUENCE

BPF0206

Instrument: SVOA-MS1

Calibnration ID: ~~UNASSIGNED~~ SVING

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0206-TUN1	QC		1		6F13071		
BPF0206-CCV1	QC		2		6F27064	6F26097	
BPF0206-CAL1	QC		3	6E31077	~~6E31076~~ 70	6E26058	
BPF0206-CAL2	QC		4	6E31078	~~6E31077~~ 76	6E26058	
BPF0206-CAL3	QC		5	6E31079	~~6E31078~~ 78	6E26058	
BPF0206-CAL4	QC		6	6E31076	~~6E31079~~ *	6E26058	
BPF0206-CAL5	QC		7	6E31080	~~6E31080~~ *	6E26058	
BPF0206-CAL6	QC		8		6E31081	6E26058	
BPF0206-CAL7	QC		9		6E31082	6E26058	
BPF0206-CAL8	QC		10		6E31083	6E26058	
BPF0206-SCV1	QC		11		6E31084	6E26058	

* CLO 7/25/06

Samples Loaded By Date Data Processed By Date

ESS LABORATORY
GCMS1 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/27/06	18	SV139352	0606334-02	SVING	RR	JSC
	19	SV1 53	0606361-01			
	20	SV1 54	BF62702-Blk1			
	21	SV1 55	BF62702-BS1			
	22	SV1 56	BF62702-BSD1			
	23	SV1 57	0606375-02			
	24	SV1 58	BF62702-MS1			
	25	SV1 59	BF62702-MSD1			
	26	SV1 60	0606405-01			
	27	SV1 61	02			
	28	SV1 62	02ms			
	29	SV1 63	02msD			
	30	SV1 64	0606405 03			
6/27/06	31	SV1 65	~~0606405 04~~ 0606405-04	SVING		JSC
6/28/06	1	SV1 39336	BPF0206-CCV1	SVING		JSC
	2	SV1 37				
	2	SV1 38				
6/28/06	2	SV1 40	BPF0206-CCV1	SVING	6F27064	JSC
6/29/06	1	SV1 42	BPF0206-Tun1 30ng	DFTPP	6F13071 BPF0204-AQ-Tune	JSC
	2	SV1 43	-CCV1	SVING	6F27064	
	2	SV1 44	-Cal4		6E31076	
	3	SV1 45	-Cal1		77	
	4	SV1 46	-Cal2		78	
	5	SV1 47	-Cal3		79	
	6	SV1 48	-Cal5		80	
	7	SV1 49	-Cal6		81	
	8	SV1 50	-Cal7		82	
	9	SV1 51	-Cal8		83	
	10	SV1 52	BPF0206-SCV1		6E31084	
6/29/06	11	SV1 53	0606375-01	SVING	Surr. Failed	JSC

Control Number 60.0018-0602A

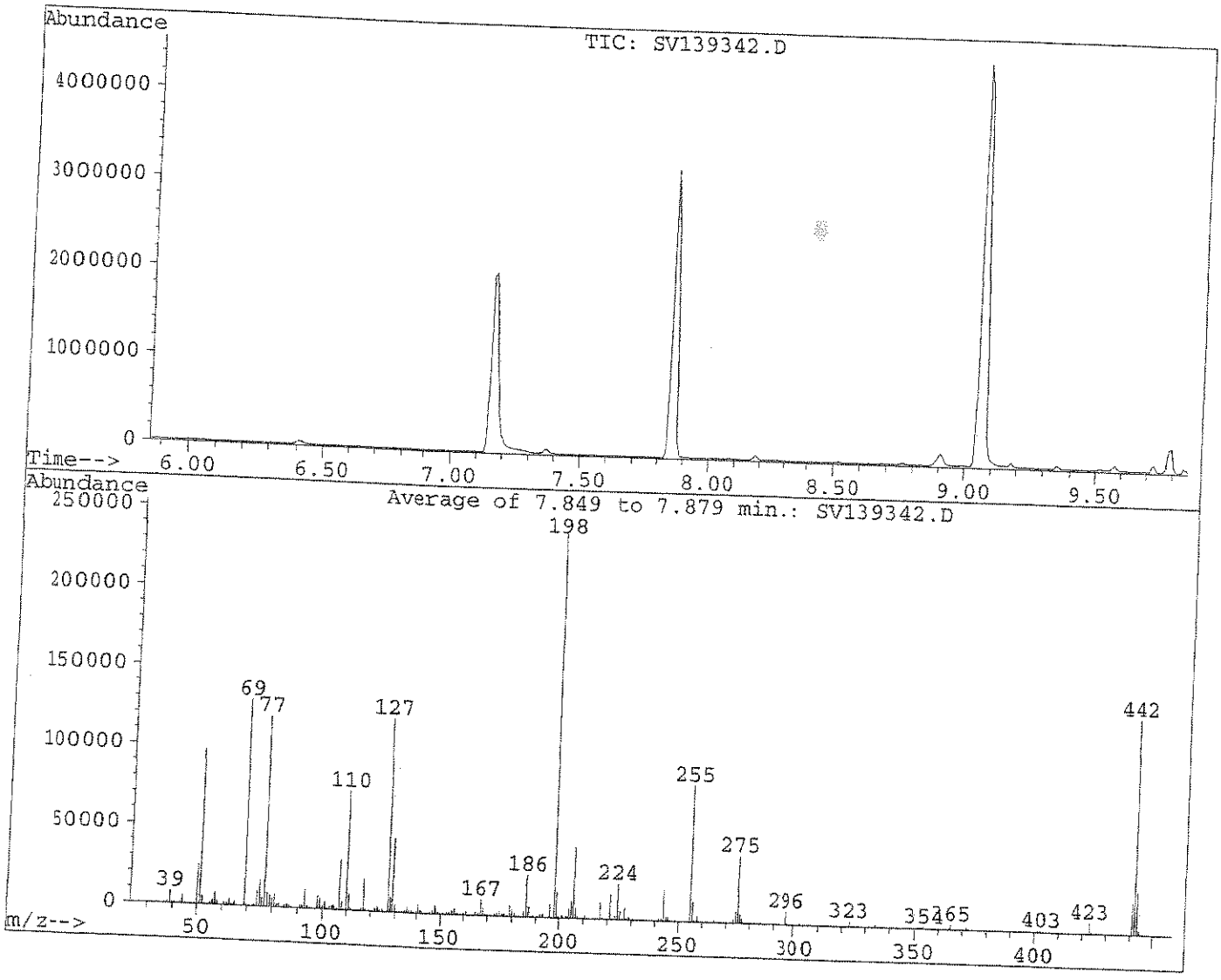
Page________

009

DFTPP CLP

Data File : Q:\SVOA\MS1_MD\MD0606\MD062906\SV139342.D Vial: 1
Acq On : 29 Jun 106 8:59 am Operator: VSC
Sample : BPF0206-TUN1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\DFTPP.M
Title : daily instrument eval mix



Peak Apex is scan: 221

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.4	97321	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	53.6	129355	PASS
70	69	0	2	0.5	676	PASS
127	198	40	60	50.2	121074	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	241112	PASS
199	198	5	9	6.7	16112	PASS
275	198	10	30	17.3	41821	PASS
365	198	1	100	1.2	2820	PASS
441	443	0	100	75.9	19756	PASS
442	198	40	110	55.9	134702	PASS
443	442	17	23	19.3	26026	PASS

Response Factor Report SVOA-MS1

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jun 29 15:16:49 2006
Response via : Initial Calibration

Calibration Files
5 =SV139345.D 80 =SV139348.D 50 =SV139344.D
200 =SV139351.D 120 =SV139349.D 160 =SV139350.D

		Compound	5	80	50	200	120	160	Avg	%RSD	
1)	I	1,4-Dichlorobenzene-d	ISTD								
2)		N-Nitrosodimethylam	0.088	0.113	0.111	0.132	0.123	0.119	0.111	13.45	
3)		Pyridine	0.171	0.201	0.185	0.214	0.202	0.209	0.190	10.58	
4)	S	2-Fluorophenol (SUR	1.447	1.514	1.488	1.523	1.527	1.532	1.483	3.58	
5)		bis(2-Chloroethyl)e	1.746	1.668	1.677	1.416	1.541	1.517	1.633	7.83	
6)	S	Phenol-d5 (SURR)	1.971	1.821	1.907	1.690	1.713	1.703	1.833	6.55	
7)	M	2-Chlorophenol	1.595	1.438	1.500	1.326	1.366	1.357	1.454	6.78	
8)	MC	Phenol	2.479	2.203	2.323	2.012	2.055	2.062	2.245	8.46	
9)		Aniline	2.510	2.293	2.353	2.074	2.115	2.106	2.318	8.90	
10)	S	2-Chlorophenol-d4(S	1.577	1.431	1.506	1.271	1.349	1.323	1.441	8.16	
11)		1,3-Dichlorobenzene	1.666	1.534	1.560	1.447	1.481	1.484	1.547	4.83	
12)	MC	1,4-Dichlorobenzene	1.675	1.579	1.585	1.454	1.515	1.475	1.566	4.96	
13)	S	1,2 Dichlorobenzene	0.945	0.835	0.873	0.698	0.763	0.754	0.838	10.98	
14)		1,2-Dichlorobenzene	1.569	1.391	1.433	1.174	1.306	1.264	1.394	9.89	
15)		Benzyl Alcohol	1.303	1.181	1.214	1.007	1.106	1.081	1.171	8.39	
16)		bis(2-chloroisoprop	2.254	2.042	2.101	1.829	1.953	1.950	2.050	6.59	
17)		2-Methylphenol	1.427	1.305	1.328	1.243	1.279	1.263	1.319	4.59	
18)		Acetophenone	1.970	1.775	1.801	1.684	1.675	1.709	1.796	6.00	
19)	MP	N-Nitroso-Di-n-Prop	1.129	1.022	1.053	0.878	0.961	0.928	1.016	8.60#	
20)		Hexachloroethane	0.663	0.613	0.626	0.515	0.569	0.547	0.601	8.56	
21)		3+4-Methylphenol	1.474	1.341	1.393	1.268	1.291	1.306	1.369	5.85	
22)	I	Naphthalene-d8	ISTD								
23)	S	Nitrobenzene-d5 (SU	0.371	0.363	0.369	0.371	0.363	0.363	0.364	1.81	
24)		Nitrobenzene	0.385	0.357	0.361	0.360	0.354	0.353	0.364	2.92	
25)		Isophorone	0.803	0.743	0.743	0.777	0.748	0.749	0.764	2.98	
26)	C	2-Nitrophenol	0.169	0.211	0.204	0.226	0.219	0.220	0.203	9.95	
27)		Benzoic Acid	0.142	0.280	0.231	0.314	0.327	0.310	0.244	30.59 L	
28)		2,4-Dimethylphenol	0.356	0.336	0.327	0.341	0.330	0.331	0.340	3.28	
29)		bis(2-Chloroethoxy)	0.523	0.495	0.495	0.506	0.489	0.493	0.505	2.77	
30)	C	2,4-Dichlorophenol	0.276	0.269	0.273	0.275	0.266	0.265	0.273	2.31	
31)	M	1,2,4-Trichlorobenz	0.284	0.270	0.271	0.261	0.265	0.263	0.273	3.63	
32)		Naphthalene	1.096	0.949	0.977	0.871	0.884	0.880	0.968	9.01	
33)		4-Chloroaniline	0.477	0.429	0.454	0.369	0.399	0.390	0.434	10.04	
34)	C	Hexachlorobutadiene	0.134	0.118	0.122	0.110	0.113	0.111	0.121	7.97	
35)	MC	4-Chloro-3-Methylph	0.314	0.313	0.300	0.296	0.302	0.291	0.304	2.74	
36)		2-Methylnaphthalene	0.700	0.626	0.646	0.586	0.604	0.586	0.640	7.41	
37)		1-Methylnaphthalene	0.697	0.622	0.638	0.591	0.588	0.581	0.635	7.37	
38)	I	Acenaphthene-d10	ISTD								
39)	P	Hexachlorocyclopent	0.273	0.275	0.228	0.251	0.258	0.259	0.262	6.47#	
40)	C	2,4,6-Trichlorophen	0.377	0.373	0.377	0.384	0.367	0.383	0.377	1.52	
41)		2,4,5-Trichlorophen	0.400	0.397	0.406	0.373	0.393	0.394	0.397	3.02	
42)	S	2-Fluorobiphenyl (S	1.398	1.201	1.287	1.113	1.167	1.159	1.245	8.03	
43)		Biphenyl	1.692	1.368	1.532	1.256	1.206	1.576	1.471	13.26	- 200
44)		2-Chloronaphthalene	1.472	1.206	1.318	1.126	1.174	1.175	1.289	10.65	
45)		Dimethylphthalate	1.454	1.305	1.349	1.266	1.294	1.310	1.349	4.96	
46)		Acenaphthylene	2.251	1.897	1.993	1.775	1.826	1.830	1.979	8.88	
47)		2,6-Dinitrotoluene	0.271	0.310	0.317	0.303	0.303	0.304	0.304	5.03	
48)		2-Nitroaniline	0.391	0.380	0.376	0.391	0.390	0.398	0.386	3.31	
49)	MC	Acenaphthene	1.344	1.160	1.220	1.073	1.111	1.123	1.195	7.89	
50)	P	2,4-Dinitrophenol	0.159	0.107	0.210	0.188	0.204	0.085	0.159	32.92# L	- 10,5
51)		Dibenzofuran	1.775	1.586	1.640	1.502	1.539	1.544	1.628	6.24	
52)	MP	4-Nitrophenol	0.205	0.264	0.253	0.274	0.285	0.292	0.254	12.34#	
53)		3-Nitroaniline	0.433	0.465	0.471	0.453	0.461	0.451	0.457	3.18	
54)	M	2,4-Dinitrotoluene	0.278	0.422	0.390	0.435	0.428	0.440	0.388	14.99 L	

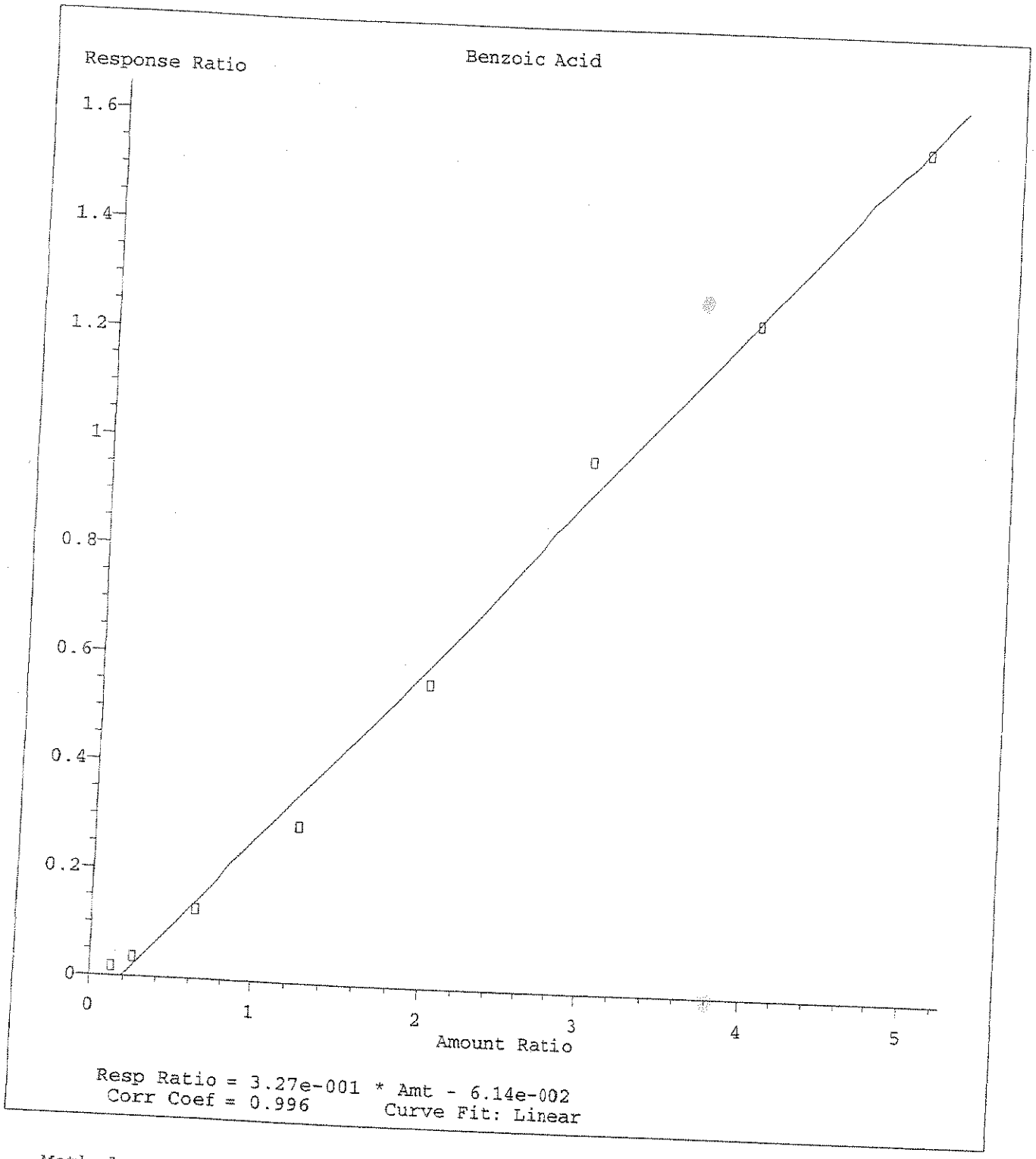
L = Out of Range ### Number of calibration levels exceeded format ###

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jun 29 15:16:49 2006
Response via : Initial Calibration

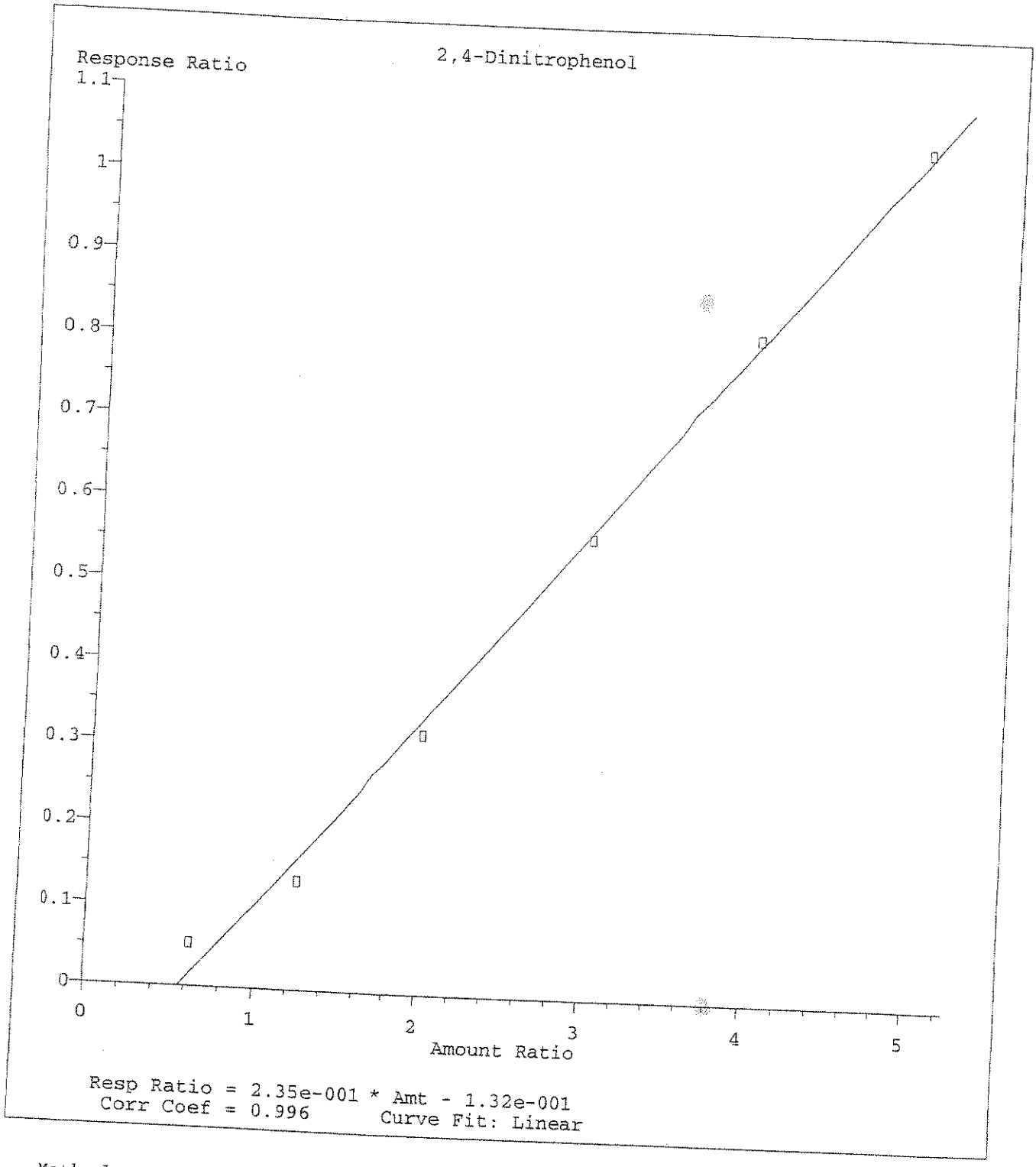
Calibration Files
5 =SV139345.D 80 =SV139348.D 50 =SV139344.D
200 =SV139351.D 120 =SV139349.D 160 =SV139350.D

		Compound	5	80	50	200	120	160	Avg	%RSD	
55)		Fluorene	1.435	1.202	1.301	1.016	1.118	1.101	1.237	12.14	
56)		2,3,4,6-Tetrachloro	0.277	0.280	0.281	0.275	0.270	0.277	0.280	2.96	
57)		Diethylphthalate	1.577	1.377	1.442	1.314	1.338	1.333	1.418	6.62	
58)		4-Chloro-phenyl-phe	0.614	0.518	0.567	0.474	0.466	0.583	0.546	11.03	— 200
59)	I	Phenanthrene-d10	----------ISTD----------								
60)		4-Nitroaniline	0.262	0.319	0.311	0.318	0.320	0.308	0.302	7.27	
61)		4,6-Dinitro-2-Methy	0.041	0.163	0.128	0.178	0.176	0.177	0.131	40.35	L
62)	C	N-nitrosodiphenylam	0.869	0.723	0.770	0.656	0.679	0.649	0.742	10.61	
63)		Azobenzene	1.269	1.142	1.105	1.085	1.122	1.096	1.141	5.09	
64)	S	2,4,6-Tribromopheno	0.088	0.106	0.104	0.108	0.106	0.105	0.103	6.40	
65)		4-Bromophenyl-pheny	0.215	0.197	0.199	0.186	0.187	0.183	0.198	5.83	
66)		Hexachlorobenzene	0.240	0.223	0.220	0.217	0.214	0.213	0.224	4.51	
67)	MC	Pentachlorophenol	0.096	0.136	0.126	0.146	0.135	0.139	0.128	12.33	
68)		Phenanthrene	1.328	1.120	1.191	1.065	1.062	1.055	1.165	9.00	
69)		Anthracene	1.362	1.146	1.211	1.024	1.085	1.038	1.179	10.70	
70)		Carbazole	1.363	1.197	1.229	1.147	1.134	1.119	1.220	7.15	
71)		Di-n-butylphthalate	1.946	1.720	1.760	1.650	1.691	1.637	1.762	6.28	
72)	C	Fluoranthene	1.250	1.149	1.154	1.094	1.124	1.076	1.160	5.38	
73)		Benzidine	0.558	0.616	0.554	0.551	0.494	0.526	0.582	13.64	
74)	I	Chrysene-d12	----------ISTD----------								
75)	M	Pyrene	1.776	1.698	1.704	1.701	1.711	1.684	1.718	1.99	
76)	S	Terphenyl-d14 (SURR	1.066	1.005	1.024	1.008	0.996	1.004	1.023	2.48	
77)		Butylbenzylphthalat	1.137	1.097	1.114	1.080	1.087	1.086	1.103	2.35	
78)		3,3'-Dichlorobenzid	0.536	0.522	0.536	0.504	0.520	0.496	0.520	2.77	
79)		Benzo(a)anthracene	1.540	1.487	1.481	1.583	1.522	1.514	1.514	2.30	
80)		Chrysene	1.401	1.347	1.344	1.310	1.316	1.333	1.351	2.50	
81)		bis(2-Ethylhexyl)ph	1.524	1.455	1.493	1.442	1.454	1.437	1.480	2.84	
82)	I	Perylene-d12	----------ISTD----------								
83)	C	Di-n-octylphthalate	2.585	2.267	2.439	2.217	2.114	2.109	2.352	8.47	
84)		Benzo(b)fluoranthen	1.500	1.588	1.315	1.587	1.553	1.504	1.491	6.15	
85)		Benzo(k)fluoranthen	1.281	0.755	0.972	0.582	1.160	1.209	0.993	27.88	Q — 200, 160
86)	C	Benzo(a)pyrene	1.281	1.159	1.203	1.085	1.116	1.090	1.179	6.61	
87)		Indeno(1,2,3-Cd)Pyr	1.290	1.293	1.300	1.043	0.936	1.324	1.213	12.88	— 200
88)		Dibenzo(a,h)Anthrac	1.098	1.056	1.109	0.851	0.782	1.133	1.021	13.99	— 200
89)		Benzo(g,h,i)perylen	1.119	1.125	1.125	0.816	1.131	1.143	1.076	11.89	— 200, 160

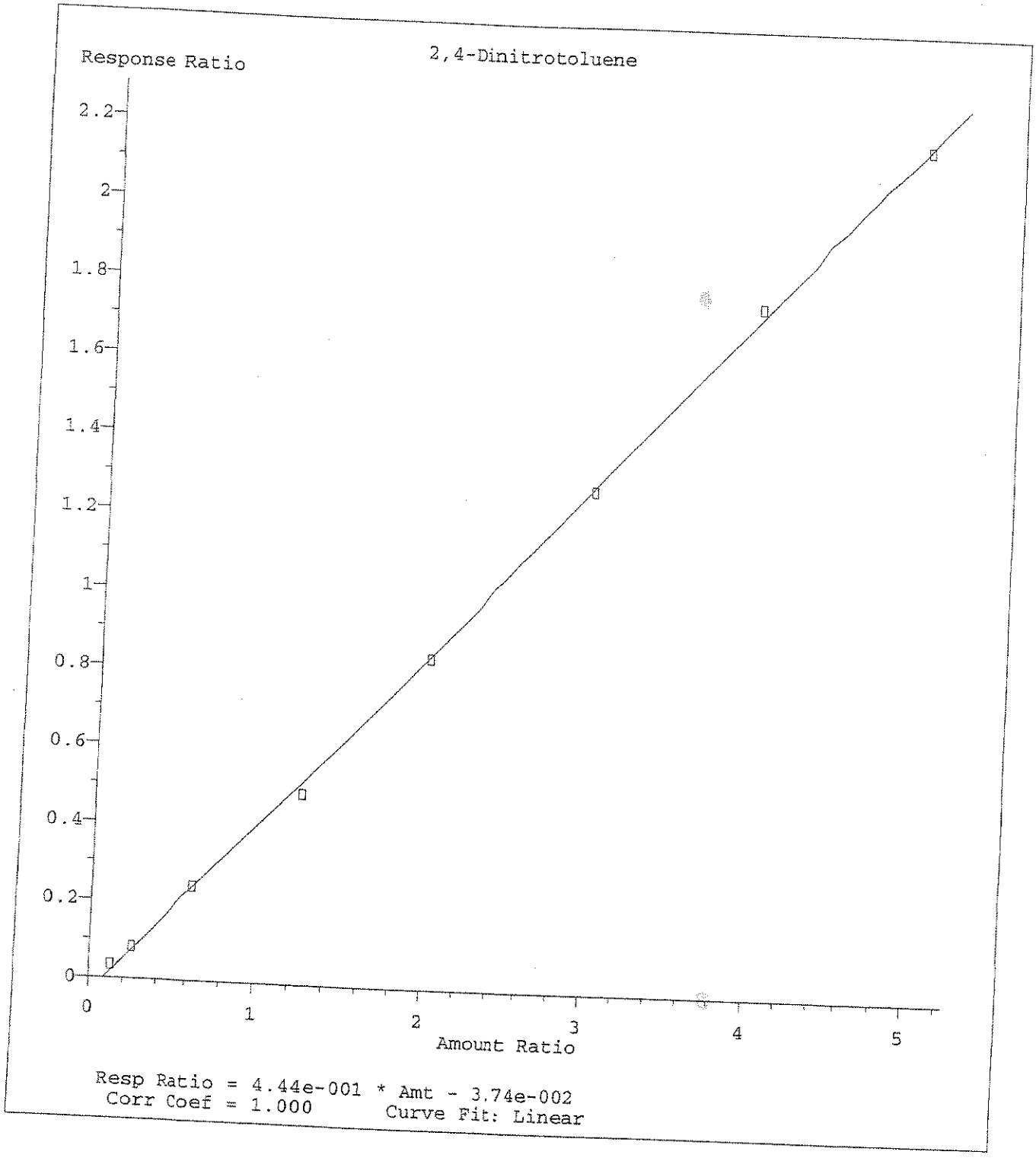
#) = Out of Range ### Number of calibration levels exceeded format ###



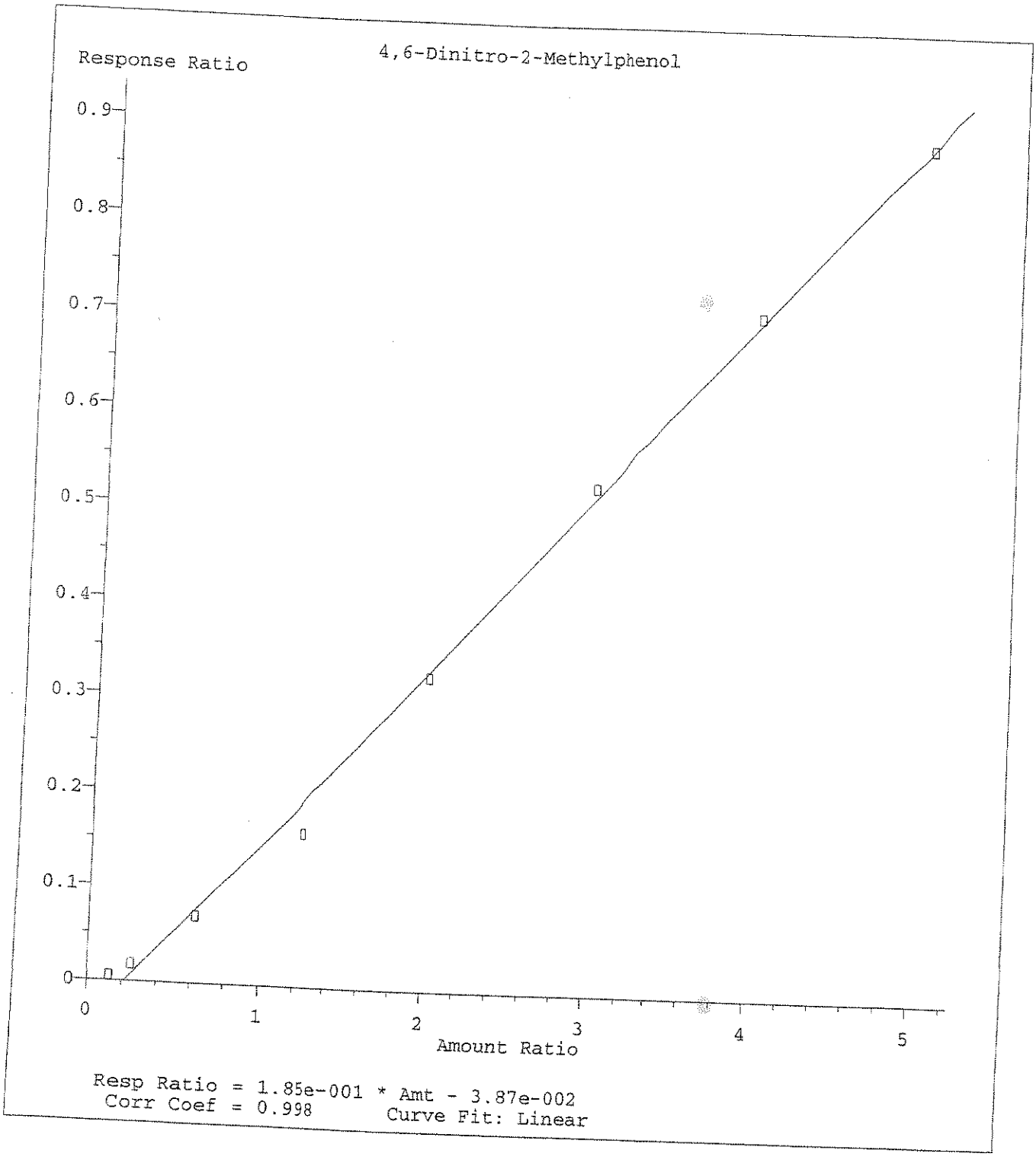
Method Name: C:\HPCHEM\1\METHODS\SV1NG.M
Calibration Table Last Updated: Thu Jun 29 15:16:49 2006



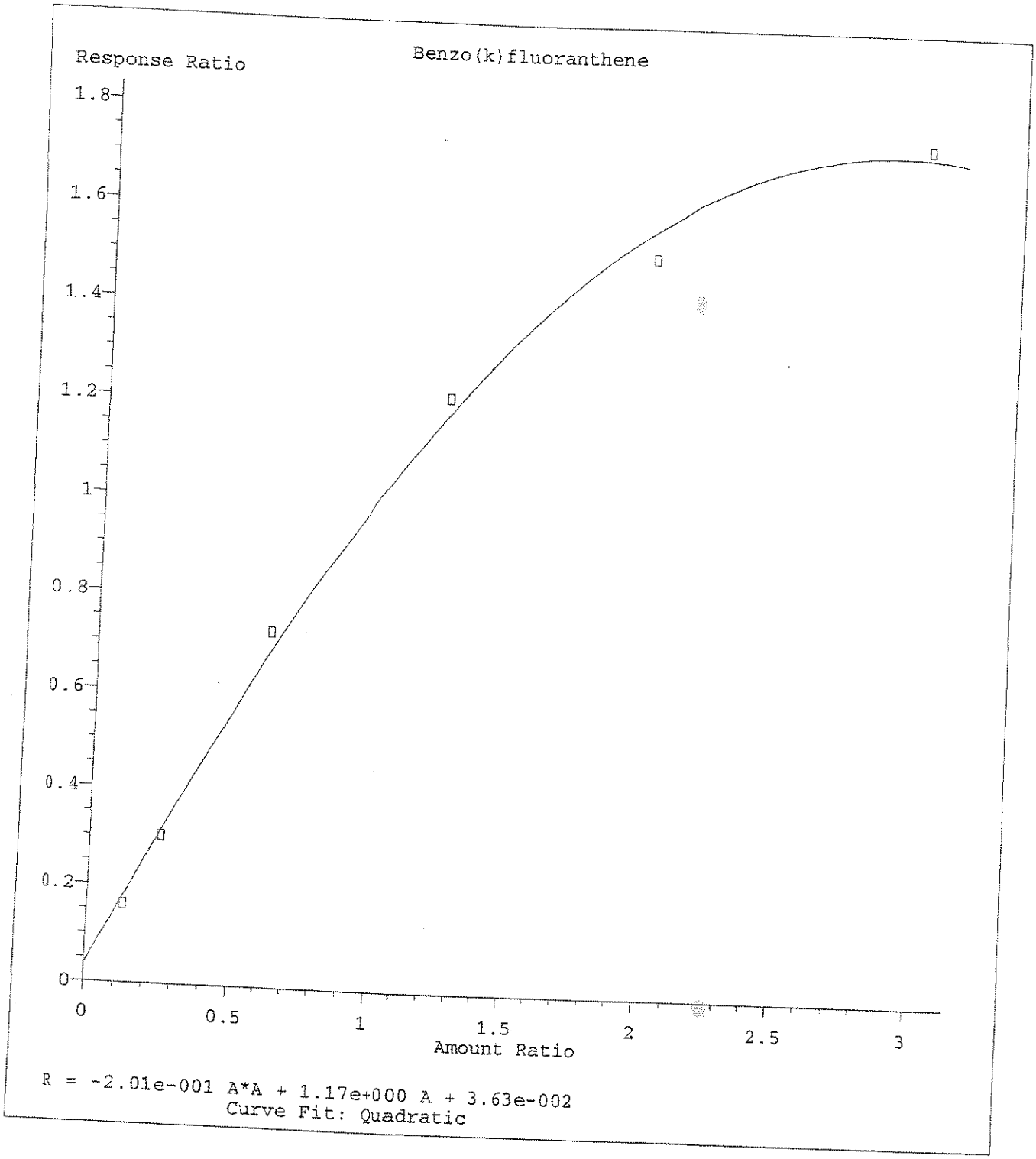
Method Name: C:\HPCHEM\1\METHODS\SV1NG.M
Calibration Table Last Updated: Thu Jun 29 15:16:49 2006



Method Name: C:\HPCHEM\1\METHODS\SV1NG.M
Calibration Table Last Updated: Thu Jun 29 15:16:49 2006



Method Name: C:\HPCHEM\1\METHODS\SV1NG.M
Calibration Table Last Updated: Thu Jun 29 15:16:49 2006



Method Name: C:\HPCHEM\1\METHODS\SV1NG.M
Calibration Table Last Updated: Thu Jun 29 15:16:49 2006

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS1_MD\MD0606\MD062906\SV139352.D Vial: 10
Acq On : 29 Jun 106 3:15 pm Operator: VSC
Sample : BPF0206-SCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jun 29 15:45:09 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	119	0.00
2		N-Nitrosodimethylamine	0.111	0.105	4.7	113	0.00
3		Pyridine	0.190	0.174	8.3	112	0.00
4	S	2-Fluorophenol (SURR)	1.483	1.499	-1.1	119	0.00
5		bis(2-Chloroethyl)ether	1.633	1.687	-3.3	119	0.00
6	S	Phenol-d5 (SURR)	1.833	1.898	-3.5	118	0.00
7	M	2-Chlorophenol	1.454	1.423	2.1	112	0.00
8	MC	Phenol	2.245	2.167	3.4	111	0.00
9		Aniline	2.318	1.820	21.5	92	0.00
10	S	2-Chlorophenol-d4(SURR)	1.441	1.461	-1.4	115	0.00
11		1,3-Dichlorobenzene	1.547	1.499	3.1	114	0.00
12	MC	1,4-Dichlorobenzene	1.566	1.547	1.2	116	0.00
13	S	1,2 Dichlorobenzene-d4(SURR	0.838	0.864	-3.1	117	0.00
14		1,2-Dichlorobenzene	1.394	1.401	-0.5	116	0.00
15		Benzyl Alcohol	1.171	1.150	1.8	112	0.00
16		bis(2-chloroisopropyl)Ether	2.050	2.049	0.0	116	0.00
17		2-Methylphenol	1.319	1.266	4.0	113	0.00
18		Acetophenone	1.796	1.833	-2.1	121	0.00
19	MP	N-Nitroso-Di-n-Propylamine	1.016	0.955	6.0	107	0.00
20		Hexachloroethane	0.601	0.586	2.4	111	0.00
21		3+4-Methylphenol	1.369	2.607	-90.5#	222#	0.02
22	I	Naphthalene-d8	1.000	1.000	0.0	115	0.00
23	S	Nitrobenzene-d5 (SURR)	0.364	0.376	-3.2	117	0.00
24		Nitrobenzene	0.364	0.357	1.7	114	0.00
25		Isophorone	0.764	0.690	9.7	107	0.00
26	C	2-Nitrophenol	0.203	0.217	-7.1	122	0.00
27		Benzoic Acid	0.244	0.273	-11.7	136	0.00
28		2,4-Dimethylphenol	0.340	0.355	-4.4	125	0.00
29		bis(2-Chloroethoxy)methane	0.505	0.510	-1.0	118	0.00
30	C	2,4-Dichlorophenol	0.273	0.280	-2.5	118	0.00
31	M	1,2,4-Trichlorobenzene	0.273	0.275	-0.9	117	0.00
32		Naphthalene	0.968	0.969	-0.1	114	0.00
33		4-Chloroaniline	0.434	0.364	16.1	92	0.00
34	C	Hexachlorobutadiene	0.121	0.123	-1.6	116	0.00
35	MC	4-Chloro-3-Methylphenol	0.304	0.298	1.9	114	0.00
36		2-Methylnaphthalene	0.640	0.637	0.4	113	0.00
37		1-Methylnaphthalene	0.635	0.019	97.1#	3#	0.00
38	I	Acenaphthene-d10	1.000	1.000	0.0	121	0.00
39	P	Hexachlorocyclopentadiene	0.262	0.209	20.2	111	0.00
40	C	2,4,6-Trichlorophenol	0.377	0.358	5.1	115	0.00
41		2,4,5-Trichlorophenol	0.397	0.390	1.7	116	0.00
42	S	2-Fluorobiphenyl (SURR)	1.245	1.248	-0.2	117	0.00
43		Biphenyl	1.471	1.485	-1.0	117	0.00
44		2-Chloronaphthalene	1.289	1.115	13.5	102	0.00
45		Dimethylphthalate	1.349	1.302	3.5	117	0.00
46		Acenaphthylene	1.979	1.783	9.9	108	0.00
47		2,6-Dinitrotoluene	0.304	0.318	-4.6	121	0.00
48		2-Nitroaniline	0.386	0.391	-1.3	126	0.00
49	MC	Acenaphthene	1.195	1.171	2.0	116	0.00
50	P	2,4-Dinitrophenol	0.159	0.143	10.1	161	0.00
51		Dibenzofuran	1.628	1.552	4.7	114	0.00
52	MP	4-Nitrophenol	0.254	0.267	-5.0	128	0.00
53		3-Nitroaniline	0.457	0.454	0.6	116	0.00

(#) = Out of Range

Data File : Q:\SVOA\MS1_MD\MD0606\MD062906\SV139352.D Vial: 10
Acq On : 29 Jun 106 3:15 pm Operator: VSC
Sample : BPF0206-SCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jun 29 15:45:09 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	M	2,4-Dinitrotoluene	0.388	0.406	-4.5	126	0.00
55		Fluorene	1.237	1.225	1.0	114	0.00
56		2,3,4,6-Tetrachlorophenol	0.280	0.276	1.7	118	0.00
57		Diethylphthalate	1.418	1.377	2.9	115	0.00
58		4-Chloro-phenyl-phenyl ethe	0.546	0.543	0.5	116	0.00
59	I	Phenanthrene-d10	1.000	1.000	0.0	121	0.00
60		4-Nitroaniline	0.302	0.304	-0.7	118	0.01
61		4,6-Dinitro-2-Methylphenol	0.131	0.156	-19.6	148	0.01
62	C	N-nitrosodiphenylamine	0.742	0.715	3.7	112	0.01
63		Azobenzene	1.141	1.105	3.1	121	0.01
64	S	2,4,6-Tribromophenol (SURR)	0.103	0.105	-2.7	122	0.01
65		4-Bromophenyl-phenylether	0.198	0.199	-0.6	121	0.00
66		Hexachlorobenzene	0.224	0.216	3.8	118	0.00
67	MC	Pentachlorophenol	0.128	0.148	-15.8	142	0.00
68		Phenanthrene	1.165	1.121	3.8	114	0.00
69		Anthracene	1.179	1.175	0.3	117	0.00
70		Carbazole	1.220	1.190	2.5	117	0.00
71		Di-n-butylphthalate	1.762	1.673	5.1	115	0.00
72	C	Fluoranthene	1.160	1.197	-3.2	125	0.00
73		Benzidine	0.582	0.298	48.8#	65	0.00
74	I	Chrysene-d12	1.000	1.000	0.0	124	0.00
75	M	Pyrene	1.718	1.646	4.2	120	0.00
76	S	Terphenyl-d14 (SURR)	1.023	0.999	2.3	121	0.01
77		Butylbenzylphthalate	1.103	1.039	5.7	115	0.00
78		3,3'-Dichlorobenzidine	0.520	0.476	8.5	110	0.00
79		Benzo(a)anthracene	1.514	1.413	6.7	118	0.00
80		Chrysene	1.351	1.274	5.7	117	0.00
81		bis(2-Ethylhexyl)phthalate	1.480	1.421	4.0	118	0.00
82	I	Perylene-d12	1.000	1.000	0.0	124	0.01
83	C	Di-n-octylphthalate	2.352	2.357	-0.2	119	0.00
84		Benzo(b)fluoranthene	1.491	1.407	5.6	132	0.02
85		Benzo(k)fluoranthene	0.993	0.955	3.8	121	0.02
86	C	Benzo(a)pyrene	1.179	1.088	7.7	112	0.01
87		Indeno(1,2,3-Cd)Pyrene	1.213	1.256	-3.5	119	0.00
88		Dibenzo(a,h)Anthracene	1.021	1.068	-4.7	119	0.02
89		Benzo(g,h,i)perylene	1.076	1.066	1.0	117	0.00

Quantitation Report

Data File : Q:\SVOA\MS1_MD\MD0606\MD062906\SV139352.D Vial: 10
Acq On : 29 Jun 106 3:15 pm Operator: VSC
Sample : BPF0206-SCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00
Quant Time: Jun 29 15:44 19106

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jun 29 15:16:49 2006
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.40	152	570445	40.00	ng/uL	0.00
22) Naphthalene-d8	5.87	136	2067643	40.00	ng/uL	0.00
38) Acenaphthene-d10	8.45	164	963348	40.00	ng/uL	0.00
59) Phenanthrene-d10	11.12	188	1393617	40.00	ng/uL	0.00
74) Chrysene-d12	16.34	240	1033595	40.00	ng/uL	0.00
82) Perylene-d12	18.99	264	1140746	40.00	ng/uL	0.01
System Monitoring Compounds						%Recovery
4) 2-Fluorophenol (SURR)	2.88	112	1069209	50.54	ng/uL	33.70%
6) Phenol-d5 (SURR)	4.08	99	1353046	51.76	ng/uL	34.50%
10) 2-Chlorophenol-d4(SURR)	4.21	132	1041920	50.70	ng/uL	33.80%
13) 1,2 Dichlorobenzene-d4(SUR	4.61	152	616008	51.57	ng/uL	51.57%
23) Nitrobenzene-d5 (SURR)	5.06	82	972311	51.61	ng/uL	51.61%
42) 2-Fluorobiphenyl (SURR)	7.38	172	1502513	50.10	ng/uL	50.10%
64) 2,4,6-Tribromophenol (SURR	9.86	330	183436	51.35	ng/uL	34.23%
76) Terphenyl-d14 (SURR)	14.31	244	1290185	48.83	ng/uL	48.83%
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	1.08	74	75102	47.63	ng/uL	98
3) Pyridine	1.08	79	124052	45.85	ng/ul	98
5) bis(2-Chloroethyl)ether	4.18	93	1203157	51.66	ng/uL	95
7) 2-Chlorophenol	4.22	128	1014892	48.94	ng/uL	93
8) Phenol	4.10	94	1545385	48.28	ng/uL	97
9) Aniline	4.11	93	1298096	39.26	ng/ul	99
11) 1,3-Dichlorobenzene	4.36	146	1068923	48.46	ng/uL	100
12) 1,4-Dichlorobenzene	4.42	146	1103333	49.41	ng/uL	99
14) 1,2-Dichlorobenzene	4.63	146	999095	50.24	ng/uL	99
15) Benzyl Alcohol	4.59	79	820061	49.12	ng/ul	96
16) bis(2-chloroisopropyl)Ethe	4.76	45	1461287	49.98	ng/uL	94
17) 2-Methylphenol	4.73	108	902460	47.98	ng/uL	98
18) Acetophenone	4.89	105	1306840	51.03	ng/ul	98
19) N-Nitroso-Di-n-Propylamine	4.93	70	681000	46.99	ng/uL	96
20) Hexachloroethane	4.97	117	417940	48.78	ng/uL	91
21) 3+4-Methylphenol	4.91	108	1859268	95.26	ng/uL	99
24) Nitrobenzene	5.08	77	923967	49.17	ng/uL	97
25) Isophorone	5.33	82	1782919	45.13	ng/uL	98
26) 2-Nitrophenol	5.43	139	561133	53.53	ng/uL	98
27) Benzoic Acid	5.67	105	705731	49.27	ng/uL	97
28) 2,4-Dimethylphenol	5.48	107	916770	52.19	ng/uL	98
29) bis(2-Chloroethoxy)methane	5.60	93	1316980	50.48	ng/uL	96
30) 2,4-Dichlorophenol	5.71	162	723353	51.24	ng/uL	100
31) 1,2,4-Trichlorobenzene	5.82	180	710870	50.43	ng/uL	99
32) Naphthalene	5.89	128	2505203	50.05	ng/uL	99
33) 4-Chloroaniline	5.98	127	940446	41.93	ng/uL	100
34) Hexachlorobutadiene	6.13	225	317688	50.78	ng/uL	99
35) 4-Chloro-3-Methylphenol	6.62	107	771291	49.06	ng/uL	99
36) 2-Methylnaphthalene	6.81	142	1646483	49.79	ng/uL	99
37) 1-Methylnaphthalene	6.96	142	47909	1.46	ng/ul	96
39) Hexachlorocyclopentadiene	7.14	237	251780	39.89	ng/uL	97
40) 2,4,6-Trichlorophenol	7.26	196	431292	47.45	ng/uL	99
41) 2,4,5-Trichlorophenol	7.32	196	469613	49.13	ng/uL	99
43) Biphenyl	7.51	154	1788075	50.48	ng/ul	98
44) 2-Chloronaphthalene	7.53	162	1343083	43.26	ng/uL	97
45) Dimethylphthalate	8.10	163	1567595	48.25	ng/uL	99
46) Acenaphthylene	8.20	152	2147496	45.06	ng/uL	99
47) 2,6-Dinitrotoluene	8.20	165	382776	52.29	ng/uL	96
48) 2-Nitroaniline	7.73	65	470952	50.64	ng/uL	96

(#) = qualifier out of range (m) = manual integration

Data File : Q:\SVOA\MS1_MD\MD0606\MD062906\SV139352.D Vial: 10
Acq On : 29 Jun 106 3:15 pm Operator: VSC
Sample : BPF0206-SCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00
Quant Time: Jun 29 15:44 19106

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jun 29 15:16:49 2006
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49)	Acenaphthene	8.51	153	1409816	48.99	ng/uL	100
50)	2,4-Dinitrophenol	8.58	184	171711	52.91	ng/uL	92
51)	Dibenzofuran	8.78	168	1868678	47.66	ng/uL	98
52)	4-Nitrophenol	8.72	65	321852	52.51	ng/uL	99
53)	3-Nitroaniline	8.42	65	546856	49.71	ng/uL	92
54)	2,4-Dinitrotoluene	8.86	165	488419	49.08	ng/uL	98
55)	Fluorene	9.39	166	1475432	49.52	ng/uL	100
56)	2,3,4,6-Tetrachlorophenol	9.08	232	331803	49.15	ng/ul	99
57)	Diethylphthalate	9.34	149	1657565	48.53	ng/uL	100
58)	4-Chloro-phenyl-phenyl eth	9.41	204	653928	49.74	ng/uL	96
60)	4-Nitroaniline	9.52	138	530177	50.34	ng/uL	97
61)	4,6-Dinitro-2-Methylphenol	9.60	198	272221	50.49	ng/uL	97
62)	N-nitrosodiphenylamine	9.64	169	1245393	48.15	ng/uL	99
63)	Azobenzene	9.69	77	1925803	48.44	ng/ul	95
65)	4-Bromophenyl-phenylether	10.29	248	346470	50.31	ng/uL	98
66)	Hexachlorobenzene	10.55	284	376063	48.12	ng/uL	91
67)	Pentachlorophenol	10.89	266	257726	57.88	ng/uLm	98
68)	Phenanthrene	11.16	178	1952239	48.12	ng/uL	99
69)	Anthracene	11.25	178	2047596	49.85	ng/uL	99
70)	Carbazole	11.58	167	2073179	48.76	ng/uL	100
71)	Di-n-butylphthalate	12.45	149	2913916	47.46	ng/uL	100
72)	Fluoranthene	13.47	202	2085692	51.61	ng/uL	93
73)	Benzidine	13.78	184	518806	25.60	ng/ul	97
75)	Pyrene	13.91	202	2126853	47.91	ng/uL	98
77)	Butylbenzylphthalate	15.40	149	1342868	47.13	ng/uL	97
78)	3,3'-Dichlorobenzidine	16.33	252	615052	45.75	ng/uL	97
79)	Benzo(a)anthracene	16.30	228	1825156	46.64	ng/uL	99
80)	Chrysene	16.39	228	1646550	47.16	ng/uL	99
81)	bis(2-Ethylhexyl)phthalate	16.63	149	1836102	48.02	ng/uL	100
83)	Di-n-octylphthalate	17.78	149	3360797	50.11	ng/uL	100
84)	Benzo(b)fluoranthene	18.35	252	2006083	47.18	ng/uL	97
85)	Benzo(k)fluoranthene	18.40	252	1361961	50.76	ng/uL	96
86)	Benzo(a)pyrene	18.89	252	1551211	46.14	ng/uL	98
87)	Indeno(1,2,3-Cd)Pyrene	20.66	276	1790859	51.77	ng/uL	99
88)	Dibenzo(a,h)Anthracene	20.69	278	1523218	52.33	ng/uL	89
89)	Benzo(g,h,i)perylene	21.06	276	1520385	49.52	ng/uL	96

(#) = qualifier out of range (m) = manual integration

ANALYSIS SEQUENCE

BPG0020

Instrument: SVOAMS1

Calibnration ID: ~~UNASSIGNED~~ SVIN6

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0020-TUN1	QC		1		6F26111		
BPG0020-CCV1	QC		2		6F27064	6F16045	
0606374-08	SVOC: 8270/3541 ppb PAH	B	3			6F16045	MACTEC Engineering & Consulting, In
0606374-09	SVOC: 8270/3541 ppb PAH	B	4			6F16045	MACTEC Engineering & Consulting, In
0606374-10	SVOC: 8270/3541 ppb PAH	B	5			6F16045	MACTEC Engineering & Consulting, In
0606374-11	SVOC: 8270/3541 ppb PAH	B	6			6F16045	MACTEC Engineering & Consulting, In
0606374-12	SVOC: 8270/3541 ppb PAH	B	7			6F16045	MACTEC Engineering & Consulting, In
0606374-13	SVOC: 8270/3541 ppb PAH	B	8			6F16045	MACTEC Engineering & Consulting, In
0606374-14	SVOC: 8270/3541 ppb PAH	B	9			6F16045	MACTEC Engineering & Consulting, In
0606374-16	SVOC: 8270/3541 ppb PAH	B	10			6F16045	MACTEC Engineering & Consulting, In
0606374-15	SVOC: 8270/3541 ppb PAH	B	11			6F16045	MACTEC Engineering & Consulting, In
0606383-01	SVOC: 8270/3541 ppb PAH	A	12			6F16045	MACTEC Engineering & Consulting, In
0606383-02	SVOC: 8270/3541 ppb PAH	A	13			6F16045	MACTEC Engineering & Consulting, In
BG60520-MS1	QC		14			6F16045	
BG60520-MSD1	QC		15			6F16045	
BF62824-BLK1	QC		16			6F16045	
BF62824-BS1	QC		17			6F16045	
BF62824-BSD1	QC		18			6F16045	
0606383-09	SVOC: 8270/3541 ppb PAH	A	19			6F16045	MACTEC Engineering & Consulting, In
0606383-10	SVOC: 8270/3541 ppb PAH	A	20			6F16045	MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GCMS1 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
7/1/06		SV1 44	0606503-02		6F16045	
		SV1 45	0606376-04		10x	
		SV1 46	0606503-07			
7/1/06		SV1 47	-05			
7/2/06	1	SV1 ~~26~~ 48	BPG0003- TUNI	DFTPP	✓	JLS
	1	SV1 27	BPG0003- TUNI	DFTPP	BPG0026-TUNI (AQ) 6F26111	
	2	SV1 28	BPG0003-CCV1	SVING	✓ TUNI 6F27064	
	3	SV1 29	BF60717-BLK1		✓ 6F26097	
	4	SV1 30	-BS1		✓	
	5	SV1 31	~~-BSD1~~		RR BAD INJECTION	
	6	SV1 32	0606374-01		✓ ~~RR 5x~~	
	7	SV1 33	-02		✓	
	8	SV1 34	-03		~~RR 5x~~	
	9	SV1 35	-04		✓	
	10	SV1 36	-05		✓	
	11	SV1 37	-06		✓	
	12	SV1 38	0606374 -07		~~RR5x~~ ✓+	
	13	SV1 39	0606373 ~~-01~~ 17 JLS 7/3/06		✓	
	14	SV1 40	-18		✓ ~~RR5x~~	
	15	SV1 41	-19		✓ JLS 7/3/06	
	16	SV1 42	-20		✓	
	17	SV1 43	0606373 -21		✓	
	18	SV1 44	0606503-02		✓ X10 RR 20x	
	19	SV1 45	-02		✓ X20	
	20	SV1 46	0606376-04		10x	
	21	SV1 47	0606503-07		✓ RE 10x	
7/2/06	22	SV1 48	-05	SVING	✓	JLS
7/3/06	1	SV1 49	BPG0030- TUNI (SOIL)	DFTPP	6F26111 BPG0031 (AQ)	JLS
7/3/06	5 ~~2~~ JLS 7/3/06	SV1 50	BPG0030- CAL4	EPH RIAK	✓ 6F30095	JLS
7/3/06	3 ~~2~~	SV1 51	BPG0030- CAL1	EPH RIAK	✓ 6F30002	JLS

Control Number 60.0018-0602A

ESS LABORATORY
GCMS1 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
7/3/06	3	SV1 52	BPG0030 -cal2	EPH R1 AK	✓6F30003	JCS
	4	SV1 53	-cal3		✓ 4	
	6	SV1 54	-cal5		✓ 6	
7/3/06	7	SV1 55	BPG0030 -SCV1	EPH R1 AK	6F30007 JCS 7/5/06	JCS
	1	SV1 56	BPG0020 - TUN1		✓ 6F13 6F26111	JCS
	2	SV1 57	BPG0020 CCV1	SVING	✓ 6F27064	
	3	SV1 58	0606374-08		✓ 6F26097	
	4	SV1 59	0606383-11MSD1 ✓			
	5	SV1 60	-11MS1 ✓			
	6	SV1 61	BF62824-BS1			
	7	SV1 62	-BSD1			
	8	SV1 63	-BIK1			
	9	SV1 64	0606374-16		✓	
	10	SV1 65	-14		✓	
	11	SV1 66	-13		✓	
	12	SV1 67	-12		✓	
	13	SV1 68	-09		✓	
	14	SV1 69	-15		✓	
	15	SV1 70	-11		✓	
	16	SV1 71	0606374 -10		✓	
	17	SV1 72	0606383 -02 ✓			
	18	SV1 73	-01 ✓			
	19	SV1 74	-09 ✓			
7/3/06	20	SV1 75	0606383 -10 ✓	SVING	✓	JCS
7/4/06	100	SV1 76	Solvent	SVING		JCS
	1	SV1 77	BPG0021-TUN1	DFTPP	✓ 6F26111 2:14pm	
	2	SV1 78	BPG0021-CCV1	SVING	✓ 6F27064	
	3	SV1 79	BG60107-BIK1		✓ 6F26097	
	4	SV1 80	-BS1		✓	
7/4/06	5	SV1 81	-BSD1	SVING	✓ 6F26097	JCS

Control Number 60.0018-0602A

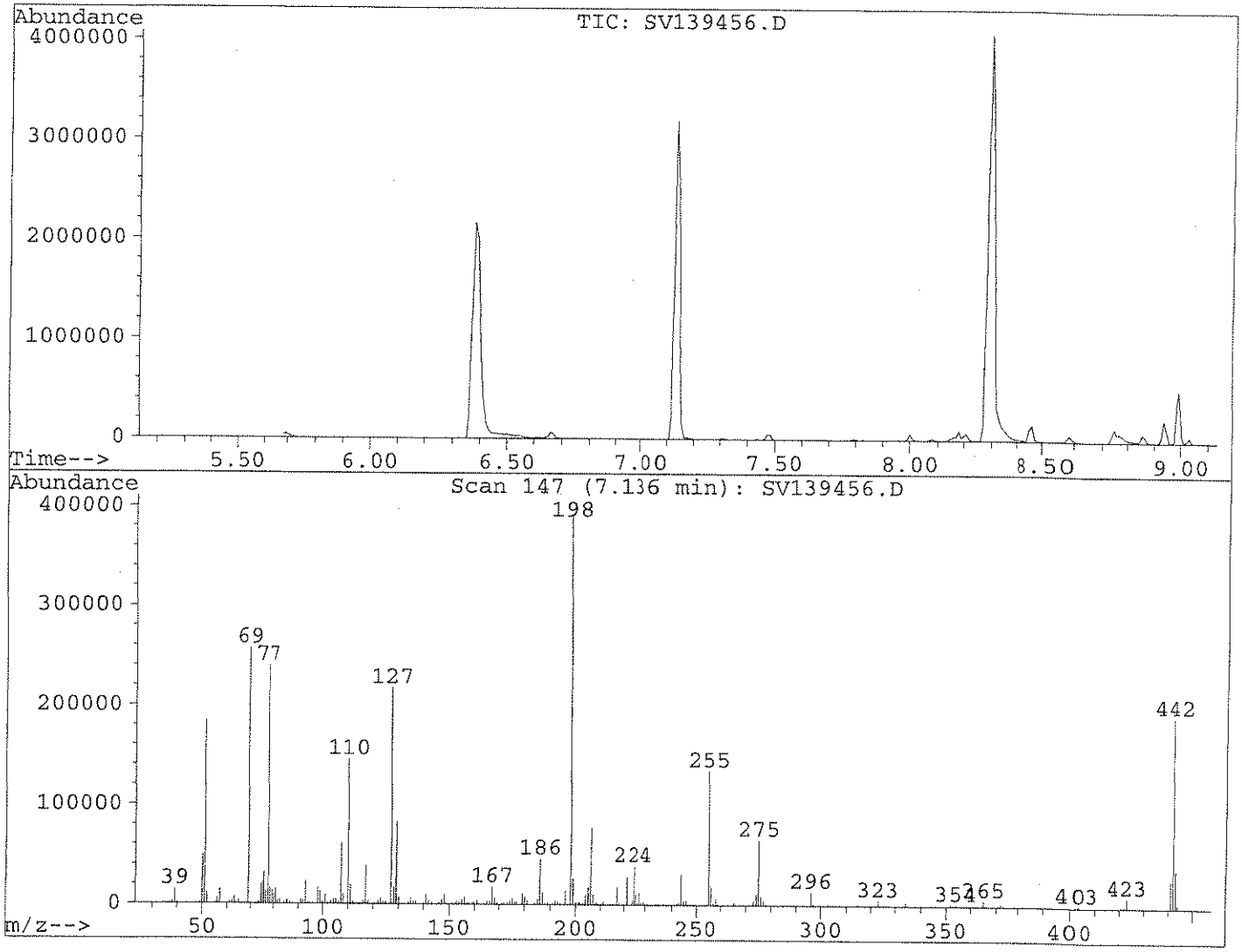
Page________

01

DFTPP CLP

Data File : Q:\SVOA\MS1_MD\MD0706\MD070306\SV139456.D Vial: 1
Acq On : 3 Jul 106 12:40 pm Operator: JLS
Sample : BPG0020-TUN1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\DFTPP.M
Title : daily instrument eval mix



Peak Apex is scan: 147

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.2	184064	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	65.9	256832	PASS
70	69	0	2	0.0	0	PASS
127	198	40	60	55.7	217152	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	389888	PASS
199	198	5	9	6.6	25736	PASS
275	198	10	30	16.7	65288	PASS
365	198	1	100	1.4	5626	PASS
441	443	0	100	71.3	27480	PASS
442	198	40	110	49.0	191168	PASS
443	442	17	23	20.2	38528	PASS

SV139456.D DFTPP.M Fri Jul 21 16:15:32 2006

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS1_MD\MD0706\MD070306\SV139457.D Vial: 2
Acq On : 3 Jul 106 1:00 pm Operator: JLS
Sample : BPG0020-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jul 06 10:24:31 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	0.05
2		N-Nitrosodimethylamine	0.111	0.083	24.9	85	0.02
3		Pyridine	0.190	0.146	23.1	90	0.02
4	S	2-Fluorophenol (SURR)	1.483	1.571	-5.9	120	0.09
5		bis(2-Chloroethyl)ether	1.633	1.788	-9.5	121	0.05
6	S	Phenol-d5 (SURR)	1.833	1.927	-5.1	114	0.05
7	M	2-Chlorophenol	1.454	1.541	-5.9	116	0.05
8	MC	Phenol	2.245	2.463	-9.7	120	0.04
9		Aniline	2.318	2.469	-6.5	119	0.05
10	S	2-Chlorophenol-d4(SURR)	1.441	1.517	-5.2	114	0.05
11		1,3-Dichlorobenzene	1.547	1.658	-7.2	120	0.05
12	MC	1,4-Dichlorobenzene	1.566	1.651	-5.5	118	0.05
13	S	1,2 Dichlorobenzene-d4(SURR	0.838	0.870	-3.9	113	0.05
14		1,2-Dichlorobenzene	1.394	1.460	-4.7	115	0.04
15		Benzyl Alcohol	1.171	1.171	-0.0	109	0.05
16		bis(2-chloroisopropyl)Ether	2.050	2.171	-5.9	117	0.04
17		2-Methylphenol	1.319	1.367	-3.6	117	0.05
18		Acetophenone	1.796	1.895	-5.5	119	0.04
19	MP	N-Nitroso-Di-n-Propylamine	1.016	1.009	0.7	108	0.05
20		Hexachloroethane	0.601	0.609	-1.4	110	0.04
21		3+4-Methylphenol	1.369	1.365	0.2	111	0.04
22	I	Naphthalene-d8	1.000	1.000	0.0	110	0.05
23	S	Nitrobenzene-d5 (SURR)	0.364	0.417	-14.3	124	0.04
24		Nitrobenzene	0.364	0.400	-10.0	122	0.05
25		Isophorone	0.764	0.810	-5.9	120	0.05
26	C	2-Nitrophenol	0.203	0.240	-18.1	129	0.05
27		Benzoic Acid	0.244	0.348	-42.5#	166	0.05
28		2,4-Dimethylphenol	0.340	0.369	-8.7	124	0.05
29		bis(2-Chloroethoxy)methane	0.505	0.554	-9.7	123	0.05
30	C	2,4-Dichlorophenol	0.273	0.295	-8.1	119	0.05
31	M	1,2,4-Trichlorobenzene	0.273	0.293	-7.5	119	0.05
32		Naphthalene	0.968	1.034	-6.8	116	0.06
33		4-Chloroaniline	0.434	0.470	-8.2	114	0.06
34	C	Hexachlorobutadiene	0.121	0.128	-5.4	115	0.06
35	MC	4-Chloro-3-Methylphenol	0.304	0.341	-12.1	125	0.06
36		2-Methylnaphthalene	0.640	0.679	-6.1	116	0.06
37		1-Methylnaphthalene	0.635	0.672	-5.9	116	0.06
38	I	Acenaphthene-d10	1.000	1.000	0.0	114	0.07
39	P	Hexachlorocyclopentadiene	0.262	0.286	-9.3	143	0.06
40	C	2,4,6-Trichlorophenol	0.377	0.401	-6.3	121	0.06
41		2,4,5-Trichlorophenol	0.397	0.442	-11.4	124	0.06
42	S	2-Fluorobiphenyl (SURR)	1.245	1.297	-4.2	115	0.06
43		Biphenyl	1.471	1.428	2.9	106	0.06
44		2-Chloronaphthalene	1.289	1.287	0.2	111	0.06
45		Dimethylphthalate	1.349	1.408	-4.4	119	0.06
46		Acenaphthylene	1.979	2.177	-10.0	124	0.06
47		2,6-Dinitrotoluene	0.304	0.376	-23.9	135	0.07
48		2-Nitroaniline	0.386	0.438	-13.4	133	0.07
49	MC	Acenaphthene	1.195	1.249	-4.5	117	0.07
50	P	2,4-Dinitrophenol	0.159	0.184	-16.0	196	0.07
51		Dibenzofuran	1.628	1.685	-3.5	117	0.07
52	MP	4-Nitrophenol	0.254	0.291	-14.2	131	0.06
53		3-Nitroaniline	0.457	0.495	-8.4	120	0.07

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS1_MD\MD0706\MD070306\SV139457.D Vial: 2
Acq On : 3 Jul 106 1:00 pm Operator: JLS
Sample : BPG0020-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jul 06 10:24:31 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	M	2,4-Dinitrotoluene	0.388	0.485	-25.0	142	0.06
55		Fluorene	1.237	1.296	-4.7	113	0.06
56		2,3,4,6-Tetrachlorophenol	0.280	0.307	-9.6	125	0.07
57		Diethylphthalate	1.418	1.442	-1.7	114	0.06
58		4-Chloro-phenyl-phenyl ethe	0.546	0.588	-7.8	118	0.07
59	I	Phenanthrene-d10	1.000	1.000	0.0	114	0.07
60		4-Nitroaniline	0.302	0.356	-17.7	130	0.07
61		4,6-Dinitro-2-Methylphenol	0.131	0.195	-48.9#	173	0.07
62	C	N-nitrosodiphenylamine	0.742	0.777	-4.7	115	0.07
63		Azobenzene	1.141	1.278	-12.0	131	0.06
64	S	2,4,6-Tribromophenol (SURR)	0.103	0.119	-16.1	130	0.06
65		4-Bromophenyl-phenylether	0.198	0.210	-6.3	120	0.07
66		Hexachlorobenzene	0.224	0.242	-8.1	125	0.07
67	MC	Pentachlorophenol	0.128	0.128	-0.1	115	0.07
68		Phenanthrene	1.165	1.220	-4.7	116	0.07
69		Anthracene	1.179	1.265	-7.3	119	0.07
70		Carbazole	1.220	1.278	-4.7	118	0.07
71		Di-n-butylphthalate	1.762	1.895	-7.5	122	0.07
72	C	Fluoranthene	1.160	1.258	-8.4	124	0.07
73		Benzidine	0.582	0.614	-5.5	126	0.07
74	I	Chrysene-d12	1.000	1.000	0.0	129	0.09
75	M	Pyrene	1.718	1.608	6.4	122	0.08
76	S	Terphenyl-d14 (SURR)	1.023	0.929	9.1	117	0.07
77		Butylbenzylphthalate	1.103	1.038	5.9	121	0.08
78		3,3'-Dichlorobenzidine	0.520	0.483	7.1	117	0.08
79		Benzo(a)anthracene	1.514	1.406	7.2	123	0.08
80		Chrysene	1.351	1.240	8.2	119	0.08
81		bis(2-Ethylhexyl)phthalate	1.480	1.396	5.7	121	0.07
82	I	Perylene-d12	1.000	1.000	0.0	123	0.09
83	C	Di-n-octylphthalate	2.352	2.405	-2.3	121	0.07
84		Benzo(b)fluoranthene	1.491	1.586	-6.4	148	0.09
85		Benzo(k)fluoranthene	0.993	0.886	10.8	112	0.09
86	C	Benzo(a)pyrene	1.179	1.201	-1.9	123	0.09
87		Indeno(1,2,3-Cd)Pyrene	1.213	1.301	-7.3	123	0.09
88		Dibenzo(a,h)Anthracene	1.021	1.084	-6.2	120	0.09
89		Benzo(g,h,i)perylene	1.076	1.088	-1.0	119	0.09

(#) = Out of Range SPCC's out = 0 CCC's out = 0
SV139457.D SV1NG.M Fri Jul 21 16:18:02 2006 630

Quantitation Report

Data File : Q:\SVOA\MS1_MD\MD0706\MD070306\SV139457.D Vial: 2
Acq On : 3 Jul 106 1:00 pm Operator: JLS
Sample : BPG0020-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00
Quant Time: Jul 3 13:21 19106

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jul 06 10:24:31 2006
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.78	152	544874	40.00	ng/uL	0.00
22) Naphthalene-d8	5.12	136	1979570	40.00	ng/uL	-0.01
38) Acenaphthene-d10	7.52	164	908390	40.00	ng/uL	-0.02
59) Phenanthrene-d10	10.08	188	1308278	40.00	ng/uL	-0.02
74) Chrysene-d12	15.22	240	1080958	40.00	ng/uL	-0.02
82) Perylene-d12	17.84	264	1134377	40.00	ng/uL	-0.02
System Monitoring Compounds						%Recovery
4) 2-Fluorophenol (SURR)	1.92	112	1069978	52.95	ng/uL	35.30%
6) Phenol-d5 (SURR)	3.49	99	1312198	52.55	ng/uL	35.03%
10) 2-Chlorophenol-d4(SURR)	3.58	132	1032914	52.62	ng/uL	35.08%
13) 1,2 Dichlorobenzene-d4(SUR	3.98	152	592834	51.95	ng/uL	51.95%
23) Nitrobenzene-d5 (SURR)	4.39	82	1030615	57.14	ng/uL	57.14%
42) 2-Fluorobiphenyl (SURR)	6.53	172	1473106	52.09	ng/uL	52.09%
64) 2,4,6-Tribromophenol (SURR	8.86	330	194673	58.05	ng/uL	38.70%
76) Terphenyl-d14 (SURR)	13.24	244	1255882	45.45	ng/uL	45.45%
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.81	74	56530	37.54	ng/uL	100
3) Pyridine	0.81	79	99383	38.46	ng/ul	97
5) bis(2-Chloroethyl)ether	3.57	93	1217836	54.74	ng/uL	97
7) 2-Chlorophenol	3.60	128	1049257	52.97	ng/uL	94
8) Phenol	3.50	94	1677407	54.86	ng/uL	90
9) Aniline	3.48	93	1681446	53.24	ng/ul	94
11) 1,3-Dichlorobenzene	3.74	146	1129051	53.59	ng/uL	99
12) 1,4-Dichlorobenzene	3.80	146	1124821	52.73	ng/uL	100
14) 1,2-Dichlorobenzene	3.99	146	994114	52.34	ng/uL	99
15) Benzyl Alcohol	3.98	79	797411	50.00	ng/ul	93
16) bis(2-chloroisopropyl)Ethe	4.14	45	1478445	52.94	ng/uL	95
17) 2-Methylphenol	4.13	108	930849	51.81	ng/uL	98
18) Acetophenone	4.24	105	1290516	52.76	ng/ul	97
19) N-Nitroso-Di-n-Propylamine	4.29	70	687153	49.64	ng/uL	97
20) Hexachloroethane	4.30	117	415036	50.71	ng/uL	99
21) 3+4-Methylphenol	4.29	108	929966	49.89	ng/uL	99
24) Nitrobenzene	4.41	77	989657	55.00	ng/uL	93
25) Isophorone	4.66	82	2003124	52.96	ng/uL	99
26) 2-Nitrophenol	4.74	139	592774	59.06	ng/uL	99
27) Benzoic Acid	5.04	105	861534	60.75	ng/uL	98
28) 2,4-Dimethylphenol	4.81	107	913679	54.33	ng/uL	96
29) bis(2-Chloroethoxy)methane	4.91	93	1370040	54.85	ng/uL	95
30) 2,4-Dichlorophenol	4.99	162	730635	54.05	ng/uL	97
31) 1,2,4-Trichlorobenzene	5.08	180	725238	53.74	ng/uL	98
32) Naphthalene	5.15	128	2558500	53.39	ng/uL	100
33) 4-Chloroaniline	5.25	127	1161883	54.10	ng/uL	100
34) Hexachlorobutadiene	5.37	225	315783	52.72	ng/uL	99
35) 4-Chloro-3-Methylphenol	5.86	107	843860	56.06	ng/uL	93
36) 2-Methylnaphthalene	5.98	142	1679227	53.04	ng/uL	99
37) 1-Methylnaphthalene	6.12	142	1663218	52.95	ng/ul	100
39) Hexachlorocyclopentadiene	6.29	237	325307	54.66	ng/uL	100
40) 2,4,6-Trichlorophenol	6.42	196	455706	53.17	ng/uL	99
41) 2,4,5-Trichlorophenol	6.48	196	502223	55.72	ng/uL	100
43) Biphenyl	6.65	154	1621362	48.54	ng/ul	98
44) 2-Chloronaphthalene	6.65	162	1461056	49.91	ng/uL	97
45) Dimethylphthalate	7.22	163	1599307	52.20	ng/uL	99
46) Acenaphthylene	7.27	152	2472511	55.01	ng/uL	99
47) 2,6-Dinitrotoluene	7.31	165	427413	61.93	ng/uL	98
48) 2-Nitroaniline	6.87	65	497405	56.72	ng/uL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\SVOA\MS1_MD\MD0706\MD070306\SV139457.D Vial: 2
Acq On : 3 Jul 106 1:00 pm Operator: JLS
Sample : BPG0020-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00
Quant Time: Jul 3 13:21 19106

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jul 06 10:24:31 2006
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) Acenaphthene	7.58	153	1417788	52.24	ng/uL	99
50) 2,4-Dinitrophenol	7.68	184	208950	61.74	ng/uL	97
51) Dibenzofuran	7.83	168	1912731	51.74	ng/uL	75
52) 4-Nitrophenol	7.84	65	329985	57.10	ng/uL	94
53) 3-Nitroaniline	7.52	65	561947	54.18	ng/uL	96
54) 2,4-Dinitrotoluene	7.93	165	550655	58.02	ng/uL	97
55) Fluorene	8.41	166	1471241	52.36	ng/uL	100
56) 2,3,4,6-Tetrachlorophenol	8.13	232	348911	54.81	ng/ul	98
57) Diethylphthalate	8.40	149	1637434	50.84	ng/uL	98
58) 4-Chloro-phenyl-phenyl eth	8.45	204	668059	53.89	ng/uL	99
60) 4-Nitroaniline	8.57	138	581990	58.86	ng/uL	98
61) 4,6-Dinitro-2-Methylphenol	8.64	198	318137	60.81	ng/uL	89
62) N-nitrosodiphenylamine	8.69	169	1270719	52.33	ng/uL	99
63) Azobenzene	8.72	77	2089560	55.99	ng/ul	98
65) 4-Bromophenyl-phenylether	9.30	248	343691	53.16	ng/uL	95
66) Hexachlorobenzene	9.54	284	396477	54.05	ng/uL	99
67) Pentachlorophenol	9.89	266	209246	50.05	ng/uL	99
68) Phenanthrene	10.13	178	1994862	52.37	ng/uL	99
69) Anthracene	10.20	178	2068244	53.63	ng/uL	99
70) Carbazole	10.55	167	2090279	52.37	ng/uL	99
71) Di-n-butylphthalate	11.46	149	3098546	53.76	ng/uL	100
72) Fluoranthene	12.39	202	2056969	54.22	ng/uL	95
73) Benzidine	12.73	184	1003465	52.74	ng/ul	95
75) Pyrene	12.81	202	2172133	46.78	ng/uL	96
77) Butylbenzylphthalate	14.36	149	1402346	47.06	ng/uL	98
78) 3,3'-Dichlorobenzidine	15.25	252	653095	46.45	ng/uL	96
79) Benzo(a)anthracene	15.18	228	1899773	46.42	ng/uL	100
80) Chrysene	15.27	228	1676018	45.90	ng/uL	99
81) bis(2-Ethylhexyl)phthalate	15.60	149	1886150	47.17	ng/uL	98
83) Di-n-octylphthalate	16.76	149	3410312	51.13	ng/uL	99
84) Benzo(b)fluoranthene	17.21	252	2249259	53.20	ng/uL	99
85) Benzo(k)fluoranthene	17.25	252	1256257	45.69	ng/uL	98
86) Benzo(a)pyrene	17.74	252	1702700	50.93	ng/uL	98
87) Indeno(1,2,3-Cd)Pyrene	19.49	276	1844964	53.63	ng/uL	98
88) Dibenzo(a,h)Anthracene	19.53	278	1537121	53.10	ng/uL	100
89) Benzo(g,h,i)perylene	19.84	276	1542411	50.52	ng/uL	92

(#) = qualifier out of range (m) = manual integration

ANALYSIS SEQUENCE

BPG0042

Instrument: SVOA-MS1

Calibration ID: ~~UNASSIGNED~~ SVING

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0042-TUN1	QC		1		6F26111		
BPG0042-CCV1	QC		2		6F27064	6F16045	
0606383-11	SVOC: 8270/3541 ppb PAH	A	3			6F16045	MACTEC Engineering & Consulting, In
0606383-03	SVOC: 8270/3541 ppb PAH	A	4			6F16045	MACTEC Engineering & Consulting, In
0606383-04	SVOC: 8270/3541 ppb PAH	A	5			6F16045	MACTEC Engineering & Consulting, In
0606383-05	SVOC: 8270/3541 ppb PAH	A	6			6F16045	MACTEC Engineering & Consulting, In
0606383-06	SVOC: 8270/3541 ppb PAH	A	7			6F16045	MACTEC Engineering & Consulting, In
0606383-07	SVOC: 8270/3541 ppb PAH	A	8			6F16045	MACTEC Engineering & Consulting, In
0606383-08	SVOC: 8270/3541 ppb PAH	A	9			6F16045	MACTEC Engineering & Consulting, In
0606383-12	SVOC: 8270/3541 ppb PAH	A	10			6F16045	MACTEC Engineering & Consulting, In
0606383-13	SVOC: 8270/3541 ppb PAH	A	11			6F16045	MACTEC Engineering & Consulting, In
0606383-14	SVOC: 8270/3541 ppb PAH	A	12			6F16045	MACTEC Engineering & Consulting, In

Samples Loaded By Date Data Processed By Date

ESS LABORATORY
GCMS1 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
7/3/06	34	SV1 52	RPG0030 -COL2	EPHRIAK	✓6F30003 JCS 7/3/06	JCS
	35	SV1 53	-COL3		✓ 4	
	36	SV1 54	-COL5		✓ 6	
7/3/06	7	SV1 55	RPG0030 -SCX1	EPHRIAK	✓6F3007 JCS 7/5/06	JCS
	1	SV1 56	RPG0020 - TUNE		✓ 6F13 6F26111	JCS
	2	SV1 57	RPG0020 CCV1	SVING	✓ 6F27064	
	3	SV1 58	06006374-08		✓ 6F26097	
	4	SV1 59	06006383-11HSD1 ✓			
	5	SV1 60	-11HS1 ✓			
	6	SV1 61	BF62824-BS1			
	7	SV1 62	-BSD1			
	8	SV1 63	-BLK			
	9	SV1 64	06006374-16		✓	
	10	SV1 65	-14		✓	
	11	SV1 66	-13		✓	
	12	SV1 67	-12		✓	
	13	SV1 68	-09		✓	
	14	SV1 69	-15		✓	
	15	SV1 70	-11		✓	
	16	SV1 71	06006374 -10		✓	
	17	SV1 72	06006383 -02 ✓			
	18	SV1 73	-01 ✓			
	19	SV1 74	-09 ✓			
7/3/06	20	SV1 75	06006383 -10 ✓	SVING	✓	JCS
7/4/06	100	SV1 176	Solvent	SVING		JCS
	1	SV1 77	RPG0021-TUNE	DFTPP	✓ 6F26111 2:54pm	
	2	SV1 78	RPG0021-CCV1	SVING	✓ 6F27064	
	3	SV1 79	BG60107-BLK		✓ 6F26097	
	4	SV1 80	-BS1		✓ ✓	
7/4/06	5	SV1 81	-BSD1	SVING	✓ 6F26097	JCS

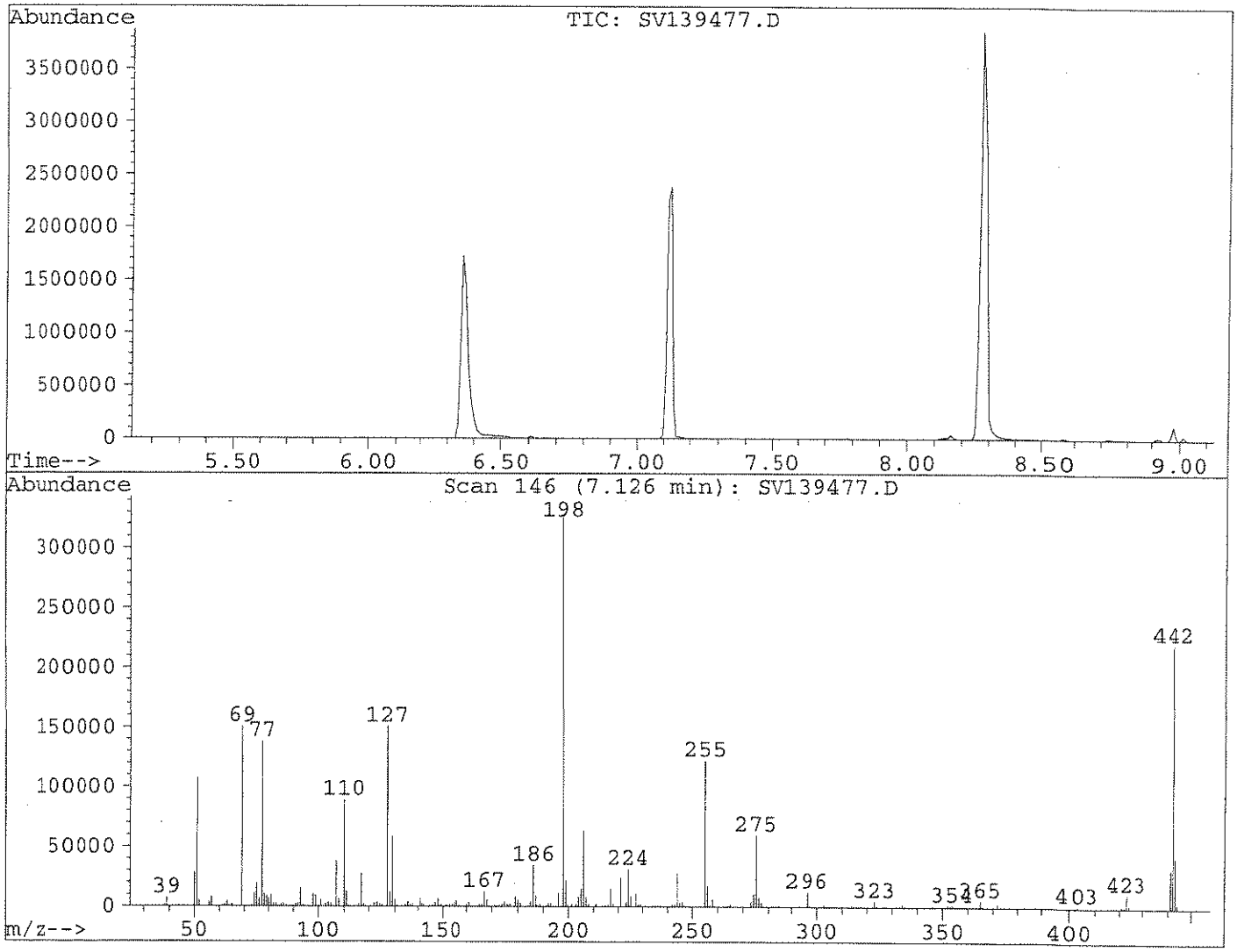
ESS LABORATORY
GCMS1 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
7/4/06	6	SV1 82	0606464-01	SVINGT	✓ EE2697	JCS
	7	SV1 83	-02		✓	
	8	SV1 84	-03		✓	
	9	SV1 85	BF63009-BLK1		✓	
	10	SV1 86	-BS1		✓	
	11	SV1 87	-BSD1		✓	
	12	SV1 88	0606375-01		✓ surr failed confirmation from reextract	
	13	SV1 89	0606488-02		✓	
	14	SV1 90	0606499-01		✓	
	15	SV1 91	0606383-03 ✓			
	16	SV1 92	-04 ✓			
	17	SV1 93	-05 ✓			
	18	SV1 94	-06 ✓			
	19	SV1 95	-07 ✓			
	20	SV1 96	-08 ✓			
	21	SV1 97	-12 ✓			
	22	SV1 98	-13 ✓			
	23	SV1 99	-14 ✓			
	24	SV1 00	-11 ✓		2:26AM	
	25	SV1 01	-13MS1		Out of Tune time	
7/4/06	26	SV1 02	0606383 -13MSD1	SVINGT	✓	JCS
7/5/06	1	SV1 03	BFG0032 TUNE1	DFTPP	✓	JCS
	2	SV1 04	BFG0032 CCV1	EPHPIAC	✓	
	3	SV1 05	0606487-02		✓	
	4	SV1 06	-03		✓	
	5	SV1 07	-01		✓	
	6	SV1 08	-04		✓	
	7	SV1 09	0606487 -05		✓	
7/5/06	2	SV1 10	BFG0032 CCV2	EPHPIAC	✓	JCS
		SV1				

Data File : Q:\SVOA\MS1_MD\MD0706\MD070406\SV139477.D Vial: 1
Acq On : 4 Jul 106 2:54 pm Operator: JLS
Sample : BPG0021-TUN1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\DFTPP.M
Title : daily instrument eval mix



Peak Apex is scan: 146

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	33.0	107592	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	46.2	150592	PASS
70	69	0	2	0.4	548	PASS
127	198	40	60	46.2	150592	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	326016	PASS
199	198	5	9	6.6	21432	PASS
275	198	10	30	18.3	59688	PASS
365	198	1	100	1.6	5317	PASS
441	443	0	100	75.3	32008	PASS
442	198	40	110	67.5	220096	PASS
443	442	17	23	19.3	42488	PASS

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS1_MD\MD0706\MD070406\SV139478.D Vial: 2
Acq On : 4 Jul 106 3:13 pm Operator: JLS
Sample : BPG0021-CCV1 Inst : SV0A-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jul 06 10:24:31 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.03
2		N-Nitrosodimethylamine	0.111	0.087	21.3	86	0.00
3		Pyridine	0.190	0.146	22.9	87	0.00
4	S	2-Fluorophenol (SURR)	1.483	1.580	-6.5	117	0.04
5		bis(2-Chloroethyl)ether	1.633	1.739	-6.5	114	0.03
6	S	Phenol-d5 (SURR)	1.833	1.968	-7.4	113	0.03
7	M	2-Chlorophenol	1.454	1.547	-6.4	113	0.03
8	MC	Phenol	2.245	2.466	-9.9	117	0.03
9		Aniline	2.318	2.477	-6.9	116	0.03
10	S	2-Chlorophenol-d4(SURR)	1.441	1.540	-6.9	113	0.04
11		1,3-Dichlorobenzene	1.547	1.595	-3.1	112	0.03
12	MC	1,4-Dichlorobenzene	1.566	1.634	-4.4	113	0.03
13	S	1,2 Dichlorobenzene-d4(SURR	0.838	0.874	-4.4	110	0.04
14		1,2-Dichlorobenzene	1.394	1.445	-3.7	111	0.03
15		Benzyl Alcohol	1.171	1.198	-2.4	109	0.03
16		bis(2-chloroisopropyl)Ether	2.050	2.199	-7.3	115	0.03
17		2-Methylphenol	1.319	1.386	-5.1	115	0.03
18		Acetophenone	1.796	1.898	-5.7	116	0.03
19	MP	N-Nitroso-Di-n-Propylamine	1.016	1.038	-2.1	108	0.04
20		Hexachloroethane	0.601	0.625	-4.0	110	0.03
21		3+4-Methylphenol	1.369	1.449	-5.9	114	0.03
22	I	Naphthalene-d8	1.000	1.000	0.0	108	0.04
23	S	Nitrobenzene-d5 (SURR)	0.364	0.424	-16.2	124	0.03
24		Nitrobenzene	0.364	0.408	-12.1	122	0.04
25		Isophorone	0.764	0.815	-6.7	118	0.04
26	C	2-Nitrophenol	0.203	0.243	-19.9	129	0.04
27		Benzoic Acid	0.244	0.343	-40.3#	160	0.03
28		2,4-Dimethylphenol	0.340	0.370	-8.9	122	0.03
29		bis(2-Chloroethoxy)methane	0.505	0.530	-5.1	115	0.03
30	C	2,4-Dichlorophenol	0.273	0.288	-5.4	114	0.04
31	M	1,2,4-Trichlorobenzene	0.273	0.285	-4.4	113	0.04
32		Naphthalene	0.968	0.994	-2.6	110	0.04
33		4-Chloroaniline	0.434	0.459	-5.8	109	0.04
34	C	Hexachlorobutadiene	0.121	0.126	-3.9	111	0.04
35	MC	4-Chloro-3-Methylphenol	0.304	0.334	-9.9	120	0.04
36		2-Methylnaphthalene	0.640	0.668	-4.5	112	0.04
37		1-Methylnaphthalene	0.635	0.671	-5.7	113	0.04
38	I	Acenaphthene-d10	1.000	1.000	0.0	108	0.06
39	P	Hexachlorocyclopentadiene	0.262	0.297	-13.3	141	0.05
40	C	2,4,6-Trichlorophenol	0.377	0.411	-8.9	118	0.04
41		2,4,5-Trichlorophenol	0.397	0.440	-11.0	118	0.04
42	S	2-Fluorobiphenyl (SURR)	1.245	1.331	-6.9	112	0.04
43		Biphenyl	1.471	1.483	-0.8	105	0.04
44		2-Chloronaphthalene	1.289	1.361	-5.6	112	0.04
45		Dimethylphthalate	1.349	1.433	-6.2	115	0.04
46		Acenaphthylene	1.979	2.164	-9.3	118	0.05
47		2,6-Dinitrotoluene	0.304	0.370	-21.8	126	0.05
48		2-Nitroaniline	0.386	0.466	-20.7	134	0.05
49	MC	Acenaphthene	1.195	1.246	-4.3	111	0.05
50	P	2,4-Dinitrophenol	0.159	0.221	-39.2#	224#	0.05
51		Dibenzofuran	1.628	1.724	-5.9	114	0.05
52	MP	4-Nitrophenol	0.254	0.307	-20.6	131	0.04
53		3-Nitroaniline	0.457	0.511	-11.8	117	0.05

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS1_MD\MD0706\MD070406\SV139478.D Vial: 2
Acq On : 4 Jul 106 3:13 pm Operator: JLS
Sample : BPG0021-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jul 06 10:24:31 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	M	2,4-Dinitrotoluene	0.388	0.487	-25.5	135	0.04
55		Fluorene	1.237	1.346	-8.8	112	0.04
56		2,3,4,6-Tetrachlorophenol	0.280	0.304	-8.6	117	0.05
57		Diethylphthalate	1.418	1.458	-2.8	110	0.05
58		4-Chloro-phenyl-phenyl ethe	0.546	0.612	-12.1	117	0.05
59	I	Phenanthrene-d10	1.000	1.000	0.0	109	0.06
60		4-Nitroaniline	0.302	0.348	-15.2	122	0.05
61		4,6-Dinitro-2-Methylphenol	0.131	0.209	-59.9#	179	0.05
62	C	N-nitrosodiphenylamine	0.742	0.789	-6.3	112	0.05
63		Azobenzene	1.141	1.303	-14.2	129	0.05
64	S	2,4,6-Tribromophenol (SURR)	0.103	0.117	-14.6	123	0.05
65		4-Bromophenyl-phenylether	0.198	0.211	-6.9	116	0.05
66		Hexachlorobenzene	0.224	0.237	-5.8	118	0.05
67	MC	Pentachlorophenol	0.128	0.133	-4.3	116	0.05
68		Phenanthrene	1.165	1.259	-8.1	115	0.05
69		Anthracene	1.179	1.271	-7.8	115	0.06
70		Carbazole	1.220	1.277	-4.7	114	0.05
71		Di-n-butylphthalate	1.762	1.843	-4.6	114	0.05
72	C	Fluoranthene	1.160	1.247	-7.5	118	0.05
73		Benzidine	0.582	0.663	-13.9	131	0.05
74	I	Chrysene-d12	1.000	1.000	0.0	123	0.06
75	M	Pyrene	1.718	1.597	7.1	115	0.05
76	S	Terphenyl-d14 (SURR)	1.023	0.944	7.7	113	0.05
77		Butylbenzylphthalate	1.103	1.031	6.5	114	0.06
78		3,3'-Dichlorobenzidine	0.520	0.505	2.8	116	0.05
79		Benzo(a)anthracene	1.514	1.411	6.8	117	0.06
80		Chrysene	1.351	1.238	8.4	113	0.06
81		bis(2-Ethylhexyl)phthalate	1.480	1.406	5.0	116	0.05
82	I	Perylene-d12	1.000	1.000	0.0	118	0.05
83	C	Di-n-octylphthalate	2.352	2.338	0.6	113	0.06
84		Benzo(b)fluoranthene	1.491	1.676	-12.4	150	0.06
85		Benzo(k)fluoranthene	0.993	0.795	19.9	97	0.06
86	C	Benzo(a)pyrene	1.179	1.217	-3.2	119	0.06
87		Indeno(1,2,3-Cd)Pyrene	1.213	1.356	-11.8	123	0.06
88		Dibenzo(a,h)Anthracene	1.021	1.147	-12.3	122	0.06
89		Benzo(g,h,i)perylene	1.076	1.168	-8.5	123	0.06

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report

Data File : Q:\SV0A\MS1_MD\MD0706\MD070406\SV139478.D Vial: 2
Acq On : 4 Jul 106 3:13 pm Operator: JLS
Sample : BPG0021-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00
Quant Time: Jul 6 13:14 19106

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jul 06 10:24:31 2006
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.76	152	529366	40.00	ng/uL	-0.03
22) Naphthalene-d8	5.11	136	1939172	40.00	ng/uL	-0.02
38) Acenaphthene-d10	7.51	164	864003	40.00	ng/uL	-0.03
59) Phenanthrene-d10	10.06	188	1258759	40.00	ng/uL	-0.03
74) Chrysene-d12	15.19	240	1027567	40.00	ng/uL	-0.05
82) Perylene-d12	17.80	264	1089715	40.00	ng/uL	-0.06
System Monitoring Compounds						%Recovery
4) 2-Fluorophenol (SURR)	1.87	112	1045182	53.24	ng/uL	35.49%
6) Phenol-d5 (SURR)	3.47	99	1302245	53.68	ng/uL	35.78%
10) 2-Chlorophenol-d4(SURR)	3.57	132	1019159	53.44	ng/uL	35.63%
13) 1,2 Dichlorobenzene-d4(SUR	3.97	152	578554	52.19	ng/uL	52.19%
23) Nitrobenzene-d5 (SURR)	4.38	82	1026623	58.10	ng/uL	58.10%
42) 2-Fluorobiphenyl (SURR)	6.51	172	1437337	53.44	ng/uL	53.44%
64) 2,4,6-Tribromophenol (SURR	8.86	330	184877	57.30	ng/uL	38.20%
76) Terphenyl-d14 (SURR)	13.22	244	1212395	46.15	ng/uL	46.15%
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.79	74	57588	39.36	ng/uL	81
3) Pyridine	0.79	79	96839	38.57	ng/ul	100
5) bis(2-Chloroethyl)ether	3.55	93	1150409	53.23	ng/uL	99
7) 2-Chlorophenol	3.58	128	1023954	53.20	ng/uL	92
8) Phenol	3.49	94	1631941	54.94	ng/uL	82
9) Aniline	3.46	93	1639328	53.43	ng/ul	99
11) 1,3-Dichlorobenzene	3.72	146	1055261	51.55	ng/uL	100
12) 1,4-Dichlorobenzene	3.78	146	1081392	52.18	ng/uL	99
14) 1,2-Dichlorobenzene	3.98	146	956386	51.83	ng/uL	99
15) Benzyl Alcohol	3.96	79	792953	51.18	ng/ul	100
16) bis(2-chloroisopropyl)Ethe	4.13	45	1455378	53.64	ng/uL	96
17) 2-Methylphenol	4.11	108	916867	52.53	ng/uL	99
18) Acetophenone	4.23	105	1256186	52.86	ng/ul	96
19) N-Nitroso-Di-n-Propylamine	4.28	70	686634	51.06	ng/uL	99
20) Hexachloroethane	4.29	117	413368	51.99	ng/uL	94
21) 3+4-Methylphenol	4.28	108	958962	52.95	ng/uL	94
24) Nitrobenzene	4.40	77	987786	56.04	ng/uL	97
25) Isophorone	4.65	82	1976512	53.35	ng/uL	97
26) 2-Nitrophenol	4.72	139	589218	59.93	ng/uL	95
27) Benzoic Acid	5.02	105	830972	59.94	ng/uL	99
28) 2,4-Dimethylphenol	4.79	107	897451	54.47	ng/uL	96
29) bis(2-Chloroethoxy)methane	4.89	93	1285378	52.54	ng/uL	96
30) 2,4-Dichlorophenol	4.98	162	698009	52.72	ng/uL	98
31) 1,2,4-Trichlorobenzene	5.07	180	690279	52.22	ng/uL	100
32) Naphthalene	5.13	128	2408654	51.31	ng/uL	100
33) 4-Chloroaniline	5.23	127	1112735	52.89	ng/uL	100
34) Hexachlorobutadiene	5.35	225	304832	51.95	ng/uL	99
35) 4-Chloro-3-Methylphenol	5.84	107	810190	54.95	ng/uL	97
36) 2-Methylnaphthalene	5.96	142	1620329	52.24	ng/uL	99
37) 1-Methylnaphthalene	6.10	142	1626735	52.87	ng/ul	100
39) Hexachlorocyclopentadiene	6.28	237	320774	56.66	ng/uL	97
40) 2,4,6-Trichlorophenol	6.40	196	443795	54.44	ng/uL	99
41) 2,4,5-Trichlorophenol	6.46	196	475655	55.49	ng/uL	99
43) Biphenyl	6.63	154	1601730	50.42	ng/ul	96
44) 2-Chloronaphthalene	6.63	162	1470005	52.80	ng/uLm	99
45) Dimethylphthalate	7.20	163	1547683	53.11	ng/uL	99
46) Acenaphthylene	7.26	152	2336740	54.66	ng/uL	100
47) 2,6-Dinitrotoluene	7.29	165	399764	60.90	ng/uL	92
48) 2-Nitroaniline	6.85	65	503317	60.35	ng/uL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\SVOA\MS1_MD\MD0706\MD070406\SV139478.D Vial: 2
Acq On : 4 Jul 106 3:13 pm Operator: JLS
Sample : BPG0021-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00
Quant Time: Jul 6 13:14 19106

Method : C:\HPCHEM\1\METHODS\SV1NG.M
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)
Last Update : Thu Jul 06 10:24:31 2006
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) Acenaphthene	7.56	153	1346102	52.15	ng/uL	99
50) 2,4-Dinitrophenol	7.66	184	238518	69.59	ng/uL	92
51) Dibenzofuran	7.81	168	1861544	52.94	ng/uL	76
52) 4-Nitrophenol	7.82	65	331530	60.31	ng/uL	90
53) 3-Nitroaniline	7.50	65	551396	55.89	ng/uL	99
54) 2,4-Dinitrotoluene	7.91	165	525945	58.25	ng/uL	97
55) Fluorene	8.39	166	1454019	54.41	ng/uL	98
56) 2,3,4,6-Tetrachlorophenol	8.11	232	328696	54.28	ng/ul	99
57) Diethylphthalate	8.39	149	1574568	51.40	ng/uL	99
58) 4-Chloro-phenyl-phenyl eth	8.43	204	661031	56.06	ng/uL	95
60) 4-Nitroaniline	8.55	138	548138	57.62	ng/uL	95
61) 4,6-Dinitro-2-Methylphenol	8.62	198	328652	64.68	ng/uL	86
62) N-nitrosodiphenylamine	8.67	169	1242188	53.17	ng/uL	99
63) Azobenzene	8.71	77	2050454	57.10	ng/ul	97
65) 4-Bromophenyl-phenylether	9.28	248	332351	53.43	ng/uL	97
66) Hexachlorobenzene	9.52	284	373515	52.92	ng/uL	94
67) Pentachlorophenol	9.87	266	209781	52.16	ng/uL	100
68) Phenanthrene	10.10	178	1980498	54.04	ng/uL	99
69) Anthracene	10.19	178	1999994	53.91	ng/uL	100
70) Carbazole	10.53	167	2009611	52.33	ng/uL	99
71) Di-n-butylphthalate	11.44	149	2900217	52.29	ng/uL	100
72) Fluoranthene	12.36	202	1961549	53.74	ng/uL	89
73) Benzidine	12.71	184	1042880	56.97	ng/ul	97
75) Pyrene	12.78	202	2050878	46.47	ng/uL	96
77) Butylbenzylphthalate	14.34	149	1323955	46.74	ng/uL	99
78) 3,3'-Dichlorobenzidine	15.22	252	649212	48.58	ng/uL	99
79) Benzo(a)anthracene	15.16	228	1812007	46.58	ng/uL	100
80) Chrysene	15.25	228	1590319	45.81	ng/uL	99
81) bis(2-Ethylhexyl)phthalate	15.58	149	1805776	47.50	ng/uL	99
83) Di-n-octylphthalate	16.74	149	3184832	49.71	ng/uL	100
84) Benzo(b)fluoranthene	17.19	252	2282511	56.19	ng/uLm	92
85) Benzo(k)fluoranthene	17.23	252	1083060	39.54	ng/uL	99
86) Benzo(a)pyrene	17.71	252	1657062	51.60	ng/uL	96
87) Indeno(1,2,3-Cd)Pyrene	19.46	276	1846706	55.88	ng/uL	99
88) Dibenzo(a,h)Anthracene	19.50	278	1561786	56.17	ng/uL	99
89) Benzo(g,h,i)perylene	19.81	276	1591017	54.25	ng/uL	91

(#) = qualifier out of range (m) = manual integration

Semi-Volatile Organics Logbooks

New Batch ID: 0660520

ESS Organic Preparation Logbook

Project #: 0606374, 0606383
Prep Date: 6/27/06
Batch ID: SXBF62717
Extraction Method: 3541

Surrogate ID#
A 6F26064
B 6F20042
C NA

Matrix Spike ID#
D 6F21077
E NA
F

Analytical Matrix: soil
Extraction Time:
Start: 11:00
Finish: —

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
SXBF62717-B	20.0	1	NA	1	1	NA	6/27/06	40	NA	NA		EM	NM	JS
-BS	20.0	1	1	1	1									
-BSD	20.0	1	1	1	1									
-LLBS	20.0	1B	0.05	1	1									
-LLBSD	20.0	1B	0.05	1	1									
0606374-01	19.5	1	NA	1	1									
-02	20.1	1		1	1									
-03	20.4	1		1	1									
-04	20.9	1		1	1									
-05	19.6	1		1	1									
-06	19.5	1		1	1									
-07	19.9	1		1	1									
-08	20.4	1		1	1									
-09	21.0	1		1	1									
-10	19.9	1		1	1									
-11	19.2	1		1	1									
-12	21.0	1		1	1									
-13	20.4	1		1	1									
-14	20.6	1		1	1									
-15	20.9	1		1	1									
-16	21.0	1		1	1									
0606383-01	19.8	1		1	1									
-02	19.0	1		1	1									
-03	21.0	1		1	1									
-11	19.4	1	NA	1	1	NA	6/27/06	40	NA	NA		EM	NM	JS

Analysis Performed
PCB ☐
B/N SVOA ☐
SVOA ☒
LL PAH ☐
PEST ☐
TPH/GC ☐
BIS-2 ☐
PAH ☐

642

Acid Washed: Y / (N) H2SO4 ID# NA
Cu Cleaned: Y / (N) Cu ID# NA
Florisiled: Y / (N) Lot# NA
Silica Column/Carbon prep: Y / (N) Lot # NA

CH_2Cl_2 lot # CQ689
Hexane lot# NA
Acetone lot# NA
NaOH ID# NA
Na_2SO_4 ID# AE1.1606206B

Prepared By: EM
Glasswool: AD060406
Method #(s): 8270

**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A
BATCH ID/Test: BF62717
BATCH ID/Test: ____
Page ____

147

ESS Organic Preparation Logbook

Project #: D090374, D090383 Surrogate ID# Matrix Spike ID# Analytical Matrix: soil

Prep Date: 061706 A bf26064 D bf21077 Extraction Time:

Batch ID: SXBF62717 B bf20042 E NA Start: 1:00

Extraction Method: 3541 C NA F NA Finish: —

Split Extraction* ☐

* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt (g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
D090383-11MS	21.0	1	1	1	1	NA	6/27/06	40	NA	NA			NMT	JLS
-11MSD	20.2	1	1	1	1	NA	6/27/06	40	NA	NA			NMT	JLS

Analysis Performed: PCB ☐ B/N SVOA ☐ SVOA ☑ LL PAH ☐ PEST ☐ TPH/GC ☐ BIS-2 ☐ PAH ☐

643

Acid Washed: Y (N) H_2SO_4 ID# NA | Cu Cleaned: Y (N) Cu ID# NA | Florisiled: Y (N) Lot# NA | Silica Column/Carbon prep: Y (N) Lot #

CH_2Cl_2 lot # CQ6089 NaOH ID# NA

Prepared By: [signature] Glasswool: RTD061406 Method #(s): 8270 Hexane lot# NA Na_2SO_4 ID# [illegible]

**Check off column if entire sample used and bottle discarded.

Acetone lot# NA

Control #50.0001-0603A BATCH ID/Test: bf62717 BATCH ID/Test: Page

ESS Organic Preparation Logbook

Project #: 0606383
Prep Date: 6/28/06
Batch ID: SXBF62824
Extraction Method: 3541

Surrogate ID#
A 6F26004
B 6F20042
C NA

Matrix Spike ID#
D 6F21077
E NA
F

Analytical Matrix: Soil
Extraction Time:
Start: 12:00
Finish: —

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
SXBF62824-B	20.0	1	NA	1	1	NA	6/28/06	40	NA	NA		EM	NM	VSS
-B1	20.0	1	1	1	1									
-BD	20.0	1	1	1	1									
0606383-04	21.0	1	NA	1	1									
-05	20.2	1		1	1									
-06	20.4	1		1	1									
-07	20.0	1		1	1									
-08	21.0	1		1	1									
-09	19.2	1		1	1									
-10	20.1	1		1	1									
-12	20.6	1		1	1									
-13	19.9	1	NA	1	1									
-13MS	20.4	1	1	1	1									
-13MSD	20.9	1	1	1	1									
-14	21.0	1	NA	1	1									
SXBF62824-LCS	20.0	1B	0.05	1	1									
-LCSD	20.8	1B	0.05	1	1	NA	6/28/06	40	NA	NA		EM	NM	VSC

NA OM 6/28/06

644

Analysis Performed
- ☐ PCB
- ☐ B/N SVOA
- ☒ SVOA
- ☐ LL PAH
- ☐ PEST
- ☐ TPH/GC
- ☐ BIS-2
- ☐ PAH

Acid Washed: Y / N (N circled) H2SO4 ID# NA	Cu Cleaned: Y / N (N circled) Cu ID# NA	Florisiled: Y / N (N circled) Lot# NA	Silica Column/Carbon prep: Y / N (N circled) Lot # NA

CH_2Cl_2 lot # CQ609
Hexane lot# NA
Acetone lot# NA
NaOH ID# NA
Na_2SO_4 ID# MIDD626066A

Prepared By: EM
Glasswool: MIDD6014064 Method #(s): 8270

**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A
BATCH ID/Test: BF62824
BATCH ID/Test: ______
Page ______

Semi-Volatile Organics Data Package

LL PAH's

Semi-Volatile Organics
Sample Data

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2401
Date Sampled: 06/22/06 16:35
Percent Solids: 40
Initial Volume: 19.8
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-01
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	63.1	1	07/06/06
2-Methylnaphthalene	ND	ug/Kg dry	63.1	1	07/06/06
Acenaphthene	ND	ug/Kg dry	63.1	1	07/06/06
Acenaphthylene	ND	ug/Kg dry	63.1	1	07/06/06
Anthracene	ND	ug/Kg dry	63.1	1	07/06/06
Benzo(a)anthracene	**89.6**	ug/Kg dry	63.1	1	07/06/06
Benzo(a)pyrene	**70.7**	ug/Kg dry	63.1	1	07/06/06
Benzo(b)fluoranthene	**73.2**	ug/Kg dry	63.1	1	07/06/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	63.1	1	07/06/06
Benzo(k)fluoranthene	ND	ug/Kg dry	63.1	1	07/06/06
Chrysene	**89.6**	ug/Kg dry	63.1	1	07/06/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	63.1	1	07/06/06
Fluoranthene	**211**	ug/Kg dry	63.1	1	07/06/06
Fluorene	ND	ug/Kg dry	63.1	1	07/06/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	63.1	1	07/06/06
Naphthalene	ND	ug/Kg dry	63.1	1	07/06/06
Phenanthrene	**169**	ug/Kg dry	63.1	1	07/06/06
Pyrene	**177**	ug/Kg dry	63.1	1	07/06/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*34 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*37 %*		*30-130*
Surrogate: Nitrobenzene-d5	*35 %*		*30-130*
Surrogate: p-Terphenyl-d14	*35 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2403
Date Sampled: 06/22/06 16:50
Percent Solids: 21
Initial Volume: 19
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-02
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	125	1	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	125	1	07/05/06
Acenaphthene	ND	ug/Kg dry	125	1	07/05/06
Acenaphthylene	ND	ug/Kg dry	125	1	07/05/06
Anthracene	ND	ug/Kg dry	125	1	07/05/06
Benzo(a)anthracene	ND	ug/Kg dry	125	1	07/05/06
Benzo(a)pyrene	ND	ug/Kg dry	125	1	07/05/06
Benzo(b)fluoranthene	ND	ug/Kg dry	125	1	07/05/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	125	1	07/05/06
Benzo(k)fluoranthene	ND	ug/Kg dry	125	1	07/05/06
Chrysene	ND	ug/Kg dry	125	1	07/05/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	125	1	07/05/06
Fluoranthene	**211**	ug/Kg dry	125	1	07/05/06
Fluorene	ND	ug/Kg dry	125	1	07/05/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	125	1	07/05/06
Naphthalene	ND	ug/Kg dry	125	1	07/05/06
Phenanthrene	**135**	ug/Kg dry	125	1	07/05/06
Pyrene	ND	ug/Kg dry	125	1	07/05/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*33 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*37 %*		*30-130*
Surrogate: Nitrobenzene-d5	*42 %*		*30-130*
Surrogate: p-Terphenyl-d14	*30 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2201
Date Sampled: 06/22/06 17:00
Percent Solids: 30
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-03
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	79.4	1	07/06/06
2-Methylnaphthalene	ND	ug/Kg dry	79.4	1	07/06/06
Acenaphthene	ND	ug/Kg dry	79.4	1	07/06/06
Acenaphthylene	ND	ug/Kg dry	79.4	1	07/06/06
Anthracene	ND	ug/Kg dry	79.4	1	07/06/06
Benzo(a)anthracene	**108**	ug/Kg dry	79.4	1	07/06/06
Benzo(a)pyrene	**102**	ug/Kg dry	79.4	1	07/06/06
Benzo(b)fluoranthene	**114**	ug/Kg dry	79.4	1	07/06/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	79.4	1	07/06/06
Benzo(k)fluoranthene	ND	ug/Kg dry	79.4	1	07/06/06
Chrysene	**119**	ug/Kg dry	79.4	1	07/06/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	79.4	1	07/06/06
Fluoranthene	**235**	ug/Kg dry	79.4	1	07/06/06
Fluorene	ND	ug/Kg dry	79.4	1	07/06/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	79.4	1	07/06/06
Naphthalene	ND	ug/Kg dry	79.4	1	07/06/06
Phenanthrene	**121**	ug/Kg dry	79.4	1	07/06/06
Pyrene	ND	ug/Kg dry	79.4	1	07/06/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*65 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*69 %*		*30-130*
Surrogate: Nitrobenzene-d5	*67 %*		*30-130*
Surrogate: p-Terphenyl-d14	*70 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2203
Date Sampled: 06/22/06 17:10
Percent Solids: 20
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-04
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/28/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	119	1	07/06/06
2-Methylnaphthalene	ND	ug/Kg dry	119	1	07/06/06
Acenaphthene	ND	ug/Kg dry	119	1	07/06/06
Acenaphthylene	ND	ug/Kg dry	119	1	07/06/06
Anthracene	ND	ug/Kg dry	119	1	07/06/06
Benzo(a)anthracene	ND	ug/Kg dry	119	1	07/06/06
Benzo(a)pyrene	ND	ug/Kg dry	119	1	07/06/06
Benzo(b)fluoranthene	ND	ug/Kg dry	119	1	07/06/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	119	1	07/06/06
Benzo(k)fluoranthene	ND	ug/Kg dry	119	1	07/06/06
Chrysene	ND	ug/Kg dry	119	1	07/06/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	119	1	07/06/06
Fluoranthene	ND	ug/Kg dry	119	1	07/06/06
Fluorene	ND	ug/Kg dry	119	1	07/06/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	119	1	07/06/06
Naphthalene	ND	ug/Kg dry	119	1	07/06/06
Phenanthrene	ND	ug/Kg dry	119	1	07/06/06
Pyrene	ND	ug/Kg dry	119	1	07/06/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*63 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*69 %*		*30-130*
Surrogate: Nitrobenzene-d5	*66 %*		*30-130*
Surrogate: p-Terphenyl-d14	*64 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2701
Date Sampled: 06/22/06 17:35
Percent Solids: 20
Initial Volume: 20.2
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-05
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/28/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	124	1	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	124	1	07/05/06
Acenaphthene	ND	ug/Kg dry	124	1	07/05/06
Acenaphthylene	ND	ug/Kg dry	124	1	07/05/06
Anthracene	ND	ug/Kg dry	124	1	07/05/06
Benzo(a)anthracene	**134**	ug/Kg dry	124	1	07/05/06
Benzo(a)pyrene	ND	ug/Kg dry	124	1	07/05/06
Benzo(b)fluoranthene	**285**	ug/Kg dry	124	1	07/05/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	124	1	07/05/06
Benzo(k)fluoranthene	ND	ug/Kg dry	124	1	07/05/06
Chrysene	ND	ug/Kg dry	124	1	07/05/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	124	1	07/05/06
Fluoranthene	**354**	ug/Kg dry	124	1	07/05/06
Fluorene	ND	ug/Kg dry	124	1	07/05/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	124	1	07/05/06
Naphthalene	ND	ug/Kg dry	124	1	07/05/06
Phenanthrene	ND	ug/Kg dry	124	1	07/05/06
Pyrene	**196**	ug/Kg dry	124	1	07/05/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*46 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*56 %*		*30-130*
Surrogate: Nitrobenzene-d5	*55 %*		*30-130*
Surrogate: p-Terphenyl-d14	*44 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2703
Date Sampled: 06/22/06 17:46
Percent Solids: 79
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-06
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/28/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	31.0	1	07/06/06
2-Methylnaphthalene	ND	ug/Kg dry	31.0	1	07/06/06
Acenaphthene	ND	ug/Kg dry	31.0	1	07/06/06
Acenaphthylene	ND	ug/Kg dry	31.0	1	07/06/06
Anthracene	ND	ug/Kg dry	31.0	1	07/06/06
Benzo(a)anthracene	ND	ug/Kg dry	31.0	1	07/06/06
Benzo(a)pyrene	ND	ug/Kg dry	31.0	1	07/06/06
Benzo(b)fluoranthene	ND	ug/Kg dry	31.0	1	07/06/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	31.0	1	07/06/06
Benzo(k)fluoranthene	ND	ug/Kg dry	31.0	1	07/06/06
Chrysene	ND	ug/Kg dry	31.0	1	07/06/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	31.0	1	07/06/06
Fluoranthene	ND	ug/Kg dry	31.0	1	07/06/06
Fluorene	ND	ug/Kg dry	31.0	1	07/06/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	31.0	1	07/06/06
Naphthalene	ND	ug/Kg dry	31.0	1	07/06/06
Phenanthrene	ND	ug/Kg dry	31.0	1	07/06/06
Pyrene	ND	ug/Kg dry	31.0	1	07/06/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*71 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*76 %*		*30-130*
Surrogate: Nitrobenzene-d5	*74 %*		*30-130*
Surrogate: p-Terphenyl-d14	*72 %*		*30-130*

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Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2601
Date Sampled: 06/22/06 18:10
Percent Solids: 54
Initial Volume: 20
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-07
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/28/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	46.3	1	07/07/06
2-Methylnaphthalene	ND	ug/Kg dry	46.3	1	07/07/06
Acenaphthene	ND	ug/Kg dry	46.3	1	07/07/06
Acenaphthylene	ND	ug/Kg dry	46.3	1	07/07/06
Anthracene	ND	ug/Kg dry	46.3	1	07/07/06
Benzo(a)anthracene	**241**	ug/Kg dry	46.3	1	07/07/06
Benzo(a)pyrene	**273**	ug/Kg dry	46.3	1	07/07/06
Benzo(b)fluoranthene	**256**	ug/Kg dry	46.3	1	07/07/06
Benzo(g,h,i)perylene	**144**	ug/Kg dry	46.3	1	07/07/06
Benzo(k)fluoranthene	ND	ug/Kg dry	46.3	1	07/07/06
Chrysene	**227**	ug/Kg dry	46.3	1	07/07/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	46.3	1	07/07/06
Fluoranthene	**419**	ug/Kg dry	46.3	1	07/07/06
Fluorene	ND	ug/Kg dry	46.3	1	07/07/06
Indeno(1,2,3-cd)Pyrene	**133**	ug/Kg dry	46.3	1	07/07/06
Naphthalene	ND	ug/Kg dry	46.3	1	07/07/06
Phenanthrene	**158**	ug/Kg dry	46.3	1	07/07/06
Pyrene	**348**	ug/Kg dry	46.3	1	07/07/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*69 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*77 %*		*30-130*
Surrogate: Nitrobenzene-d5	*74 %*		*30-130*
Surrogate: p-Terphenyl-d14	*67 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2602
Date Sampled: 06/22/06 18:20
Percent Solids: 46
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-08
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/28/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	51.8	1	07/07/06
2-Methylnaphthalene	ND	ug/Kg dry	51.8	1	07/07/06
Acenaphthene	ND	ug/Kg dry	51.8	1	07/07/06
Acenaphthylene	ND	ug/Kg dry	51.8	1	07/07/06
Anthracene	ND	ug/Kg dry	51.8	1	07/07/06
Benzo(a)anthracene	ND	ug/Kg dry	51.8	1	07/07/06
Benzo(a)pyrene	ND	ug/Kg dry	51.8	1	07/07/06
Benzo(b)fluoranthene	ND	ug/Kg dry	51.8	1	07/07/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	51.8	1	07/07/06
Benzo(k)fluoranthene	ND	ug/Kg dry	51.8	1	07/07/06
Chrysene	ND	ug/Kg dry	51.8	1	07/07/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	51.8	1	07/07/06
Fluoranthene	ND	ug/Kg dry	51.8	1	07/07/06
Fluorene	ND	ug/Kg dry	51.8	1	07/07/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	51.8	1	07/07/06
Naphthalene	ND	ug/Kg dry	51.8	1	07/07/06
Phenanthrene	ND	ug/Kg dry	51.8	1	07/07/06
Pyrene	ND	ug/Kg dry	51.8	1	07/07/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*70 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*76 %*		*30-130*
Surrogate: Nitrobenzene-d5	*72 %*		*30-130*
Surrogate: p-Terphenyl-d14	*64 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2605
Date Sampled: 06/22/06 18:30
Percent Solids: 19
Initial Volume: 19.2
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-09
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/28/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	137	1	07/07/06
2-Methylnaphthalene	ND	ug/Kg dry	137	1	07/07/06
Acenaphthene	ND	ug/Kg dry	137	1	07/07/06
Acenaphthylene	ND	ug/Kg dry	137	1	07/07/06
Anthracene	ND	ug/Kg dry	137	1	07/07/06
Benzo(a)anthracene	ND	ug/Kg dry	137	1	07/07/06
Benzo(a)pyrene	ND	ug/Kg dry	137	1	07/07/06
Benzo(b)fluoranthene	ND	ug/Kg dry	137	1	07/07/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	137	1	07/07/06
Benzo(k)fluoranthene	ND	ug/Kg dry	137	1	07/07/06
Chrysene	ND	ug/Kg dry	137	1	07/07/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	137	1	07/07/06
Fluoranthene	ND	ug/Kg dry	137	1	07/07/06
Fluorene	ND	ug/Kg dry	137	1	07/07/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	137	1	07/07/06
Naphthalene	ND	ug/Kg dry	137	1	07/07/06
Phenanthrene	ND	ug/Kg dry	137	1	07/07/06
Pyrene	ND	ug/Kg dry	137	1	07/07/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*32 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*35 %*		*30-130*
Surrogate: Nitrobenzene-d5	*33 %*		*30-130*
Surrogate: p-Terphenyl-d14	*36 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2501
Date Sampled: 06/22/06 18:45
Percent Solids: 30
Initial Volume: 20.1
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-10
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/28/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	82.9	1	07/06/06
2-Methylnaphthalene	ND	ug/Kg dry	82.9	1	07/06/06
Acenaphthene	ND	ug/Kg dry	82.9	1	07/06/06
Acenaphthylene	ND	ug/Kg dry	82.9	1	07/06/06
Anthracene	**163**	ug/Kg dry	82.9	1	07/06/06
Benzo(a)anthracene	**541**	ug/Kg dry	82.9	1	07/06/06
Benzo(a)pyrene	**483**	ug/Kg dry	82.9	1	07/06/06
Benzo(b)fluoranthene	**516**	ug/Kg dry	82.9	1	07/06/06
Benzo(g,h,i)perylene	**270**	ug/Kg dry	82.9	1	07/06/06
Benzo(k)fluoranthene	ND	ug/Kg dry	82.9	1	07/06/06
Chrysene	**534**	ug/Kg dry	82.9	1	07/06/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	82.9	1	07/06/06
Fluoranthene	**1240**	ug/Kg dry	82.9	1	07/06/06
Fluorene	ND	ug/Kg dry	82.9	1	07/06/06
Indeno(1,2,3-cd)Pyrene	**270**	ug/Kg dry	82.9	1	07/06/06
Naphthalene	ND	ug/Kg dry	82.9	1	07/06/06
Phenanthrene	**876**	ug/Kg dry	82.9	1	07/06/06
Pyrene	**1050**	ug/Kg dry	82.9	1	07/06/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*33 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*35 %*		*30-130*
Surrogate: Nitrobenzene-d5	*34 %*		*30-130*
Surrogate: p-Terphenyl-d14	*33 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2503
Date Sampled: 06/22/06 18:53
Percent Solids: 12
Initial Volume: 19.4
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-11
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/27/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	215	1	07/06/06
2-Methylnaphthalene	ND	ug/Kg dry	215	1	07/06/06
Acenaphthene	ND	ug/Kg dry	215	1	07/06/06
Acenaphthylene	ND	ug/Kg dry	215	1	07/06/06
Anthracene	ND	ug/Kg dry	215	1	07/06/06
Benzo(a)anthracene	ND	ug/Kg dry	215	1	07/06/06
Benzo(a)pyrene	ND	ug/Kg dry	215	1	07/06/06
Benzo(b)fluoranthene	ND	ug/Kg dry	215	1	07/06/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	215	1	07/06/06
Benzo(k)fluoranthene	ND	ug/Kg dry	215	1	07/06/06
Chrysene	ND	ug/Kg dry	215	1	07/06/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	215	1	07/06/06
Fluoranthene	ND	ug/Kg dry	215	1	07/06/06
Fluorene	ND	ug/Kg dry	215	1	07/06/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	215	1	07/06/06
Naphthalene	ND	ug/Kg dry	215	1	07/06/06
Phenanthrene	ND	ug/Kg dry	215	1	07/06/06
Pyrene	ND	ug/Kg dry	215	1	07/06/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*32 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*37 %*		*30-130*
Surrogate: Nitrobenzene-d5	*34 %*		*30-130*
Surrogate: p-Terphenyl-d14	*34 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2503D
Date Sampled: 06/23/06 10:05
Percent Solids: 16
Initial Volume: 20
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-12
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/28/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	156	1	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	156	1	07/05/06
Acenaphthene	ND	ug/Kg dry	156	1	07/05/06
Acenaphthylene	ND	ug/Kg dry	156	1	07/05/06
Anthracene	ND	ug/Kg dry	156	1	07/05/06
Benzo(a)anthracene	**200**	ug/Kg dry	156	1	07/05/06
Benzo(a)pyrene	**162**	ug/Kg dry	156	1	07/05/06
Benzo(b)fluoranthene	**312**	ug/Kg dry	156	1	07/05/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	156	1	07/05/06
Benzo(k)fluoranthene	ND	ug/Kg dry	156	1	07/05/06
Chrysene	**162**	ug/Kg dry	156	1	07/05/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	156	1	07/05/06
Fluoranthene	**622**	ug/Kg dry	156	1	07/05/06
Fluorene	ND	ug/Kg dry	156	1	07/05/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	156	1	07/05/06
Naphthalene	ND	ug/Kg dry	156	1	07/05/06
Phenanthrene	**403**	ug/Kg dry	156	1	07/05/06
Pyrene	**297**	ug/Kg dry	156	1	07/05/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*39 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*49 %*		*30-130*
Surrogate: Nitrobenzene-d5	*53 %*		*30-130*
Surrogate: p-Terphenyl-d14	*37 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2507
Date Sampled: 06/23/06 10:30
Percent Solids: 12
Initial Volume: 19.9
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-13
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/28/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	209	1	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	209	1	07/05/06
Acenaphthene	ND	ug/Kg dry	209	1	07/05/06
Acenaphthylene	ND	ug/Kg dry	209	1	07/05/06
Anthracene	ND	ug/Kg dry	209	1	07/05/06
Benzo(a)anthracene	ND	ug/Kg dry	209	1	07/05/06
Benzo(a)pyrene	ND	ug/Kg dry	209	1	07/05/06
Benzo(b)fluoranthene	ND	ug/Kg dry	209	1	07/05/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	209	1	07/05/06
Benzo(k)fluoranthene	ND	ug/Kg dry	209	1	07/05/06
Chrysene	ND	ug/Kg dry	209	1	07/05/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	209	1	07/05/06
Fluoranthene	ND	ug/Kg dry	209	1	07/05/06
Fluorene	ND	ug/Kg dry	209	1	07/05/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	209	1	07/05/06
Naphthalene	ND	ug/Kg dry	209	1	07/05/06
Phenanthrene	ND	ug/Kg dry	209	1	07/05/06
Pyrene	ND	ug/Kg dry	209	1	07/05/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*72 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*82 %*		*30-130*
Surrogate: Nitrobenzene-d5	*89 %*		*30-130*
Surrogate: p-Terphenyl-d14	*65 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2507D
Date Sampled: 06/23/06 10:35
Percent Solids: 14
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-14
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/28/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	170	1	07/07/06
2-Methylnaphthalene	ND	ug/Kg dry	170	1	07/07/06
Acenaphthene	ND	ug/Kg dry	170	1	07/07/06
Acenaphthylene	ND	ug/Kg dry	170	1	07/07/06
Anthracene	ND	ug/Kg dry	170	1	07/07/06
Benzo(a)anthracene	ND	ug/Kg dry	170	1	07/07/06
Benzo(a)pyrene	ND	ug/Kg dry	170	1	07/07/06
Benzo(b)fluoranthene	ND	ug/Kg dry	170	1	07/07/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	170	1	07/07/06
Benzo(k)fluoranthene	ND	ug/Kg dry	170	1	07/07/06
Chrysene	ND	ug/Kg dry	170	1	07/07/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	170	1	07/07/06
Fluoranthene	ND	ug/Kg dry	170	1	07/07/06
Fluorene	ND	ug/Kg dry	170	1	07/07/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	170	1	07/07/06
Naphthalene	ND	ug/Kg dry	170	1	07/07/06
Phenanthrene	ND	ug/Kg dry	170	1	07/07/06
Pyrene	ND	ug/Kg dry	170	1	07/07/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*70 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*75 %*		*30-130*
Surrogate: Nitrobenzene-d5	*73 %*		*30-130*
Surrogate: p-Terphenyl-d14	*70 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: Rinsate Sed
Date Sampled: 06/23/06 09:50
Percent Solids: N/A
Initial Volume: 1000
Final Volume: 1
Extraction Method: 3510C

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-15
Sample Matrix: Aqueous
Analyst: VSC
Prepared: 06/28/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
2-Methylnaphthalene	ND	ug/L	0.20	1	06/29/06
Acenaphthene	ND	ug/L	0.20	1	06/29/06
Acenaphthylene	ND	ug/L	0.20	1	06/29/06
Anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)pyrene	ND	ug/L	0.20	1	06/29/06
Benzo(b)fluoranthene	ND	ug/L	0.20	1	06/29/06
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	06/29/06
Benzo(k)fluoranthene	ND	ug/L	0.30	1	06/29/06
Chrysene	ND	ug/L	0.20	1	06/29/06
Dibenzo(a,h)Anthracene	ND	ug/L	0.20	1	06/29/06
Fluoranthene	ND	ug/L	0.20	1	06/29/06
Fluorene	ND	ug/L	0.20	1	06/29/06
Indeno(1,2,3-cd)Pyrene	ND	ug/L	0.30	1	06/29/06
Naphthalene	ND	ug/L	0.20	1	06/29/06
Phenanthrene	ND	ug/L	0.20	1	06/29/06
Pyrene	ND	ug/L	0.20	1	06/29/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*81 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*94 %*		*30-130*
Surrogate: Nitrobenzene-d5	*78 %*		*30-130*
Surrogate: p-Terphenyl-d14	*126 %*		*30-130*

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Semi-Volatile Organics Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Polynuclear Aromatic Hydrocarbons										
Batch BG60520 - 3541										
Benzo(a)pyrene	30200	3970	ug/Kg dry	39700	ND	76	40-140			
Benzo(b)fluoranthene	34000	3970	ug/Kg dry	39700	ND	86	40-140			
Benzo(g,h,i)perylene	29100	3970	ug/Kg dry	39700	ND	73	40-140			
Benzo(k)fluoranthene	27600	3970	ug/Kg dry	39700	ND	70	40-140			
Chrysene	28500	3970	ug/Kg dry	39700	ND	72	40-140			
Dibenzo(a,h)Anthracene	32200	3970	ug/Kg dry	39700	ND	81	40-140			
Fluoranthene	31400	3970	ug/Kg dry	39700	ND	79	40-140			
Fluorene	29400	3970	ug/Kg dry	39700	ND	74	40-140			
Indeno(1,2,3-cd)Pyrene	32200	3970	ug/Kg dry	39700	ND	81	40-140			
Naphthalene	28700	3970	ug/Kg dry	39700	ND	72	40-140			
Phenanthrene	31500	3970	ug/Kg dry	39700	ND	79	40-140			
Pyrene	29000	3970	ug/Kg dry	39700	ND	73	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*26400*		ug/Kg dry	*39700*		*66*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*28600*		ug/Kg dry	*39700*		*72*	*30-130*			
Surrogate: Nitrobenzene-d5	*30200*		ug/Kg dry	*39700*		*76*	*30-130*			
Surrogate: p-Terphenyl-d14	*28500*		ug/Kg dry	*39700*		*72*	*30-130*			
Matrix Spike Dup Source: 0606383-11										
2-Methylnaphthalene	36800	4130	ug/Kg dry	41300	ND	89	40-140	20	30	
Acenaphthene	37800	4130	ug/Kg dry	41300	ND	92	40-140	22	30	
Acenaphthylene	38200	4130	ug/Kg dry	41300	ND	92	40-140	23	30	
Anthracene	37300	4130	ug/Kg dry	41300	ND	90	40-140	17	30	
Benzo(a)anthracene	36200	4130	ug/Kg dry	41300	ND	88	40-140	19	30	
Benzo(a)pyrene	38000	4130	ug/Kg dry	41300	ND	92	40-140	19	30	
Benzo(b)fluoranthene	42700	4130	ug/Kg dry	41300	ND	103	40-140	18	30	
Benzo(g,h,i)perylene	35800	4130	ug/Kg dry	41300	ND	87	40-140	18	30	
Benzo(k)fluoranthene	24200	4130	ug/Kg dry	41300	ND	59	40-140	17	30	
Chrysene	36100	4130	ug/Kg dry	41300	ND	87	40-140	19	30	
Dibenzo(a,h)Anthracene	38900	4130	ug/Kg dry	41300	ND	94	40-140	15	30	
Fluoranthene	39600	4130	ug/Kg dry	41300	ND	96	40-140	19	30	
Fluorene	38400	4130	ug/Kg dry	41300	ND	93	40-140	23	30	
Indeno(1,2,3-cd)Pyrene	39600	4130	ug/Kg dry	41300	ND	96	40-140	17	30	
Naphthalene	36300	4130	ug/Kg dry	41300	ND	88	40-140	20	30	
Phenanthrene	40900	4130	ug/Kg dry	41300	ND	99	40-140	22	30	
Pyrene	35800	4130	ug/Kg dry	41300	ND	87	40-140	18	30	
Surrogate: 1,2-Dichlorobenzene-d4	*35100*		ug/Kg dry	*41300*		*85*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*37600*		ug/Kg dry	*41300*		*91*	*30-130*			
Surrogate: Nitrobenzene-d5	*40100*		ug/Kg dry	*41300*		*97*	*30-130*			
Surrogate: p-Terphenyl-d14	*35600*		ug/Kg dry	*41300*		*86*	*30-130*			
8270C(SIM) Polynuclear Aromatic Hydrocarbons										
Batch BF62717 - 3541										
Blank										
1-Methylnaphthalene	ND	25.0	ug/Kg wet							
2-Methylnaphthalene	ND	25.0	ug/Kg wet							
Acenaphthene	ND	25.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C(SIM) Polynuclear Aromatic Hydrocarbons										
Batch BF62717 - 3541										
Acenaphthylene	ND	25.0	ug/Kg wet							
Anthracene	ND	25.0	ug/Kg wet							
Benzo(a)anthracene	ND	25.0	ug/Kg wet							
Benzo(a)pyrene	ND	25.0	ug/Kg wet							
Benzo(b)fluoranthene	ND	25.0	ug/Kg wet							
Benzo(g,h,i)perylene	ND	25.0	ug/Kg wet							
Benzo(k)fluoranthene	ND	25.0	ug/Kg wet							
Chrysene	ND	25.0	ug/Kg wet							
Dibenzo(a,h)Anthracene	ND	25.0	ug/Kg wet							
Fluoranthene	ND	25.0	ug/Kg wet							
Fluorene	ND	25.0	ug/Kg wet							
Indeno(1,2,3-cd)Pyrene	ND	25.0	ug/Kg wet							
Naphthalene	ND	25.0	ug/Kg wet							
Phenanthrene	ND	25.0	ug/Kg wet							
Pyrene	ND	25.0	ug/Kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*4070*		ug/Kg wet	*5000*		*81*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*5290*		ug/Kg wet	*5000*		*106*	*30-130*			
Surrogate: Nitrobenzene-d5	*2630*		ug/Kg wet	*5000*		*53*	*30-130*			
Surrogate: p-Terphenyl-d14	*5390*		ug/Kg wet	*5000*		*108*	*30-130*			
LCS										
2-Methylnaphthalene	108	25.0	ug/Kg wet	125		86	40-140			
Acenaphthene	107	25.0	ug/Kg wet	125		86	40-140			
Acenaphthylene	106	25.0	ug/Kg wet	125		85	40-140			
Anthracene	111	25.0	ug/Kg wet	125		89	40-140			
Benzo(a)anthracene	108	25.0	ug/Kg wet	125		86	40-140			
Benzo(a)pyrene	107	25.0	ug/Kg wet	125		86	40-140			
Benzo(b)fluoranthene	123	25.0	ug/Kg wet	125		98	40-140			
Benzo(g,h,i)perylene	124	25.0	ug/Kg wet	125		99	40-140			
Benzo(k)fluoranthene	102	25.0	ug/Kg wet	125		82	40-140			
Chrysene	124	25.0	ug/Kg wet	125		99	40-140			
Dibenzo(a,h)Anthracene	128	25.0	ug/Kg wet	125		102	40-140			
Fluoranthene	112	25.0	ug/Kg wet	125		90	40-140			
Fluorene	116	25.0	ug/Kg wet	125		93	40-140			
Indeno(1,2,3-cd)Pyrene	124	25.0	ug/Kg wet	125		99	40-140			
Naphthalene	102	25.0	ug/Kg wet	125		82	40-140			
Phenanthrene	108	25.0	ug/Kg wet	125		86	40-140			
Pyrene	99.0	25.0	ug/Kg wet	125		79	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*111*		ug/Kg wet	*125*		*89*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*124*		ug/Kg wet	*125*		*99*	*30-130*			
Surrogate: Nitrobenzene-d5	*67.0*		ug/Kg wet	*125*		*54*	*30-130*			
Surrogate: p-Terphenyl-d14	*110*		ug/Kg wet	*125*		*88*	*30-130*			
LCS Dup										
2-Methylnaphthalene	105	25.0	ug/Kg wet	125		84	40-140	2	30	
Acenaphthene	102	25.0	ug/Kg wet	125		82	40-140	5	30	
Acenaphthylene	104	25.0	ug/Kg wet	125		83	40-140	2	30	
Anthracene	108	25.0	ug/Kg wet	125		86	40-140	3	30	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C(SIM) Polynuclear Aromatic Hydrocarbons										
Batch BF62717 - 3541										
Benzo(a)anthracene	101	25.0	ug/Kg wet	125		81	40-140	6	30	
Benzo(a)pyrene	105	25.0	ug/Kg wet	125		84	40-140	2	30	
Benzo(b)fluoranthene	97.0	25.0	ug/Kg wet	125		78	40-140	23	30	
Benzo(g,h,i)perylene	118	25.0	ug/Kg wet	125		94	40-140	5	30	
Benzo(k)fluoranthene	105	25.0	ug/Kg wet	125		84	40-140	2	30	
Chrysene	122	25.0	ug/Kg wet	125		98	40-140	1	30	
Dibenzo(a,h)Anthracene	122	25.0	ug/Kg wet	125		98	40-140	4	30	
Fluoranthene	111	25.0	ug/Kg wet	125		89	40-140	1	30	
Fluorene	116	25.0	ug/Kg wet	125		93	40-140	0	30	
Indeno(1,2,3-cd)Pyrene	120	25.0	ug/Kg wet	125		96	40-140	3	30	
Naphthalene	98.0	25.0	ug/Kg wet	125		78	40-140	5	30	
Phenanthrene	106	25.0	ug/Kg wet	125		85	40-140	1	30	
Pyrene	95.0	25.0	ug/Kg wet	125		76	40-140	4	30	
Surrogate: 1,2-Dichlorobenzene-d4	*106*		ug/Kg wet	*125*		*85*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*117*		ug/Kg wet	*125*		*94*	*30-130*			
Surrogate: Nitrobenzene-d5	*72.0*		ug/Kg wet	*125*		*58*	*30-130*			
Surrogate: p-Terphenyl-d14	*102*		ug/Kg wet	*125*		*82*	*30-130*			
Batch BF62839 - 3510C										
Blank										
2-Methylnaphthalene	ND	0.20	ug/L							
Acenaphthene	ND	0.20	ug/L							
Acenaphthylene	ND	0.20	ug/L							
Anthracene	ND	0.20	ug/L							
Benzo(a)anthracene	ND	0.20	ug/L							
Benzo(a)pyrene	ND	0.20	ug/L							
Benzo(b)fluoranthene	ND	0.20	ug/L							
Benzo(g,h,i)perylene	ND	0.20	ug/L							
Benzo(k)fluoranthene	ND	0.30	ug/L							
Chrysene	ND	0.20	ug/L							
Dibenzo(a,h)Anthracene	ND	0.20	ug/L							
Fluoranthene	ND	0.20	ug/L							
Fluorene	ND	0.20	ug/L							
Indeno(1,2,3-cd)Pyrene	ND	0.30	ug/L							
Naphthalene	ND	0.20	ug/L							
Phenanthrene	ND	0.20	ug/L							
Pyrene	ND	0.20	ug/L							
Surrogate: 1,2-Dichlorobenzene-d4	*2.80*		ug/L	*2.50*		*112*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*3.22*		ug/L	*2.50*		*129*	*30-130*			
Surrogate: Nitrobenzene-d5	*3.01*		ug/L	*2.50*		*120*	*30-130*			
Surrogate: p-Terphenyl-d14	*4.65*		ug/L	*2.50*		*186*	*30-130*			+
LCS										
2-Methylnaphthalene	1.78	0.20	ug/L	2.50		71	40-140			
Acenaphthene	1.92	0.20	ug/L	2.50		77	40-140			
Acenaphthylene	1.81	0.20	ug/L	2.50		72	40-140			
Anthracene	2.04	0.20	ug/L	2.50		82	40-140			

Semi-Volatile Organics Calibration Data

ANALYSIS SEQUENCE

BPF0229

Instrument: SVOAMS2

Calibnration ID: ~~UNASSIGNED~~ PAH2 DY

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0229-TUN1	QC		1		6F26111		
BPF0229-CAL1	QC		2		6E31107	6D26044	
BPF0229-CAL2	QC		3		6E03046	6D26044	
BPF0229-CAL3	QC		4		6E03047	6D26044	
BPF0229-CAL4	QC		5		6E03048	6D26044	
BPF0229-CAL5	QC		6		6E03049	6D26044	
BPF0229-CAL6	QC		7		6E03050	6D26044	
BPF0229-CAL7	QC		8		6E03051	6D26044	
BPF0229-SCV1	QC		9		6E03052	6D26044	
0606356-01	VOC: EPH SIM PAHs GW-	A	10			6F13054	LFR Levine-Fricke (RI)
BF62603-BLK3	QC		11			6F13054	
BPF0229-CCV1	QC		12		6E03052	6D26044	
BF62133-BLK1	QC		13			6D26044	
BF62133-BS1	QC		14			6D26044	
BF62133-BSD1	QC		15			6D26044	
0606321-03	SVOC: 8270 ppm PAH SIM	A	16			6D26044	Vanasse Hangen Brustlin, Inc.
0606321-02	SVOC: 8270 ppm PAH SIM	A	17			6D26044	Vanasse Hangen Brustlin, Inc.
0606321-01	SVOC: 8270 ppm PAH SIM	A	18			6D26044	Vanasse Hangen Brustlin, Inc.
0606321-04	SVOC: 8270 ppm PAH SIM	A	19			6D26044	Vanasse Hangen Brustlin, Inc.

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/26/06	22	SV2 13372	0606295-06	SV2KG	RR5X ISFailed	JD
↓	23	SV2 73	↓ -07	↓	RR10X	↓
6/27/06	1	SV2 97	BPF0216-Tun1	DFTPP	GF13071	VJC
	2	SV2 98	BPF0216-Cav1	SV2KG	GF27064	VJC
	3	SV2 99	0606310-06		GF26097	
	4	SV2 13300	BF62326-BLK1			
	5	SV2 13400	BF62326-BS1			
	6	SV2 01	BF62326-BSD1			
	7	SV2 02	0606295-01			
	8	SV2 ~~03~~	-02			
	9	SV2 04	-04			
	10	SV2 05	-05			
	11	SV2 06	-06			
	12	SV2 07	0606295-07			
	13	SV2 08	0606310-07			
	14	SV2 09	BF62326-MS1			
	15	SV2 10	BF62622-BLK1			
	16	SV2 11	BF62622-BS1			
	17	SV2 12	BF62620-BSD1			
	18	SV2 13	BF62328-BLK1			
	19	SV2 14	BF62328-BS1			
	20	SV2 15	BF62328-BSD1			
↓	21	SV2 16	0606320-02			
6/27/06	22	SV2 17	0606323-02	SV2KG		VJC
6/28/06	1	SV2 19 ~~18~~	BPF0229-TUN1	DFTPP	GF13071	JCS
	2	SV2 20	-Cav1	PAH2DX	~~GE11057~~	JCS
	3	SV2 21	-Cal1	PAH2DY	~~GE11058~~ GE11059	JCS
	4	SV2 22	-Cal2	PAH2DY	~~GE11057~~ 58	JCS
6/28/06	5	SV2 23	BPF0229-Cal3	PAH2DY	~~GE11057~~	JCS

Control Number 60.0019-0601A   JCS 6/28/06   Page 57

030

ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/28/06	6	SV2 13424	BPF0229 - cal4	PAH2DY	~~6E22034~~ 6E2205T	JCS
	7	SV2 25	- cal5		~~51~~ 54	
	8	SV2 26	- cal6		~~52~~ 53	
	9	SV2 27	- cal7		6E22052	
6/28/06	10	SV2 28	BPF0229 - SCV1	PAH2DY	6E22060	JCS
	11	SV2 29	BF6603-BLK1	PAH2DY		
	12	SV2 30	~~B~~ 0606356-01			
	13	SV2 31	BF62133-Blk1			
	14	SV2 32	BF62133-BS1			
	15	SV2 33	BF62133-BSD1			
	16	SV2 34	0606321-01		RR 100x/10x	
	17	SV2 35	0606321-02		RR 20x	
	18	SV2 36	0606321-03		RR 10x	
	19	SV2 37	0606321-04		RR 10x	
	~~20~~	~~SV2 38~~	~~BF62310-BLK1~~			
	21	SV2 ~~39~~	~~BF62310-BS1~~			
	22	SV2 40	~~BF62310-BSD1~~			
	23	SV2 41	~~0606341-01~~			
	24	SV2 42	~~0606341-02~~			
	~~25~~	~~SV2 43~~	~~0606341-03~~	PAH2DY		
6/28/06	1	SV2 38	BPF0236-Tun1	DFTPP	6F26111	VL
	2	SV2 39	BPF0236-CCV1	PAH2DY	NG	
	3	SV2 41 ~~40~~	BPF0236 - CCV1	PAH2DY	6F28045	
	4	SV2 42 ~~41~~	BF62310-Blk1		6F13054	
	5	SV2 43 ~~42~~	BF62310-BS1			
	6	SV2 44 ~~43~~	BF62310-BSD1			
	7	SV2 45 ~~44~~	0606341-01			
	8	SV2 46 ~~45~~	0606341-02			
6/28/06	9	SV2 47 ~~46~~	0606341-03	PAH2DY	RR5X	VL

Control Number 60.0019-0601A

Page__________

031

ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/26/06	22	SV2 13372	0606295-06	SVKG	RR5X ISFailed	
↓	23	SV2 73	↓ -07	↓	RR10X	↓
6/27/06	1	SV2 97	BPF0216-TUN1	DFTPP		VJC
	2	SV2 98	BPF0216-CCV1	SV2KG		VJC
	3	SV2 99	0606310-06			
	4	SV2 13300	BF62326-BLK1			
	5	SV2 13400	BF62326-BS1			
	6	SV2 01	BF62326-BSD1			
	7	SV2 02	0606295-01			
	8	SV2 03	-02			
	9	SV2 04	-04			
	10	SV2 05	-05			
	11	SV2 06	-06			
	12	SV2 07	0606295-07			
	13	SV2 08	0606310-07			
	14	SV2 09	BF62326-MS1			
	15	SV2 10	BF62622-BLK1			
	16	SV2 11	BF62622-BS1			
	17	SV2 12	BF62622-BSD1			
	18	SV2 13	BF62328-BLK1			
	19	SV2 14	BF62328-BS1			
	20	SV2 15	BF62328-BSD1			
↓	21	SV2 16	0606320-02	↓		↓
6/27/06	22	SV2 17	0606323-02	SV2KG		VJC
6/28/06	1	SV2 19	BPF0229-TUN1	DFTPP		JCS
	2	SV2 20	-CCV1	PAH2DX		JCS
	3	SV2 21	-Cal1	PAH2DY		JCS
	4	SV2 22	-Cal2	PAH2DY		JCS
6/28/06	5	SV2 23	BPF0229-Cal3	PAH2DY		JCS

Control Number 60.0019-0601A   JCS 6/28/06   Page_______

030

ESS LABORATORY
GCMS2 RUN LOG

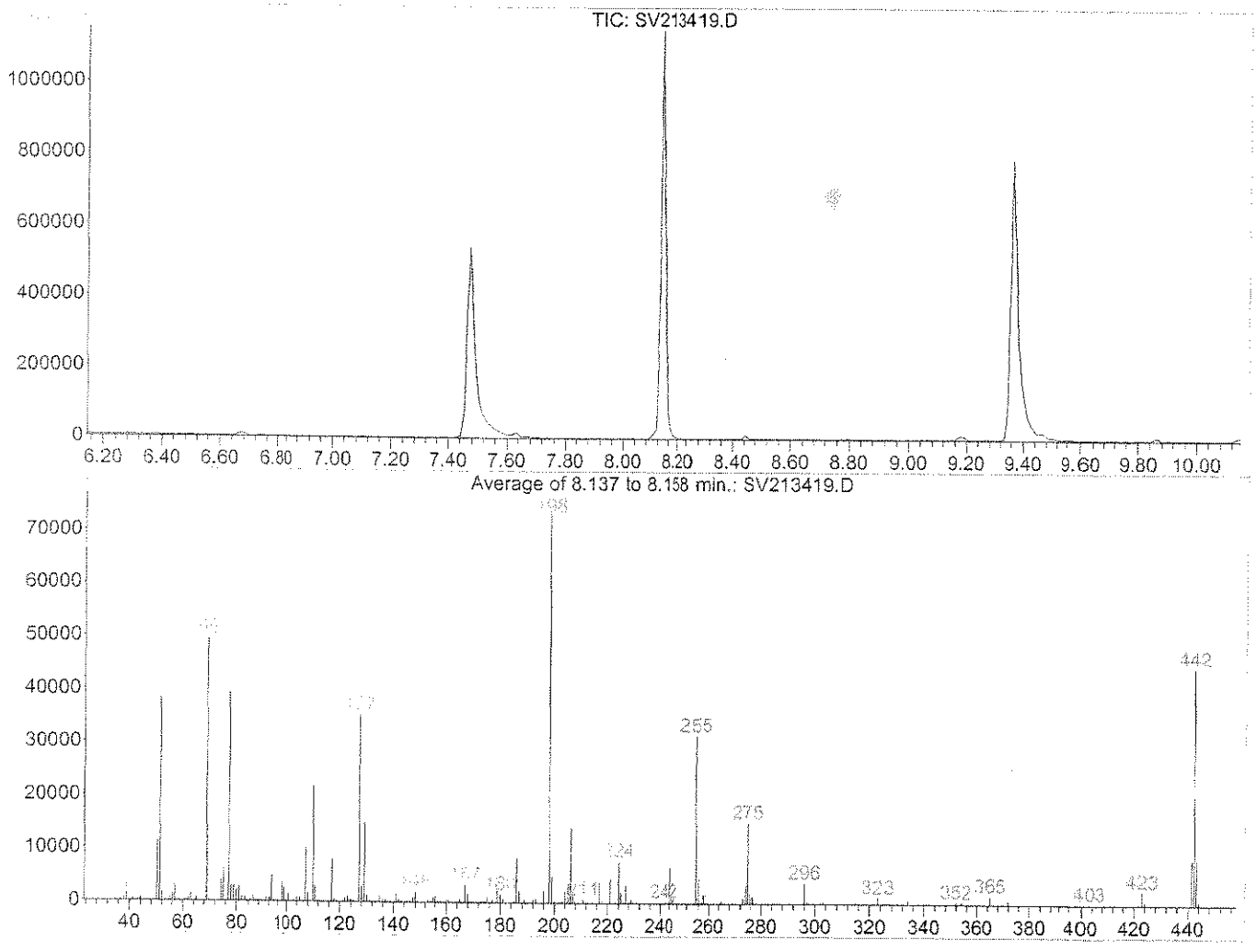
COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/28/06	6	SV2 13424	BPF0229 - cal4	PAH2DY		JS
	7	SV2 25	- cal5			
	8	SV2 26	- cal6			
	9	SV2 27	- cal7			
6/28/06	10	SV2 28	BPF0229 - SCV1	PAH2DY		JS
	11	SV2 29	BPF0303 - BLK1	PAH2DY		
	12	SV2 30	0606356-01			
	13	SV2 31	BF62133 - BW1			
	14	SV2 32	BF62133 - BS1			
	15	SV2 33	BF62133 - BSD1			
	16	SV2 34	0606321-01		RR 100X 10X	
	17	SV2 35	0606321-02		RR20X	
	18	SV2 36	0606321-03		RR4X	
	19	SV2 37	0606321-04		RR 10X	
~~20~~	~~SV2~~	~~38~~	~~BF62310-BW1~~			
21	SV2	39	BF62310-BS1			
22	SV2	40	BF62310-BSD1			
23	SV2	41	0606341-01			
~~24~~	~~SV2~~	42	0606341-02	N		
~~25~~	~~SV2~~	~~43~~	0606341-03	PAH2DY		
6/28/06	1	SV2 38	BPF0236-TUN1	DFTPP		VK
	2	SV2 39	BPF0236-CCV1	PAH2DY	NA	
	3	SV2 ~~41~~ 40	BPF0236-CCV1	PAH2DY		
	4	SV2 ~~42~~ 41	BF62310-BW1			
	5	SV2 ~~43~~ 42	BF62310-BS1			
	6	SV2 ~~44~~ 43	BF62310-BSD1	N		
	7	SV2 ~~45~~ 44	0606341-01			
N	8	SV2 ~~46~~ 45	0606341-02	N		N
6/28/06	9	SV2 ~~47~~ 46	0606341-03	PAH2DY	RR5X	LA

Control Number 60.0019-0601A

Page_____

Data File : Q:\SVOA\MS2_ME\ME0606\ME062806\SV213419.D Vial: 1
Acq On : 28 Jun 2006 6:27 am Operator: JLS
Sample : BPF0229-TUN1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\PAH2EB.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0607020



Spectrum Information: Average of 8.137 to 8.158 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	52.4	38508	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	67.3	49493	PASS
70	69	0.00	2	0.3	169	PASS
127	198	40	60	47.9	35209	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	73510	PASS
199	198	5	9	6.8	4985	PASS
275	198	10	30	20.7	15217	PASS
365	198	1	100	2.1	1553	PASS
441	443	0.01	100	98.1	8407	PASS
442	198	40	100	60.7	44588	PASS
443	442	17	23	19.2	8568	PASS

Response Factor Report GC/MS 2

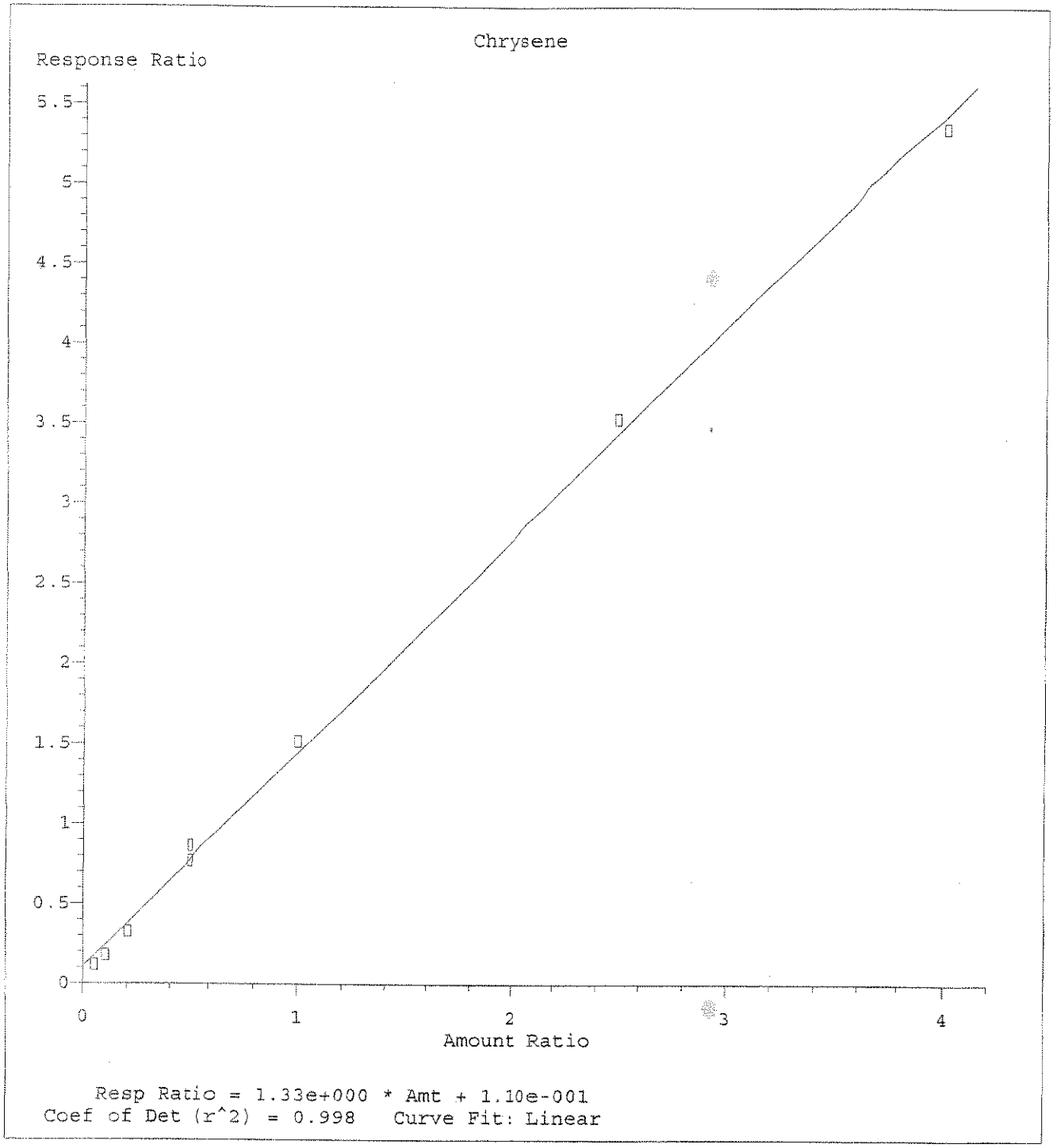
Method : C:\HPCHEM\1\METHODS\PAH2DY.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606036
Last Update : Thu Jun 29 11:19:29 2006
Response via : Initial Calibration

Calibration Files
0.2 =SV213422.D 0.4 =SV213423.D 1.0 =SV213424.D
2.0 =SV213425.D 5.0 =SV213426.D 8.0 =SV213427.D

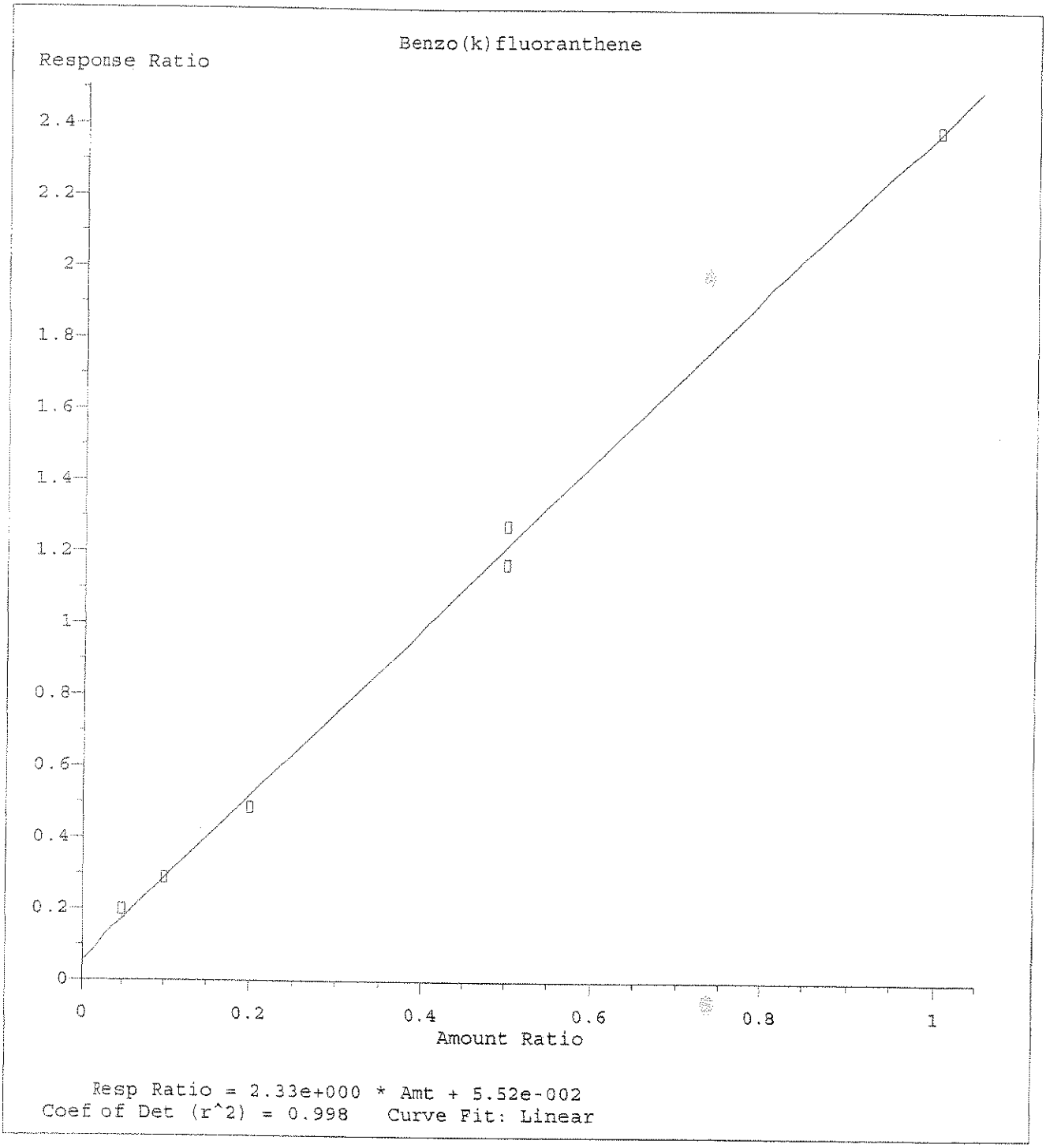
		Compound	0.2	0.4	1.0	2.0	5.0	8.0	Avg	%RSD	
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------								
2)	S	1,2 Dichlorobenzene	0.945	0.935	0.996	0.832	0.829	0.793	0.936	15.69	
3)		Naphthalene-d8	----------ISTD----------								
4)	S	Nitrobenzene-d5 (SU	0.382	0.386	0.406	0.390	0.379	0.378	0.395	6.35	
5)		Naphthalene	1.138	1.021	1.040	0.974	0.987	0.952	1.067	13.30	
6)		2-Methylnaphthalene	0.619	0.598	0.650	0.585	0.609	0.578	0.631	10.74	
7)		1-Methylnaphthalene	0.668	0.641	0.678	0.602	0.615	0.573	0.656	12.22	
8)		Acenaphthene-d10	----------ISTD----------								
9)	S	2-Fluorobiphenyl (S	1.382	1.279	1.399	1.233	1.273	1.226	1.309	5.61	
10)		Acenaphthylene	1.976	1.777	2.006	1.798	1.887	1.840	1.929	8.02	
11)	C	Acenaphthene	1.234	1.153	1.270	1.125	1.163	1.129	1.214	8.84#	
12)		Fluorene	1.187	1.077	1.202	1.101	1.142	1.122	1.166	7.29	
13)		Phenanthrene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromopheno	0.152	0.113	0.093	0.088	0.088	0.091	0.121	~~41.09~~	n/a
15)	C	Pentachlorophenol	0.023	0.027	0.041	0.044	0.060	0.069	0.046#	~~36.81#~~	n/a
16)		Phenanthrene	1.021	0.960	1.049	0.952	1.013	0.989	1.023	7.51	
17)		Anthracene	1.290	1.187	1.258	1.138	1.139	1.126	1.232	10.44	
18)	C	Fluoranthene	0.878	0.848	0.847	0.801	0.794	0.849	0.863	8.87#	
19)		Chrysene-d12	----------ISTD----------								
20)		Pyrene	1.784	1.579	1.662	1.482	1.497	1.465	1.651	13.64	
21)	S	Terphenyl-d14 (SURR	0.898	0.784	0.835	0.737	0.741	0.699	0.816	13.63	
22)		Benzo(a)anthracene	1.232	1.136	1.231	1.111	1.186	1.169	1.212	8.41	
23)		Chrysene	1.803	1.631	1.729	1.516	1.413	1.338	1.690	20.92	ℓ
24)		Perylene-d12	----------ISTD----------								
25)		Benzo(b)fluoranthen	1.806	1.136	1.264	1.311	1.692		1.487	18.98	
26)		Benzo(k)fluoranthen	2.878	2.431	2.337	2.387			2.801	24.64	ℓ
27)	C	Benzo(a)pyrene	1.559	1.173	1.513	1.407	1.838	1.630	1.707	31.37#	ℓ
28)		Indeno(1,2,3-cd)pyr	0.934	0.789	0.750	0.759	0.871		1.066	56.72	ℓ
29)		Dibenzo(a,h)anthrac	0.681	0.568	0.585	0.590	0.674		0.798	55.06	ℓ
30)		Benzo(g,h,i)perylen	0.962	0.690	0.622	0.621	0.615	0.713	0.923	64.21	ℓ

ℓ = Linear

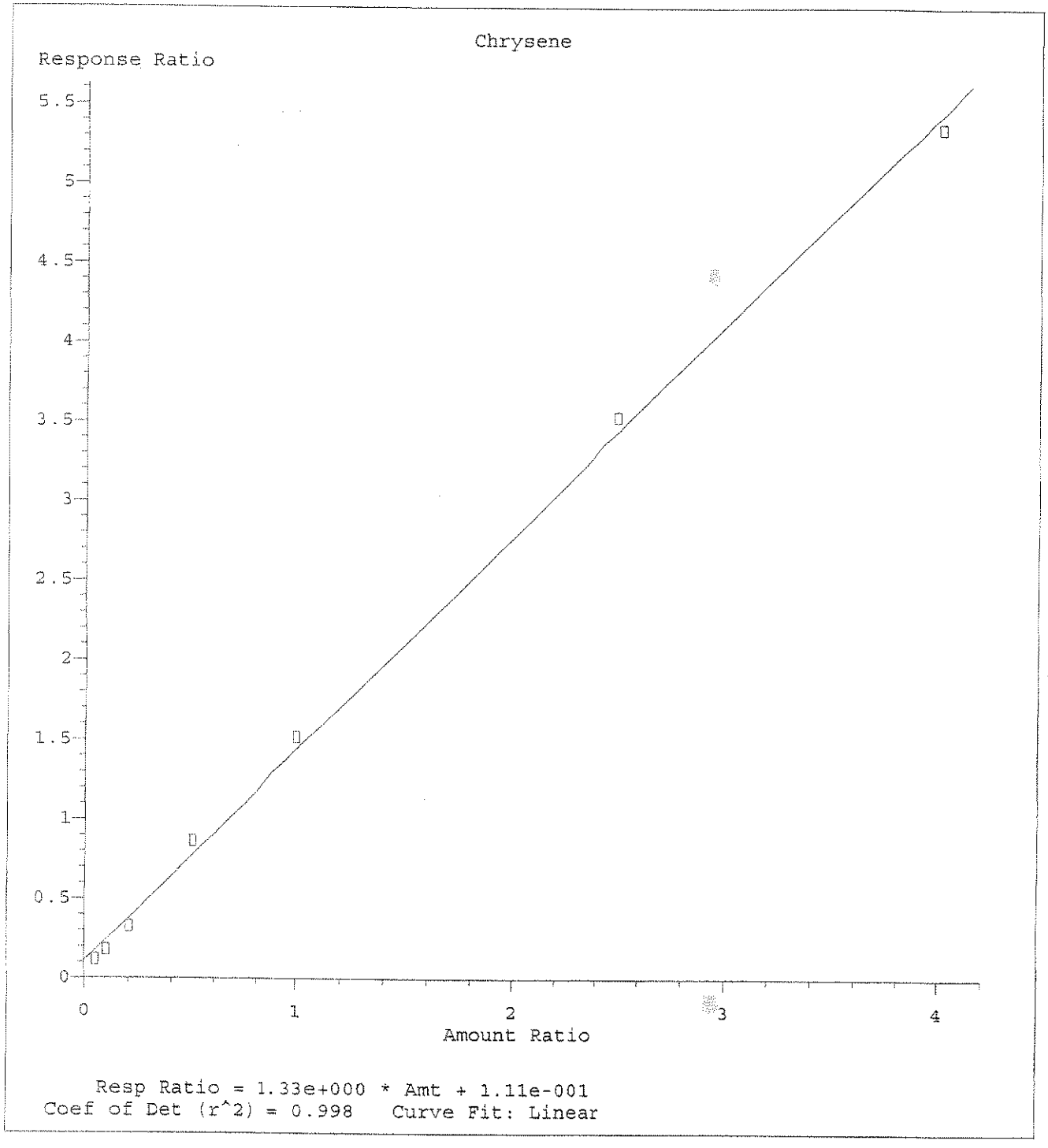
(#) = Out of Range ### Number of calibration levels exceeded format ###



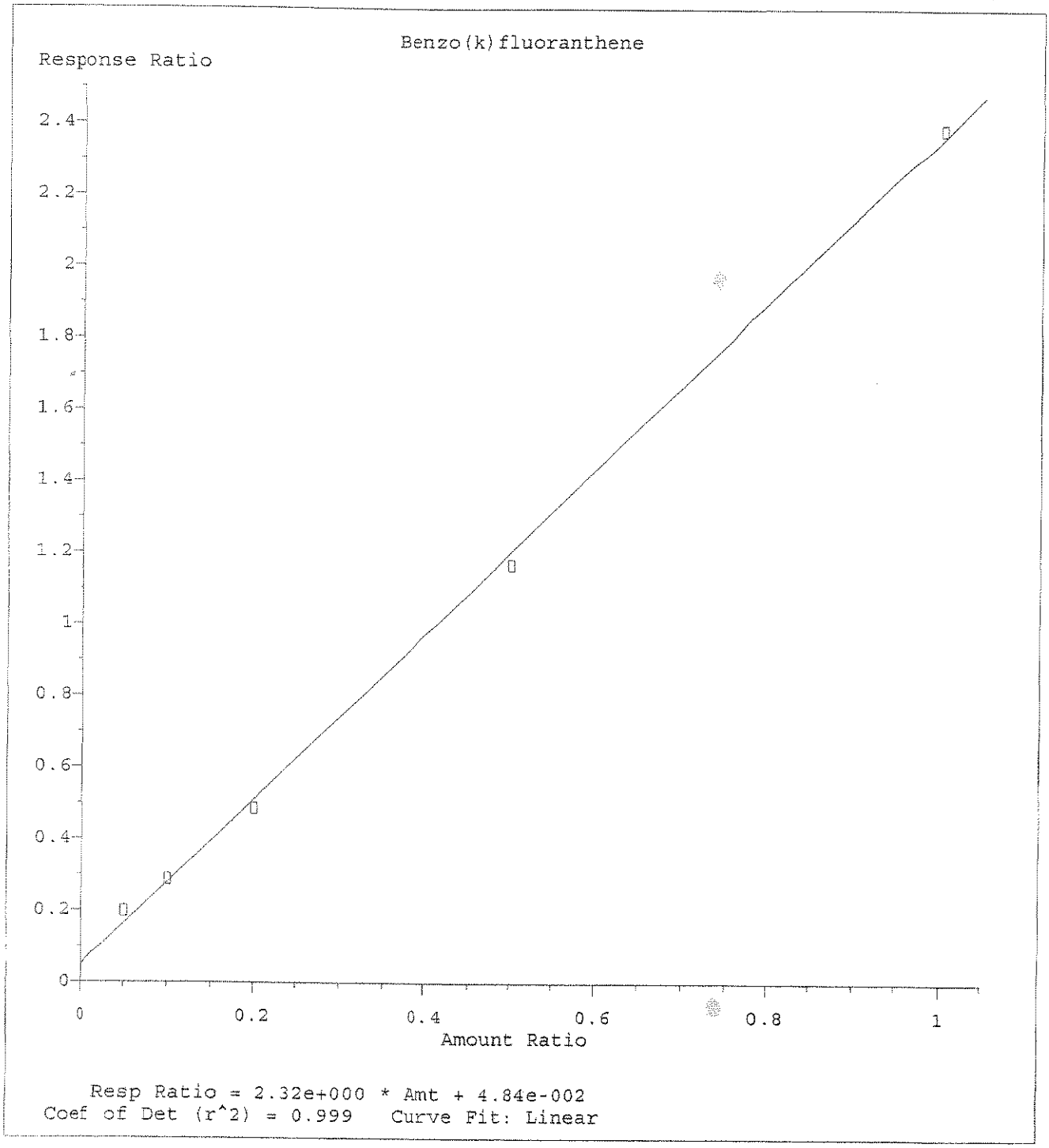
Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M
Calibration Table Last Updated: Thu Jun 29 11:19:29 2006



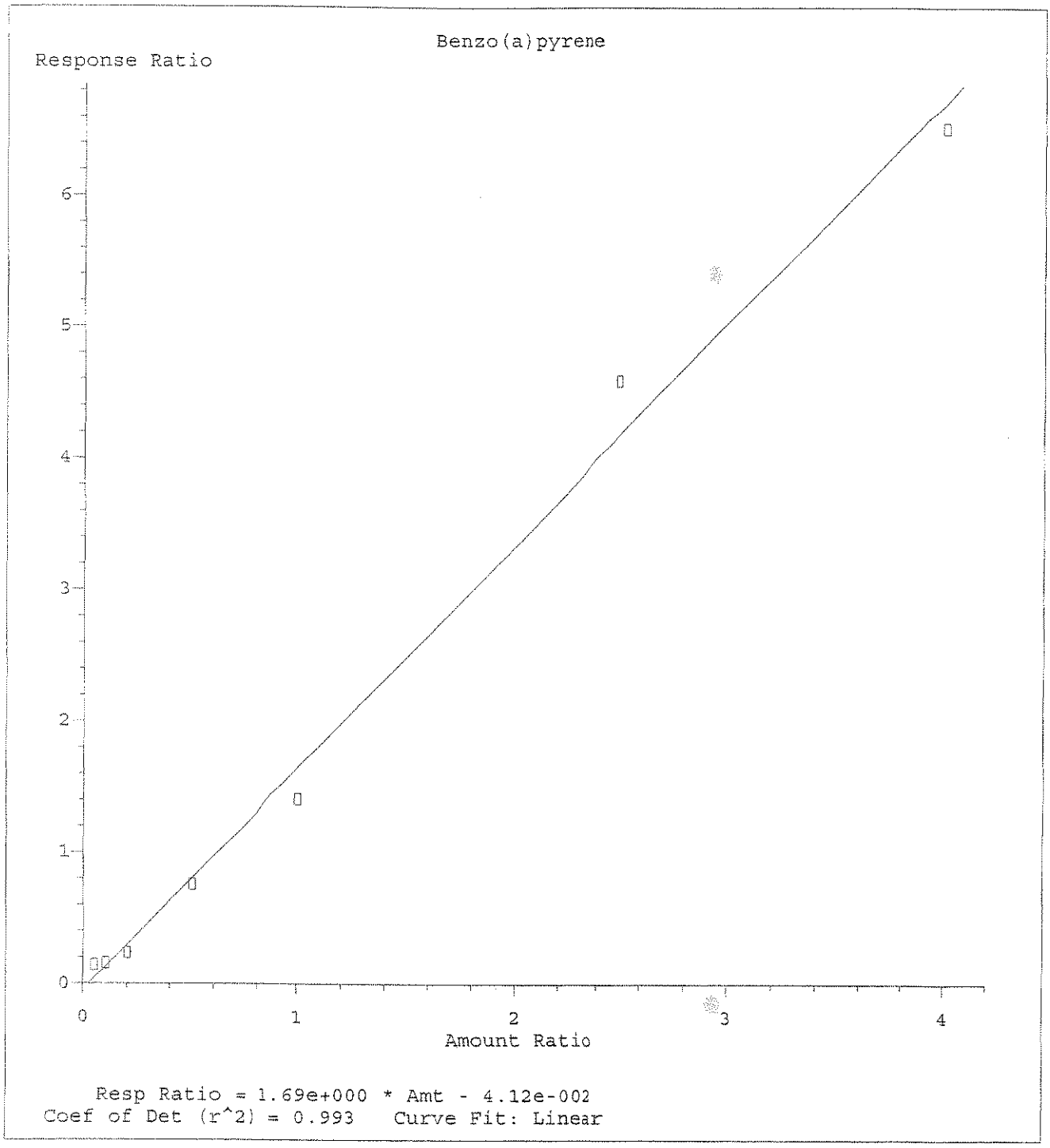
Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M
Calibration Table Last Updated: Thu Jun 29 11:19:29 2006



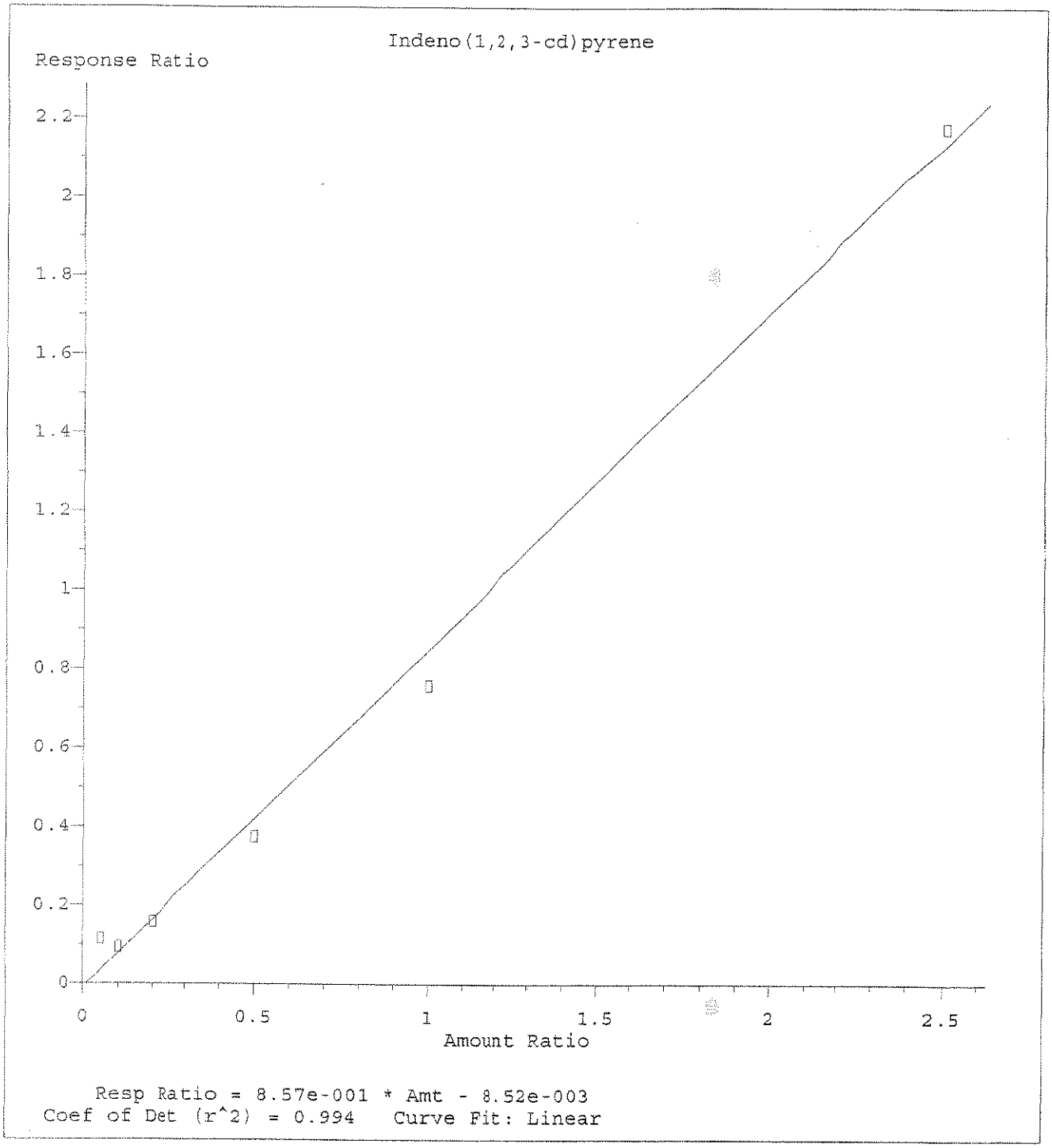
Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M
Calibration Table Last Updated: Thu Jul 20 15:42:56 2006



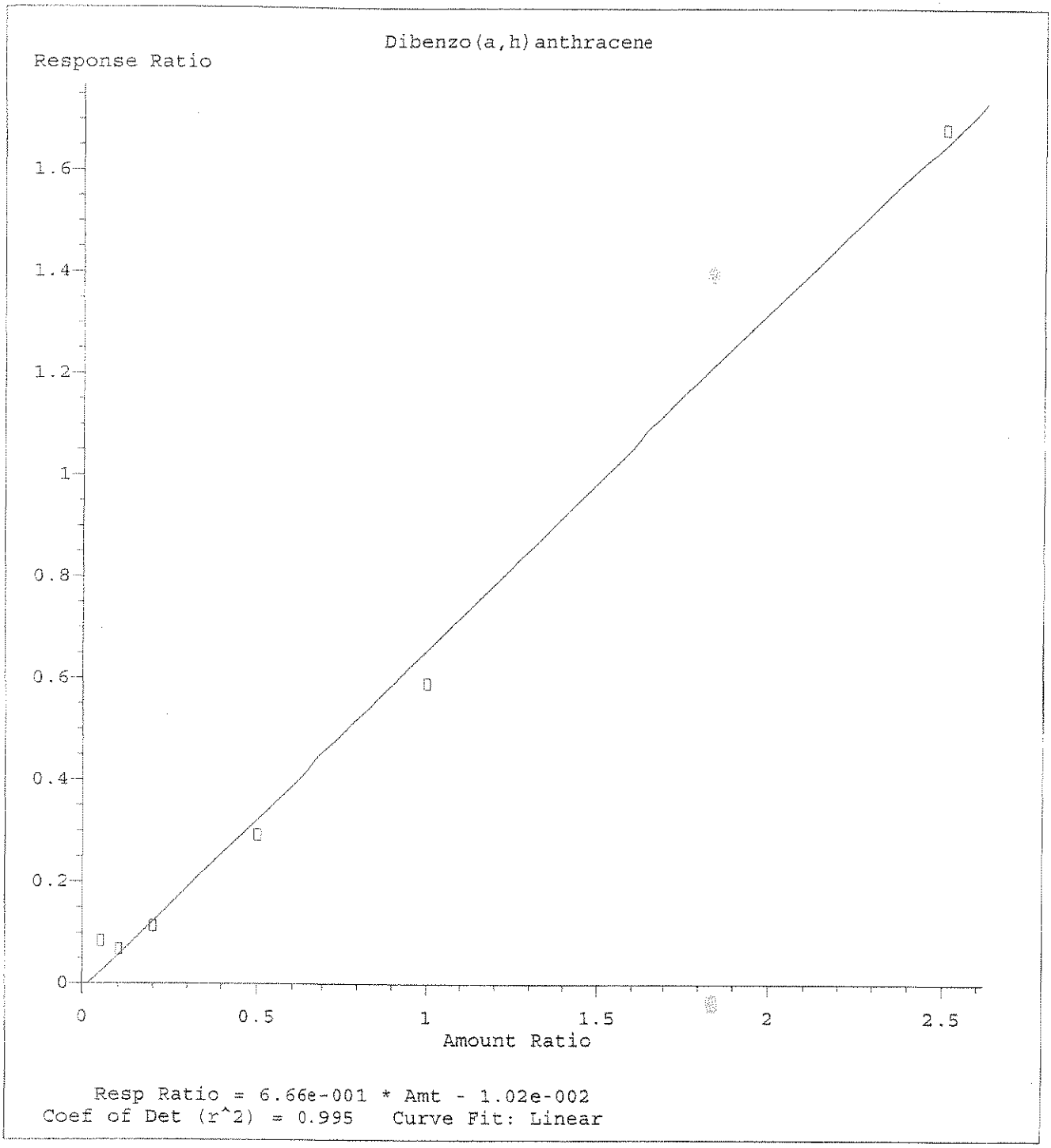
Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M
Calibration Table Last Updated: Thu Jul 20 15:42:56 2006



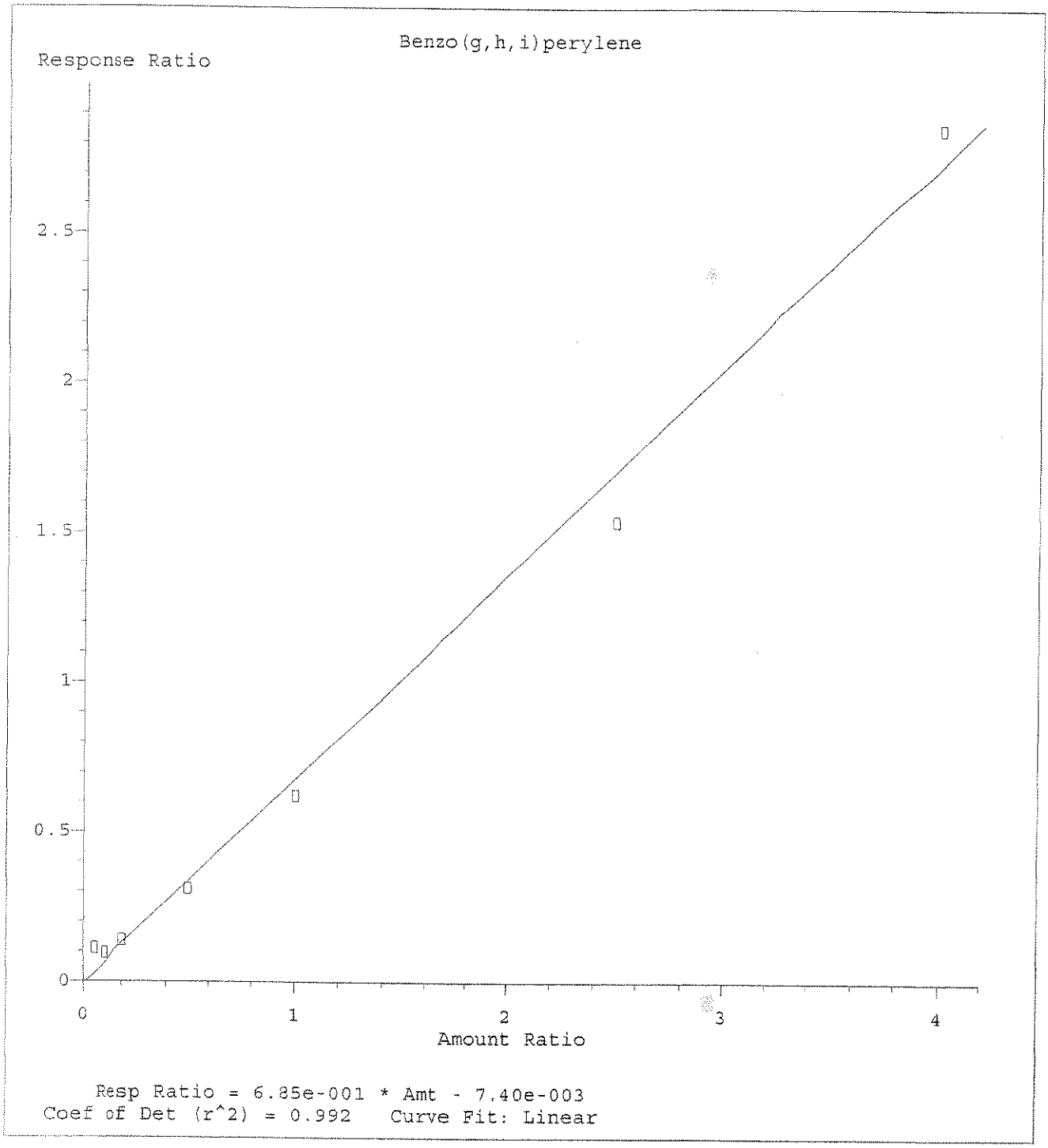
Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M
Calibration Table Last Updated: Thu Jul 20 15:42:56 2006



Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M
Calibration Table Last Updated: Thu Jul 20 15:42:56 2006



Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M
Calibration Table Last Updated: Thu Jul 20 15:42:56 2006



Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M
Calibration Table Last Updated: Thu Jul 20 15:42:56 2006

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\MS2_ME\ME0606\ME062806\SV213428.D Vial: 10
Acq On : 28 Jun 2006 11:02 am Operator: JLS
Sample : BPF0229-SCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 11:31 2006 Quant Results File: PAH2DY.RES

Quant Method : C:\HPCHEM\1\METHODS\PAH2DY.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606036
Last Update : Wed Jun 28 11:08:55 2006
Response via : Initial Calibration
DataAcq Meth : PAH2DX

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.68	152	33934	2.00	ng/uL	0.00
3) Naphthalene-d8	5.06	136	100895	2.00	ng/uL	0.00
8) Acenaphthene-d10	7.73	164	48095	2.00	ng/uL	0.00
13) Phenanthrene-d10	10.56	188	52432	2.00	ng/uL	0.01
19) Chrysene-d12	16.16	240	26485	2.00	ng/uL	0.00
24) Perylene-d12	19.00	264	8461	2.00	ng/uL	0.00
System Monitoring Compounds						
2) 1,2 Dichlorobenzene-d4(SUR	3.87	152	15008	0.94	ng/uL	0.01
Spiked Amount 2.500			Recovery = 37.60%			
4) Nitrobenzene-d5 (SURR)	4.26	82	19387	0.97	ng/uL	0.00
Spiked Amount 2.500			Recovery = 38.80%			
9) 2-Fluorobiphenyl (SURR)	6.59	172	30848	0.98	ng/uL	0.00
Spiked Amount 2.500			Recovery = 39.20%			
14) 2,4,6-Tribromophenol (SURR	9.22	330	2345	0.92	ng/uL	0.00
Spiked Amount 3.750			Recovery = 24.53%			
21) Terphenyl-d14 (SURR)	13.97	244	10798	1.00	ng/uL	0.00
Spiked Amount 2.500			Recovery = 40.00%			
Target Compounds						Qvalue
5) Naphthalene	5.08	128	48607	0.90	ng/uL#	96
6) 2-Methylnaphthalene	6.00	142	28228	0.89	ng/uL	99
7) 1-Methylnaphthalene	6.16	142	1756	0.05	ng/uL	96
10) Acenaphthylene	7.46	152	36645	0.79	ng/uL#	100
11) Acenaphthene	7.78	153	26425	0.91	ng/uL	99
12) Fluorene	8.72	166	24491	0.87	ng/uL	98
15) Pentachlorophenol	10.33	266	1094	0.91	ng/uL#	100
16) Phenanthrene	10.60	178	23699	0.88	ng/uL#	99
17) Anthracene	10.70	178	29782	0.92	ng/uL#	95
18) Fluoranthene	13.10	202	20651	0.91	ng/uL	99
20) Pyrene	13.56	202	20938	0.96	ng/uL	93
22) Benzo(a)anthracene	16.13	228	14647	0.91	ng/uL	99
23) Chrysene	16.22	228	20402	0.99	ng/uL	94
25) Benzo(b)fluoranthene	18.32	252	5193m	0.83	ng/uL	
26) Benzo(k)fluoranthene	18.34	252	10787m	1.06	ng/uL	
27) Benzo(a)pyrene	18.90	252	5463	0.81	ng/uL	91
28) Indeno(1,2,3-cd)pyrene	20.99	276	3636	1.02	ng/uL#	98
29) Dibenzo(a,h)anthracene	21.01	278	2814	1.03	ng/uL#	99
30) Benzo(g,h,i)perylene	21.51	276	2915	1.03	ng/uL#	99

(#) = qualifier out of range (m) = manual integration

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ANALYSIS SEQUENCE

BPG0012

Instrument: SVOAMS2

Calibnration ID: ~~UNASSIGNED~~ PAH202

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0012-TUN1	QC		1		6F26111		
BPG0012-CCV1	QC		2		6F28045	6F13054	
0606374-13	/0C: 8270/3541 ppb PAH SI	A	3			6F13054	MACTEC Engineering & Consulting, In
0606374-14	/0C: 8270/3541 ppb PAH SI	A	4			6F13054	MACTEC Engineering & Consulting, In
0606374-15	/0C: 8270/3541 ppb PAH SI	A	5			6F13054	MACTEC Engineering & Consulting, In
0606374-16	/0C: 8270/3541 ppb PAH SI	A	6			6F13054	MACTEC Engineering & Consulting, In
0606373-03	/0C: 8270/3541 ppb PAH SI	B	7			6F13054	MACTEC Engineering & Consulting, In
0606373-01	/0C: 8270/3541 ppb PAH SI	B	8			6F13054	MACTEC Engineering & Consulting, In
0606383-02	/0C: 8270/3541 ppb PAH SI	A	9			6F13054	MACTEC Engineering & Consulting, In
0606383-05	/0C: 8270/3541 ppb PAH SI	A	10			6F13054	MACTEC Engineering & Consulting, In
0606383-12	/0C: 8270/3541 ppb PAH SI	A	11			6F13054	MACTEC Engineering & Consulting, In
0606383-13	/0C: 8270/3541 ppb PAH SI	A	12			6F13054	MACTEC Engineering & Consulting, In
0606373-20RE1	/0C: 8270/3541 ppb PAH SI	B	13			6F13054	MACTEC Engineering & Consulting, In
0606373-09RE1	/0C: 8270/3541 ppb PAH SI	B	14			6F13054	MACTEC Engineering & Consulting, In
0606373-05RE1	/0C: 8270/3541 ppb PAH SI	B	15			6F13054	MACTEC Engineering & Consulting, In
0606373-03RE1	/0C: 8270/3541 ppb PAH SI	B	16			6F13054	MACTEC Engineering & Consulting, In

Samples Loaded By Date Data Processed By Date

ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
7/4/06	17	SV2 13593	0606274-09	PAH2D2	CF13054	EEB
	18	SV2 94	-10			
	19	SV2 95	-11			
	20	SV2 96	-12			
	21	SV2 97	0606273-12			
	22	SV2 98	0606273-09			
	23	SV2 13599	0606273-05			
	24	SV2 13600	0606273-03		BR	
7/4/06	25	SV2 01	0606273-01	PAH2D2	MA	EEB
7/5/06	1	SV2 02	TM1 MB	DFTPP		VSC
	2	SV2 03	CLV1	PAH2D2		VSC
	1	SV2 04	BP6012-TM1	DFTPP	6F26111	VSC
	2	SV2 05	BP6012-CLV1	PAH2D2	6F28045	
	3	SV2 06	0606374-13		6F13054	
	4	SV2 07	0606374-14			
	5	SV2 08	0606374-16			
	6	SV2 09	0606374-15			
	7	SV2 10	0606373-03			
	8	SV2 11	0606373-01			
	9	SV2 12	0606383-02			
	10	SV2 13	0606373-20		5X	
	11	SV2 14	-09		5X	
	12	SV2 15	-05		5X	
	13	SV2 16	0606373-03		5X	
	14	SV2 17	0606383-12			
	15	SV2 18	-13		2x IS added	
	16	SV2 19	-14			
	17	SV2 20	-03			
7/5/06	18	SV2 21	0606383-04	PAH2D2		

Control Number 60.0019-0601A

Page_____

037

ESS LABORATORY
GCMS2 RUN LOG

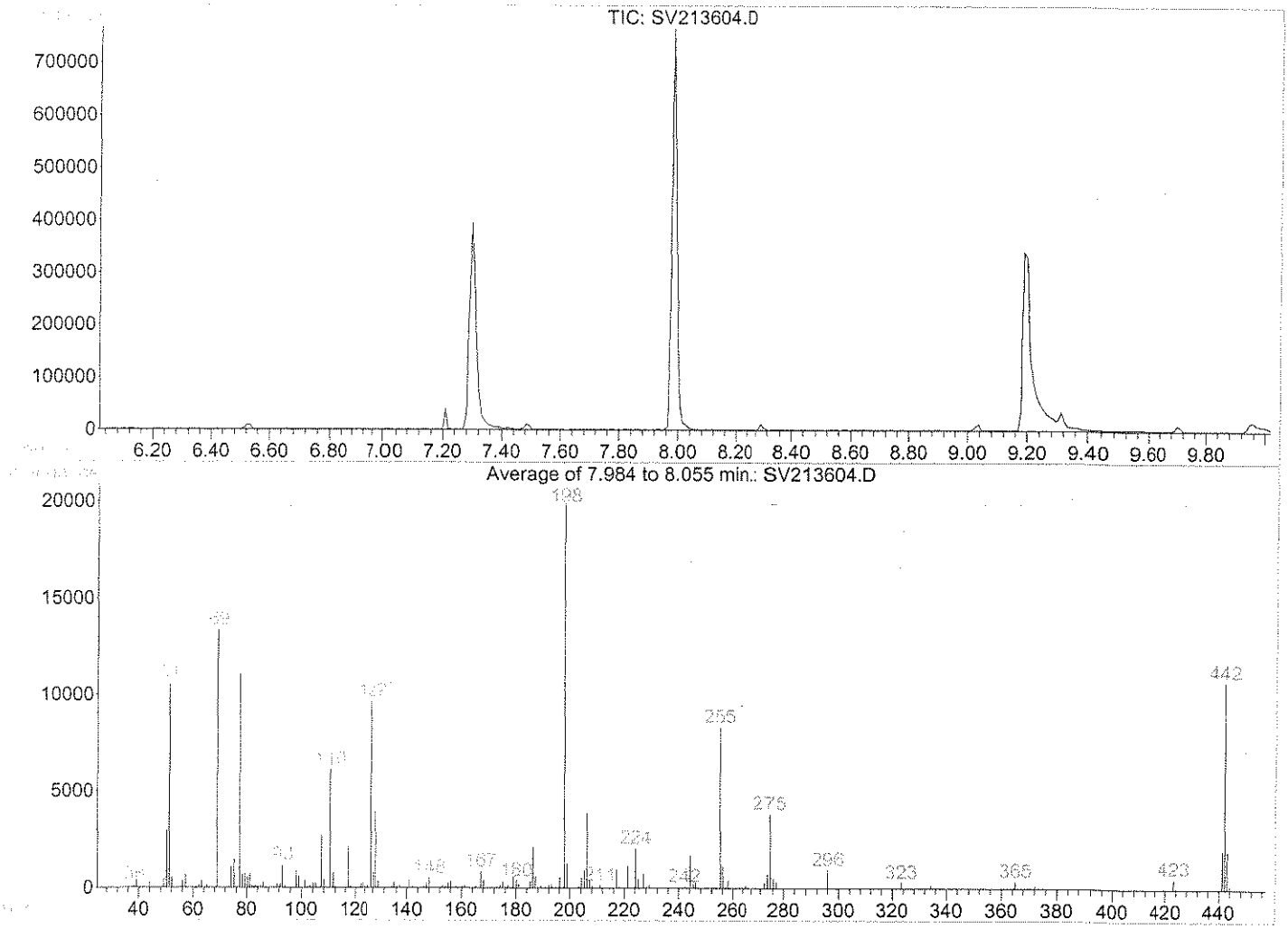
COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYS
7/6/06	19	SV2 13622	0606583-05	PAH2DZ	2x IS added	
	20	SV2 23	-06			
	21	SV2 24	-07			
7/5/06	22	SV2 25	0606383-08	PAH2DZ	2x IS added	
7/6/06	1	SV2 26	BP60029-Tun1	DFTPP		
	2	SV2 27	BP60029-CCV1	PAH2DZ	NB Tune needed	
	2	SV2 28	BP60029-CCV1		MG	
	3	SV2 29	BP60029-Cal1	PAH2EA		
	4	SV2 30	-Cal2	PAH2EA		
	5	SV2 31	-Cal3			
	6	SV2 32	-Cal4			
	7	SV2 33	-Cal5			
	8	SV2 34	-Cal6			
	9	SV2 35	-Cal7			
7/6/06	10	SV2 36	-SCV1	PAH2EA		
7/6/06	1	SV2 37	BP60044-Tun1	DFTPP	CF26111	
	10 7/7/06	SV2 38	BP60044-CCV1	PAH2EA	CF28045	
	11	SV2 39	0606383-09		RR IS Failed CF30414	
	12	SV2 40	-11		RR	
	13	SV2 41	-01		RR	
	14	SV2 42	-10		RR	
	15	SV2 43	-03		2x IS ✓ PAH2EA2	
	16	SV2 44	-04		2x IS ✓	
	17	SV2 45	-05		2x IS ✓	
	18	SV2 46	-13		2x IS ✓	
	19	SV2 47	-14		2x IS ✓	
	20	SV2 48	-07		2x IS ✓	
7/6/06	21	SV2 49	0606383-08	PAH2EA	2x IS ✓	
		SV2				

Control Number 60.0019-0601A

Page_____

Data File : Q:\SVOA\MS2_ME\ME0706\ME070506\SV213604.D Vial: 1
Acq On : 5 Jul 2006 8:42 am Operator: VSC
Sample : BPG0012-TUN1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270



Spectrum Information: Average of 7.984 to 8.055 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	53.0	10552	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	67.2	13367	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	48.4	9634	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	19895	PASS
199	198	5	9	6.4	1278	PASS
275	198	10	30	19.3	3844	PASS
365	198	1	100	1.9	381	PASS
441	443	0.01	100	99.8	1980	PASS
442	198	40	100	53.9	10728	PASS
443	442	17	23	18.5	1984	PASS

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\MS2_ME\ME0706\ME070506\SV213605.D Vial: 2
Acq On : 5 Jul 2006 9:04 am Operator: VSC
Sample : BPG0012-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 5 9:31 2006 Quant Results File: PAH2DZ.RES

Quant Method : C:\HPCHEM\1\METHODS\PAH2DZ.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606036
Last Update : Mon Jul 03 06:13:54 2006
Response via : Initial Calibration
DataAcq Meth : PAH2DZ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.53	152	25608	2.00 ng/uL	-0.05
3) Naphthalene-d8	4.88	136	83085	2.00 ng/uL	-0.06
8) Acenaphthene-d10	7.51	164	40211	2.00 ng/uL	-0.08
13) Phenanthrene-d10	10.31	188	51255	2.00 ng/uL	-0.08
19) Chrysene-d12	15.88	240	34858	2.00 ng/uL	-0.10
24) Perylene-d12	18.71	264	37299	2.00 ng/uL	-0.10
System Monitoring Compounds					
2) 1,2 Dichlorobenzene-d4(SUR	3.71	152	11742	1.04 ng/uL	-0.05
Spiked Amount 2.500			Recovery = 41.60%		
4) Nitrobenzene-d5 (SURR)	4.10	82	15967m	1.01 ng/uL	-0.06
Spiked Amount 2.500			Recovery = 40.40%		
9) 2-Fluorobiphenyl (SURR)	6.38	172	26375	1.05 ng/uL	-0.07
Spiked Amount 2.500			Recovery = 42.00%		
14) 2,4,6-Tribromophenol (SURR	9.22	330	132	-0.04 ng/uL	0.00
Spiked Amount 3.750			Recovery = -1.07%		
21) Terphenyl-d14 (SURR)	13.70	244	14023	0.93 ng/uL	-0.09
Spiked Amount 2.500			Recovery = 37.20%		
Target Compounds					Qvalue
5) Naphthalene	4.90	128	42341	0.96 ng/uL#	96
6) 2-Methylnaphthalene	5.81	142	24922	0.97 ng/uL	98
7) 1-Methylnaphthalene	5.96	142	25344	0.97 ng/uL	94
10) Acenaphthylene	7.23	152	38881	1.04 ng/uL#	99
11) Acenaphthene	7.56	153	24405	1.02 ng/uL	98
12) Fluorene	8.48	166	24352	1.02 ng/uL	98
15) Pentachlorophenol	10.24	266	389	0.57 ng/uL#	100
16) Phenanthrene	10.35	178	23947	0.99 ng/uL#	99
17) Anthracene	10.44	178	33434	1.03 ng/uL#	94
18) Fluoranthene	12.83	202	26718	1.12 ng/uL	95
20) Pyrene	13.29	202	28089	0.93 ng/uL	99
22) Benzo(a)anthracene	15.85	228	16227	1.03 ng/uL	98
23) Chrysene	15.93	228	34362	1.17 ng/uL	95
25) Benzo(b)fluoranthene	18.03	252	12513m	0.93 ng/uL	
26) Benzo(k)fluoranthene	18.06	252	44014m	0.93 ng/uL	
27) Benzo(a)pyrene	18.61	252	25874	1.04 ng/uL	98
28) Indeno(1,2,3-cd)pyrene	20.64	276	16950	0.89 ng/uL#	95
29) Dibenzo(a,h)anthracene	20.65	278	13615	0.92 ng/uL#	97
30) Benzo(g,h,i)perylene	21.11	276	14362	0.91 ng/uL#	99

(#) = qualifier out of range (m) = manual integration

ANALYSIS SEQUENCE

BPG0044

Instrument: SVOAMS2

Calibnration ID: ~~UNASSIGNED~~ PAH202

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0044-TUN1	QC		1		6F26111		
BPG0044-CCV1	QC		2		6F28045	6F13054	
0606383-01	VOC: 8270/3541 ppb PAH SI	A	3			6F13054	MACTEC Engineering & Consulting, In
0606383-11	VOC: 8270/3541 ppb PAH SI	A	4			6F13054	MACTEC Engineering & Consulting, In
0606383-03	VOC: 8270/3541 ppb PAH SI	A	5			6F13054	MACTEC Engineering & Consulting, In
0606383-04	VOC: 8270/3541 ppb PAH SI	A	6			6F13054	MACTEC Engineering & Consulting, In
0606383-06	VOC: 8270/3541 ppb PAH SI	A	7			6F13054	MACTEC Engineering & Consulting, In
0606383-07	VOC: 8270/3541 ppb PAH SI	A	8			6F13054	MACTEC Engineering & Consulting, In
0606383-08	VOC: 8270/3541 ppb PAH SI	A	9			6F13054	MACTEC Engineering & Consulting, In
0606383-10	VOC: 8270/3541 ppb PAH SI	A	10			6F13054	MACTEC Engineering & Consulting, In
0606383-14	VOC: 8270/3541 ppb PAH SI	A	11			6F13054	MACTEC Engineering & Consulting, In

Samples Loaded By Date Data Processed By Date

ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
7/5/06	19	SV2 13622	0606583-05	PAH2D2	2x IS added	JC
"	20	SV2 23	" -06	"		"
"	21	SV2 24	" -07	"	"	"
7/5/06	22	SV2 25	0606383-08	PAH2D2	2x IS added	JC
7/6/06	1	SV2 26	BP6-0029-Run1	DFTPP	BF26111	JC
	2	SV2 27	BP6-0029-CCV1	PAH2D2	No ISTD needed	
	2	SV2 28	BP6-0029-CCV1		No	
	3	SV2 29	BP6-0029-Cal1	~~PAH2D2~~ PAH2EA	6E1105J	
	4	SV2 30	-Cal2	PAH2EA	J8	
	5	SV2 31	-Cal3		J7	
	6	SV2 32	-Cal4		J5	
	7	SV2 33	-Cal5		J4	
	8	SV2 34	-Cal6		J3	
	9	SV2 35	-Cal7		J2	
7/6/06	10	SV2 36	-SCV1	PAH2EA	6E1206	JC
7/6/06	1	SV2 37	BP6-0044-Run1	DFTPP	BF26111	JC
"	10 ~~7/6/06~~	SV2 38	BP6-0044-CCV1	PAH2EA	6F2804S	
	11	SV2 39	0606383-09		BB IS Failed 6F2804	
	12	SV2 40	" 11		BB N	
	13	SV2 41	-01		BB	
	14	SV2 42	-10		BB	
	15	SV2 43	03		1x IS ✓ PAH2EA2	
	16	SV2 44	04		2x IS ✓	
	17	SV2 45	06		2x IS ✓	
	18	SV2 46	13		2x IS ✓	
	19	SV2 47	14		2x IS ✓	
	20	SV2 48	07		2x IS ✓	
7/11/06	21	SV2 49	0606383 08	PAH2EA	2x IS ✓	JC
		~~SV2~~ X	N/A			

Control Number 60.0019-0601A

Page_____

DFTPP

Data File : Q:\SVOA\MS2_ME\ME0706\ME070606\SV213638.D Vial: 1
Acq On : 6 Jul 2006 7:37 pm Operator: VSC
Sample : BPG0044-TUN1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\PAH2EB.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0607020

Spectrum Information: Average of 7.913 to 7.954 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	57.7	30898	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	73.3	39231	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	52.6	28151	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	53510	PASS
199	198	5	9	6.4	3449	PASS
275	198	10	30	19.5	10445	PASS
365	198	1	100	1.8	945	PASS
441	443	0.01	100	89.0	4364	PASS
442	198	40	100	47.7	25523	PASS
443	442	17	23	19.2	4903	PASS

SV213638.D PAH2EB.M Tue Jul 25 17:27:04 2006

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\MS2_ME\ME0706\ME070606\SV213639.D Vial: 2
Acq On : 6 Jul 2006 7:58 pm Operator: VSC
Sample : BPG0044-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 7 5:29 2006 Quant Results File: PAH2EA.RES

Quant Method : C:\HPCHEM\1\METHODS\PAH2EA.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0607005
Last Update : Thu Jul 06 17:51:27 2006
Response via : Initial Calibration
DataAcq Meth : PAH2DZ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.49	152	18629	2.00	ng/uL	0.00
3) Naphthalene-d8	4.82	136	67203	2.00	ng/uL	0.00
8) Acenaphthene-d10	7.44	164	32941	2.00	ng/uL	0.00
13) Phenanthrene-d10	10.23	188	39563	2.00	ng/uL	0.00
19) Chrysene-d12	15.79	240	27897	2.00	ng/uL	0.00
24) Perylene-d12	18.61	264	20806	2.00	ng/uL	0.00
System Monitoring Compounds						
2) 1,2 Dichlorobenzene-d4(SUR	3.67	152	8184m	0.92	ng/uL	0.00
Spiked Amount 2.500			Recovery = 36.80%			
4) Nitrobenzene-d5 (SURR)	4.05	82	13126	0.95	ng/uL	0.00
Spiked Amount 2.500			Recovery = 38.00%			
9) 2-Fluorobiphenyl (SURR)	6.33	172	20584	0.98	ng/uL	0.00
Spiked Amount 2.500			Recovery = 39.20%			
14) 2,4,6-Tribromophenol (SURR	0.00	330	0d	0.00	ng/uL	
Spiked Amount 3.750			Recovery = 0.00%			
21) Terphenyl-d14 (SURR)	13.62	244	11264	1.02	ng/uL	0.00
Spiked Amount 2.500			Recovery = 40.80%			
Target Compounds						Qvalue
5) Naphthalene	4.84	128	34077	0.92	ng/uL#	96
6) 2-Methylnaphthalene	5.75	142	20244	0.94	ng/uL	98
7) 1-Methylnaphthalene	5.90	142	20856	0.95	ng/uL	93
10) Acenaphthylene	7.17	152	30264	0.97	ng/uL#	100
11) Acenaphthene	7.49	153	19639	0.98	ng/uL	98
12) Fluorene	8.41	166	19793	0.99	ng/uL	98
15) Pentachlorophenol	10.01	266	1492m	0.81	ng/uL	
16) Phenanthrene	10.27	178	23443	1.00	ng/uL#	100
17) Anthracene	10.36	178	23824	1.00	ng/uL#	97
18) Fluoranthene	12.74	202	20841	0.97	ng/uL	96
20) Pyrene	13.20	202	22418	1.01	ng/uL	99
22) Benzo(a)anthracene	15.76	228	18046	0.97	ng/uL	99
23) Chrysene	15.84	228	21340	1.04	ng/uL	94
25) Benzo(b)fluoranthene	17.92	252	16691	1.10	ng/uL	92
26) Benzo(k)fluoranthene	17.97	252	20566m	1.11	ng/uL	
27) Benzo(a)pyrene	18.51	252	13844	1.01	ng/uL	93
28) Indeno(1,2,3-cd)pyrene	20.50	276	5800	0.93	ng/uL#	95
29) Dibenzo(a,h)anthracene	20.53	278	4562	0.93	ng/uL#	93
30) Benzo(g,h,i)perylene	20.98	276	5016	1.04	ng/uL#	98

(#) = qualifier out of range (m) = manual integration

ANALYSIS SEQUENCE

BPG0049

Instrument: SVOAMS2

Calibnration ID: ~~UNASSIGNED~~ AM12EA

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0049-TUN1	QC		1		6F26111		
BPG0049-CCV1	QC		2		6F28045	6F13054	
0606383-09	VOC: 8270/3541 ppb PAH SI	A	3			6F13054	MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GCMS2 RUN LOG

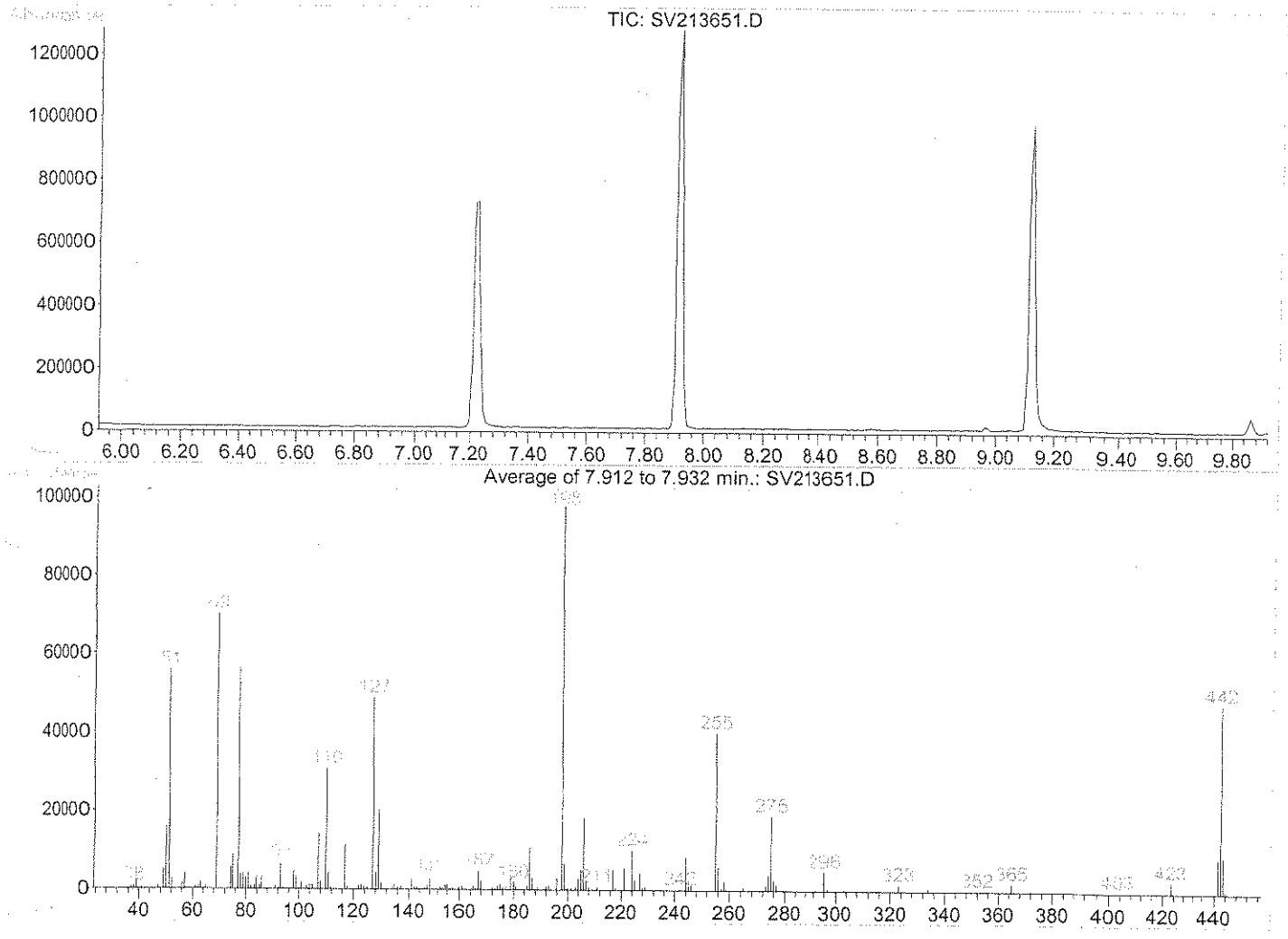
COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
7/7/06	1	SV2 13651	BPB-0049-Tun1	~~PA~~ DFTPP 7/7/06	6F26111	JLS
	2	SV2 52	BPB-0049-CCV1	PAH2EA	6F28045	
	3	SV2 53	0606383-11		6F13054	
	4	SV2 54	-09			
	5	SV2 55	-01			
	6	SV2 56	0606382-10	PAH2EA		JLS
	2	SV2 57	BPB0054-CCV1	SV2KB	6F27064	VSL
	3	SV2 58	BB60526-Blk1		6F26097	
	4	SV2 59	BB60526-BS1			
	5	SV2 60	BB60526-BSD1			
	6	SV2 61	0606542-01			
	7	SV2 62	0606543-01			
	8	SV2 63	BB60526-MS1			
	9	SV2 64	BB60526-MSD1			
	10	SV2 65	0606544-01			
7/7/06	11	SV2 66	0606503-07	SV2KB		VSL
7/7/06	1	SV2 67	BPB0057-Tun1	DFTPP	6F26111	VSL
	2	SV2 68	BPB-0057-CCV1	SV2KB	6F27064	
	3	SV2 69	BB60631 Blk1		6F26097	
	4	SV2 70	BB60631-BS1			
	5	SV2 71	BB60631-BSD1			
	6	SV2 72	0607034-01			
	7	SV2 73	0607034-02			
	8	SV2 74	0607034-03			
	9	SV2 75	BB60628-Blk1			
	10	SV2 76	BB60628-BS1			
	11	SV2 77	BB60628-BSD1			
	12	SV2 78	0607022-01			
7/7/06	13	SV2 79	~~0607022-02~~ 0607022-02 VSL	SV2KB		VSL

Control Number 60.0019-0601A 7/7/06 Page_____

035

Data File : Q:\SVOA\MS2_ME\ME0706\ME070706\SV213651.D Vial: 1
Acq On : 7 Jul 2006 6:36 am Operator: JLS
Sample : BPG0049-TUN1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)
Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)



Spectrum Information: Average of 7.912 to 7.932 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	57.0	55813	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	71.6	70131	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	49.8	48788	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	97909	PASS
199	198	5	9	6.7	6535	PASS
275	198	10	30	19.4	18982	PASS
365	198	1	100	2.1	2011	PASS
441	443	0.01	100	99.1	9086	PASS
442	198	40	100	49.1	48101	PASS
443	442	17	23	19.1	9169	PASS

SV213651.D SV2KG.M Fri Jul 07 11:31:53 2006

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\MS2_ME\ME0706\ME070706\SV213652.D Vial: 2
Acq On : 7 Jul 2006 6:56 am Operator: JLS
Sample : BPG0049-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 7 8:20 2006 Quant Results File: PAH2EA.RES

Quant Method : C:\HPCHEM\1\METHODS\PAH2EA.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0607005
Last Update : Thu Jul 06 17:51:27 2006
Response via : Initial Calibration
DataAcq Meth : PAH2DZ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.47	152	22508	2.00	ng/uL	-0.02
3) Naphthalene-d8	4.80	136	81799	2.00	ng/uL	-0.02
8) Acenaphthene-d10	7.41	164	39748	2.00	ng/uL	-0.03
13) Phenanthrene-d10	10.20	188	47165	2.00	ng/uL	-0.03
19) Chrysene-d12	15.75	240	32971	2.00	ng/uL	-0.04
24) Perylene-d12	18.58	264	28700	2.00	ng/uL	-0.04
System Monitoring Compounds						
2) 1,2 Dichlorobenzene-d4 (SUR	3.65	152	9780m	0.90	ng/uL	-0.02
Spiked Amount 2.500			Recovery = 36.00%			
4) Nitrobenzene-d5 (SURR)	4.03	82	15981m	0.95	ng/uL	-0.02
Spiked Amount 2.500			Recovery = 38.00%			
9) 2-Fluorobiphenyl (SURR)	6.30	172	25019	0.98	ng/uL	-0.03
Spiked Amount 2.500			Recovery = 39.20%			
14) 2,4,6-Tribromophenol (SURR	0.00	330	0d	0.00	ng/uL	
Spiked Amount 3.750			Recovery = 0.00%			
21) Terphenyl-d14 (SURR)	13.59	244	13361	1.03	ng/uL	-0.03
Spiked Amount 2.500			Recovery = 41.20%			
Target Compounds						Qvalue
5) Naphthalene	4.82	128	41788	0.93	ng/uL#	96
6) 2-Methylnaphthalene	5.72	142	24923	0.95	ng/uL	98
7) 1-Methylnaphthalene	5.88	142	25315	0.95	ng/uL	93
10) Acenaphthylene	7.14	152	37655	1.00	ng/uL#	100
11) Acenaphthene	7.46	153	23959	1.00	ng/uL	99
12) Fluorene	8.38	166	24253	1.00	ng/uL	98
16) Phenanthrene	10.24	178	27912	1.00	ng/uL#	100
17) Anthracene	10.33	178	28102	0.99	ng/uL#	96
18) Fluoranthene	12.71	202	25634	1.00	ng/uL	96
20) Pyrene	13.16	202	27530	1.05	ng/uL	99
22) Benzo(a)anthracene	15.72	228	22896	1.04	ng/uL	99
23) Chrysene	15.81	228	24566	1.01	ng/uL	94
25) Benzo(b)fluoranthene	17.88	252	22646	1.08	ng/uL	94
26) Benzo(k)fluoranthene	17.93	252	27685	1.08	ng/uL	90
27) Benzo(a)pyrene	18.48	252	19777	1.05	ng/uL	94
28) Indeno(1,2,3-cd)pyrene	20.45	276	7917	0.92	ng/uL#	92
29) Dibenzo(a,h)anthracene	20.48	278	6262	0.93	ng/uL#	95
30) Benzo(g,h,i)perylene	20.93	276	6366	0.96	ng/uL#	93

(#) = qualifier out of range (m) = manual integration

Semi-Volatile Organics Logbooks

0606422 0606430
0606407

ESS Organic Preparation Logbook

Project #: 0606383
Prep Date: 06/28/06
Batch ID: LLFBF62835
Extraction Method: 3510

Surrogate ID#
A 6F20042
B NA
C

Matrix Spike ID#
D 6F21077
E NA
F

Analytical Matrix: Aq
Extraction Time:
Start: 1800
Finish:

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
LLFBF62835-B	1000	1	NA	1	1	NA	6/28/06	40	>12			MLM	SD	
-BS	1000	1	0.025	1	1				>12					
-BSD	1000	1	0.025	1	1				>12					
0606383-15	1000	1	NA	1	1				>12	✓				
0606407-01	1000	1		1	1				>12	✓				
-02	1000	1		1	1				>12	✓				
-03	1000	1		1	1				>12	✓				
0606422-01	1000	1		1	1				>12	✓				
0606430-01	1000	1		1	1				>12	✓				
-02	1000	1	NA	1	1	NA	6/28/06	40	>12	✓	EMULSION	MLM	SD	

697

Analysis Performed
PCB ☐
B/N SVOA ☐
SVOA ☐
LL PAH ☐
PEST ☐
TPH/GC ☐
BIS-2 ☐
PAH ☐

Acid Washed: Y / (N) H2SO4 ID# NA
Cu Cleaned: Y / (N) Cu ID# NA
Florisiled: Y / (N) Lot# NA
Silica Column/Carbon prep: Y (N) Lot # NA

CH_2Cl_2 lot # CQ689
Hexane lot# NA
Acetone lot# NA
NaOH ID# WR053106A
Na_2SO_4 ID# PR06020066

Prepared By: MLM
Glasswool: PR0606061F
Method #(s): 8270

**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A

BATCH ID/Test: BF62835
BATCH ID/Test:
Page

160

ESS Organic Preparation Logbook

Project #: 0606374, 0606383
Prep Date: 6/27/06
Batch ID: SXBF62717
Extraction Method: 3541

Surrogate ID#
A 6F26064
B 6F20042
C NA

Matrix Spike ID#
D 6F21077
E NA
F

Analytical Matrix: soil
Extraction Time:
Start: 11:00
Finish: —

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
0606383-11M	21.0	1	1	1	1	NA	6/27/06	40	NA	NA		EM	NM	JLS
-11MD	20.2	1	1	1	1	NA	6/27/06	40	NA	NA		EM	NM	JLS

698

Analysis Performed
PCB ☐
B/N SVOA ☐
SVOA ☒
LL PAH ☐
PEST ☐
TPH/GC ☐
BIS-2 ☐
PAH ☐

Acid Washed: Y/N (N) H2SO4 ID# NA
Cu Cleaned: Y/N (N) Cu ID# NA
Florisiled: Y/N (N) Lot# NA
Silica Column/Carbon prep: Y/N (N) Lot #

CH_2Cl_2 lot # CQ689
Hexane lot# NA
Acetone lot# NA
NaOH ID# NA
Na_2SO_4 ID# [illegible]

Prepared By: [illegible]
Glasswool: [illegible]
Method #(s): 8270

**Check off column if entire sample used and bottle discarded.

EM 6/28/06

Control #50 0001 06931

ESS Organic Preparation Logbook

Project #: 0606381
Prep Date: 6/28/06
Batch ID: SXBF62824
Extraction Method: 3541

Surrogate ID#
A 6F26004
B 6F26042
C NA

Matrix Spike ID#
D 6F21077
E NA
F

Analytical Matrix: soil
Extraction Time:
Start: 12:00
Finish: —

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml
5ml hexane and transferred as Vol 1. The other half (0.5ml
CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/Wt(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
SXBF62824-B	20.0	1	NA	1	1	NA	6/28/06	40	NA	NA		EM	NMT	JSS
-B1	20.0	1	1	1	1									
-BD	20.0	1	1	1	1									
0606383-04	21.0	1	NA	1	1									
-05	20.2	1		1	1									
-06	20.4	1		1	1									
-07	20.0	1		1	1									
-08	21.0	1		1	1									
-09	19.2	1		1	1									
-10	20.1	1		1	1									
-12	20.6	1		1	1									
-13	19.9	1	NA	1	1									
-13M/	20.4	1	1	1	1									
-13MD	20.9	1	1	1	1									
-14	21.0	1	NA	1	1									
SXBF62824-LLB/	20.0	1B	0.05	1	1									
-LLBD	20.0	1B	0.05	1	1	NA	6/28/06	40	NA	NA		EM	NMT	JSC

Analysis Performed
PCB ☐
B/N SVOA ☐
SVOA ☒
LL PAH ☐
PEST ☐
TPH/GC ☐
BIS-2 ☐
PAH ☐

699

Acid Washed: Y/N (N) H2SO4 ID# NA	Cu Cleaned: Y/N (N) Cu ID# NA	Florisiled: Y/N (N) Lot# NA	Silica Column/Carbon prep: Y/N (N) Lot # NA

CH_2Cl_2 lot # CQ689
Hexane lot# NA
Acetone lot# NA
NaOH ID# NA
Na_2SO_4 ID# MIDL2600A

Prepared By: EM
Glasswool: MIDL6140W
Method #(s): 8270

**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A
BATCH ID/Test: BF62824
BATCH ID/Test: ______
Page ______

155

Pesticides
Data Package

Pesticides
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2401
Date Sampled: 06/22/06 16:35
Percent Solids: 40
Initial Volume: 10.9
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-01
Sample Matrix: Soil
Analyst: ML
Prepared: 06/27/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	22.9	1	06/28/06
4,4'-DDE	ND	ug/Kg dry	22.9	1	06/28/06
4,4'-DDT	ND	ug/Kg dry	22.9	1	06/28/06
Aldrin	ND	ug/Kg dry	22.9	1	06/28/06
alpha-BHC	ND	ug/Kg dry	22.9	1	06/28/06
alpha-Chlordane	ND	ug/Kg dry	22.9	1	06/28/06
beta-BHC	ND	ug/Kg dry	22.9	1	06/28/06
Chlordane (Total)	ND	ug/Kg dry	229	1	06/28/06
delta-BHC	ND	ug/Kg dry	22.9	1	06/28/06
Dieldrin	ND	ug/Kg dry	22.9	1	06/28/06
Endosulfan I	ND	ug/Kg dry	22.9	1	06/28/06
Endosulfan II	ND	ug/Kg dry	22.9	1	06/28/06
Endosulfan Sulfate	ND	ug/Kg dry	22.9	1	06/28/06
Endrin	ND	ug/Kg dry	22.9	1	06/28/06
Endrin Aldehyde	ND	ug/Kg dry	22.9	1	06/28/06
Endrin Ketone	ND	ug/Kg dry	22.9	1	06/28/06
gamma-BHC (Lindane)	ND	ug/Kg dry	22.9	1	06/28/06
gamma-Chlordane	ND	ug/Kg dry	22.9	1	06/28/06
Heptachlor	ND	ug/Kg dry	22.9	1	06/28/06
Heptachlor Epoxide	ND	ug/Kg dry	22.9	1	06/28/06
Hexachlorobenzene	ND	ug/Kg dry	22.9	1	06/28/06
Methoxychlor	ND	ug/Kg dry	22.9	1	06/28/06
Toxaphene	ND	ug/Kg dry	1150	1	06/28/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*128 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*117 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*84 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2201
Date Sampled: 06/22/06 17:00
Percent Solids: 30
Initial Volume: 10.2
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-03
Sample Matrix: Soil
Analyst: ML
Prepared: 06/27/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	32.7	1	06/28/06
4,4'-DDE	ND	ug/Kg dry	32.7	1	06/28/06
4,4'-DDT	ND	ug/Kg dry	32.7	1	06/28/06
Aldrin	ND	ug/Kg dry	32.7	1	06/28/06
alpha-BHC	ND	ug/Kg dry	32.7	1	06/28/06
alpha-Chlordane	ND	ug/Kg dry	32.7	1	06/28/06
beta-BHC	ND	ug/Kg dry	32.7	1	06/28/06
Chlordane (Total)	ND	ug/Kg dry	327	1	06/28/06
delta-BHC	ND	ug/Kg dry	32.7	1	06/28/06
Dieldrin	ND	ug/Kg dry	32.7	1	06/28/06
Endosulfan I	ND	ug/Kg dry	32.7	1	06/28/06
Endosulfan II	ND	ug/Kg dry	32.7	1	06/28/06
Endosulfan Sulfate	ND	ug/Kg dry	32.7	1	06/28/06
Endrin	ND	ug/Kg dry	32.7	1	06/28/06
Endrin Aldehyde	ND	ug/Kg dry	32.7	1	06/28/06
Endrin Ketone	ND	ug/Kg dry	32.7	1	06/28/06
gamma-BHC (Lindane)	ND	ug/Kg dry	32.7	1	06/28/06
gamma-Chlordane	ND	ug/Kg dry	32.7	1	06/28/06
Heptachlor	ND	ug/Kg dry	32.7	1	06/28/06
Heptachlor Epoxide	ND	ug/Kg dry	32.7	1	06/28/06
Hexachlorobenzene	ND	ug/Kg dry	32.7	1	06/28/06
Methoxychlor	ND	ug/Kg dry	32.7	1	06/28/06
Toxaphene	ND	ug/Kg dry	1630	1	06/28/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*125 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*108 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*80 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2701
Date Sampled: 06/22/06 17:35
Percent Solids: 20
Initial Volume: 10.4
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-05
Sample Matrix: Soil
Analyst: ML
Prepared: 06/27/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	48.1	1	06/28/06
4,4'-DDE	ND	ug/Kg dry	48.1	1	06/28/06
4,4'-DDT	ND	ug/Kg dry	48.1	1	06/28/06
Aldrin	ND	ug/Kg dry	48.1	1	06/28/06
alpha-BHC	ND	ug/Kg dry	48.1	1	06/28/06
alpha-Chlordane	ND	ug/Kg dry	48.1	1	06/28/06
beta-BHC	ND	ug/Kg dry	48.1	1	06/28/06
Chlordane (Total)	ND	ug/Kg dry	481	1	06/28/06
delta-BHC	ND	ug/Kg dry	48.1	1	06/28/06
Dieldrin	ND	ug/Kg dry	48.1	1	06/28/06
Endosulfan I	ND	ug/Kg dry	48.1	1	06/28/06
Endosulfan II	ND	ug/Kg dry	48.1	1	06/28/06
Endosulfan Sulfate	ND	ug/Kg dry	48.1	1	06/28/06
Endrin	ND	ug/Kg dry	48.1	1	06/28/06
Endrin Aldehyde	ND	ug/Kg dry	48.1	1	06/28/06
Endrin Ketone	ND	ug/Kg dry	48.1	1	06/28/06
gamma-BHC (Lindane)	ND	ug/Kg dry	48.1	1	06/28/06
gamma-Chlordane	ND	ug/Kg dry	48.1	1	06/28/06
Heptachlor	ND	ug/Kg dry	48.1	1	06/28/06
Heptachlor Epoxide	ND	ug/Kg dry	48.1	1	06/28/06
Hexachlorobenzene	ND	ug/Kg dry	48.1	1	06/28/06
Methoxychlor	ND	ug/Kg dry	48.1	1	06/28/06
Toxaphene	ND	ug/Kg dry	2400	1	06/28/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*135 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*114 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*81 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2601
Date Sampled: 06/22/06 18:10
Percent Solids: 54
Initial Volume: 9.8
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-07
Sample Matrix: Soil
Analyst: ML
Prepared: 06/27/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	18.9	1	06/28/06
4,4'-DDE	ND	ug/Kg dry	18.9	1	06/28/06
4,4'-DDT	ND	ug/Kg dry	18.9	1	06/28/06
Aldrin	ND	ug/Kg dry	18.9	1	06/28/06
alpha-BHC	ND	ug/Kg dry	18.9	1	06/28/06
alpha-Chlordane	ND	ug/Kg dry	18.9	1	06/28/06
beta-BHC	ND	ug/Kg dry	18.9	1	06/28/06
Chlordane (Total)	ND	ug/Kg dry	189	1	06/28/06
delta-BHC	ND	ug/Kg dry	18.9	1	06/28/06
Dieldrin	ND	ug/Kg dry	18.9	1	06/28/06
Endosulfan I	ND	ug/Kg dry	18.9	1	06/28/06
Endosulfan II	ND	ug/Kg dry	18.9	1	06/28/06
Endosulfan Sulfate	ND	ug/Kg dry	18.9	1	06/28/06
Endrin	ND	ug/Kg dry	18.9	1	06/28/06
Endrin Aldehyde	ND	ug/Kg dry	18.9	1	06/28/06
Endrin Ketone	ND	ug/Kg dry	18.9	1	06/28/06
gamma-BHC (Lindane)	ND	ug/Kg dry	18.9	1	06/28/06
gamma-Chlordane	ND	ug/Kg dry	18.9	1	06/28/06
Heptachlor	ND	ug/Kg dry	18.9	1	06/28/06
Heptachlor Epoxide	ND	ug/Kg dry	18.9	1	06/28/06
Hexachlorobenzene	ND	ug/Kg dry	18.9	1	06/28/06
Methoxychlor	ND	ug/Kg dry	18.9	1	06/28/06
Toxaphene	ND	ug/Kg dry	945	1	06/28/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*129 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*109 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*81 %*		*30-150*

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2501
Date Sampled: 06/22/06 18:45
Percent Solids: 30
Initial Volume: 10.8
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-10
Sample Matrix: Soil
Analyst: ML
Prepared: 06/27/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	30.9	1	06/28/06
4,4'-DDE	ND	ug/Kg dry	30.9	1	06/28/06
4,4'-DDT	ND	ug/Kg dry	30.9	1	06/28/06
Aldrin	ND	ug/Kg dry	30.9	1	06/28/06
alpha-BHC	ND	ug/Kg dry	30.9	1	06/28/06
alpha-Chlordane	ND	ug/Kg dry	30.9	1	06/28/06
beta-BHC	ND	ug/Kg dry	30.9	1	06/28/06
Chlordane (Total)	ND	ug/Kg dry	309	1	06/28/06
delta-BHC	ND	ug/Kg dry	30.9	1	06/28/06
Dieldrin	ND	ug/Kg dry	30.9	1	06/28/06
Endosulfan I	ND	ug/Kg dry	30.9	1	06/28/06
Endosulfan II	ND	ug/Kg dry	30.9	1	06/28/06
Endosulfan Sulfate	ND	ug/Kg dry	30.9	1	06/28/06
Endrin	ND	ug/Kg dry	30.9	1	06/28/06
Endrin Aldehyde	ND	ug/Kg dry	30.9	1	06/28/06
Endrin Ketone	ND	ug/Kg dry	30.9	1	06/28/06
gamma-BHC (Lindane)	ND	ug/Kg dry	30.9	1	06/28/06
gamma-Chlordane	ND	ug/Kg dry	30.9	1	06/28/06
Heptachlor	ND	ug/Kg dry	30.9	1	06/28/06
Heptachlor Epoxide	ND	ug/Kg dry	30.9	1	06/28/06
Hexachlorobenzene	ND	ug/Kg dry	30.9	1	06/28/06
Methoxychlor	ND	ug/Kg dry	30.9	1	06/28/06
Toxaphene	ND	ug/Kg dry	1540	1	06/28/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*119 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*103 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*97 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*79 %*		*30-150*

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

Pesticides
Quality Control

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BF62806 - 5035										
Bromodichloromethane	27.5		ug/L	25.0		110	70-130	5	20	
Bromoform	24.6		ug/L	25.0		98	70-130	4	20	
Bromomethane	24.9		ug/L	25.0		100	70-130	12	20	
Carbon Disulfide	26.5		ug/L	25.0		106	70-130	7	20	
Carbon Tetrachloride	24.9		ug/L	25.0		100	70-130	9	20	
Chlorobenzene	26.7		ug/L	25.0		107	70-130	7	20	
Chloroethane	24.8		ug/L	25.0		99	70-130	5	20	
Chloroform	25.5		ug/L	25.0		102	70-130	6	20	
Chloromethane	23.8		ug/L	25.0		95	70-130	3	20	
cis-1,2-Dichloroethene	27.2		ug/L	25.0		109	70-130	5	20	
cis-1,3-Dichloropropene	24.4		ug/L	25.0		98	70-130	6	20	
Dibromochloromethane	24.7		ug/L	25.0		99	70-130	4	20	
Dibromomethane	25.4		ug/L	25.0		102	70-130	5	20	
Dichlorodifluoromethane	25.7		ug/L	25.0		103	70-130	8	20	
Diethyl Ether	25.7		ug/L	25.0		103	70-130	6	20	
Di-isopropyl ether	25.6		ug/L	25.0		102	70-130	6	20	
Ethyl tertiary-butyl ether	25.0		ug/L	25.0		100	70-130	6	20	
Ethylbenzene	27.0		ug/L	25.0		108	70-130	5	20	
Hexachlorobutadiene	28.7		ug/L	25.0		115	70-130	10	20	
Isopropylbenzene	25.4		ug/L	25.0		102	70-130	7	20	
Methyl tert-Butyl Ether	25.6		ug/L	25.0		102	70-130	6	20	
Methylene Chloride	26.3		ug/L	25.0		105	70-130	5	20	
Naphthalene	27.6		ug/L	25.0		110	70-130	6	20	
n-Butylbenzene	26.7		ug/L	25.0		107	70-130	9	20	
n-Propylbenzene	26.9		ug/L	25.0		108	70-130	7	20	
sec-Butylbenzene	27.1		ug/L	25.0		108	70-130	7	20	
Styrene	26.9		ug/L	25.0		108	70-130	5	20	
tert-Butylbenzene	27.2		ug/L	25.0		109	70-130	7	20	
Tertiary-amyl methyl ether	26.5		ug/L	25.0		106	70-130	6	20	
Tetrachloroethene	25.2		ug/L	25.0		101	70-130	7	20	
Tetrahydrofuran	22.6		ug/L	25.0		90	70-130	2	20	
Toluene	26.5		ug/L	25.0		106	70-130	6	20	
trans-1,2-Dichloroethene	27.0		ug/L	25.0		108	70-130	6	20	
trans-1,3-Dichloropropene	21.9		ug/L	25.0		88	70-130	5	20	
Trichloroethene	25.7		ug/L	25.0		103	70-130	7	20	
Trichlorofluoromethane	24.2		ug/L	25.0		97	70-130	7	20	
Vinyl Acetate	22.7		ug/L	25.0		91	70-130	6	20	
Vinyl Chloride	25.9		ug/L	25.0		104	70-130	6	20	
Xylene O	27.3		ug/L	25.0		109	70-130	7	20	
Xylene P,M	53.2		ug/L	50.0		106	70-130	4	20	
Surrogate: 1,2-Dichloroethane-d4	*2380*		ug/Kg wet	*2500*		*95*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2500*		ug/Kg wet	*2500*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*2530*		ug/Kg wet	*2500*		*101*	*70-130*			
Surrogate: Toluene-d8	*2630*		ug/Kg wet	*2500*		*105*	*70-130*			
8081A Organochlorine Pesticides										
Batch BF62729 - 3541										

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch BF62729 - 3541										
Blank										
4,4'-DDD	ND	5.00	ug/Kg wet							
4,4'-DDE	ND	5.00	ug/Kg wet							
4,4'-DDT	ND	5.00	ug/Kg wet							
Aldrin	ND	5.00	ug/Kg wet							
alpha-BHC	ND	5.00	ug/Kg wet							
alpha-Chlordane	ND	5.00	ug/Kg wet							
beta-BHC	ND	5.00	ug/Kg wet							
Chlordane (Total)	ND	50.0	ug/Kg wet							
delta-BHC	ND	5.00	ug/Kg wet							
Dieldrin	ND	5.00	ug/Kg wet							
Endosulfan I	ND	5.00	ug/Kg wet							
Endosulfan II	ND	5.00	ug/Kg wet							
Endosulfan Sulfate	ND	5.00	ug/Kg wet							
Endrin	ND	5.00	ug/Kg wet							
Endrin Aldehyde	ND	5.00	ug/Kg wet							
Endrin Ketone	ND	5.00	ug/Kg wet							
gamma-BHC (Lindane)	ND	5.00	ug/Kg wet							
gamma-Chlordane	ND	5.00	ug/Kg wet							
Heptachlor	ND	5.00	ug/Kg wet							
Heptachlor Epoxide	ND	5.00	ug/Kg wet							
Hexachlorobenzene	ND	5.00	ug/Kg wet							
Methoxychlor	ND	5.00	ug/Kg wet							
Toxaphene	ND	250	ug/Kg wet							
Surrogate: Decachlorobiphenyl	*31.8*		ug/Kg wet	*25.0*		*127*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*28.0*		ug/Kg wet	*25.0*		*112*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*21.4*		ug/Kg wet	*25.0*		*86*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*20.8*		ug/Kg wet	*25.0*		*83*	*30-150*			
LCS										
4,4'-DDD	29.5	5.00	ug/Kg wet	25.0		118	40-140			
4,4'-DDE	29.1	5.00	ug/Kg wet	25.0		116	40-140			
4,4'-DDT	35.8	5.00	ug/Kg wet	25.0		143	40-140			
Aldrin	25.2	5.00	ug/Kg wet	25.0		101	40-140			
alpha-BHC	24.2	5.00	ug/Kg wet	25.0		97	40-140			
alpha-Chlordane	28.3	5.00	ug/Kg wet	25.0		113	40-140			
beta-BHC	27.4	5.00	ug/Kg wet	25.0		110	40-140			
delta-BHC	15.0	5.00	ug/Kg wet	25.0		60	40-140			
Dieldrin	30.7	5.00	ug/Kg wet	25.0		123	40-140			
Endosulfan I	28.6	5.00	ug/Kg wet	25.0		114	40-140			
Endosulfan II	27.6	5.00	ug/Kg wet	25.0		110	40-140			
Endosulfan Sulfate	23.5	5.00	ug/Kg wet	25.0		94	40-140			
Endrin	32.3	5.00	ug/Kg wet	25.0		129	40-140			
Endrin Aldehyde	23.7	5.00	ug/Kg wet	25.0		95	40-140			
Endrin Ketone	25.8	5.00	ug/Kg wet	25.0		103	40-140			
gamma-BHC (Lindane)	24.4	5.00	ug/Kg wet	25.0		98	40-140			
gamma-Chlordane	30.2	5.00	ug/Kg wet	25.0		121	40-140			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch BF62729 - 3541										
Heptachlor	25.5	5.00	ug/Kg wet	25.0		102	40-140			
Heptachlor Epoxide	30.7	5.00	ug/Kg wet	25.0		123	40-140			
Hexachlorobenzene	15.8	5.00	ug/Kg wet	25.0		63	40-140			
Methoxychlor	30.0	5.00	ug/Kg wet	25.0		120	40-140			
Surrogate: Decachlorobiphenyl	*34.0*		ug/Kg wet	*25.0*		*136*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*28.8*		ug/Kg wet	*25.0*		*115*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*23.1*		ug/Kg wet	*25.0*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*21.8*		ug/Kg wet	*25.0*		*87*	*30-150*			
LCS Dup										
4,4´-DDD	26.2	5.00	ug/Kg wet	25.0		105	40-140	12	30	
4,4´-DDE	29.7	5.00	ug/Kg wet	25.0		119	40-140	2	30	
4,4´-DDT	30.4	5.00	ug/Kg wet	25.0		122	40-140	16	30	
Aldrin	25.6	5.00	ug/Kg wet	25.0		102	40-140	2	30	
alpha-BHC	22.5	5.00	ug/Kg wet	25.0		90	40-140	7	30	
alpha-Chlordane	29.6	5.00	ug/Kg wet	25.0		118	40-140	4	30	
beta-BHC	27.2	5.00	ug/Kg wet	25.0		109	40-140	0.7	30	
delta-BHC	14.8	5.00	ug/Kg wet	25.0		59	40-140	1	30	
Dieldrin	28.7	5.00	ug/Kg wet	25.0		115	40-140	7	30	
Endosulfan I	28.4	5.00	ug/Kg wet	25.0		114	40-140	0.7	30	
Endosulfan II	27.5	5.00	ug/Kg wet	25.0		110	40-140	0.4	30	
Endosulfan Sulfate	23.9	5.00	ug/Kg wet	25.0		96	40-140	2	30	
Endrin	29.2	5.00	ug/Kg wet	25.0		117	40-140	10	30	
Endrin Aldehyde	24.4	5.00	ug/Kg wet	25.0		98	40-140	3	30	
Endrin Ketone	25.9	5.00	ug/Kg wet	25.0		104	40-140	0.4	30	
gamma-BHC (Lindane)	24.8	5.00	ug/Kg wet	25.0		99	40-140	2	30	
gamma-Chlordane	32.1	5.00	ug/Kg wet	25.0		128	40-140	6	30	
Heptachlor	25.6	5.00	ug/Kg wet	25.0		102	40-140	0.4	30	
Heptachlor Epoxide	29.5	5.00	ug/Kg wet	25.0		118	40-140	4	30	
Hexachlorobenzene	11.2	5.00	ug/Kg wet	25.0		45	40-140	34	30	+
Methoxychlor	27.1	5.00	ug/Kg wet	25.0		108	40-140	10	30	
Surrogate: Decachlorobiphenyl	*30.3*		ug/Kg wet	*25.0*		*121*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*27.6*		ug/Kg wet	*25.0*		*110*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*23.4*		ug/Kg wet	*25.0*		*94*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*20.4*		ug/Kg wet	*25.0*		*82*	*30-150*			
8082 Polychlorinated Biphenyls (PCB)										
Batch BF62701 - 3541										
Blank										
Aroclor 1016	ND	33.3	ug/Kg wet							
Aroclor 1221	ND	33.3	ug/Kg wet							
Aroclor 1232	ND	33.3	ug/Kg wet							
Aroclor 1242	ND	33.3	ug/Kg wet							
Aroclor 1248	ND	33.3	ug/Kg wet							
Aroclor 1254	ND	33.3	ug/Kg wet							
Aroclor 1260	ND	33.3	ug/Kg wet							

Pesticides
Calibration Data

ANALYSIS SEQUENCE

BPG0249

Instrument: SVOAGC3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0249-PEM1	QC		1		6E02036		
BPG0249-CAL1	QC		2		6F21086		
BPG0249-CAL2	QC		3		6F21087		
BPG0249-CAL3	QC		4		6F21088		
BPG0249-CAL4	QC		5		6F21089		
BPG0249-CAL5	QC		6		6F21090		
BPG0249-CAL7	QC		7		6F21092		
BPG0249-SCV1	QC		8		6F21094		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/21/06	6E062006-1	1	Prime	8081SG		SOP
	2	2	Pem		high baseline.	
	3	3	Pest 5ppb			
	6E0621bA-1	1	Prime	8081EH		
	2	2	Pem ✓		6E02036 03:32 PM	
	3	3	Pest 5ppb ✓		6F21086 CAL 1	
	4	4	10ppb ✓		087 2	
	5	5	20ppb ✓		088 3	
	6	6	50ppb ✓		089 4	
	7	7	60ppb ✓		090 5	
	8	8	80ppb		091 Thrown out 6	
	9	9	100ppb ✓		092 7	
	10	10	SS		093	
	11	11	Pest SS ✓		6F21 094 SCV 1	
	12	12	BFG1910-BLK1 ✓			
	13	13	BS1 ✓			
	14	14	BSD1 ✓			
	15	15	0606253-01 ✓			
	16	16	01MS ✓			
	17	17	02 ~~01MSD~~ SOP ✓			
	18	18	03 ✓			
	19	19	04 ✓			
	20	20	05 ✓			
	21	21	06 ✓			
	22	22	Hexane			
6/21/06	6E0621bA 23	23	Pest 20ppb ✓	8081EH	6F21085 01:21 AM	SOP

CONTROL NUMBER 60.0012-0602A

PAGE________

01

ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/21/06	23	GE062168-23	Pest 20 ppb	8081 EH	6F21085	SB
↓	24	↓ 24	Chlor 250 ppb ✓	↓	6F21095	↓
6/21/06	25	↓ 25	Tox 2500 ppb ✓	8081 EH	6F21096	SB
6/21/06	26	GE062168-26	Pest MS 6F21098 ✓	8081 EH		SB
6/22/06	1	GE062206-1	Prime	8081 EH		SB
	2	2	Perm ✓			
	3	3	Pest 50 cc ✓			
	3	3	Pest 50 cc			
	4	4	BF61422-BLK1			
	5	5	BS1			
	6	6	↓ BSD1			
	7	7	0606200-01			
	8	8	02			
	9	9	02MS			
	10	10	02MSD			
	11	11	03			
	12	12	03MS			
	13	13	03MSD			
	14	14	04			
	15	15	05			
	16	16	06			
	17	17	07			
	18	18	07MS			
	19	19	07MSD			
	20	↓ 20	↓ 08			↓
6/22/06	21	GE062206-22	0606200-09	↓ 8081 EH		SB

CONTROL NUMBER 60.0012-0602A

PAGE_____

01

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06216A\002F0101.D Vial: 2
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06216A\002F0101.D\002R0101.D
Acq On : 21 Jun 06 03:32 PM Operator: [GC]2R0101.D\DATA.MS
Sample : PEM Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 22 7:28 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.65	8.77	2882628	1075954	47.270	49.039
					Recovery	=	94.54%	98.08%
23)	S	Decachlorobiphenyl	18.14	20.79	1742144	864520	38.565m	36.560
					Recovery	=	77.13%	73.12%
		Target Compounds						
2)	M	Hexachlorobenzene	0.00	0.00	0	0	N.D.d	N.D.d
3)	M	alpha-BHC	0.00	0.00	0	0	N.D.d	N.D.d
4)	M	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.d	N.D.d
5)	M	beta-BHC	0.00	0.00	0	0	N.D.d	N.D.d
6)	M	delta-BHC	0.00	0.00	0	0	N.D.d	N.D.d
7)	M	Heptachlor	0.00	0.00	0	0	N.D.d	N.D.d
8)	M	Aldrin	0.00	0.00	0	0	N.D.d	N.D.d
9)	M	Heptachlor Epoxide	0.00	0.00	0	0	N.D.d	N.D.d
10)	M	gamma-Chlordane	0.00	0.00	0	0	N.D.d	N.D.d
11)	M	alpha-Chlordane	0.00	0.00	0	0	N.D.d	N.D.d
12)	M	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	M	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
14)	M	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15)	M	Endrin	14.06	15.37	4811339	1683303	117.714m	108.165m
16)	M	4,4'-DDD	14.17	15.49	114493	46650	3.305m	5.002m#
17)	M	Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18)	M	4,4'-DDT	14.61	16.00	4127673	1612906	106.239	113.549
19)	M	Endrin Aldehyde	15.16	0.00	10512	0	1.231m	N.D.d#
20)	M	Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
21)	M	Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22)	M	Endrin Ketone	16.36	17.85	15292	7242	1.562m	2.756m#

$\Sigma \frac{25804}{4837143} = 0.533\%$ DDT $\frac{114493}{4242166} = 2.69\%$

$\Sigma \frac{7242}{1690545} = 0.43\%$ DDT $\frac{4665?}{1659586} = 2.8\%$

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
002F0101.D 8081EH.M Thu Jun 22 07:28:22 2006 Page 1

Response Factor Report GC3

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Initial Calibration

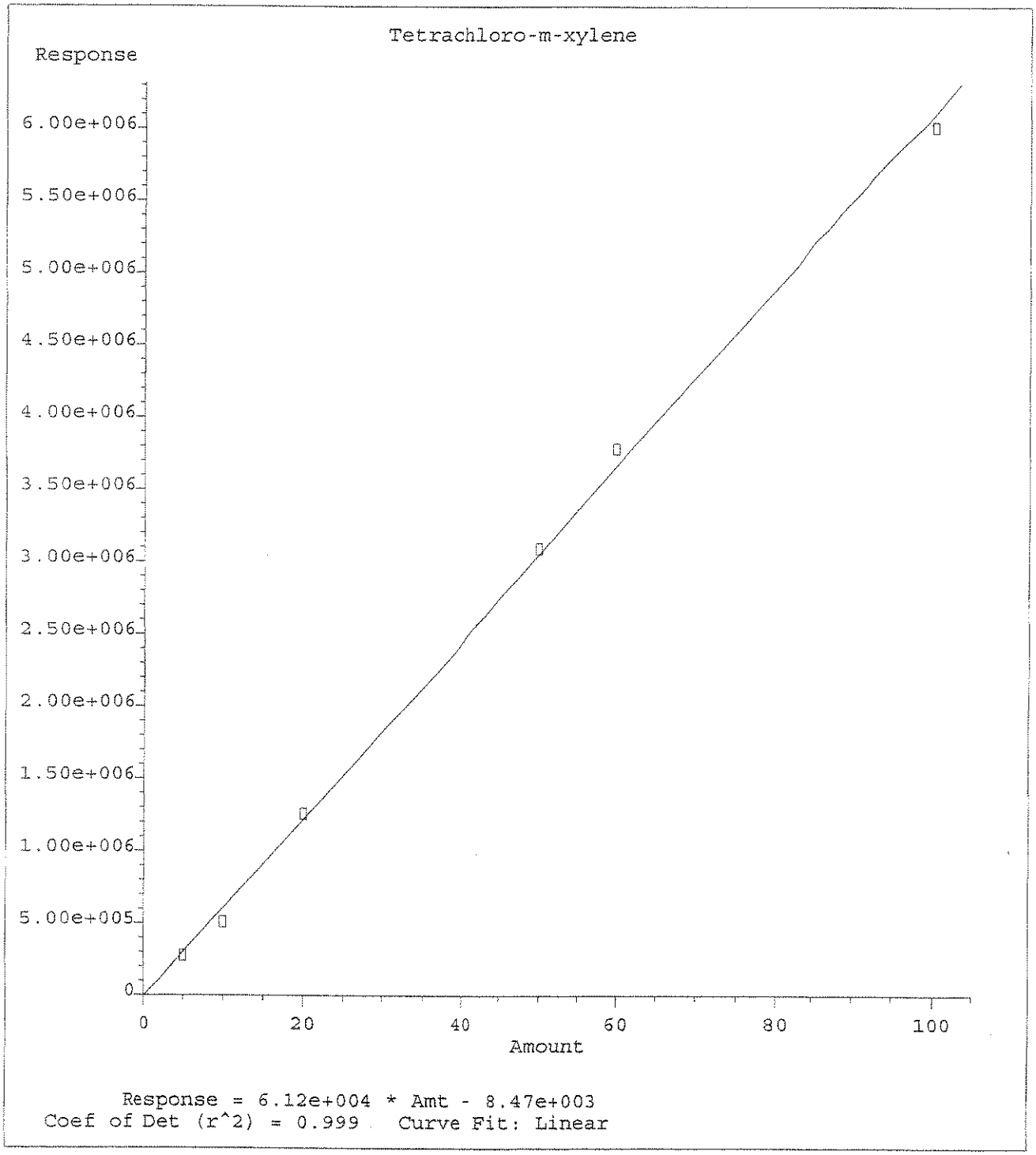
Calibration Files
10 =004F0101.D 20 =005F0101.D 5 =003F0101.D
60 =007F0101.D = 100 =009F0101.D

		Compound	10	20	5	60		100	Avg		%RSD
1)	S	Tetrachloro-m-xylen	51.0	62.9	55.4	63.0	60.2	61.8	59.0	E3	8.21
2)	M	Hexachlorobenzene	93.2	105.8	95.6	102.3	91.7	99.0	97.9	E3	5.58
3)	M	alpha-BHC	57.2	68.9	58.7	77.2	73.4	74.2	68.3	E3	12.36
4)	M	gamma-BHC (Lindane)	54.7	64.8	60.0	72.5	67.8	68.5	64.7	E3	9.96
5)	M	beta-BHC	28.9	35.3	31.1	36.9	34.4	36.0	33.8	E3	9.14
6)	M	delta-BHC	49.9	61.8	53.4	71.6	67.4	68.4	62.1	E3	14.11
7)	M	Heptachlor	50.1	59.9	52.1	65.8	61.5	62.6	58.7	E3	10.59
8)	M	Aldrin	53.1	60.6	53.4	63.7	59.6	61.9	58.7	E3	7.61
9)	M	Heptachlor Epoxide	49.6	56.1	51.8	59.0	55.1	59.2	55.1	E3	7.02
10)	M	gamma-Chlordane	46.3	59.8	50.0	59.9	56.4	59.5	55.3	E3	10.50
11)	M	alpha-Chlordane	49.3	57.8	52.1	56.5	53.1	55.7	54.1	E3	5.88
12)	M	4,4'-DDE	46.9	55.0	56.5	56.5	53.3	55.0	53.9	E3	6.74
13)	M	Endosulfan I	46.9	55.2	54.6	57.6	56.4	55.8	54.4	E3	7.03
14)	M	Dieldrin	45.5	51.9	48.0	54.9	52.0	53.3	50.9	E3	6.88
15)	M	Endrin	34.6	39.6	36.1	42.8	40.0	41.3	39.1	E3	8.04
16)	M	4,4'-DDD	38.0	44.3	34.8	47.8	45.1	45.8	42.6	E3	11.86
17)	M	Endosulfan II	36.2	43.2	41.9	47.7	44.6	45.7	43.2	E3	9.20
18)	M	4,4'-DDT	27.7	34.4	31.1	40.4	38.0	39.2	35.1	E3	14.16
19)	M	Endrin Aldehyde	30.1	34.6	30.9	37.5	36.0	36.2	34.2	E3	8.93
20)	M	Methoxychlor	14.3	17.2	18.1	22.0	20.6	20.5	18.8	E3	15.03
21)	M	Endosulfan Sulfate	41.2	39.9	30.7	43.7	41.4	42.3	39.8	E3	11.72
22)	M	Endrin Ketone	38.1	47.1	34.8	51.5	48.7	49.3	44.9	E3	15.13
23)	S	Decachlorobiphenyl	37.2	47.5	39.9	47.4	43.5	46.8	43.7	E3	9.95

Signal #2 Calibration Files
10 =004R0101.D 20 =005R0101.D 5 =003R0101.D
60 =007R0101.D = 100 =009R0101.D

		Compound	10	20	5	60		100	Avg		%RSD
1)	S	Tetrachloro-m-xylen	17.8	21.1	19.3	23.1	21.6	22.3	20.9	E3	9.56
2)	M	Hexachlorobenzene	34.9	38.5	35.4	39.7	35.9	38.8	37.2	E3	5.42
3)	M	alpha-BHC	15.6	20.8	15.7	28.3	28.2	26.3	22.5	E3	26.50
4)	M	gamma-BHC (Lindane)	16.2	20.9	16.8	26.9	26.3	25.2	22.1	E3	21.61
5)	M	beta-BHC	11.6	12.6	11.5	14.3	13.5	13.6	12.9	E3	8.86
6)	M	delta-BHC	15.0	19.6	15.9	26.3	25.8	24.4	21.2	E3	23.75
7)	M	Heptachlor	16.0	19.9	17.8	24.4	23.7	22.8	20.8	E3	16.45
8)	M	Aldrin	16.6	20.0	17.7	24.0	23.3	22.8	20.8	E3	14.94
9)	M	Heptachlor Epoxide	17.7	20.4	21.6	23.2	22.1	22.2	21.2	E3	9.24
10)	M	gamma-Chlordane	18.0	21.0	18.9	23.5	22.3	22.6	21.1	E3	10.34
11)	M	alpha-Chlordane	18.4	21.6	19.7	23.8	22.4	22.9	21.5	E3	9.52
12)	M	4,4'-DDE	16.5	19.8	17.5	23.0	21.9	21.8	20.1	E3	13.04
13)	M	Endosulfan I	15.7	18.7	15.7	21.7	20.7	20.6	18.9	E3	13.86
14)	M	Dieldrin	15.0	18.0	15.4	21.6	21.0	20.4	18.6	E3	15.40
15)	M	Endrin	10.6	12.7	12.5	15.7	15.5	14.7	13.6	E3	14.66
16)	M	4,4'-DDD	12.4	15.0	13.2	18.0	17.6	16.9	15.5	E3	15.15
17)	M	Endosulfan II	16.2	19.1	19.8	20.8	19.5	20.5	19.3	E3	8.61
18)	M	4,4'-DDT	6.8	9.5	6.6	14.0	14.2	12.6	10.6	E3	32.81
19)	M	Endrin Aldehyde	13.9	16.1	14.7	17.7	16.4	16.9	15.9	E3	8.82
20)	M	Methoxychlor	5.5	6.9	5.1	9.6	9.2	8.8	7.5	E3	25.85
21)	M	Endosulfan Sulfate	14.1	16.6	14.8	18.7	17.9	17.8	16.7	E3	10.99
22)	M	Endrin Ketone	15.1	20.0	16.7	23.5	23.3	23.5	20.3	E3	18.31
23)	S	Decachlorobiphenyl	21.7	24.7	24.2	24.7	22.7	23.9	23.6	E3	5.09

(#) = Out of Range ### Number of calibration levels exceeded format ###



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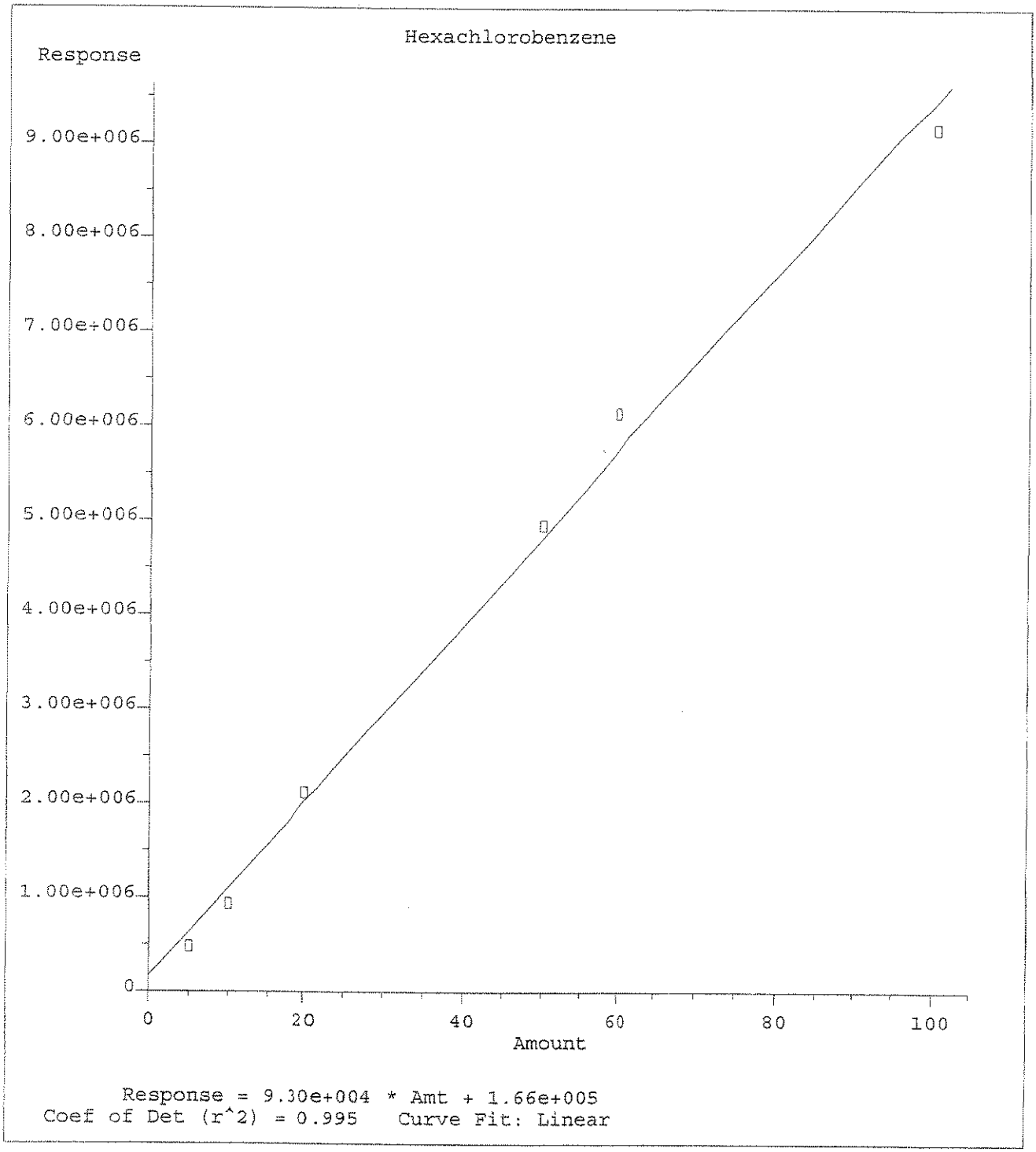
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



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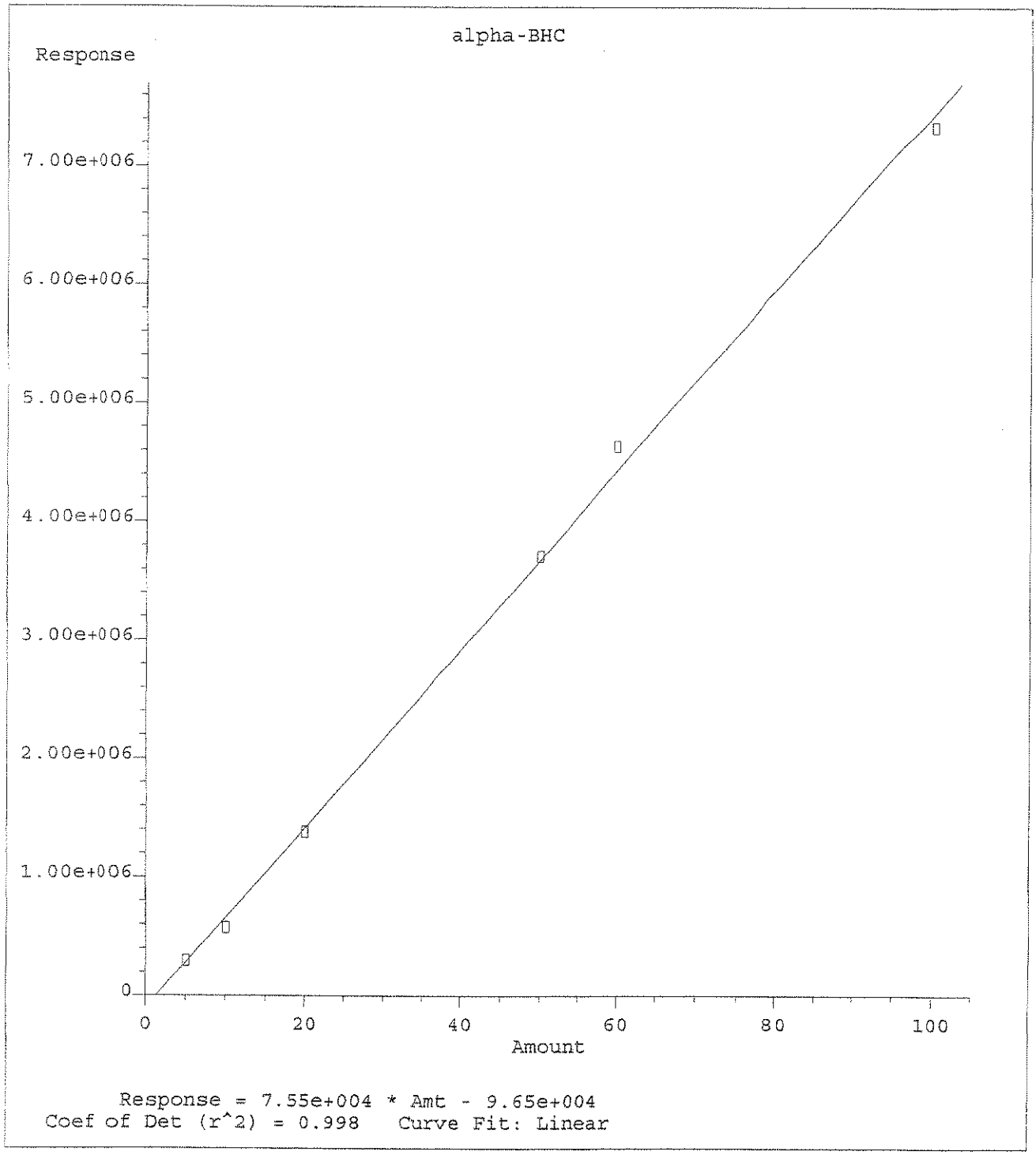
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



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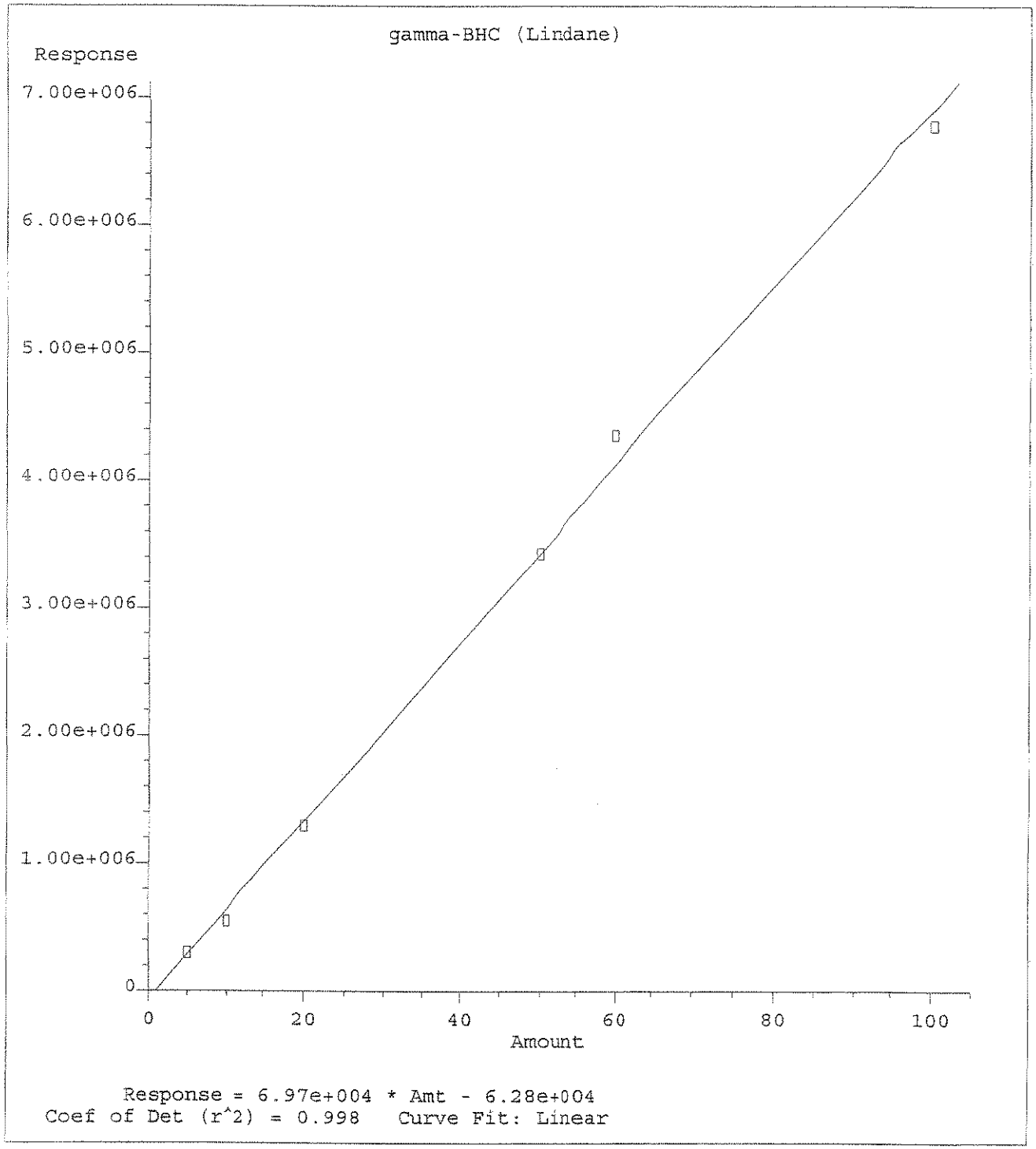

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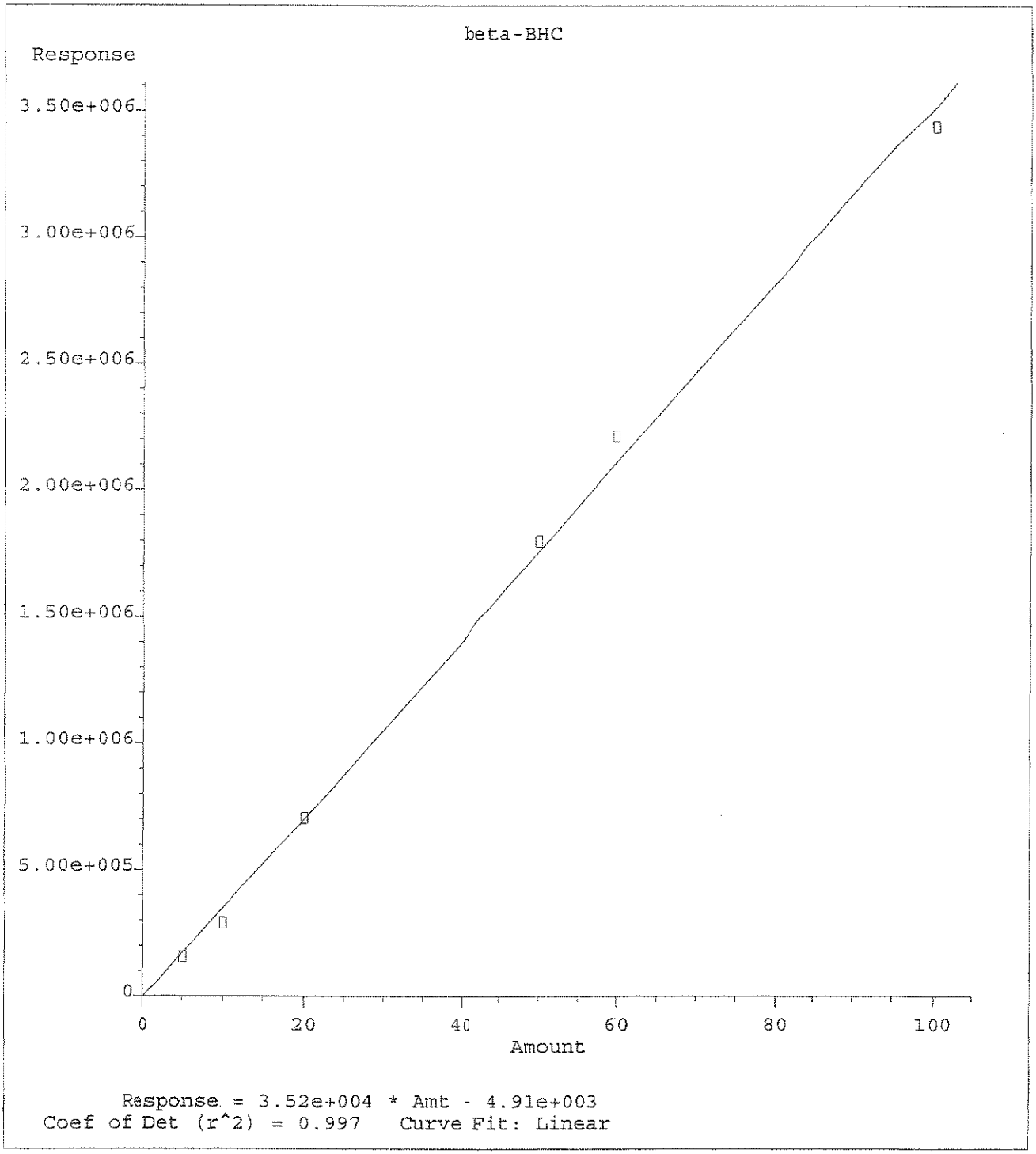

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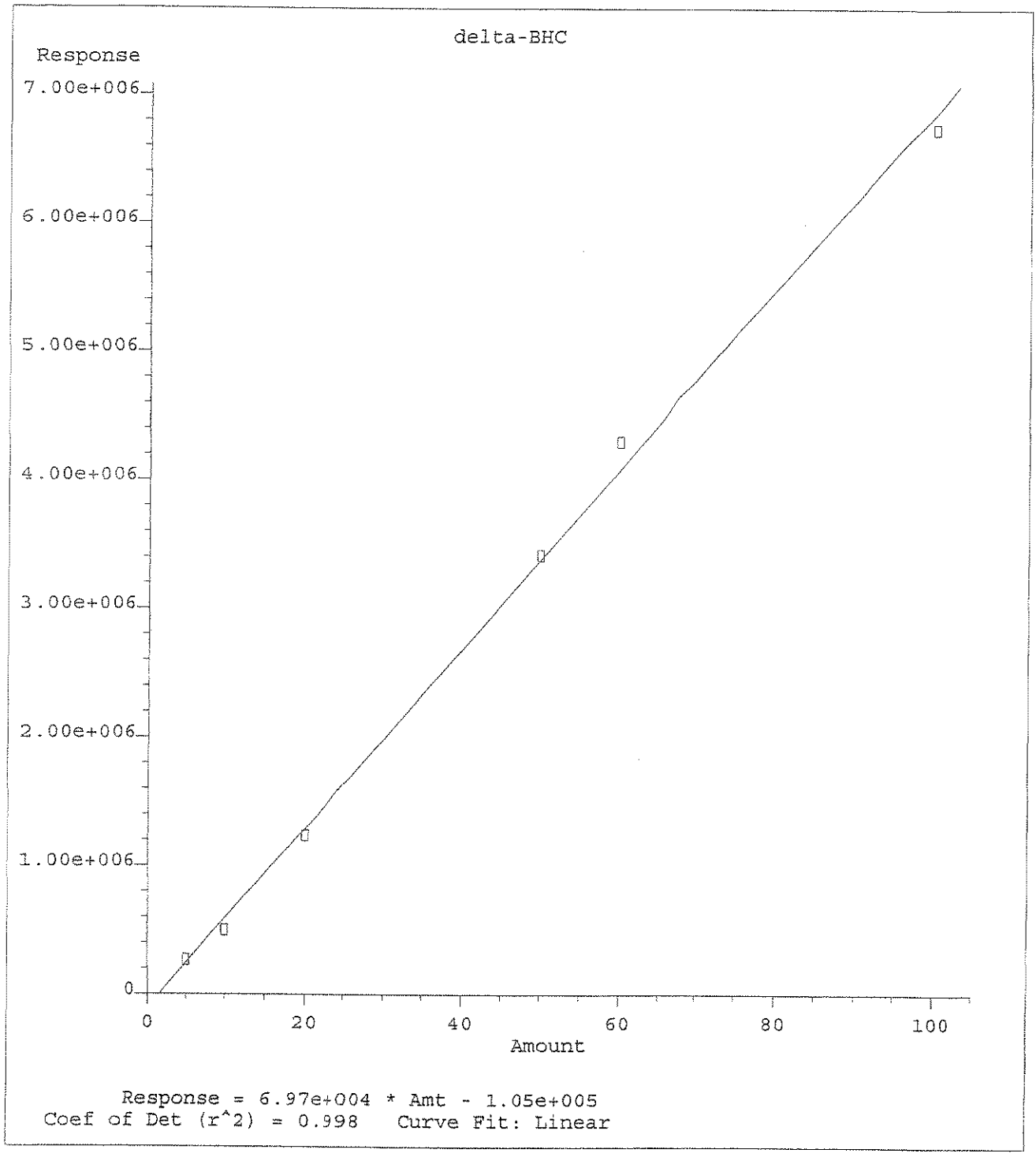

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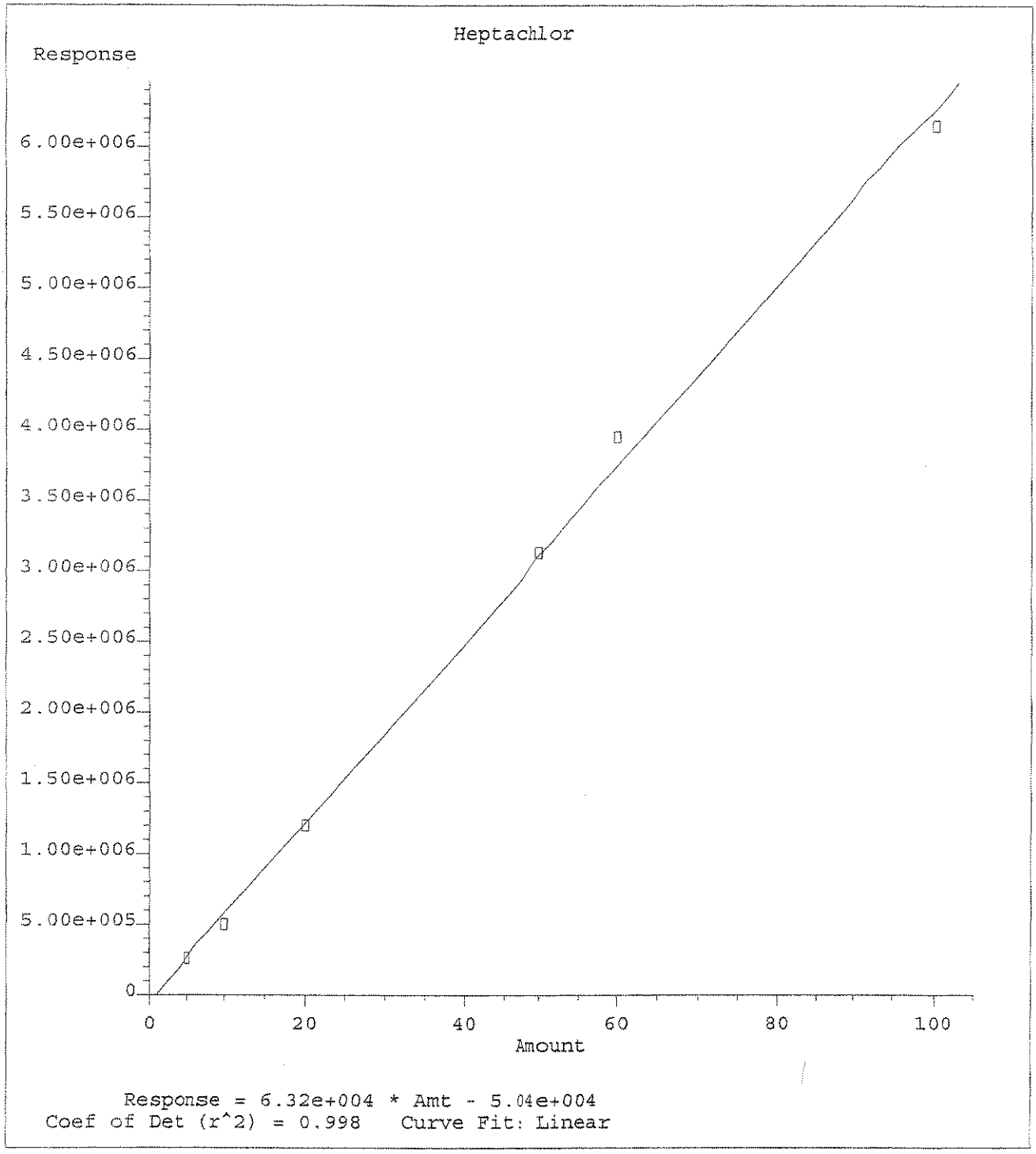

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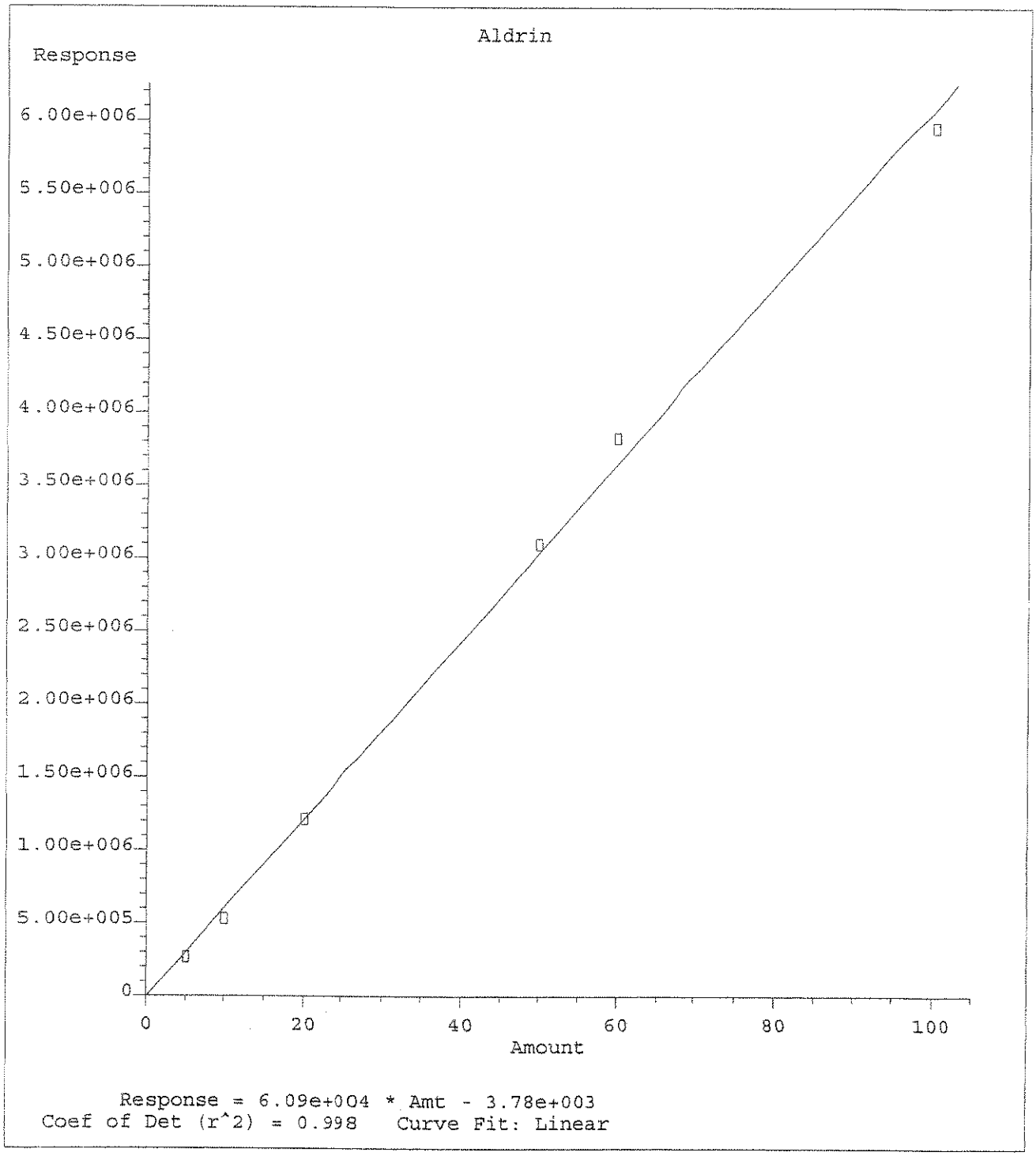

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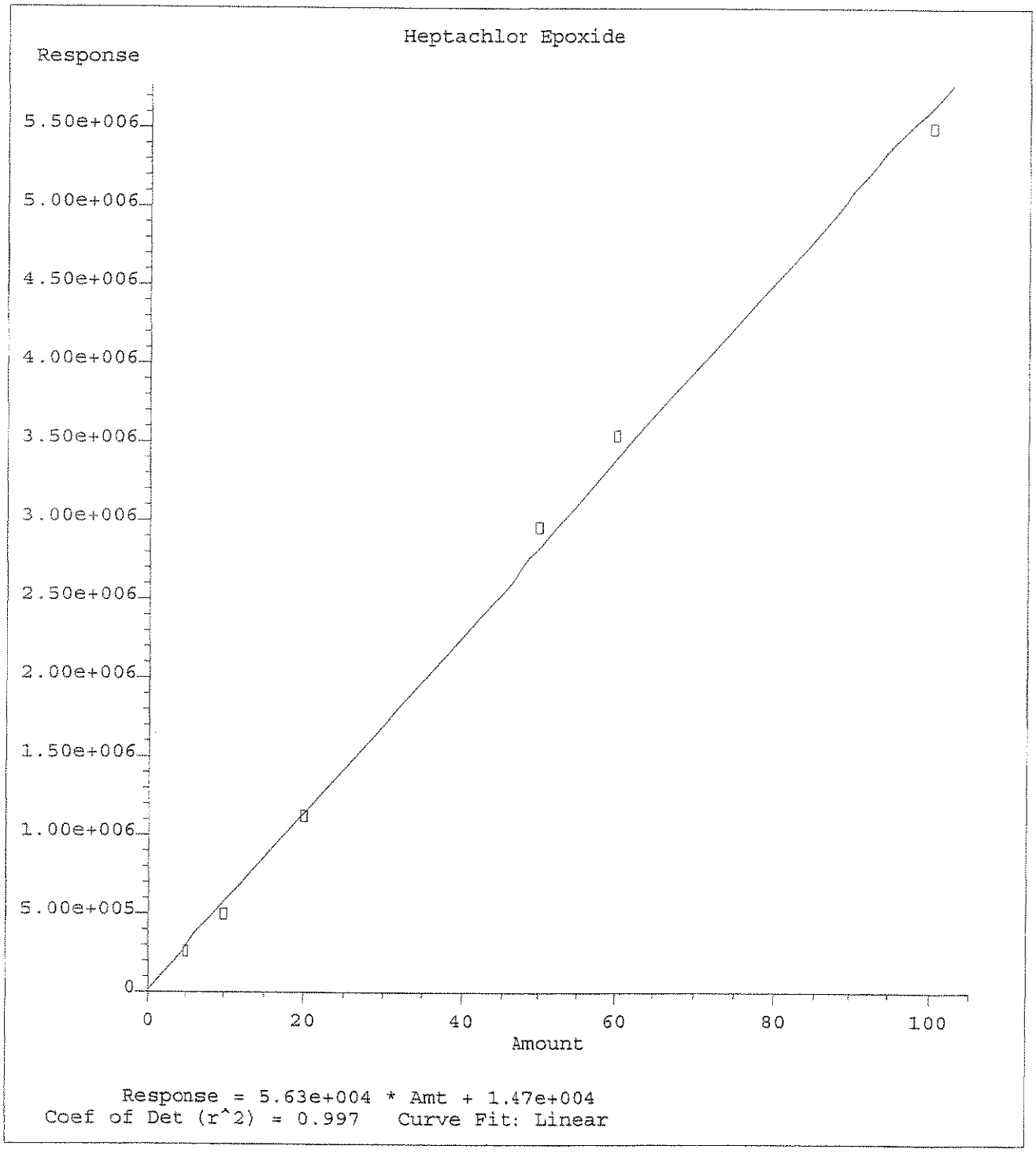

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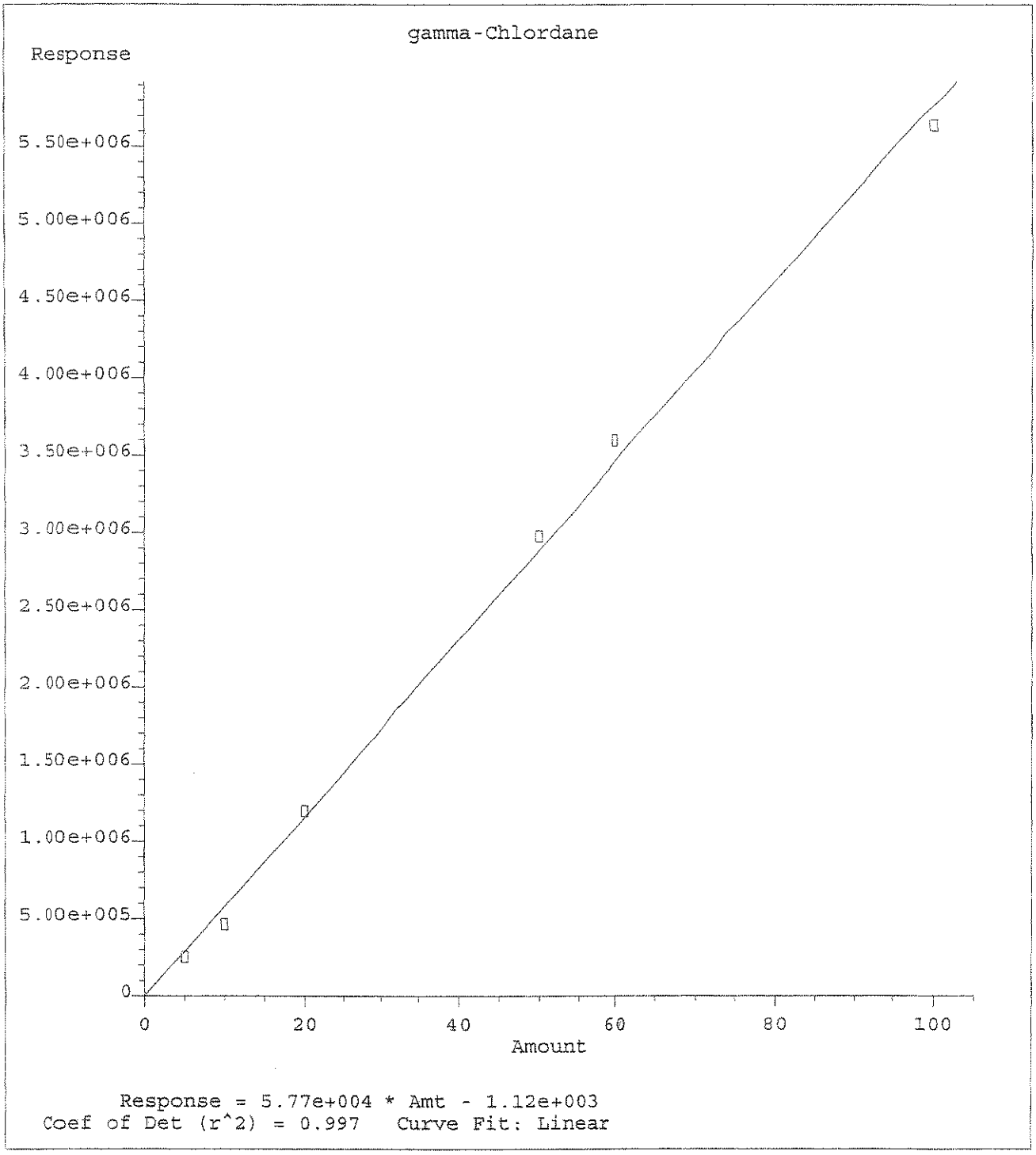

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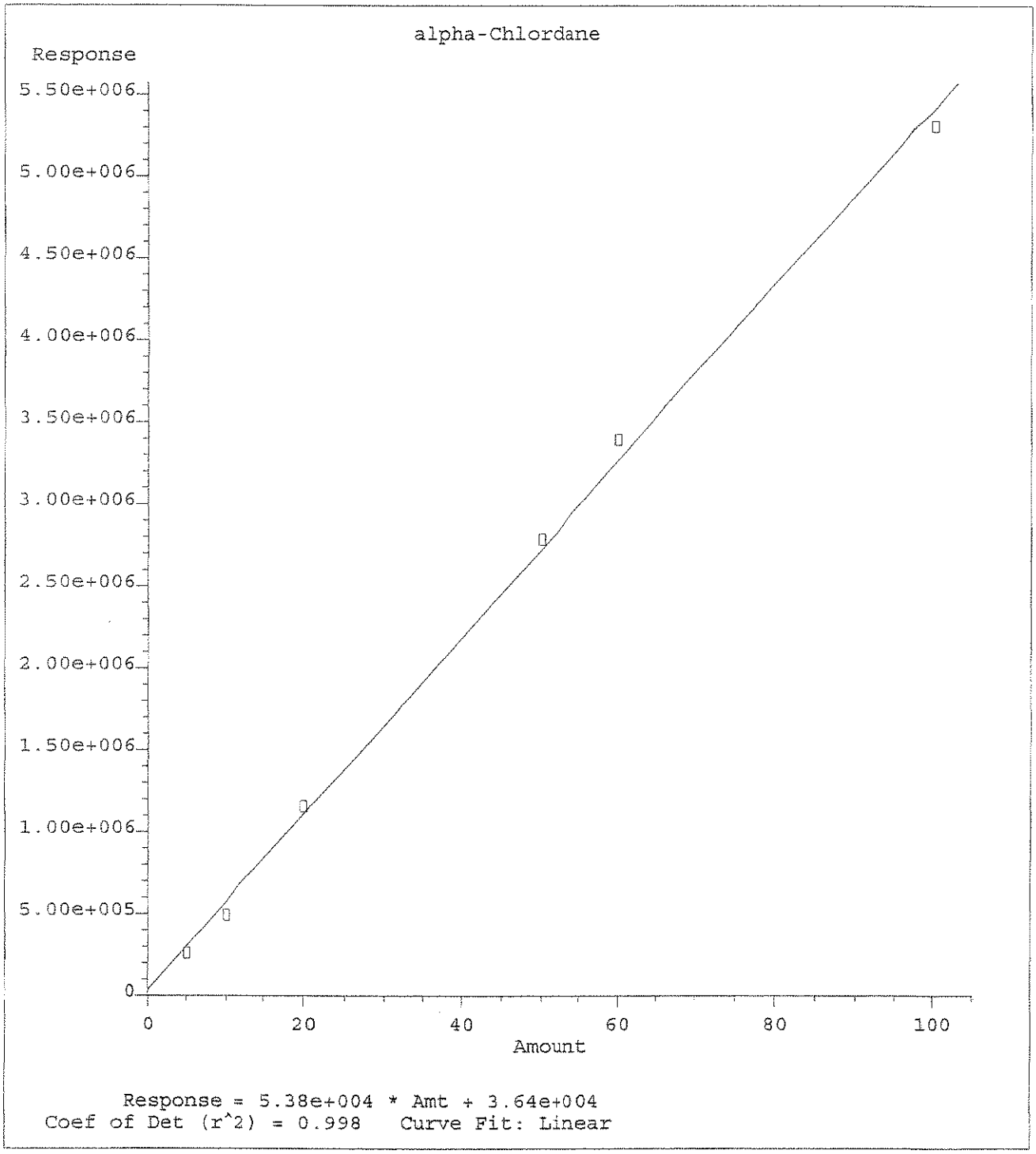

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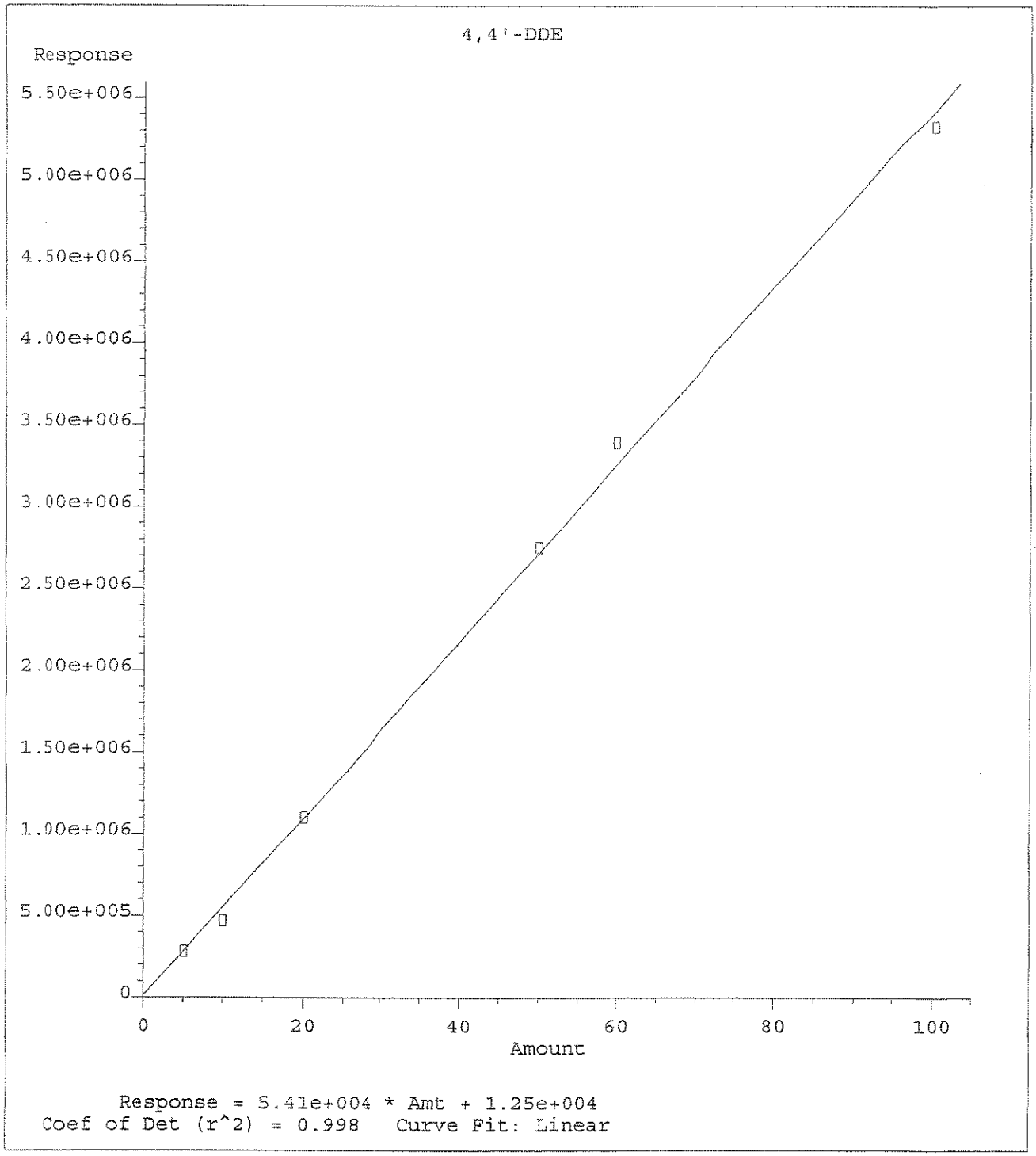

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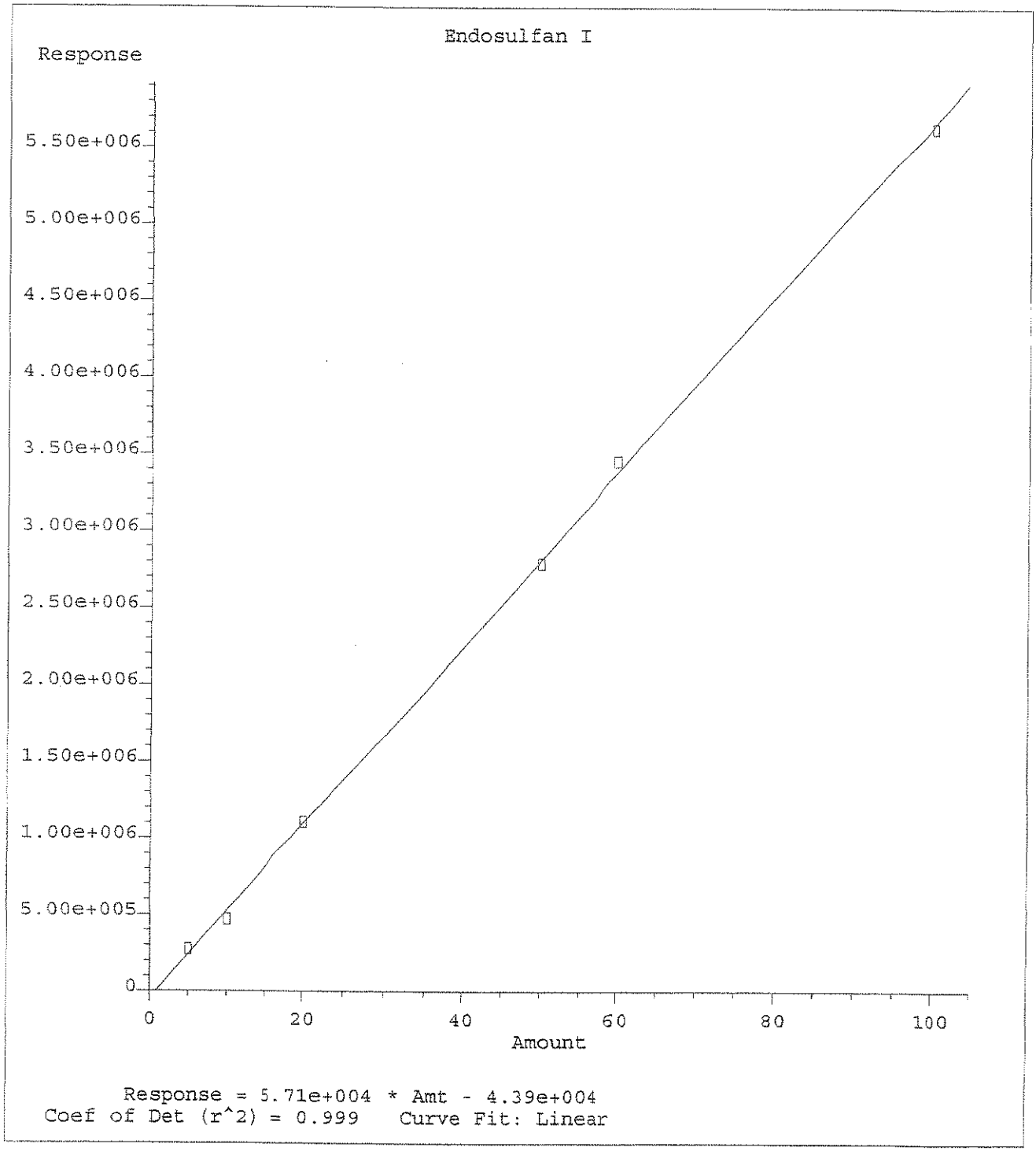

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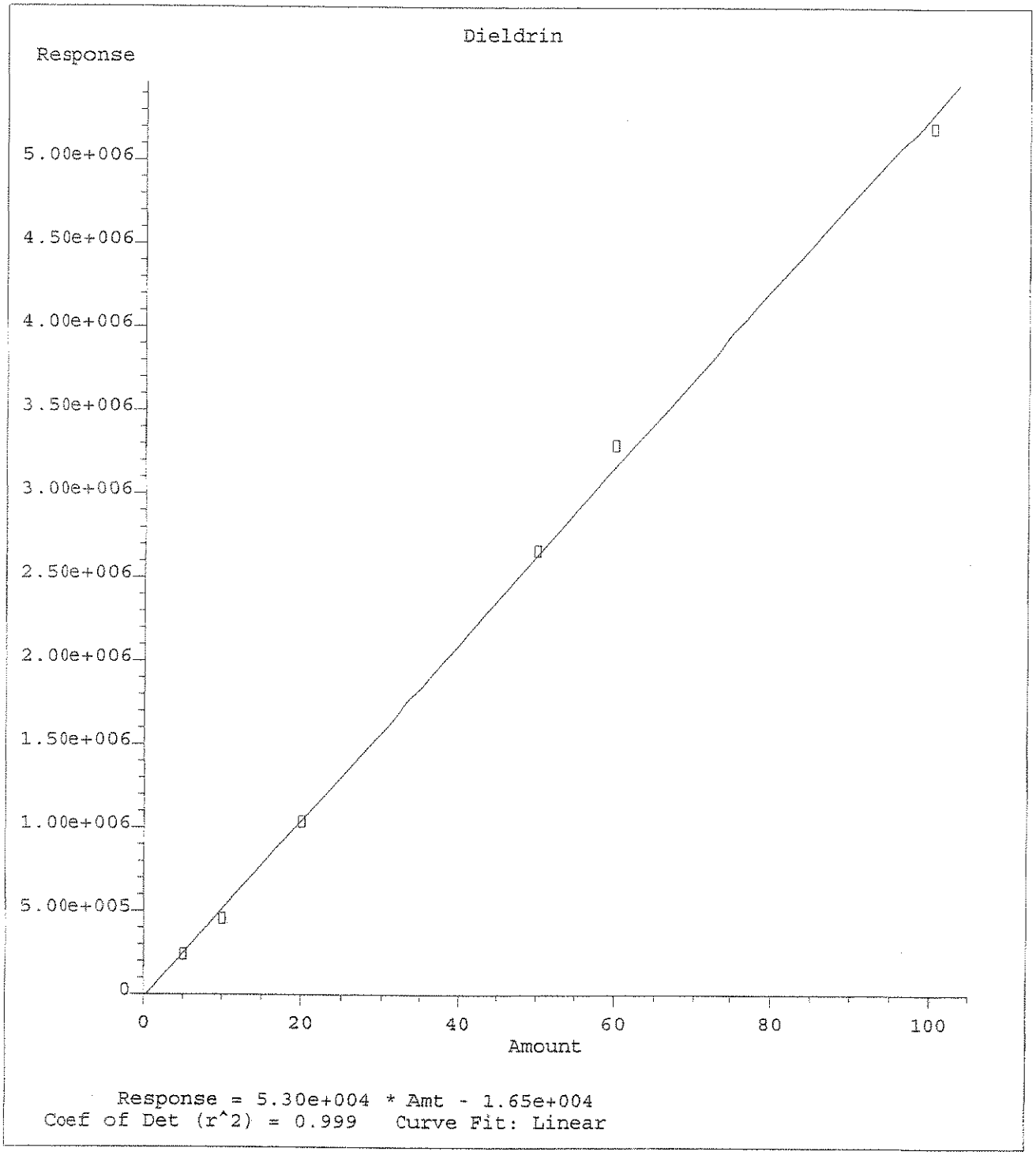

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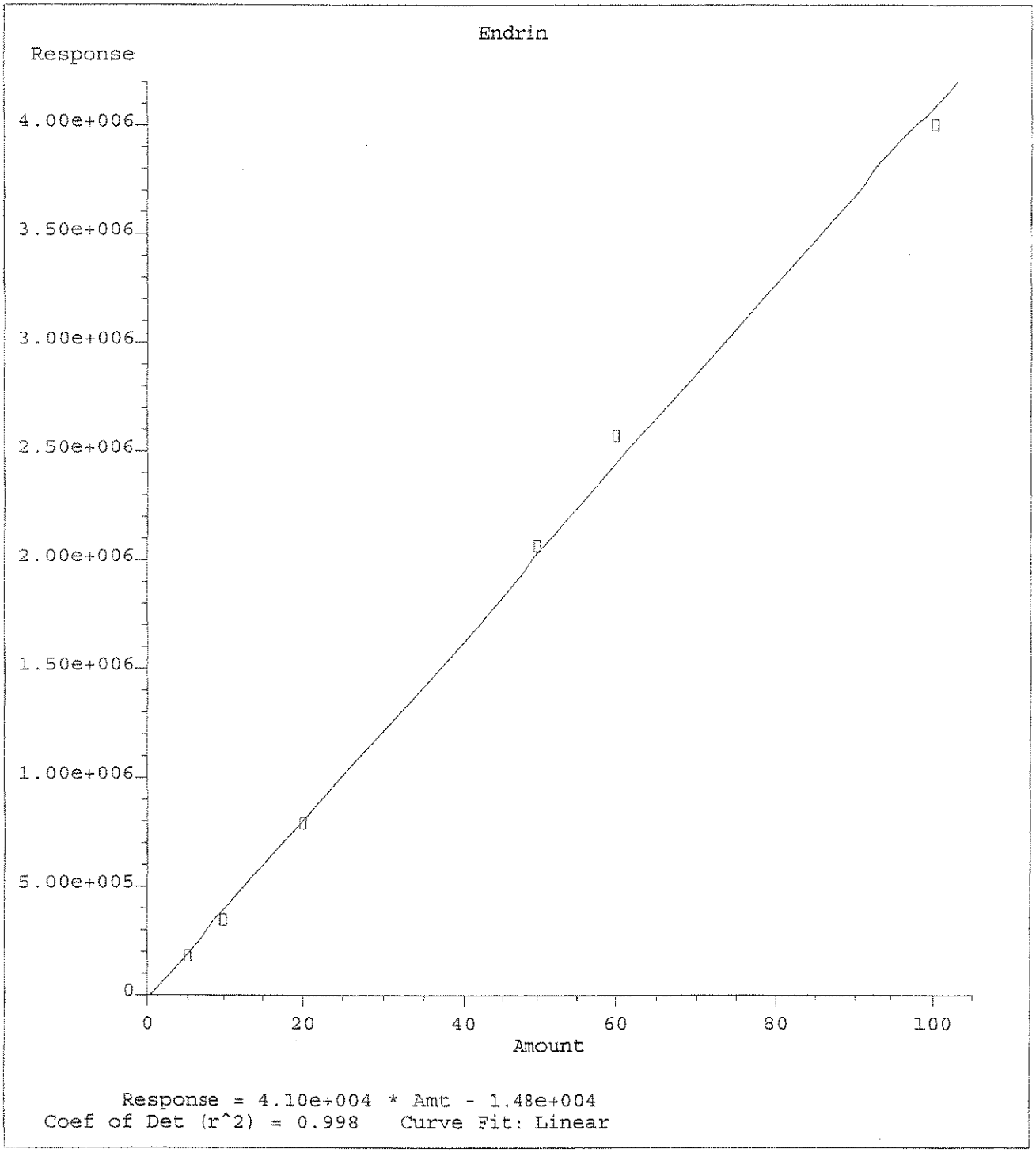

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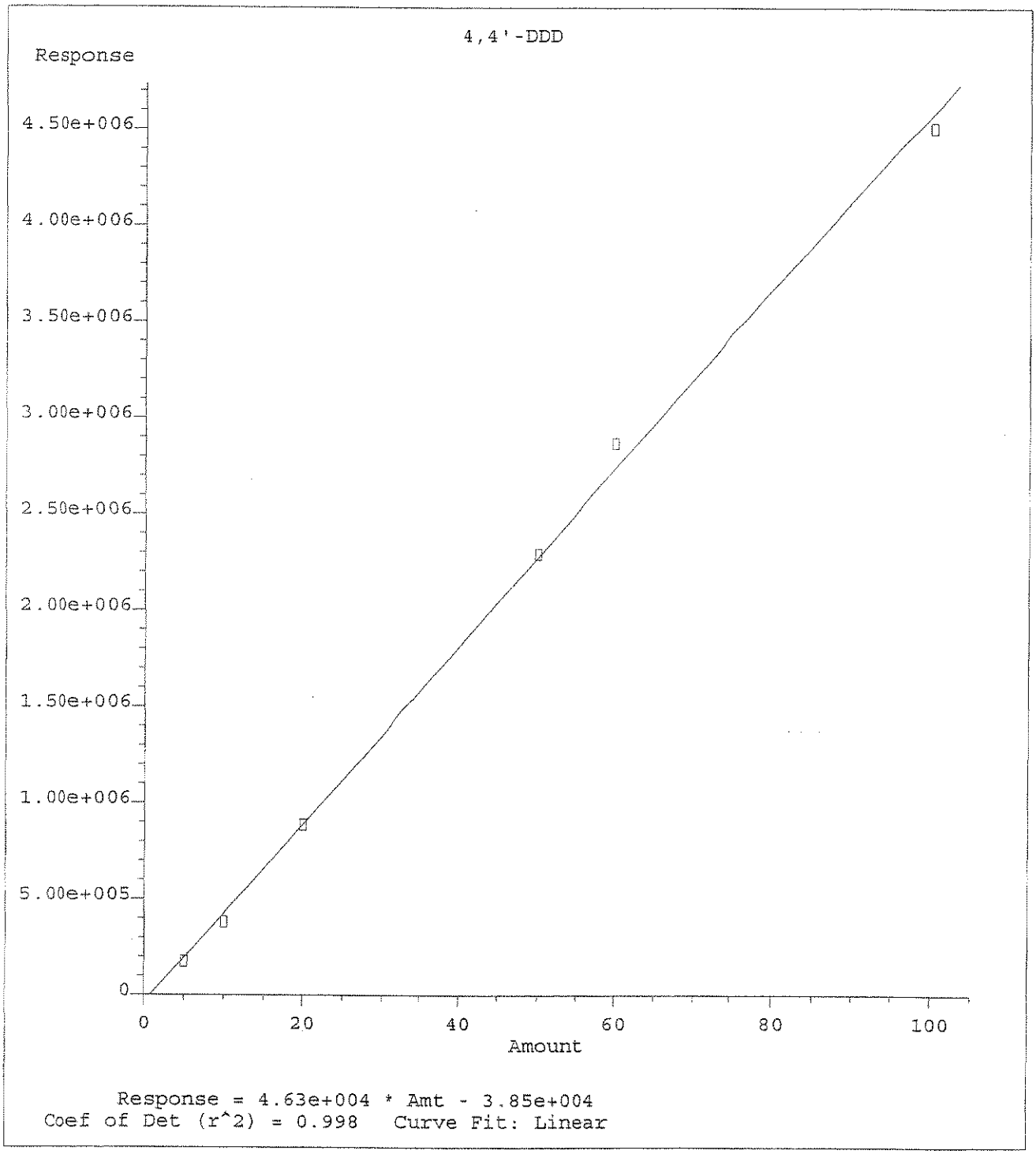

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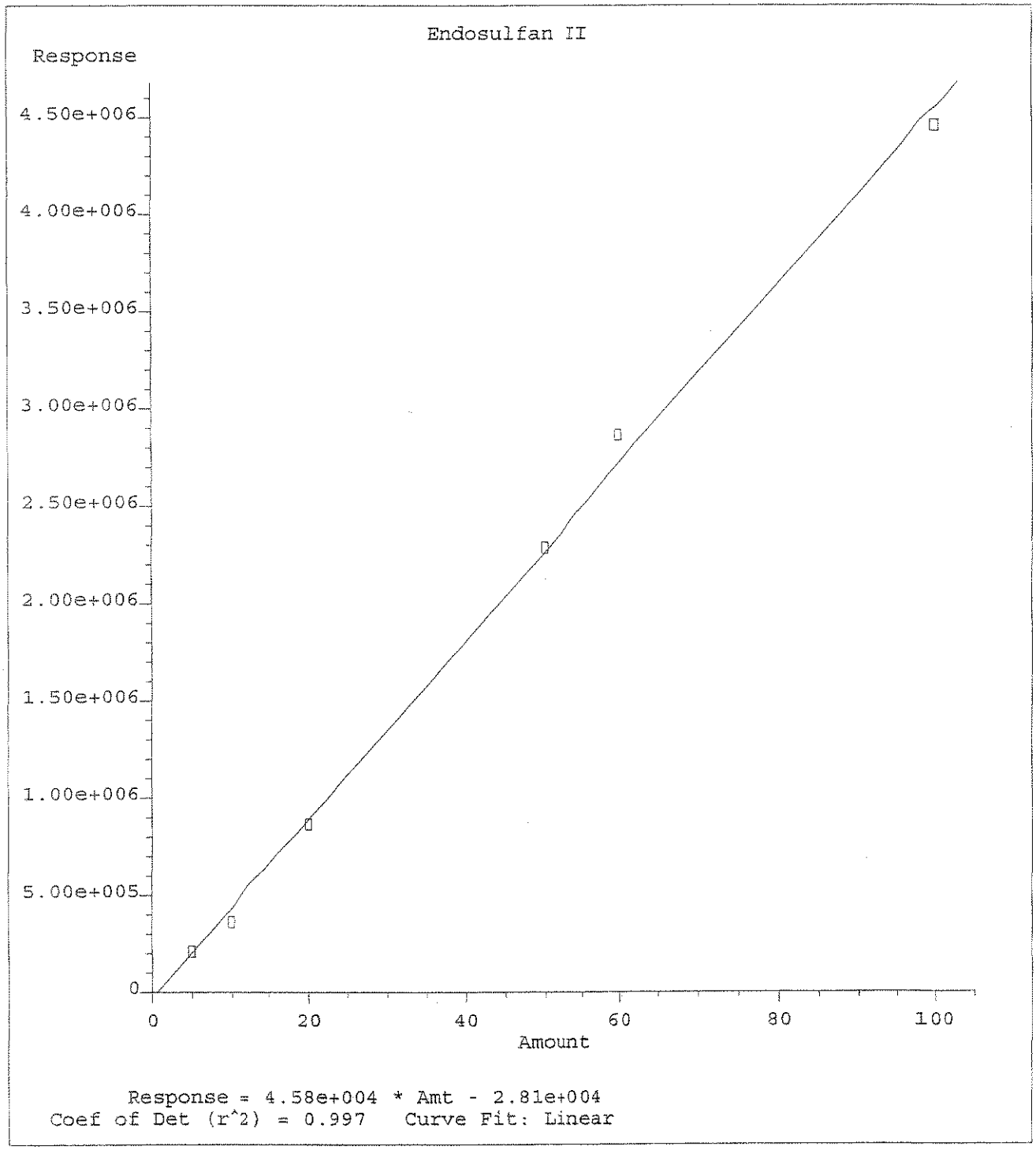

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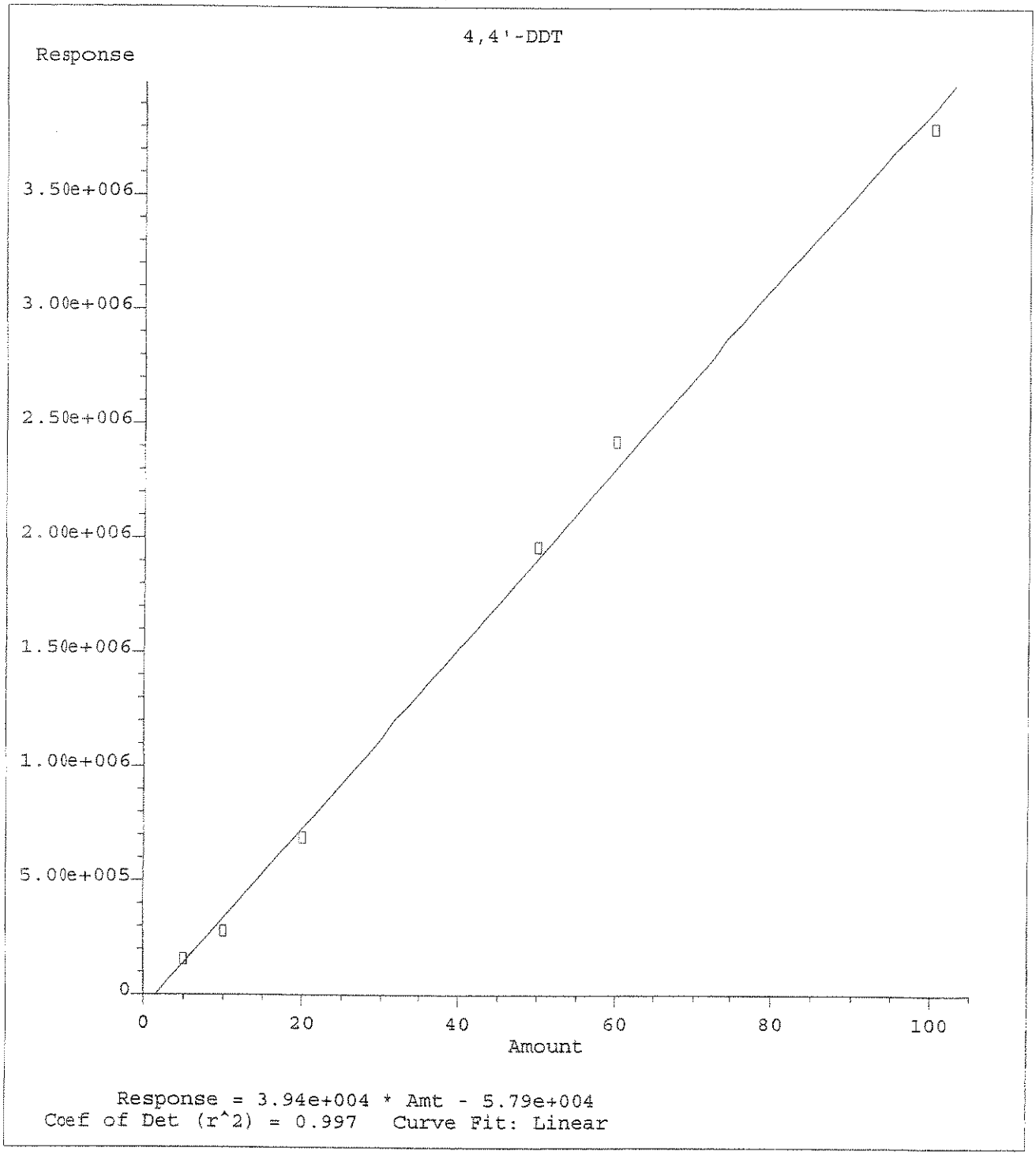

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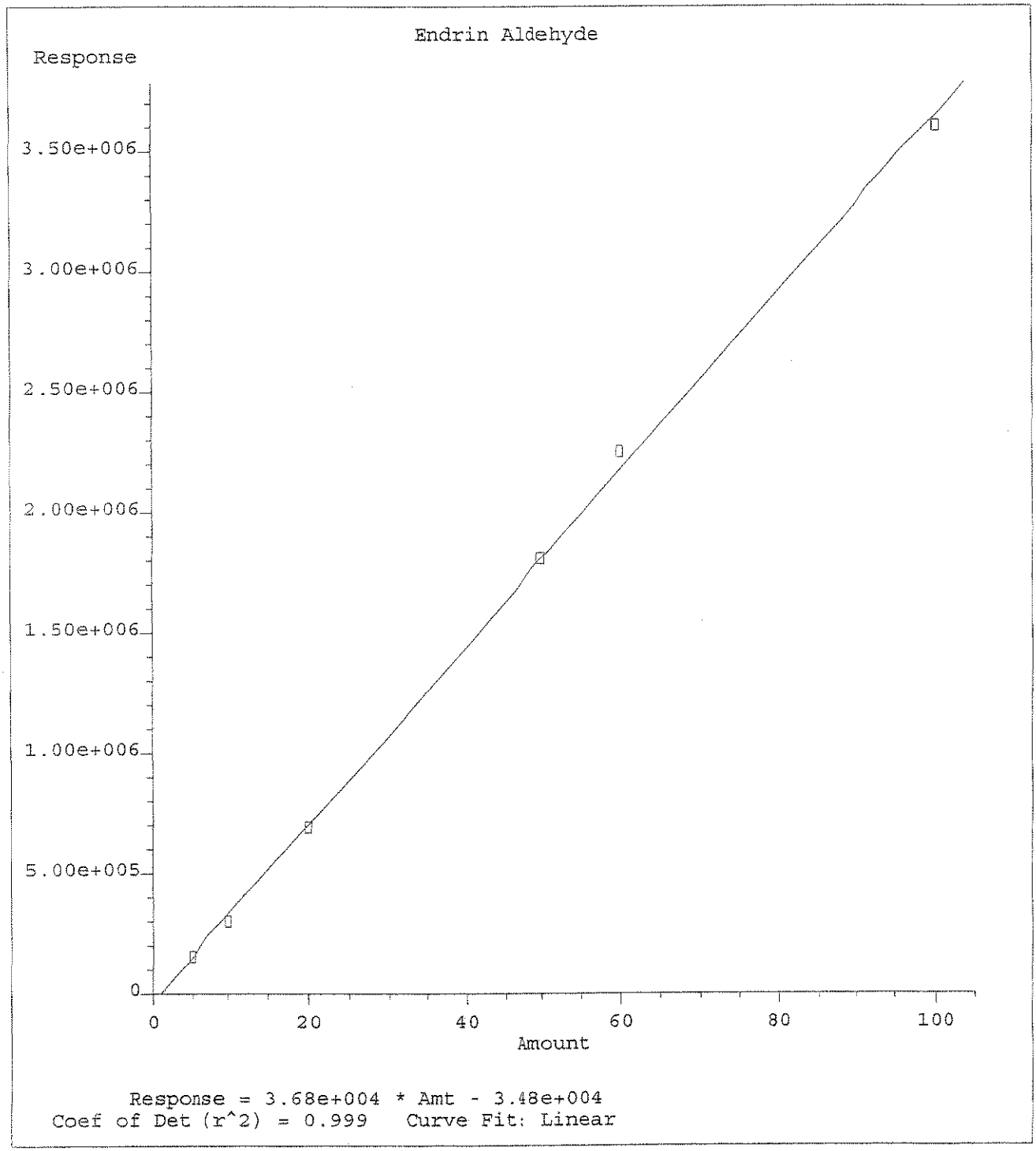

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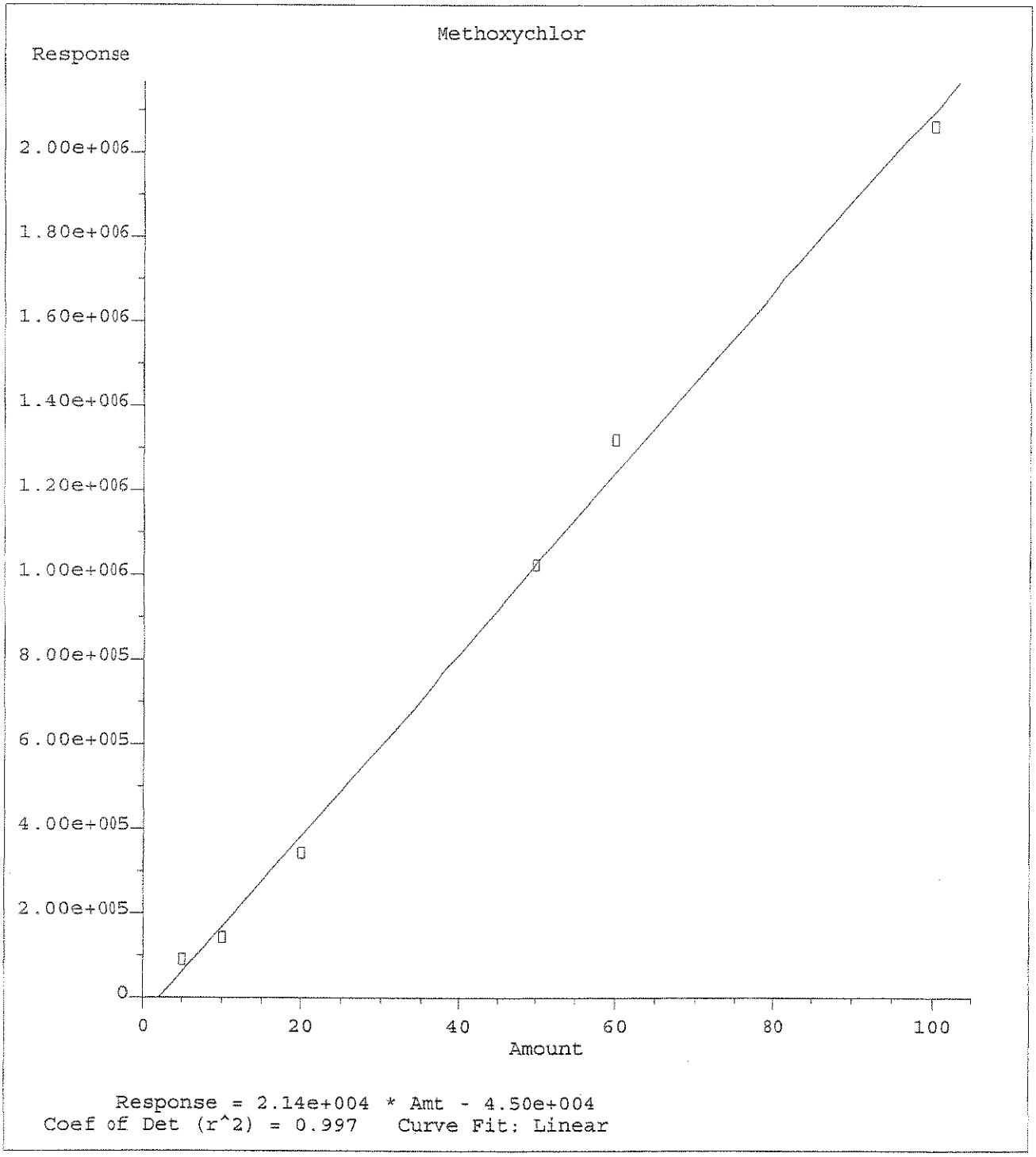

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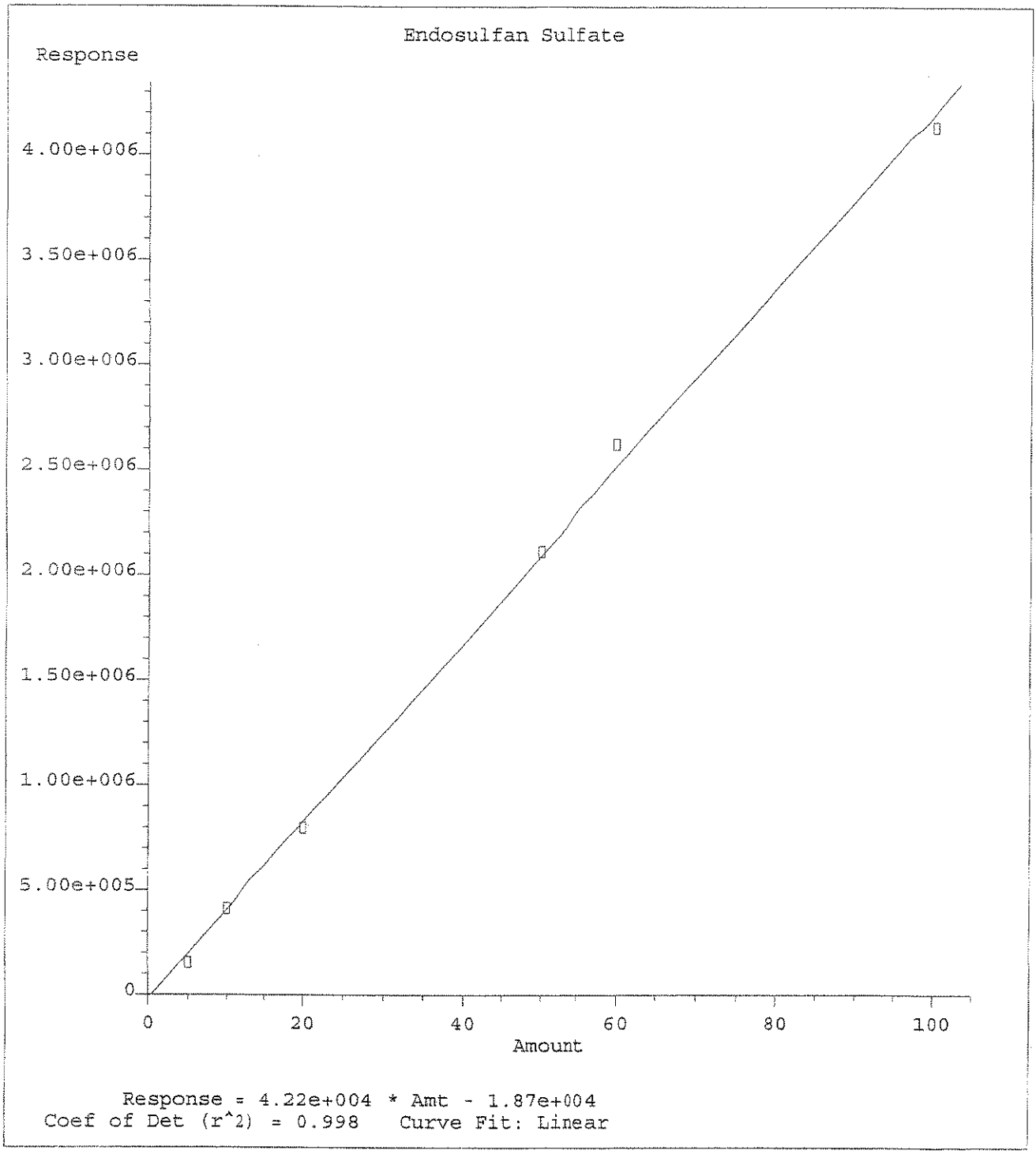

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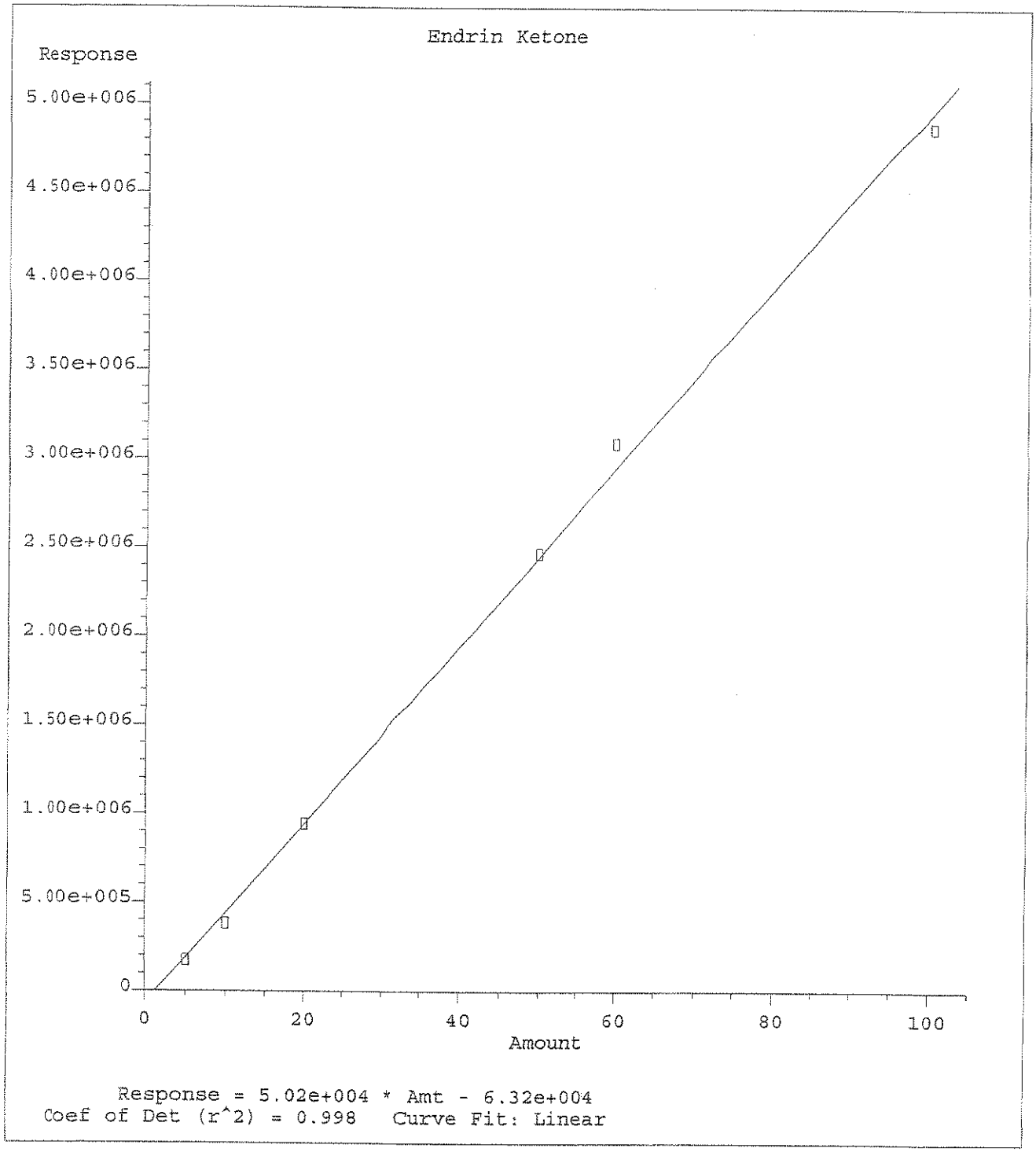

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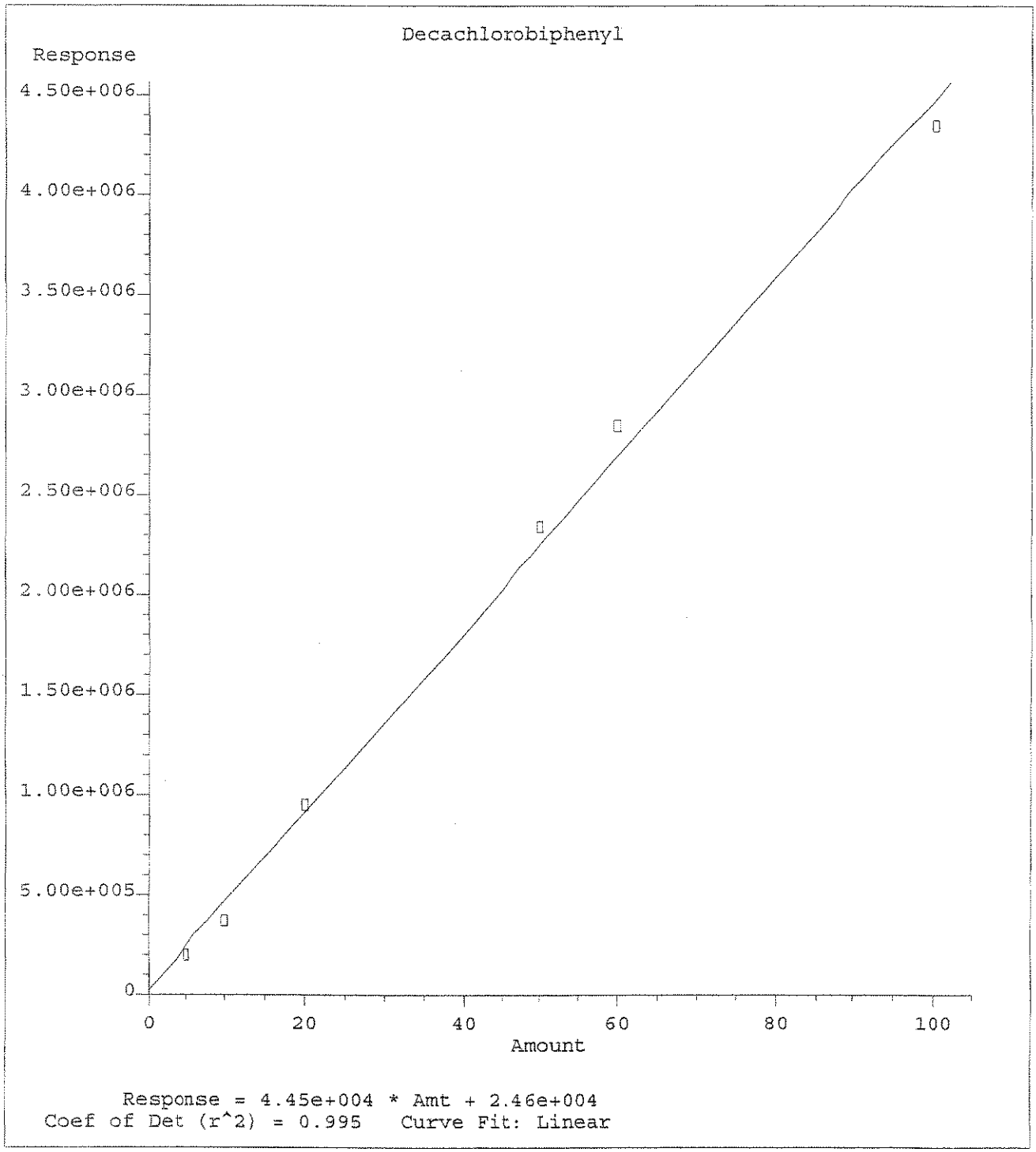

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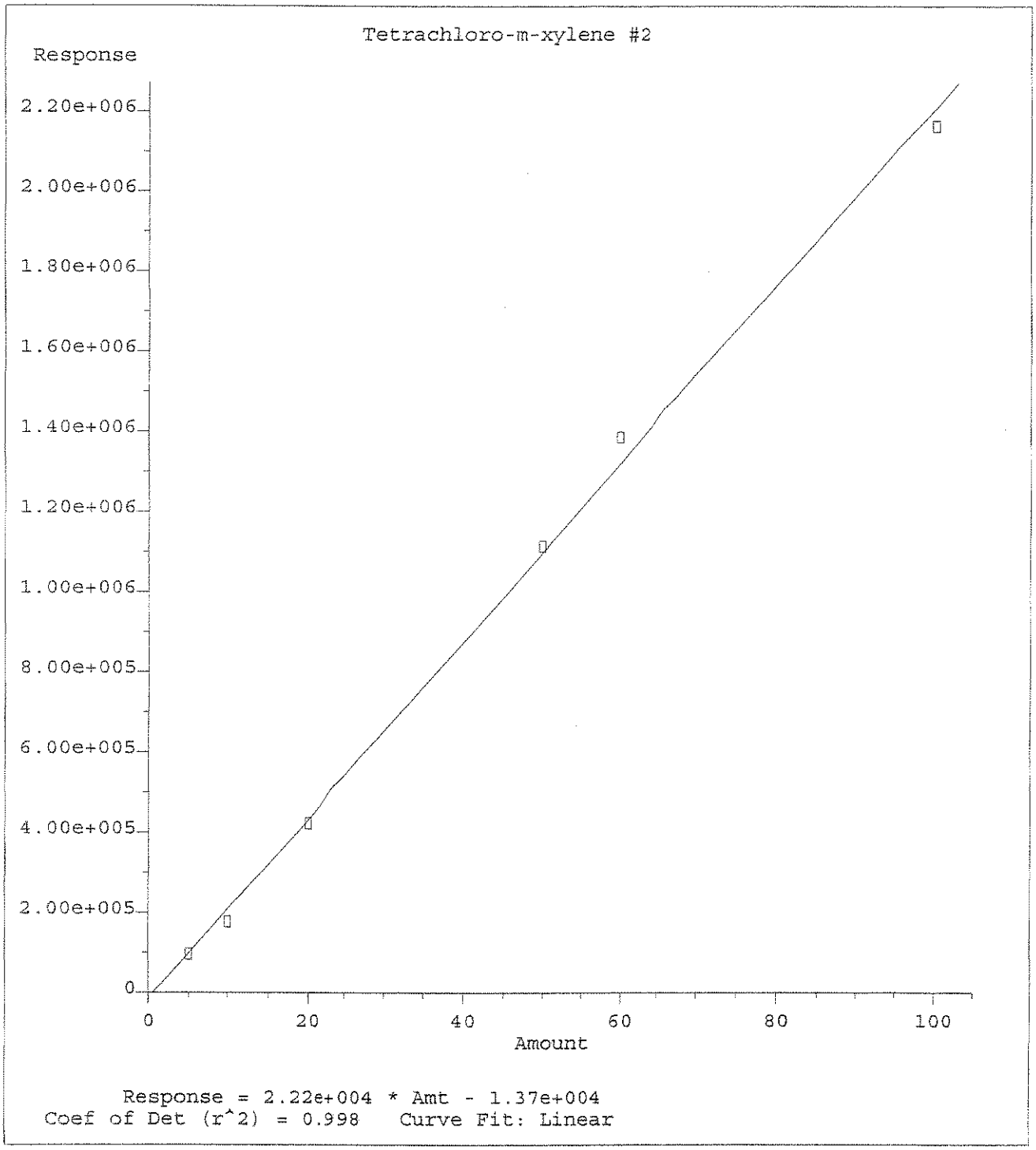

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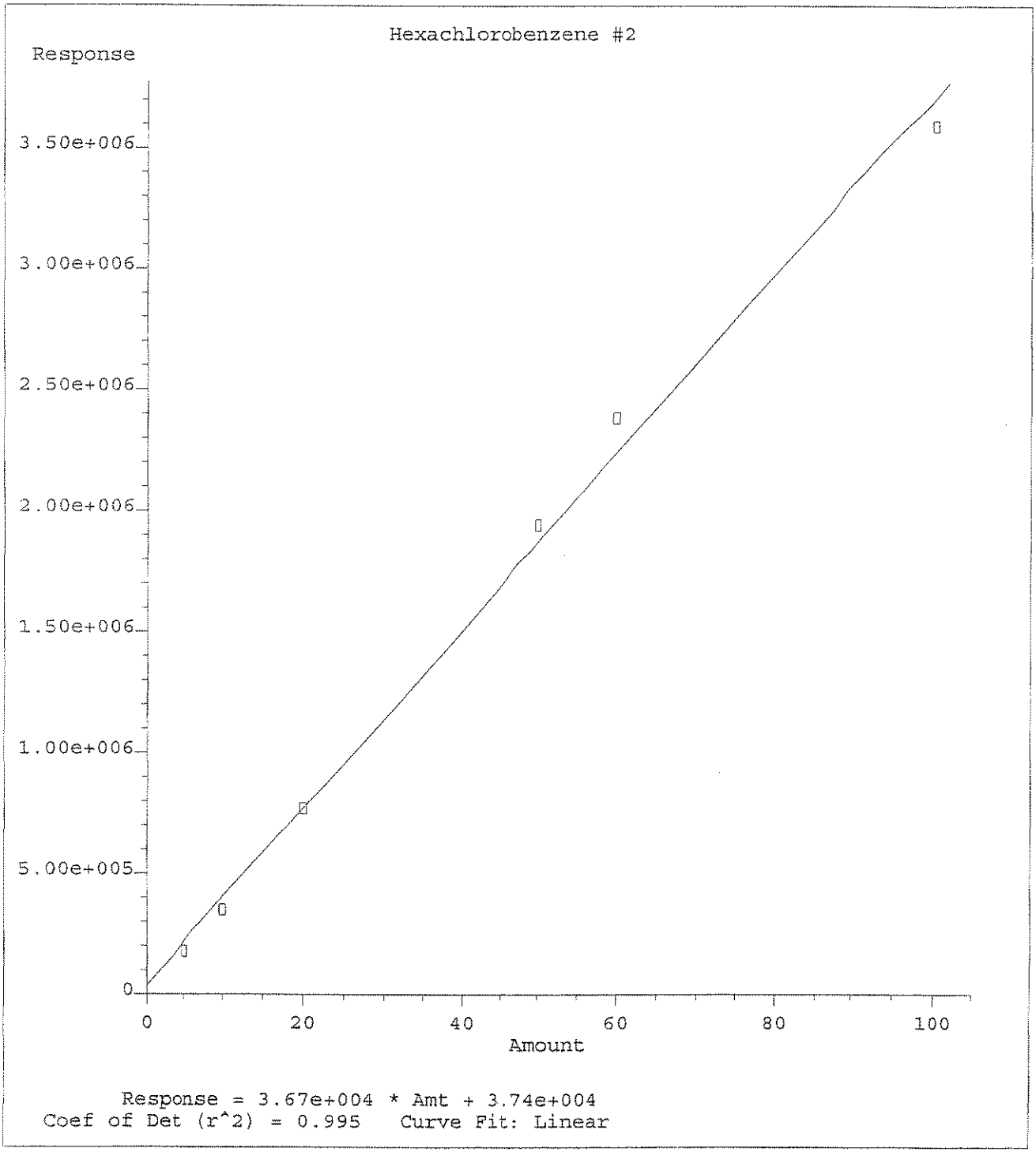

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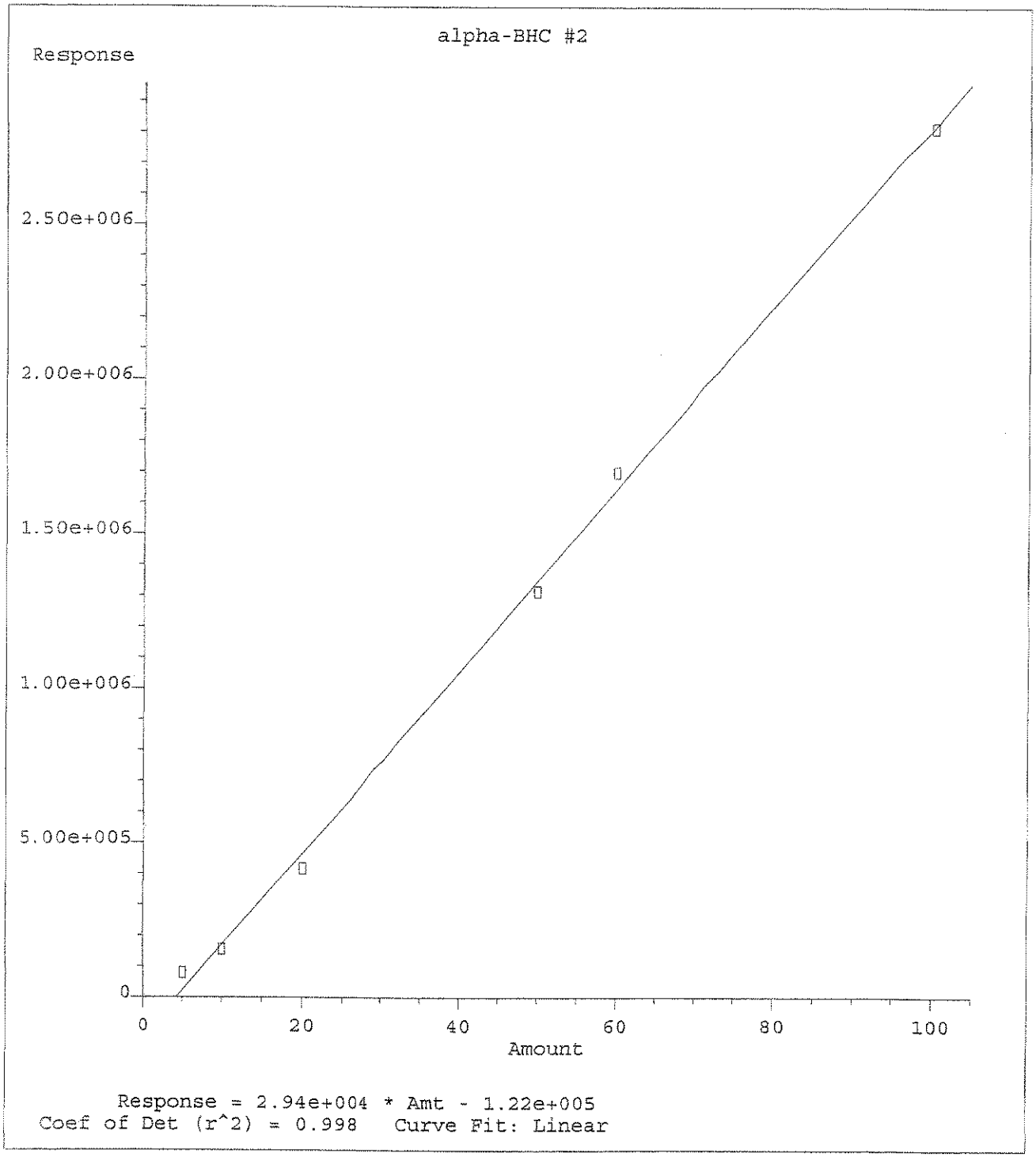

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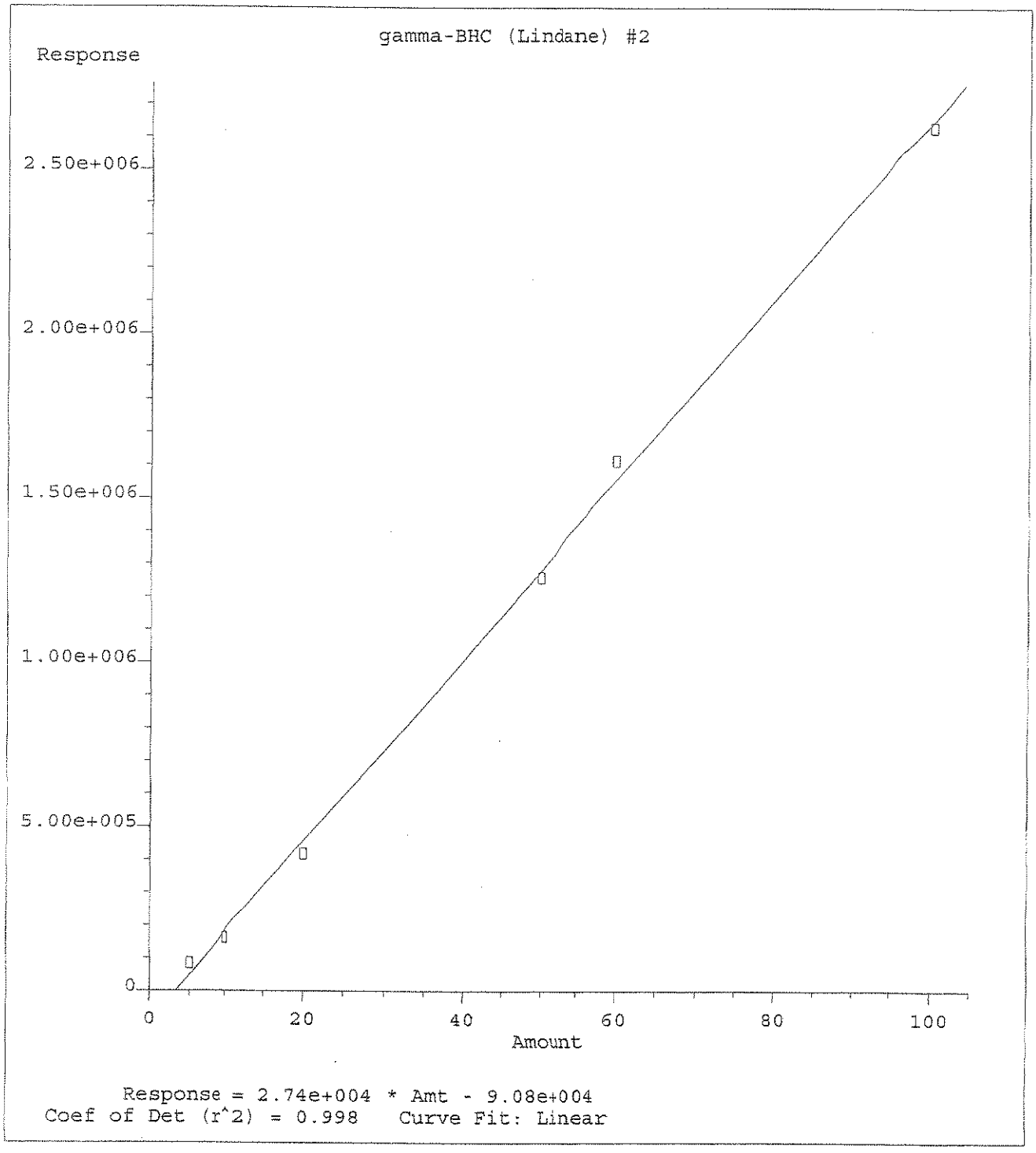

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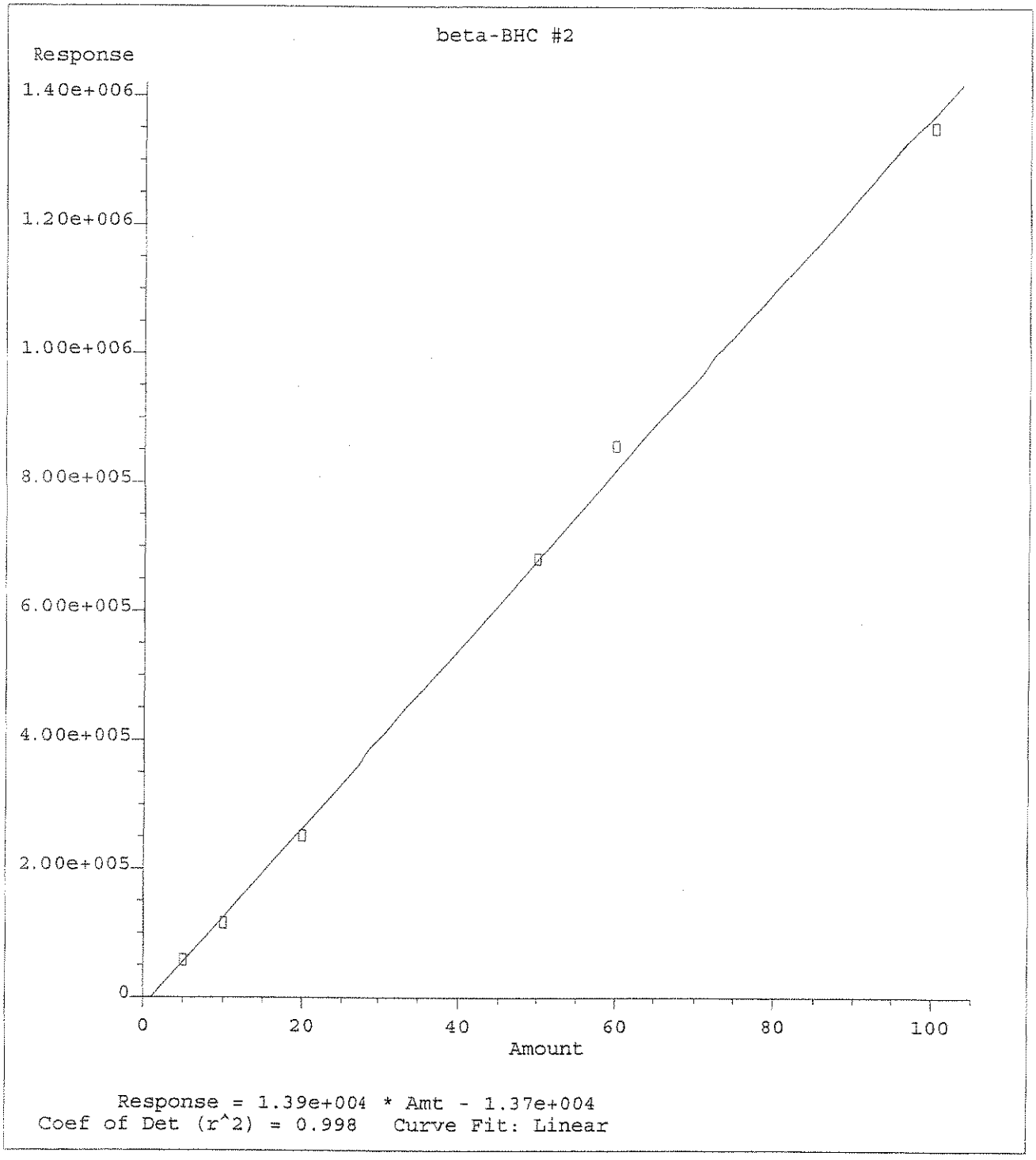

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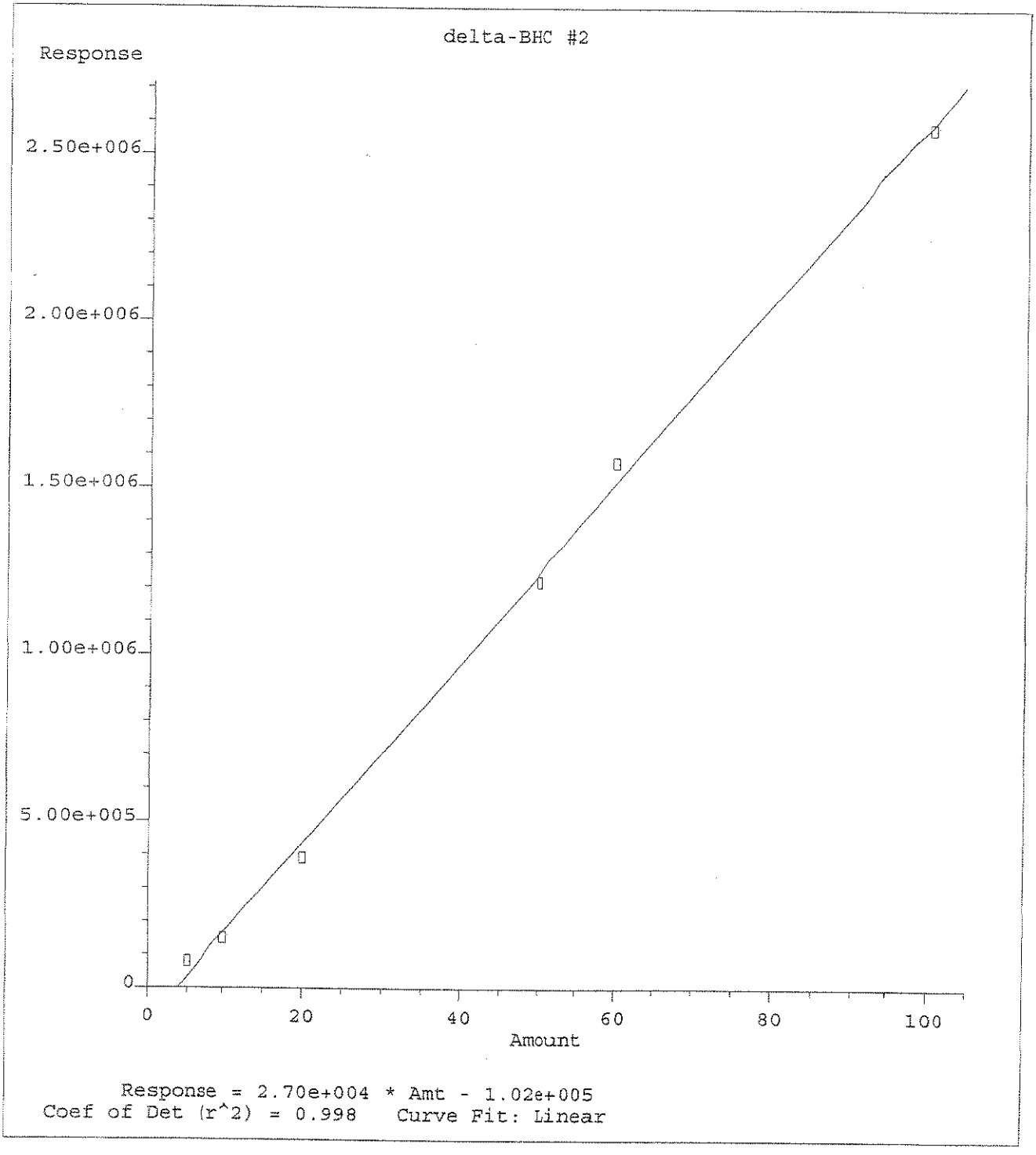

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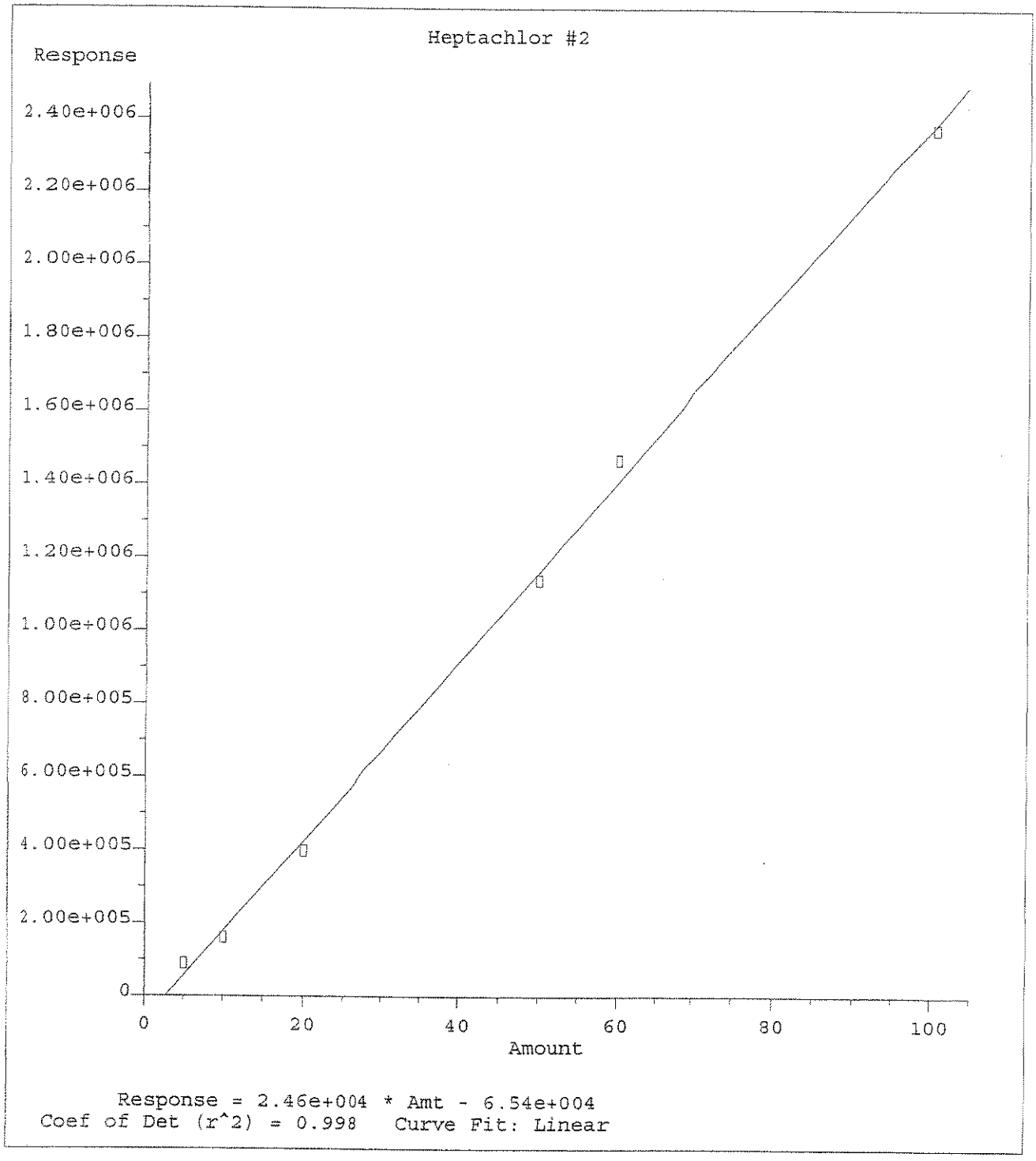

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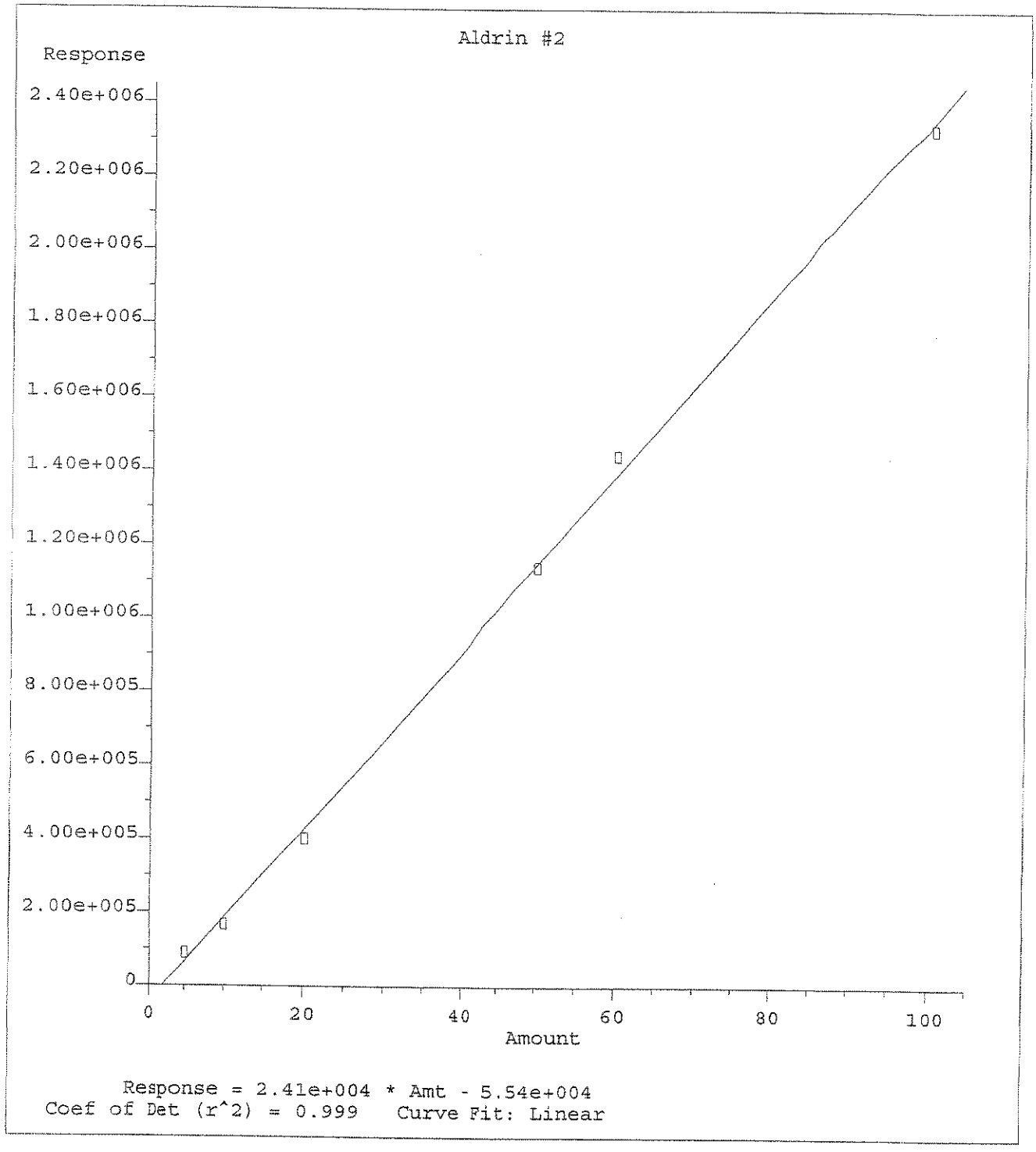

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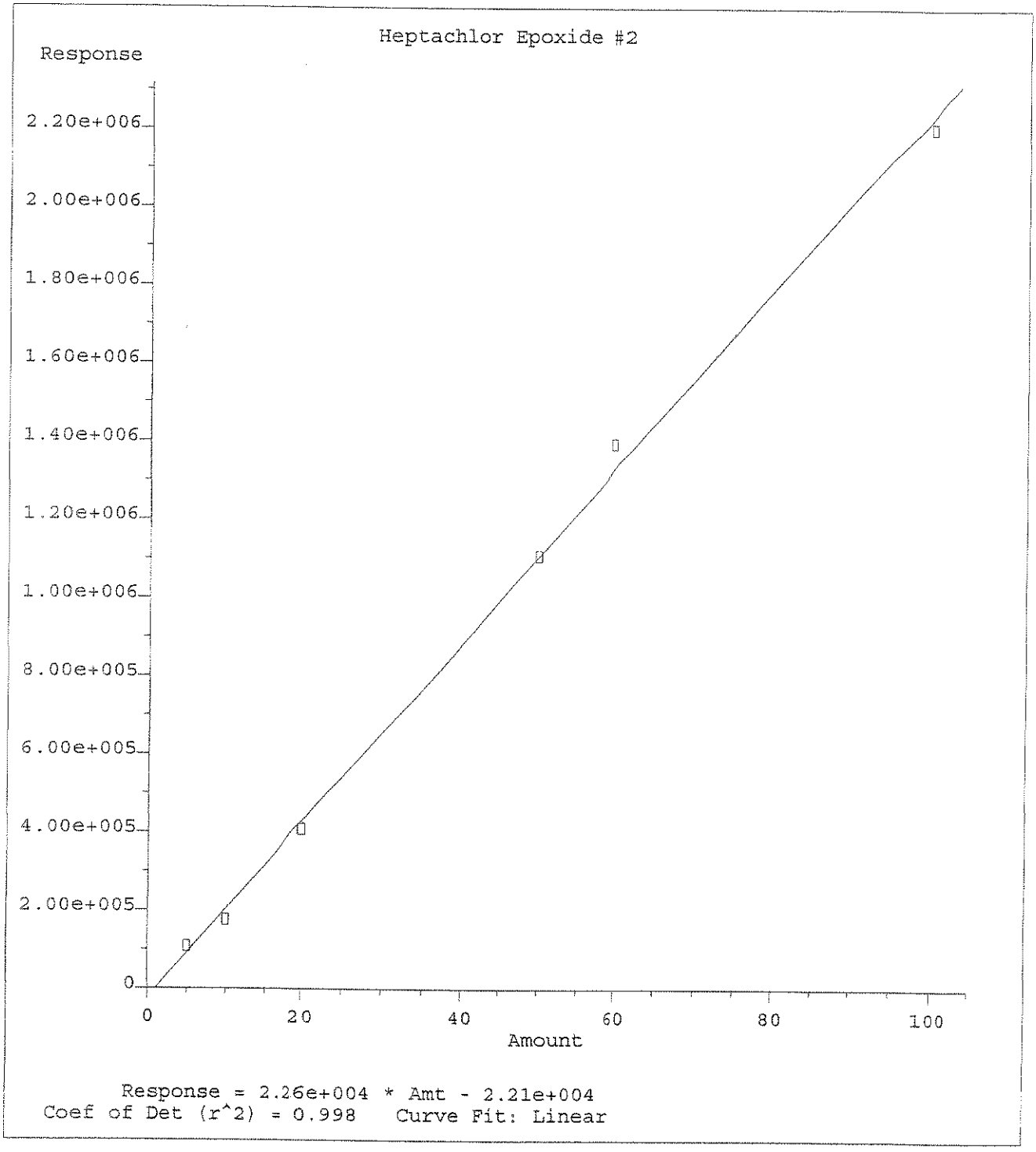

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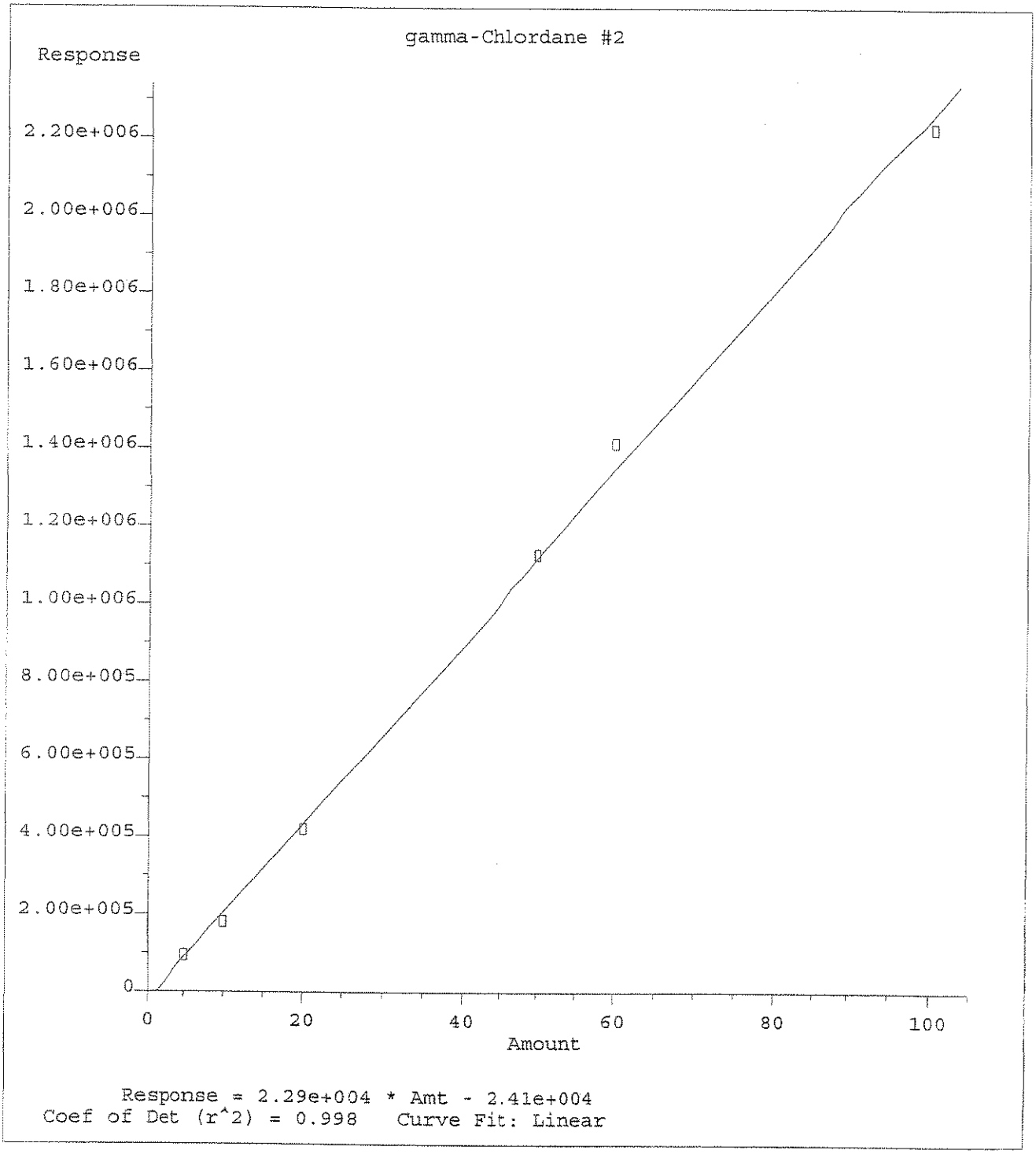
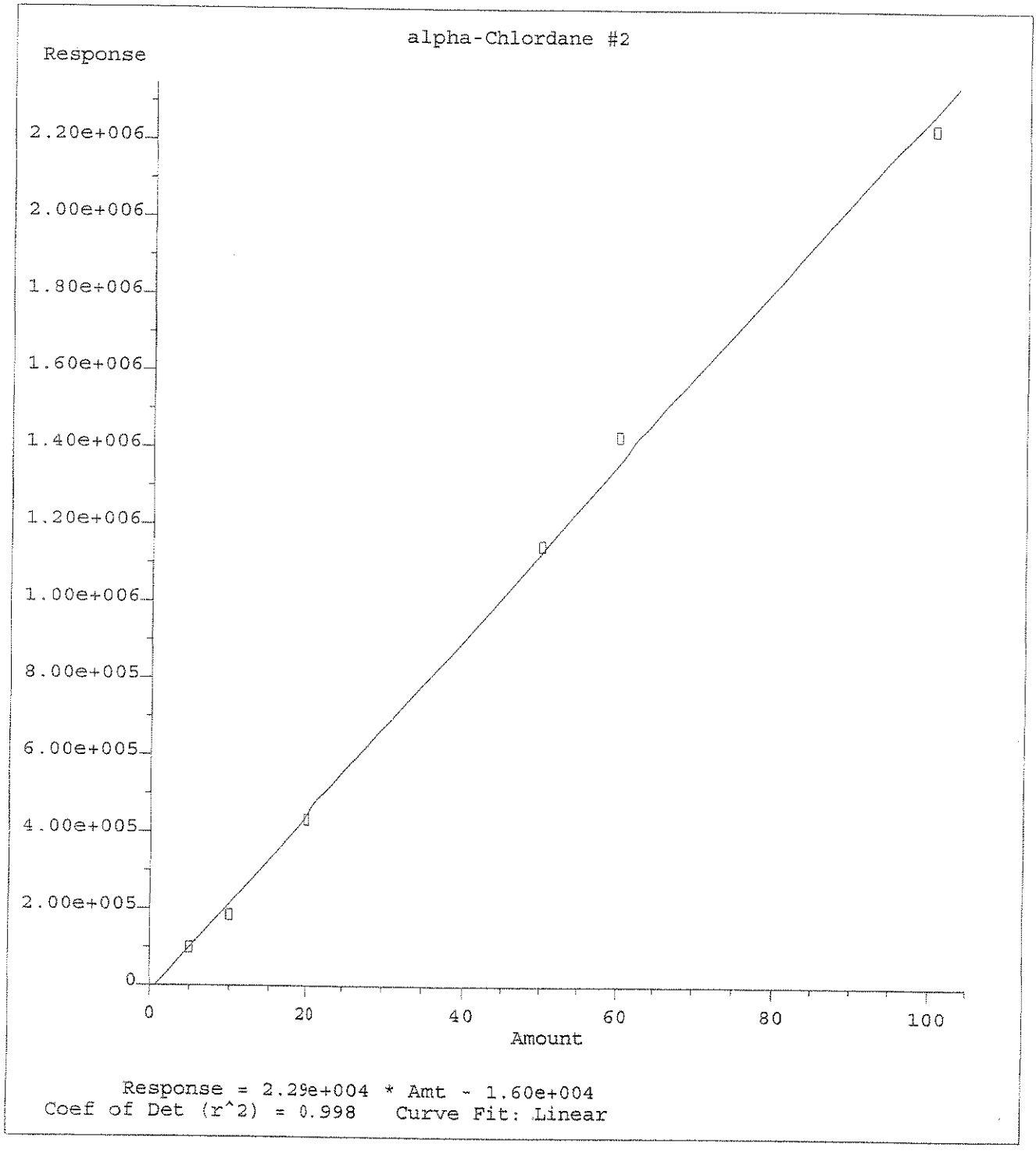
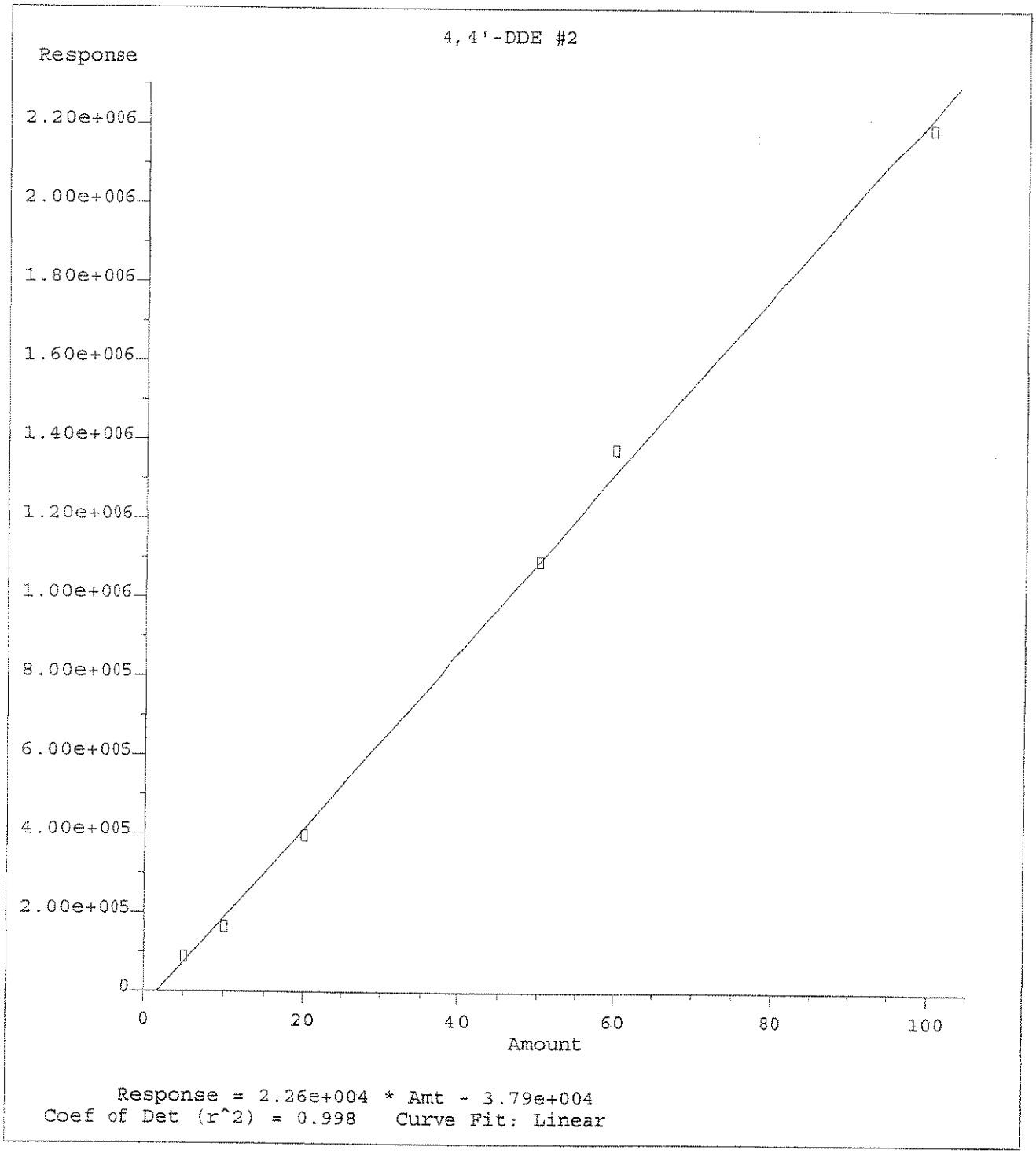


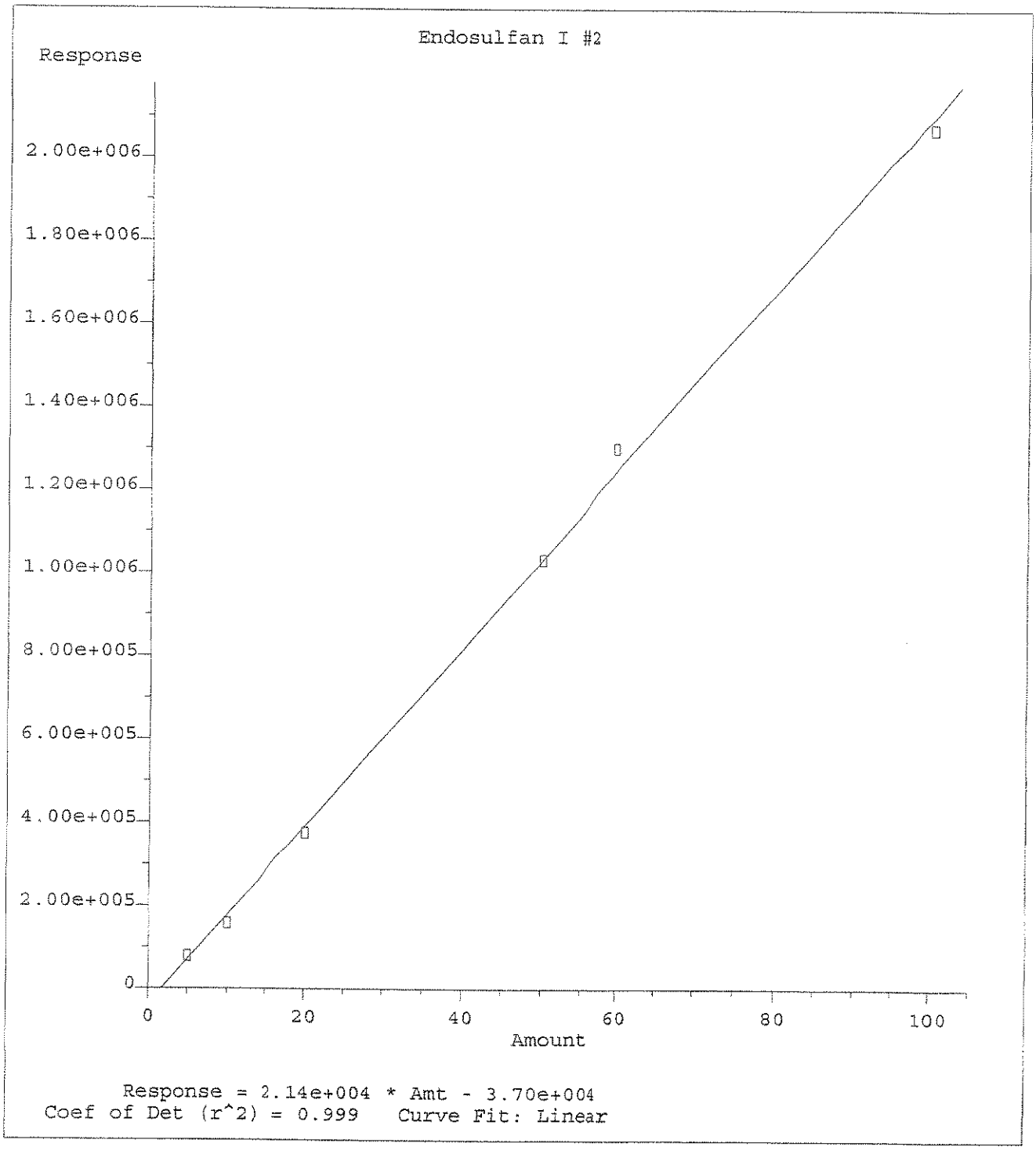
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EH.M
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



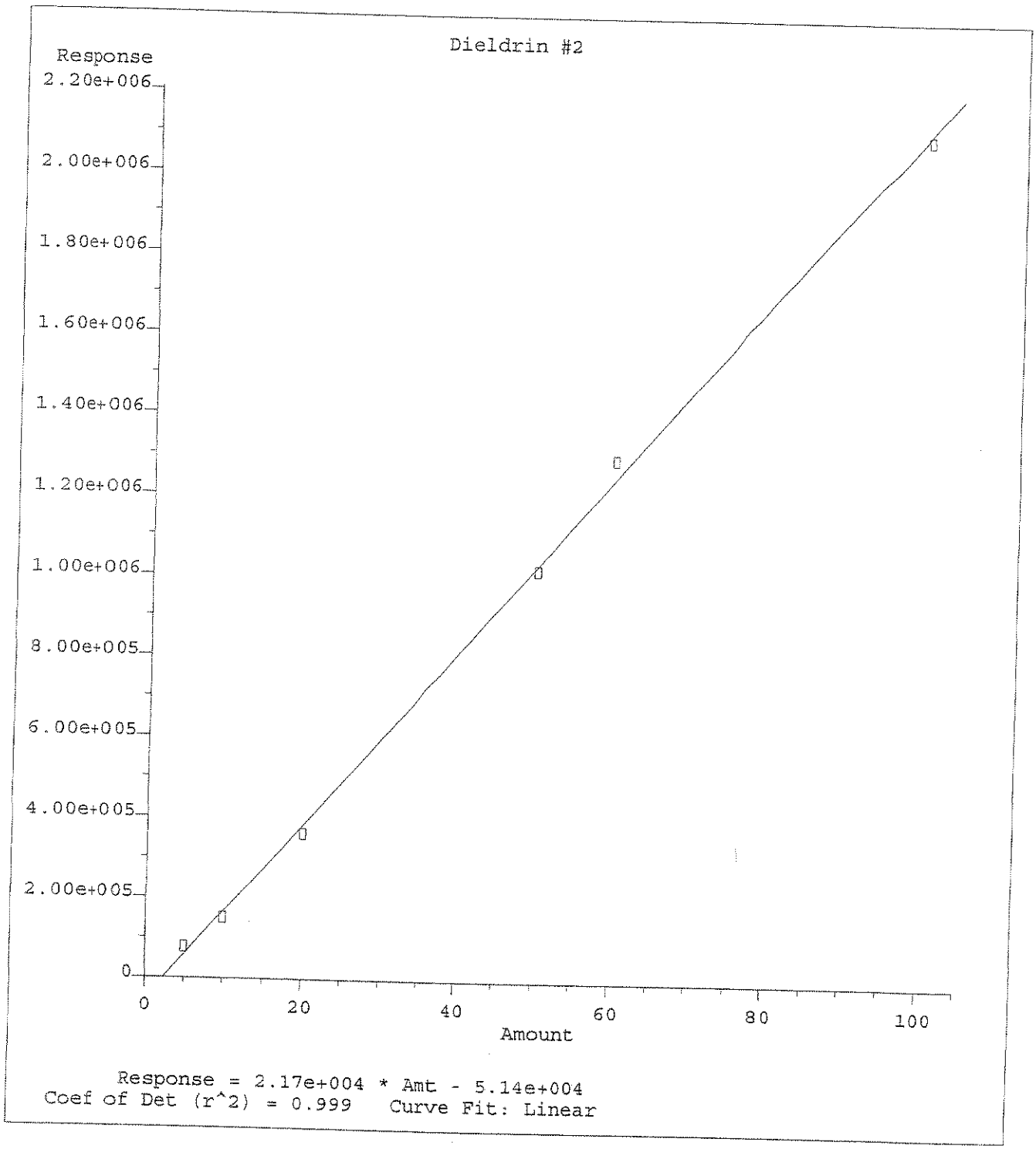
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EH.M
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



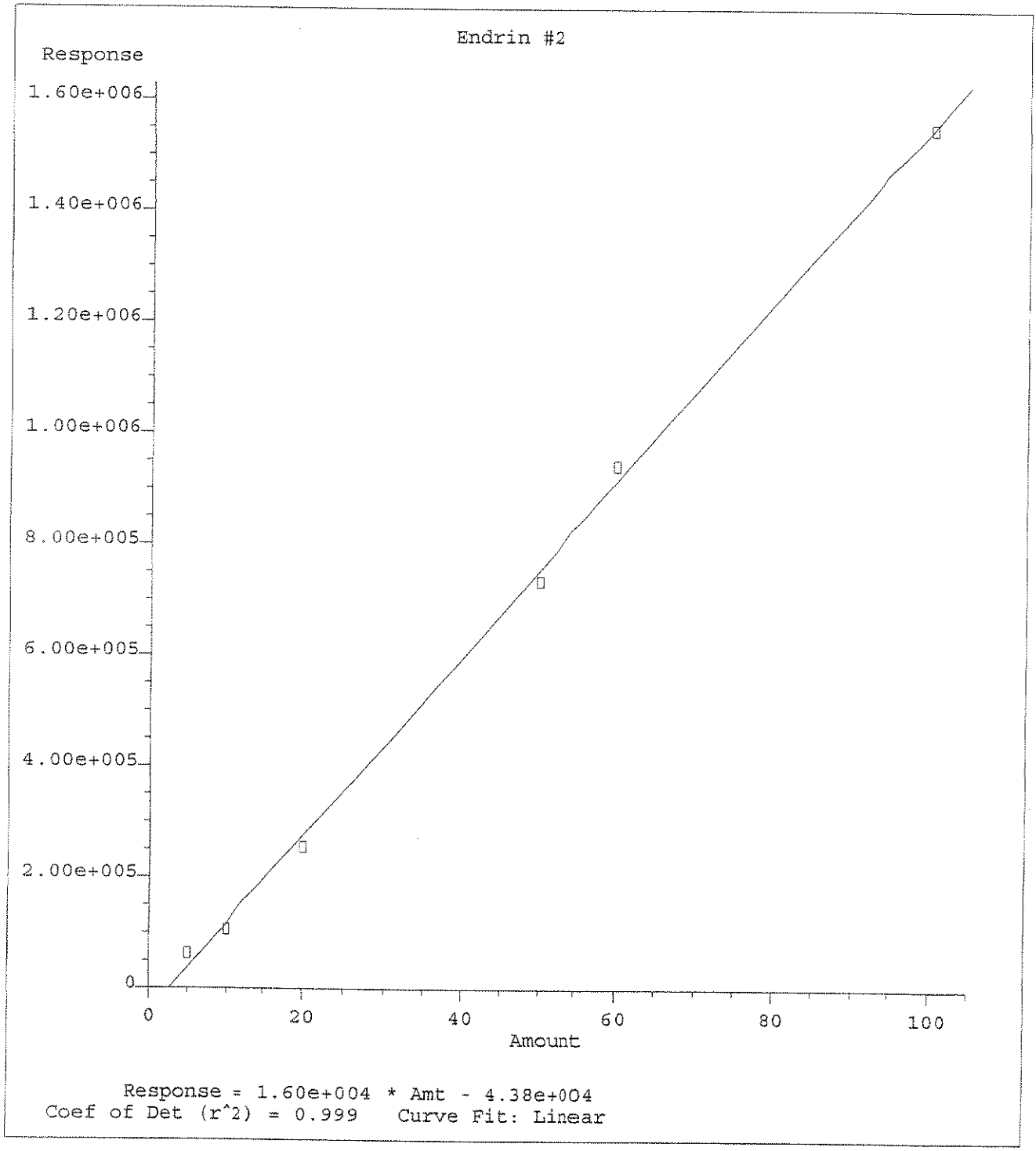
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EH.M
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



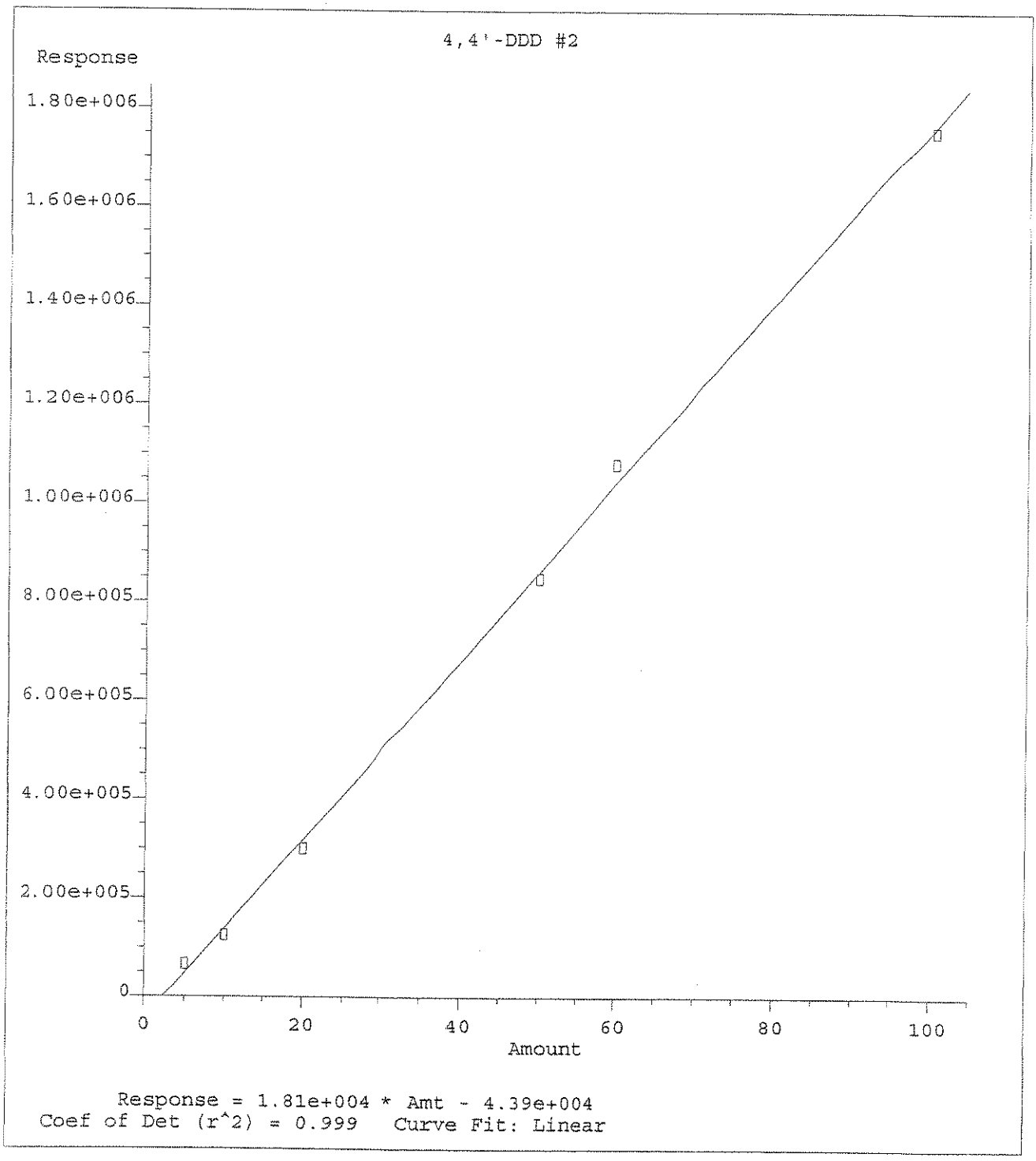
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EH.M
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



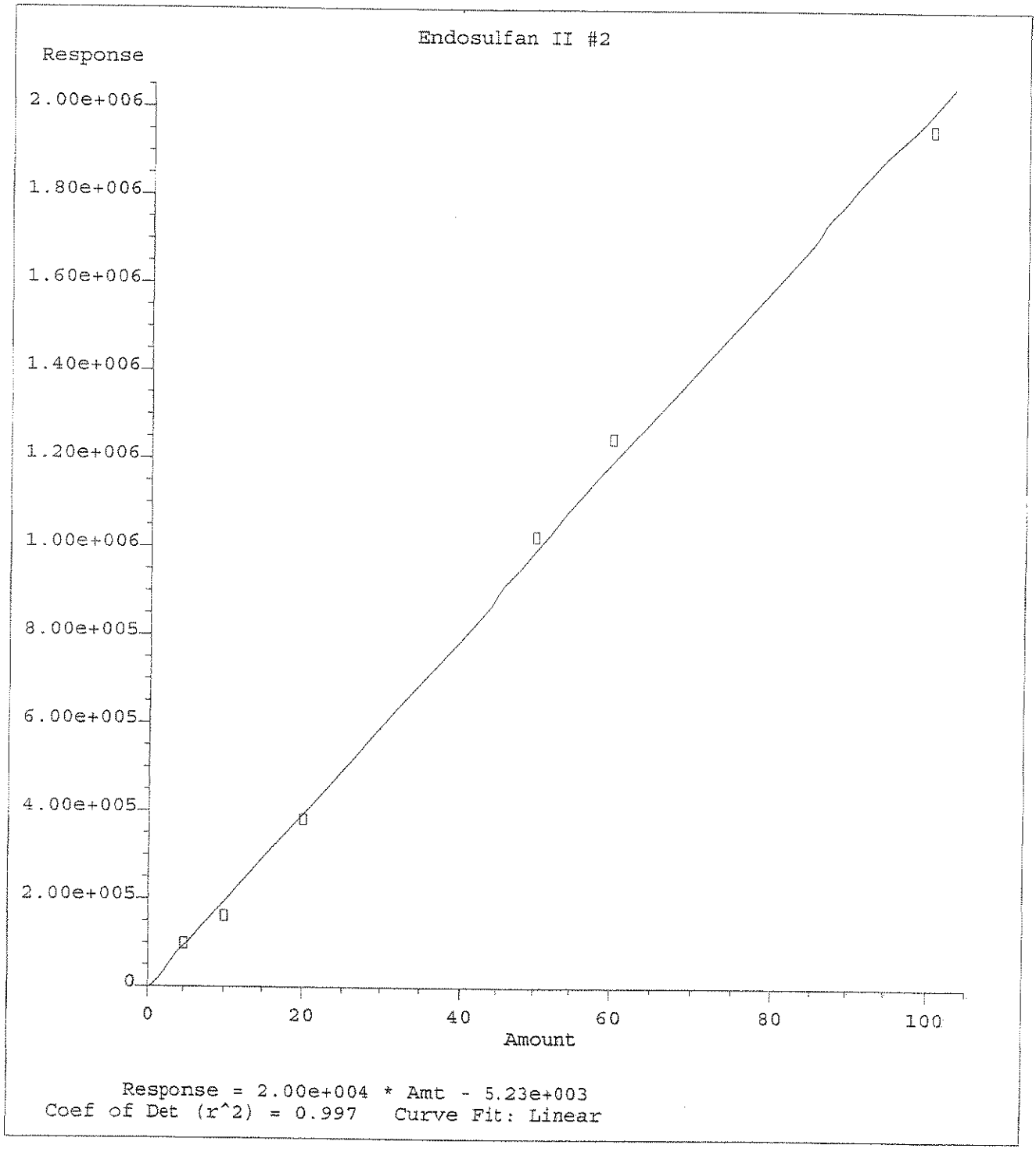
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EH.M
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



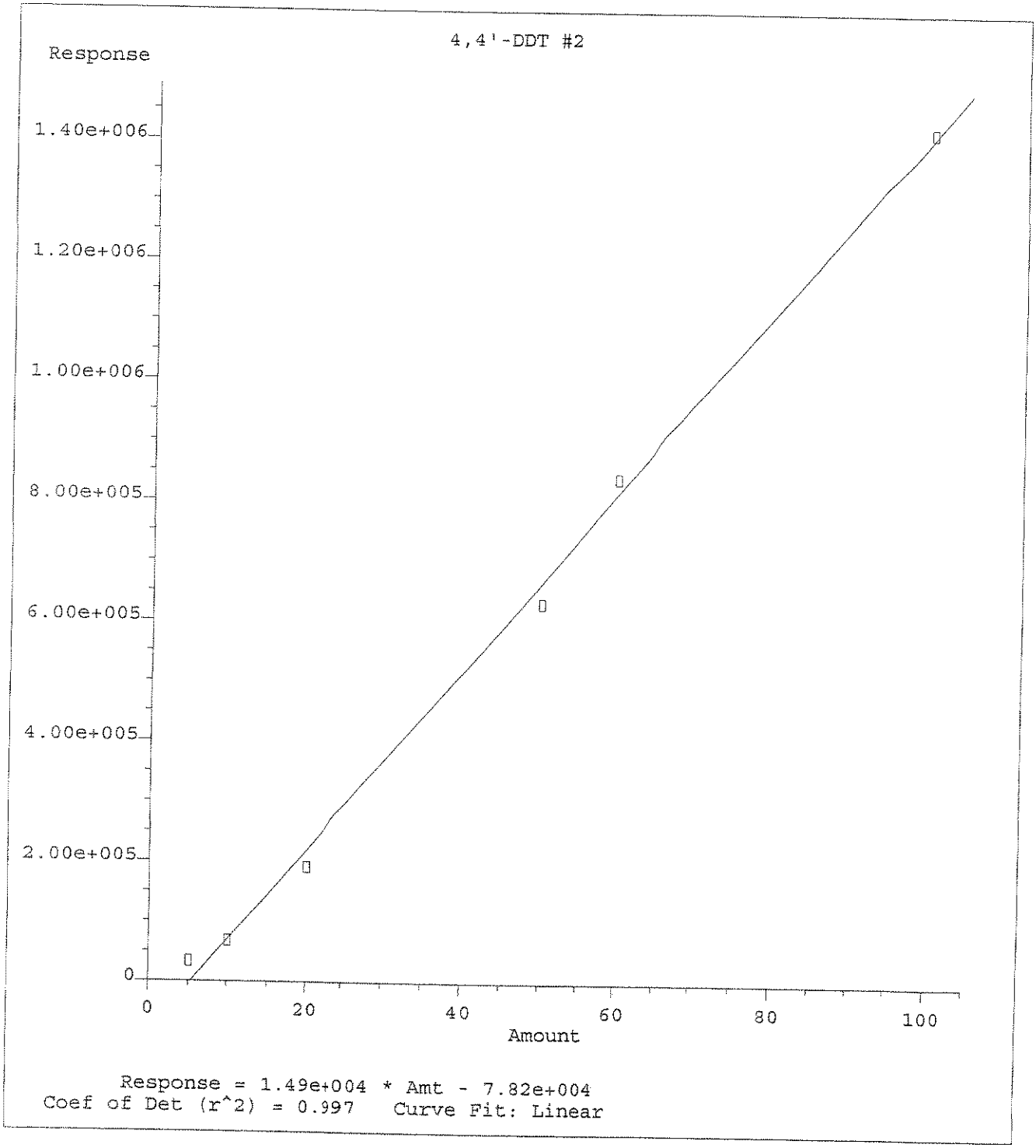
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EH.M
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



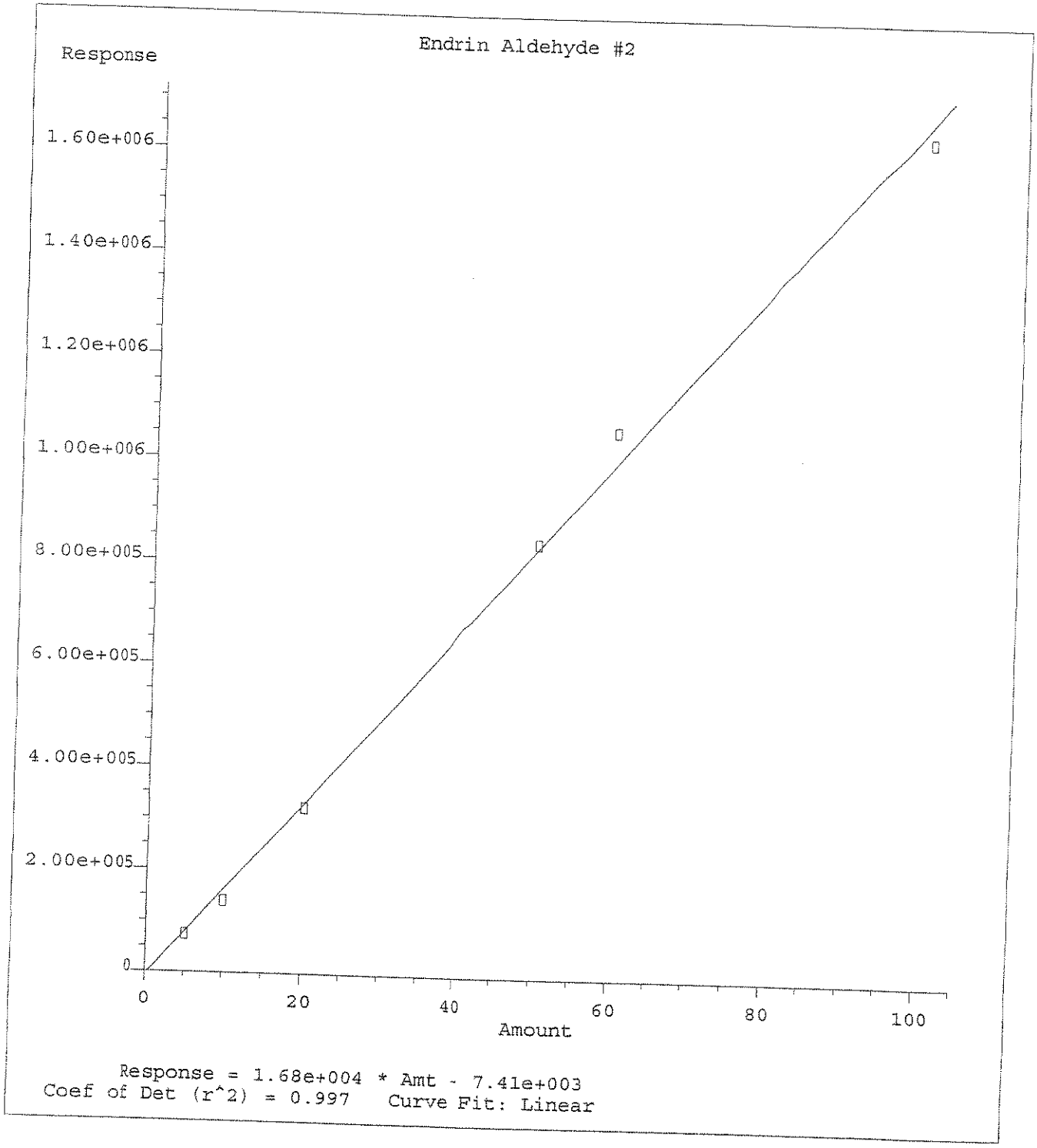
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EH.M
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



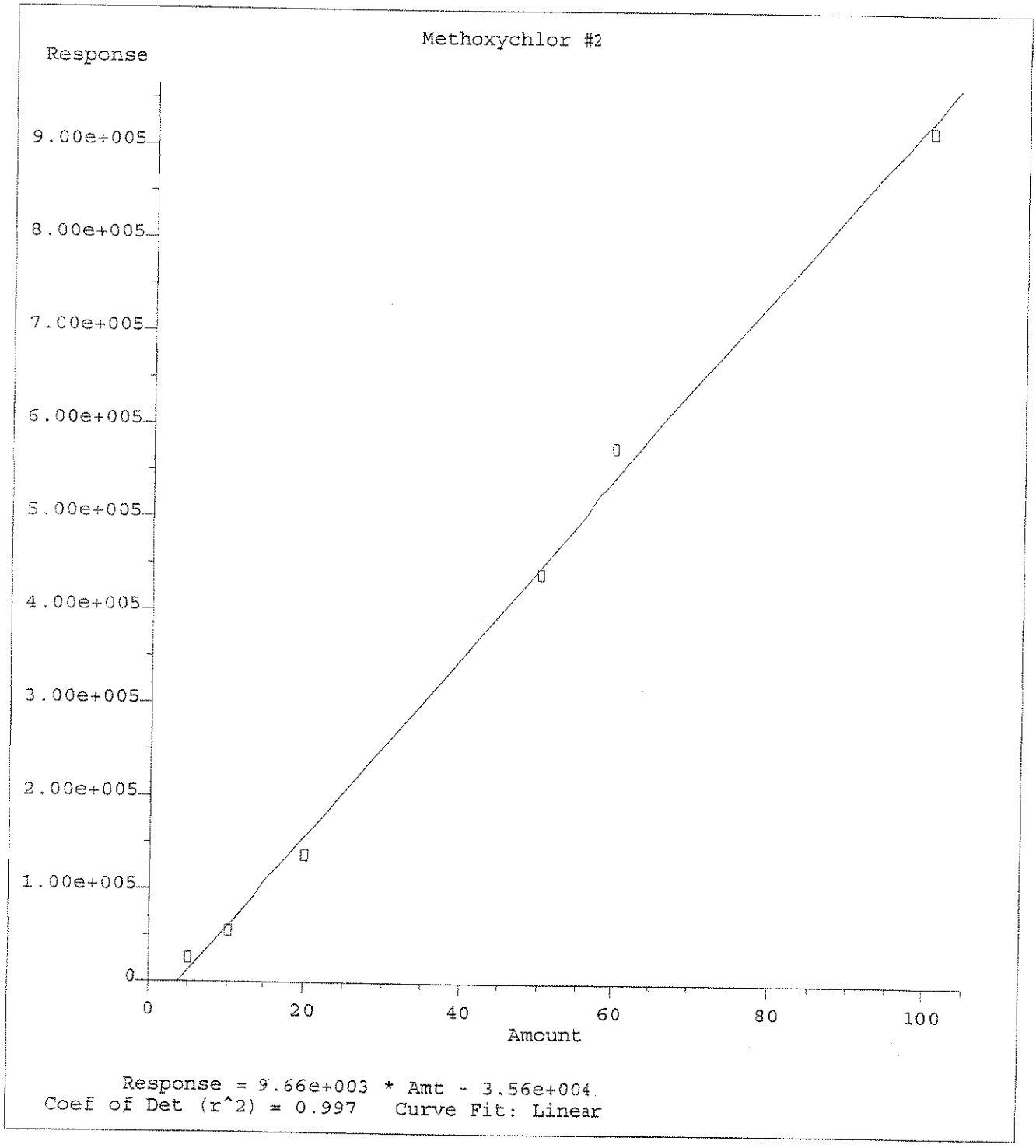
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EH.M
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



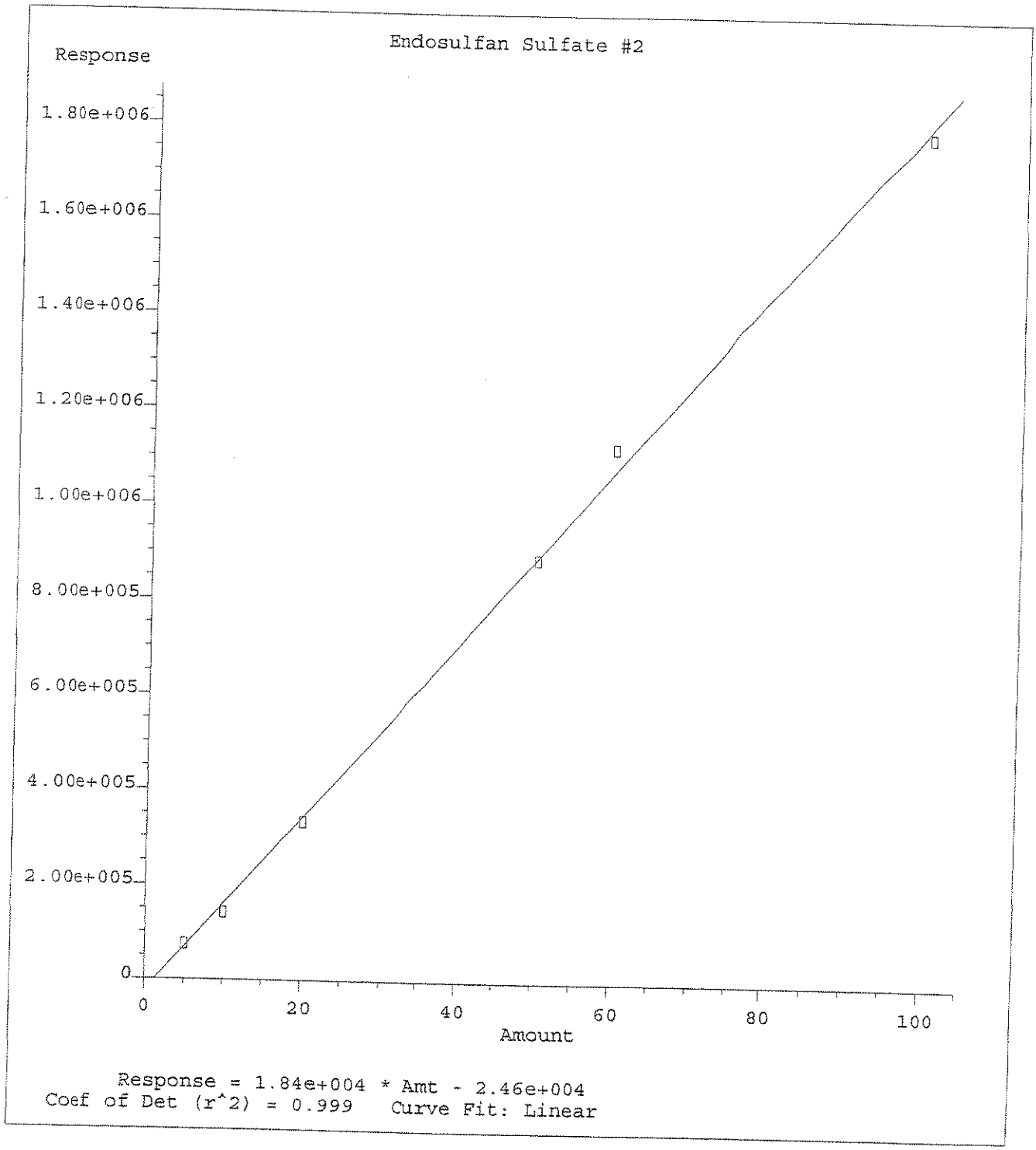
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EH.M
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



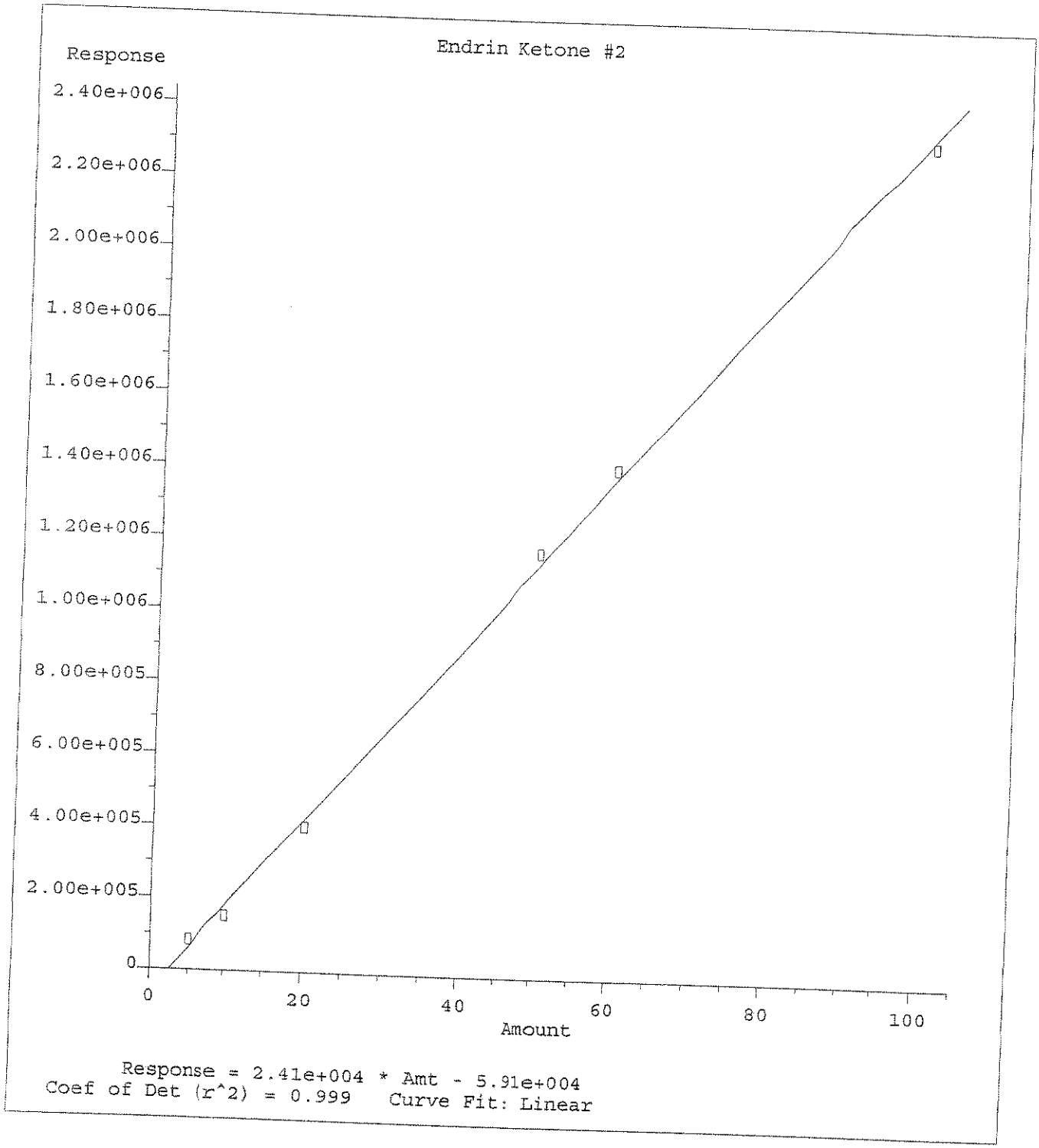
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EH.M
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



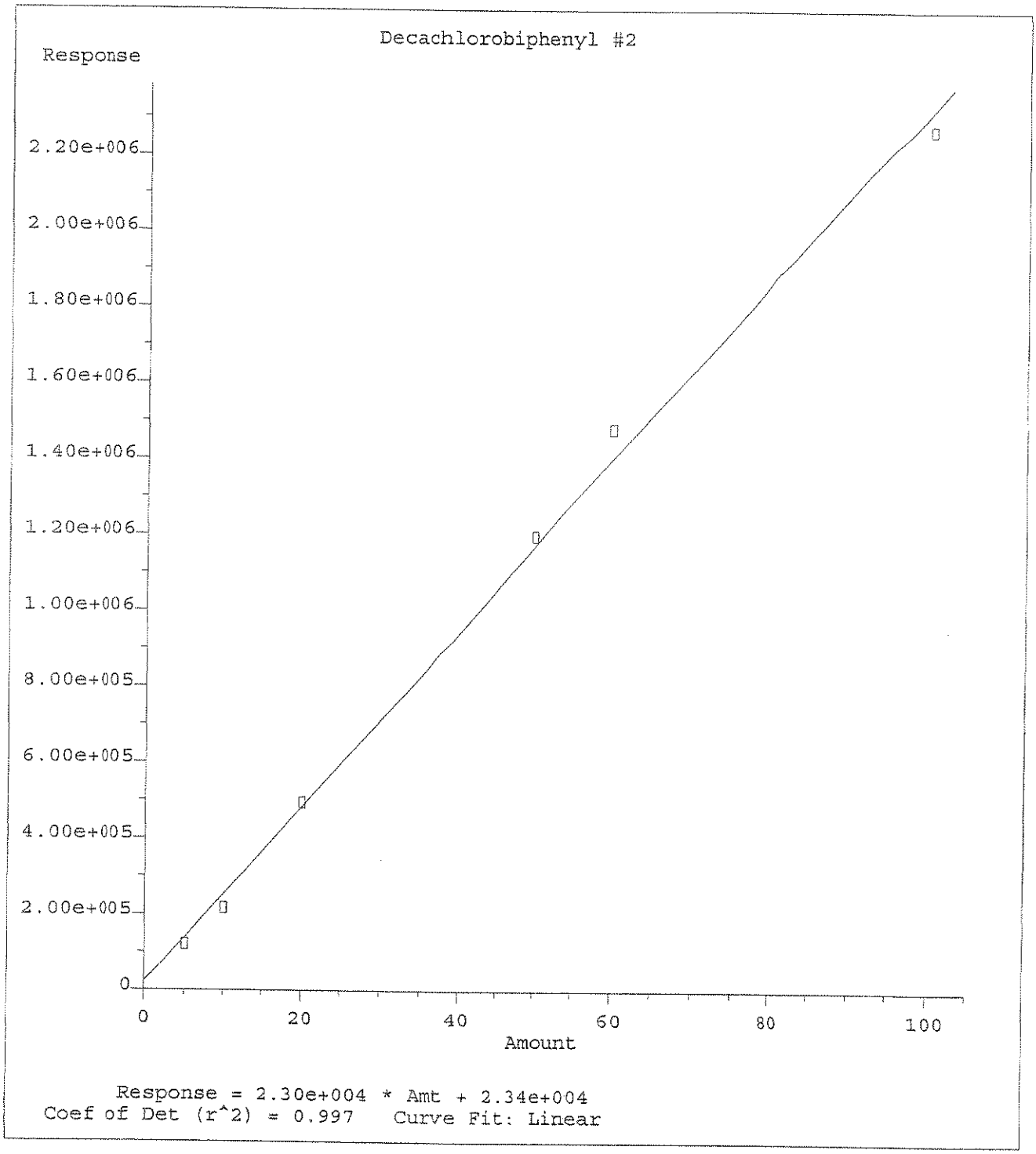
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EH.M
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EH.M
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EH.M
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EH.M
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06216A\011F0101.D Vial: 11
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06216A\011F0101.D\011R0101.D
Acq On : 21 Jun 06 07:45 PM Operator: [GC]1R0101.D\DATA.MS
Sample : PEST SS Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 22 7:03 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.65	8.77	3022504	1096109	49.558	49.946
					Recovery	=	99.12%	99.89%
23)	S	Decachlorobiphenyl	18.15	20.79	2392763	1152419	53.173m	49.074
					Recovery	=	106.35%	98.15%
		Target Compounds						
2)	M	Hexachlorobenzene	8.66	9.94	4282129	1670334	44.255m	44.502
3)	M	alpha-BHC	9.09	10.28	3769576	1352026	51.198	50.076
4)	M	gamma-BHC (Lindane)	9.81	11.05	3539166	1302712	51.668m	50.869
5)	M	beta-BHC	10.03	11.23	1791751	695928	50.993	51.169
6)	M	delta-BHC	10.40	11.82	3263505	1174206	48.301	47.289
7)	M	Heptachlor	10.81	11.97	3221835	1194454	51.755	51.293
8)	M	Aldrin	11.39	12.60	3205603	1199214	52.734m	52.090
9)	M	Heptachlor Epoxide	12.54	13.66	2982597	1138552	52.706	51.373
10)	M	gamma-Chlordane	12.76	13.99	3073616	1192528	53.319	53.151
11)	M	alpha-Chlordane	13.00	14.24	2821931	1175910	51.769	51.940
12)	M	4,4'-DDE	13.13	14.48	2795482	1120704	51.461	51.239
13)	M	Endosulfan I	13.24	14.37	2855928	1053174	50.787	50.998
14)	M	Dieldrin	13.66	14.85	2766254	1075691	52.487	51.974
15)	M	Endrin	14.06	15.37	2052423	755329	50.421	50.046
16)	M	4,4'-DDD	14.15	15.47	2345201	883833	51.494	51.229
17)	M	Endosulfan II	14.45	15.73	2339577	1009472	51.740	50.737
18)	M	4,4'-DDT	14.62	16.01	1911817	679699	49.995	50.889
19)	M	Endrin Aldehyde	15.15	16.30	1977676	832412	54.652m	49.913
20)	M	Methoxychlor	15.40	17.17	1040357	452043	50.613	50.472
21)	M	Endosulfan Sulfate	15.88	16.80	2166999	904258	51.755m	50.617
22)	M	Endrin Ketone	16.37	17.87	2410352	1100366	49.264	48.142m

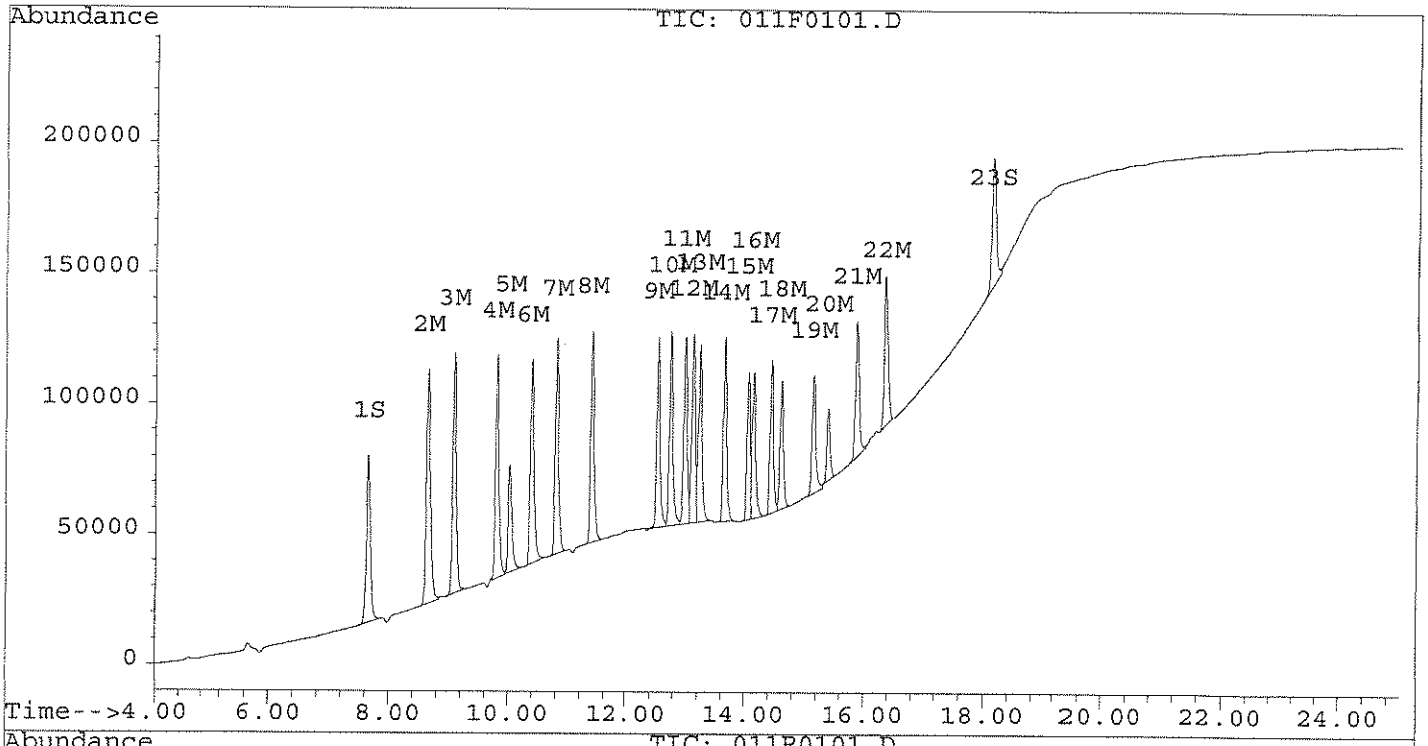
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

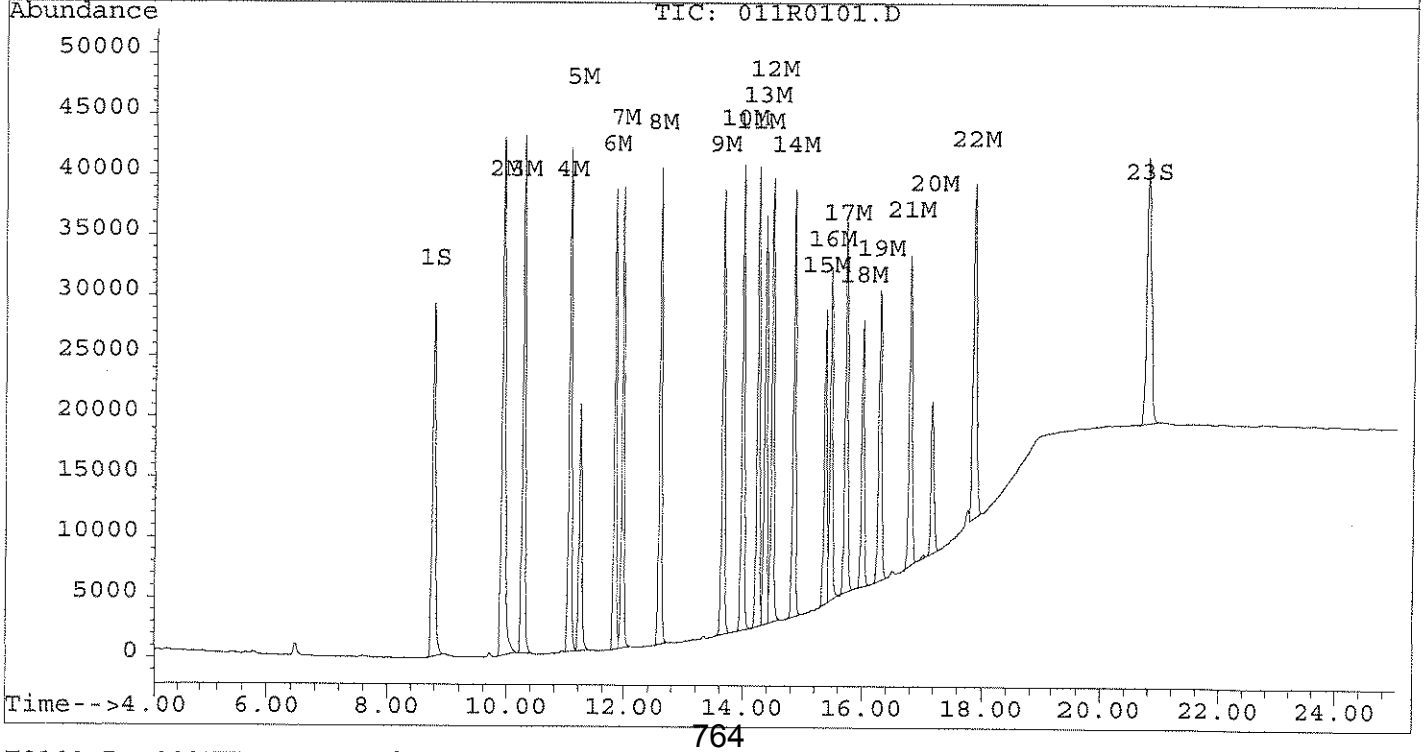
Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06216A\011F0101.D Vial: 11
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06216A\011F0101.D\011R0101.D
Acq On : 21 Jun 06 07:45 PM Operator: [GC]1R0101.D\DATA.MS
Sample : PEST SS Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 22 7:03 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53





ANALYSIS SEQUENCE

BPG0274

Instrument: SVOAGC3

Calibnration ~~ID: UNASSIGNED~~ 8081E11

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0274-PEM1	QC		1		6E02036		
BPG0274-CCV1	QC		2		6F28033		
BF62129-BLK2	QC		3				
BF62129-BS2	QC		4				
BF62129-BSD2	QC		5				
BPG0274-CCV2	QC		6		6F28033		
0606383-01	SVOC: 8081A ppb Pesticides	G	7				MACTEC Engineering & Consulting, In
0606383-03	SVOC: 8081A ppb Pesticides	G	8				MACTEC Engineering & Consulting, In
0606383-05	SVOC: 8081A ppb Pesticides	G	9				MACTEC Engineering & Consulting, In
0606383-07	SVOC: 8081A ppb Pesticides	G	10				MACTEC Engineering & Consulting, In
0606383-10	SVOC: 8081A ppb Pesticides	G	11				MACTEC Engineering & Consulting, In
BPG0274-CCV3	QC		12		6F28033		

Samples Loaded By Date Data Processed By Date

ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/27/06	1	GE062706-01	Prime	8081EH		SK
	2	02	Pem			
	3	03	Pest 50 cc ✓		10:16 Am	
	3	03	Pest 50 cc		CF27062 10:44 Am	
	4	04	Chlor 250		↓ 062	
	5	05	0606373-09 ✓		CF27063	
6/27/06	6	GE062706-06	Pest 50 cc ✓	8081EH	2x	
6/28/06	1	GE062806-01	Prime	8081EH	CF27062 12:36 Pm	SK
	2	02	Pem ✓			SK
	3	03	Pest 50 cc			
	3	03	Pest 50 cc ✓		CF28033 CCV1	
	4	04	Chlor 250 ppb ✓		CF28033	
	5	05	BEG2129-BLK1 ✓		CF28034 (CHADIC)	
	6	06	BS1 ✓			
	7	07	↓ BSD1 ✓			
	8	08	0606405-01 ✓			
	9	09	01MS			
	10	10	01MSD			
	11	11	02 ✓			
	12	12	03 ✓		2x10 (dieldrin)	
	13	13	↓ 04 ✓			
	14	14	Hexane			
	3	3	Pest 50 cc ✓		CF28033 CCV2 3D1.D ✓	
	3	3	Pest 50 cc		CF28033	
	15	15	0606383-01 ✓			
6/28/06	16	GE062806-16	0606383-03 ✓	8081EH		SK

CONTROL NUMBER 60.0012-0602A

PAGE _____

ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/28/06	17	6E062806-17	0606383-05	8081EH		SB
	18	18	07			
	19	19	10			
	20	20	Hexane			
	3	03	Pest 50 CC		6F28033 ~~CCV4~~ CCV3 CCV 7/21/06	
	3	03	Pest 50 CC		6F28033	
	4	04	Chlor 250		6F28034 ~~CCV5~~ 20 7/21/06	
6/28/06	4	6E0628064	Chlor 250.	8081EH	6F28034	SB
6/28/06	21	6E62806-21	1254	8081 EH	6F23601	
6/28/06	22	6E062806-22	1660	8081 EH	6F23058	SB
~~7/3/06~~	~~1~~	~~6E070306-01~~	~~Prime~~	8081EH		M
	2	-02	DEn			
	3	-03	pest 50cc		6F03012	
	4	-04	pest 50cc			
	5	-05	0606405-03		x10	
	6	-06	Ifex			
7/3/06	7	6E070306-07	pest 50cc	8081EH	6G0302 Bad Injection	M
	8	-08	pest 50cc	8081EH	6G03012	

CONTROL NUMBER 60.0012-0602A

PAGE______

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE062806\002F0101.D Vial: 2
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE062806\002F0101.D\002R0101.D
Acq On : 28 Jun 06 08:51 AM Operator: [GC]2R01O1.D\DATA.MS
Sample : PEM Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 28 11:14 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.61	8.74	3050812	1038332	50.020	47.346
					Recovery	=	100.04%	94.69%
23)	S	Decachlorobiphenyl	18.10	20.73	1726698	790896	38.218m	33.360
					Recovery	=	76.44%	66.72%
		Target Compounds						
2)	M	Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3)	M	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	M	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.
5)	M	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6)	M	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	M	Heptachlor	0.00	0.00	0	0	N.D.d	N.D.d
8)	M	Aldrin	0.00	0.00	0	0	N.D.	N.D.
9)	M	Heptachlor Epoxide	0.00	0.00	0	0	N.D.d	N.D.d
10)	M	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	M	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
12)	M	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	M	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
14)	M	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15)	M	Endrin	14.02	15.33	4995048	1686458	122.195m	108.362m
16)	M	4,4'-DDD	14.13	15.45	140674	89115	3.871m	7.347m#
17)	M	Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18)	M	4,4'-DDT	14.58	15.97	4155611	1568111	106.949	110.541
19)	M	Endrin Aldehyde	15.10	16.25	9583	10187	1.205m	1.046m
20)	M	Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
21)	M	Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22)	M	Endrin Ketone	16.30	17.79	187907	56971	5.000	4.821m

$\frac{197490}{5192538} = 3.80\%$ DDT $\frac{140674}{4296285} = 3.27\%$.

$\frac{67158}{1753616} = 3.83\%$ DDT $\frac{89115}{1657226} = 5.38\%$

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE062806\003F0201.D Vial: 3
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE062806\003F0201.D\003R0201.D
Acq On : 28 Jun 06 09:47 AM Operator: [GC]3R0201.D\DATA.MS
Sample : PEST 50CC Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 28 11:11 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.61	8.73	3116116	1091062	51.088	49.719
					Recovery	=	102.18%	99.44%
3)	S	Decachlorobiphenyl	18.09	20.72	2419664	1144446	53.777m	48.727
					Recovery	=	107.55%	97.45%
		Target Compounds						
2)	M	Hexachlorobenzene	8.61	9.90	5097123	1902432	53.018m	50.827
3)	M	alpha-BHC	9.05	10.24	3881413	1288529	52.679	47.920
4)	M	gamma-BHC (Lindane)	9.77	11.01	3696531	1241152	53.925	48.622
5)	M	beta-BHC	9.99	11.19	1927013	677830	54.831	49.864
6)	M	delta-BHC	10.36	11.78	3571525	1146686	52.717	46.269
7)	M	Heptachlor	10.76	11.93	3358118	1156381	53.911	49.742
8)	M	Aldrin	11.35	12.56	3273194	1131802	53.845	49.291
9)	M	Heptachlor Epoxide	12.50	13.62	3084404	1109945	54.514	50.107
0)	M	gamma-Chlordane	12.72	13.95	3107343	1136534	53.904	50.705
1)	M	alpha-Chlordane	12.95	14.20	2941446	1149926	53.990	50.808
2)	M	4,4'-DDE	13.09	14.44	2839813	1118020	52.281	51.121
3)	M	Endosulfan I	13.20	14.33	3059275	1030407	54.348	49.933
4)	M	Dieldrin	13.62	14.80	2811036	1012488	53.331	49.060
5)	M	Endrin	14.02	15.33	2213349	749235	54.346	49.665
6)	M	4,4'-DDD	14.11	15.43	2497896	854941	54.793	49.633
7)	M	Endosulfan II	14.40	15.68	2503983	951012	55.333	47.814
8)	M	4,4'-DDT	14.58	15.97	1952691	637155	51.033	48.033
9)	M	Endrin Aldehyde	15.11	16.25	1897746	827677	52.481	49.632
0)	M	Methoxychlor	15.36	17.13	1057631	430257	51.418	48.217
1)	M	Endosulfan Sulfate	15.84	16.76	2125722	873019	50.778	48.914
2)	M	Endrin Ketone	16.32	17.82	2571166	1150620	52.467	50.229

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE062806\003F0301.D Vial: 3
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE062806\003F0301.D\003R0301.D
Acq On : 28 Jun 06 03:23 PM Operator: [GC]3R0301.D\DATA.MS
Sample : PEST 50CC Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 30 19:28 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.61	8.73	3211078	1124397	52.641	51.220
					Recovery	=	105.28%	102.44%
23)	S	Decachlorobiphenyl	18.09	20.72	2401390	1239460	53.367	52.857
					Recovery	=	106.73%	105.71%
		Target Compounds						
2)	M	Hexachlorobenzene	8.61	9.90	5174696	2000967	53.853	53.512
3)	M	alpha-BHC	9.05	10.23	4038914	1323876	54.765	49.120
4)	M	gamma-BHC (Lindane)	9.77	11.01	3768078	1270406	54.951	49.689
5)	M	beta-BHC	9.99	11.19	1966338	689782	55.948	50.726
6)	M	delta-BHC	10.35	11.78	3652826	1167136	53.883	47.027
7)	M	Heptachlor	10.76	11.92	3486434	1219596	55.940	52.316
8)	M	Aldrin	11.35	12.56	3373381	1161058	55.491	50.506
9)	M	Heptachlor Epoxide	12.50	13.61	3190772	1141412	56.403	51.500
10)	M	gamma-Chlordane	12.72	13.95	3212522	1168416	55.728	52.098
11)	M	alpha-Chlordane	12.95	14.20	3011952	1178436	55.300	52.051
12)	M	4,4'-DDE	13.09	14.44	2875082	1132445	52.933	51.759
13)	M	Endosulfan I	13.20	14.33	3140616	1057417	55.773	51.196
14)	M	Dieldrin	13.62	14.80	2905743	1042705	55.118	50.453
15)	M	Endrin	14.02	15.33	2262747	776001	55.551	51.341
16)	M	4,4'-DDD	14.11	15.43	2470888	877199	54.209	50.862
17)	M	Endosulfan II	14.40	15.68	2524087	979098	55.772	49.218
18)	M	4,4'-DDT	14.57	15.96	2015085	675298	52.617	50.594
19)	M	Endrin Aldehyde	15.11	16.25	1942213	854516	53.689	51.227
20)	M	Methoxychlor	15.36	17.13	1062551	455334	51.648	50.812
21)	M	Endosulfan Sulfate	15.84	16.76	2165378	901933	51.717	50.490
22)	M	Endrin Ketone	16.32	17.82	2627909	1201389	53.597	52.337

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE062806\003F0501.D Vial: 3
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE062806\003F0501.D\003R0501.D
Acq On : 28 Jun 06 07:07 PM Operator: [GC]TA.MS
Sample : PEST 50CC Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jul 3 14:04 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.61	8.73	3324224	1145026	54.491	52.148
					Recovery	=	108.98%	104.30%
23)	S	Decachlorobiphenyl	18.09	20.72	2678441	1273415	59.587m	54.333
					Recovery	=	119.17%	108.67%
		Target Compounds						
2)	M	Hexachlorobenzene	8.61	9.90	5112085	2018694	53.179	53.995
3)	M	alpha-BHC	9.05	10.23	4038162	1342500	54.755	49.753
4)	M	gamma-BHC (Lindane)	9.77	11.01	3841191	1277525	56.000	49.949
5)	M	beta-BHC	9.99	11.19	1994614	693875	56.750	51.021
6)	M	delta-BHC	10.35	11.78	3673229	1151579	54.175	46.450
7)	M	Heptachlor	10.76	11.92	3286295	1112685	52.775	47.963
8)	M	Aldrin	11.35	12.56	3466029	1181987	57.013	51.375
9)	M	Heptachlor Epoxide	12.50	13.61	3300825	1151853	58.357	51.962
10)	M	gamma-Chlordane	12.72	13.95	3386338	1176156	58.742	52.436
11)	M	alpha-Chlordane	12.95	14.20	3164139	1193363	58.129	52.701
12)	M	4,4'-DDE	13.09	14.44	2965857	1149117	54.612	52.496
13)	M	Endosulfan I	13.19	14.32	3273878	1068226	58.107	51.702
14)	M	Dieldrin	13.62	14.80	2963505	1057710	56.207	51.145
15)	M	Endrin	14.02	15.33	2262561	752987	55.547	49.900
16)	M	4,4'-DDD	14.11	15.43	2461080	869653	53.997	50.446
17)	M	Endosulfan II	14.40	15.68	2571119	970713	56.800	48.799
18)	M	4,4'-DDT	14.57	15.96	1811667	584292	47.453	44.483
19)	M	Endrin Aldehyde	15.11	16.25	1840477	790361	50.926	47.414
20)	M	Methoxychlor	15.36	17.13	921708	394849	45.080	44.553
21)	M	Endosulfan Sulfate	15.84	16.76	2132589	879589	50.940	49.272
22)	M	Endrin Ketone	16.32	17.81	2447153	1121460	49.997	49.018

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Pesticides Logbooks

ESS Organic Preparation Logbook

Project #: 0606383, 0606405
Prep Date: 6/27/06
Batch ID: PTXBF62729
Extraction Method: 3541

Surrogate ID#
A 6F09078
B N/A
C

Matrix Spike ID#
D 6F21098
E N/A
F

Analytical Matrix: Soil
Extraction Time:
Start: 18:00
Finish:

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
PTXBF62729-B	10.0	1	N/A	10	10	N/A	6/27/06	HO	N/A	N/A		MM	SD	M
BS	10.0	1	1	10	10									
BSD	10.0	1	1	10	10									
0606383-01	10.9	1	N/A	10	10									
-03	10.2	1		10	10									
-05	10.4	1		10	10									
-07	9.8	1		10	10									
-10	10.8	1	↓	10	10									
0606405-01	9.7	1	N/A	10	10									
01MS	10.1	1	1	10	10									
01MSD	9.7	1	1	10	10									
-02	9.6	1	N/A	10	10									
-03	10.2	1	N/A	10	10									
-04	10.1	1	N/A	10	10	N/A	6/27/06	HO	N/A	N/A		MM	SD	M

Analysis Performed
PCB ☐
B/N SVOA ☐
SVOA ☐
LL PAH ☐
PEST ☑
TPH/GC ☐
BIS-2 ☐
PAH ☐

Acid Washed: Y (N) H_2SO_4 ID# MM
Cu Cleaned: Y / N Cu ID# MM
Florisiled: Y (N) Lot# MM
Silica Column/Carbon prep: (Y) N Lot # 01805

CH_2Cl_2 lot # N/A
Hexane lot# 060914
NaOH ID# N/A
Na_2SO_4 ID# PRTI062606A

Method #(s): 8081

PCB
Data Package

PCB
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2401
Date Sampled: 06/22/06 16:35
Percent Solids: 40
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-01
Sample Matrix: Soil
Analyst: ML
Prepared: 06/27/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	125	1	06/28/06
Aroclor 1221	ND	ug/Kg dry	125	1	06/28/06
Aroclor 1232	ND	ug/Kg dry	125	1	06/28/06
Aroclor 1242	ND	ug/Kg dry	125	1	06/28/06
Aroclor 1248	ND	ug/Kg dry	125	1	06/28/06
Aroclor 1254	**207**	ug/Kg dry	125	1	06/28/06
Aroclor 1260	ND	ug/Kg dry	125	1	06/28/06
Aroclor 1262	ND	ug/Kg dry	125	1	06/28/06
Aroclor 1268	ND	ug/Kg dry	125	1	06/28/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*88 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*119 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*61 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*72 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2201
Date Sampled: 06/22/06 17:00
Percent Solids: 30
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-03
Sample Matrix: Soil
Analyst: ML
Prepared: 06/27/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	163	1	06/29/06
Aroclor 1221	ND	ug/Kg dry	163	1	06/29/06
Aroclor 1232	ND	ug/Kg dry	163	1	06/29/06
Aroclor 1242	ND	ug/Kg dry	163	1	06/29/06
Aroclor 1248	ND	ug/Kg dry	163	1	06/29/06
Aroclor 1254	ND	ug/Kg dry	163	1	06/29/06
Aroclor 1260	ND	ug/Kg dry	163	1	06/29/06
Aroclor 1262	ND	ug/Kg dry	163	1	06/29/06
Aroclor 1268	ND	ug/Kg dry	163	1	06/29/06

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*83 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*104 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*88 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2701
Date Sampled: 06/22/06 17:35
Percent Solids: 20
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-05
Sample Matrix: Soil
Analyst: ML
Prepared: 06/27/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	245	1	06/28/06
Aroclor 1221	ND	ug/Kg dry	245	1	06/28/06
Aroclor 1232	ND	ug/Kg dry	245	1	06/28/06
Aroclor 1242	ND	ug/Kg dry	245	1	06/28/06
Aroclor 1248	ND	ug/Kg dry	245	1	06/28/06
Aroclor 1254	ND	ug/Kg dry	245	1	06/28/06
Aroclor 1260	ND	ug/Kg dry	245	1	06/28/06
Aroclor 1262	ND	ug/Kg dry	245	1	06/28/06
Aroclor 1268	ND	ug/Kg dry	245	1	06/28/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*71 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*67 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*71 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2601
Date Sampled: 06/22/06 18:10
Percent Solids: 54
Initial Volume: 19.9
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-07
Sample Matrix: Soil
Analyst: ML
Prepared: 06/27/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	93.0	1	06/28/06
Aroclor 1221	ND	ug/Kg dry	93.0	1	06/28/06
Aroclor 1232	ND	ug/Kg dry	93.0	1	06/28/06
Aroclor 1242	ND	ug/Kg dry	93.0	1	06/28/06
Aroclor 1248	ND	ug/Kg dry	93.0	1	06/28/06
Aroclor 1254	ND	ug/Kg dry	93.0	1	06/28/06
Aroclor 1260	ND	ug/Kg dry	93.0	1	06/28/06
Aroclor 1262	ND	ug/Kg dry	93.0	1	06/28/06
Aroclor 1268	ND	ug/Kg dry	93.0	1	06/28/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*80 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*114 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*88 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2501
Date Sampled: 06/22/06 18:45
Percent Solids: 30
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-10
Sample Matrix: Soil
Analyst: ML
Prepared: 06/27/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	168	1	06/28/06
Aroclor 1221	ND	ug/Kg dry	168	1	06/28/06
Aroclor 1232	ND	ug/Kg dry	168	1	06/28/06
Aroclor 1242	ND	ug/Kg dry	168	1	06/28/06
Aroclor 1248	ND	ug/Kg dry	168	1	06/28/06
Aroclor 1254	ND	ug/Kg dry	168	1	06/28/06
Aroclor 1260	ND	ug/Kg dry	168	1	06/28/06
Aroclor 1262	ND	ug/Kg dry	168	1	06/28/06
Aroclor 1268	ND	ug/Kg dry	168	1	06/28/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*76 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*100 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*90 %*		*30-150*

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

PCB
Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch BF62729 - 3541										
Heptachlor	25.5	5.00	ug/Kg wet	25.0		102	40-140			
Heptachlor Epoxide	30.7	5.00	ug/Kg wet	25.0		123	40-140			
Hexachlorobenzene	15.8	5.00	ug/Kg wet	25.0		63	40-140			
Methoxychlor	30.0	5.00	ug/Kg wet	25.0		120	40-140			
Surrogate: Decachlorobiphenyl	*34.0*		ug/Kg wet	*25.0*		*136*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*28.8*		ug/Kg wet	*25.0*		*115*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*23.1*		ug/Kg wet	*25.0*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*21.8*		ug/Kg wet	*25.0*		*87*	*30-150*			
LCS Dup										
4,4´-DDD	26.2	5.00	ug/Kg wet	25.0		105	40-140	12	30	
4,4´-DDE	29.7	5.00	ug/Kg wet	25.0		119	40-140	2	30	
4,4´-DDT	30.4	5.00	ug/Kg wet	25.0		122	40-140	16	30	
Aldrin	25.6	5.00	ug/Kg wet	25.0		102	40-140	2	30	
alpha-BHC	22.5	5.00	ug/Kg wet	25.0		90	40-140	7	30	
alpha-Chlordane	29.6	5.00	ug/Kg wet	25.0		118	40-140	4	30	
beta-BHC	27.2	5.00	ug/Kg wet	25.0		109	40-140	0.7	30	
delta-BHC	14.8	5.00	ug/Kg wet	25.0		59	40-140	1	30	
Dieldrin	28.7	5.00	ug/Kg wet	25.0		115	40-140	7	30	
Endosulfan I	28.4	5.00	ug/Kg wet	25.0		114	40-140	0.7	30	
Endosulfan II	27.5	5.00	ug/Kg wet	25.0		110	40-140	0.4	30	
Endosulfan Sulfate	23.9	5.00	ug/Kg wet	25.0		96	40-140	2	30	
Endrin	29.2	5.00	ug/Kg wet	25.0		117	40-140	10	30	
Endrin Aldehyde	24.4	5.00	ug/Kg wet	25.0		98	40-140	3	30	
Endrin Ketone	25.9	5.00	ug/Kg wet	25.0		104	40-140	0.4	30	
gamma-BHC (Lindane)	24.8	5.00	ug/Kg wet	25.0		99	40-140	2	30	
gamma-Chlordane	32.1	5.00	ug/Kg wet	25.0		128	40-140	6	30	
Heptachlor	25.6	5.00	ug/Kg wet	25.0		102	40-140	0.4	30	
Heptachlor Epoxide	29.5	5.00	ug/Kg wet	25.0		118	40-140	4	30	
Hexachlorobenzene	11.2	5.00	ug/Kg wet	25.0		45	40-140	34	30	+
Methoxychlor	27.1	5.00	ug/Kg wet	25.0		108	40-140	10	30	
Surrogate: Decachlorobiphenyl	*30.3*		ug/Kg wet	*25.0*		*121*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*27.6*		ug/Kg wet	*25.0*		*110*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*23.4*		ug/Kg wet	*25.0*		*94*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*20.4*		ug/Kg wet	*25.0*		*82*	*30-150*			
8082 Polychlorinated Biphenyls (PCB)										
Batch BF62701 - 3541										
Blank										
Aroclor 1016	ND	33.3	ug/Kg wet							
Aroclor 1221	ND	33.3	ug/Kg wet							
Aroclor 1232	ND	33.3	ug/Kg wet							
Aroclor 1242	ND	33.3	ug/Kg wet							
Aroclor 1248	ND	33.3	ug/Kg wet							
Aroclor 1254	ND	33.3	ug/Kg wet							
Aroclor 1260	ND	33.3	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch BF62701 - 3541										
Aroclor 1262	ND	33.3	ug/Kg wet							
Aroclor 1268	ND	33.3	ug/Kg wet							
Surrogate: Decachlorobiphenyl	*17.8*		ug/Kg wet	*16.7*		*107*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*16.8*		ug/Kg wet	*16.7*		*101*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*15.2*		ug/Kg wet	*16.7*		*91*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.4*		ug/Kg wet	*16.7*		*92*	*30-150*			
LCS										
Aroclor 1016	341	33.3	ug/Kg wet	333		102	40-140			
Aroclor 1260	328	33.3	ug/Kg wet	333		98	40-140			
Surrogate: Decachlorobiphenyl	*17.9*		ug/Kg wet	*16.7*		*107*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*17.0*		ug/Kg wet	*16.7*		*102*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*15.8*		ug/Kg wet	*16.7*		*95*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.5*		ug/Kg wet	*16.7*		*93*	*30-150*			
LCS Dup										
Aroclor 1016	341	33.3	ug/Kg wet	333		102	40-140	0	50	
Aroclor 1260	327	33.3	ug/Kg wet	333		98	40-140	0.3	50	
Surrogate: Decachlorobiphenyl	*17.7*		ug/Kg wet	*16.7*		*106*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*17.0*		ug/Kg wet	*16.7*		*102*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*16.0*		ug/Kg wet	*16.7*		*96*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.7*		ug/Kg wet	*16.7*		*94*	*30-150*			
8100M Total Petroleum Hydrocarbons										
Batch BF62724 - 3541										
Blank										
Total Petroleum Hydrocarbons	ND	37.5	mg/kg wet							
Surrogate: O-Terphenyl	*5.40*		mg/kg wet	*5.00*		*108*	*40-140*			
LCS										
Total Petroleum Hydrocarbons	993	37.5	mg/kg wet	1000		99	40-140			
Surrogate: O-Terphenyl	*5.81*		mg/kg wet	*5.00*		*116*	*40-140*			
LCS Dup										
Total Petroleum Hydrocarbons	921	37.5	mg/kg wet	1000		92	40-140	8	50	
Surrogate: O-Terphenyl	*5.35*		mg/kg wet	*5.00*		*107*	*40-140*			
8260B Volatile Organic Compounds										
Batch BF62823 - 5030B										
Blank										
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
1,1-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	1.0	ug/L							

783

PCB
Calibration Data

ANALYSIS SEQUENCE

BPG0242

Instrument: SVOAGC5

Calibnration ID: ~~UNASSIGNED~~ 5082CX

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0242-CAL1	QC		1		6F14043		
BPG0242-CAL2	QC		2		6F14044		
BPG0242-CAL3	QC		3		6F14045		
BPG0242-CAL4	QC		4		6F14046		
BPG0242-CAL5	QC		5		6F14047		
BPG0242-CAL6	QC		6		6F14048		
BPG0242-CAL7	QC		7		6F14051		
BPG0242-CAL8	QC		8		6F14053		
BPG0242-CAL9	QC		9		6F14055		
BPG0242-CALA	QC		10		6F14057		
BPG0242-CALB	QC		11		6F14059		
BPG0242-CALC	QC		12		6F14061		
BPG0242-CALD	QC		13		6F14063		
BPG0242-SCV1	QC		14		6F14049		
BPG0242-SCV2	QC		15		6F14052		
BPG0242-SCV3	QC		16		6F14054		
BPG0242-SCV4	QC		17		6F14056		
BPG0242-SCV5	QC		18		6F14058		
BPG0242-SCV6	QC		19		6F14060		
BPG0242-SCV7	QC		20		6F14062		
BPG0242-SCV8	QC		21		6F14064		

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II **Y-Split Dual End**

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/21/06	91	G6062106B-91	1660CC	8082CW	6F20058	M
	92	-92	1242CC		59	
	93	-93	1248CC		60	
	94	-94	1254CC		61	
6/21/06	91	G6062106 -91	1660CC	8082CW	6F20058 1260 High Sample ID 0222	
6/22/06	96	G6062206-96	Hex	8082CW		
	97	-97	1660CC		6F23058	
	98	-98	1242CC		59	
	99	-99	1248CC		60	
~~6/22/06~~	~~100~~	~~G6062206-100~~	~~1254CC~~	~~8082CW~~	6F23061	
6/23/06	96	G6062306-96	Hex	8082CW		
	97	-97	1660CC		6F23058	
	98	-98	1242CC		59	
	99	-99	1248CC		60	
	100	-100	1254CC		61	
6/23/06	97	G6062306 -97	1660CC	8082CW	6F23058	
6/23/06	1	G6062306A-01	1660CC	8082 CF	6F23058	
	1	-01	1660CC		6F23058	
	2	-02	1660 50		6F14043	
	3	-03	100		44	
	4	-04	500		45	
	5	-05	1000		46	
	6	-06	1600		47	
	7	-07	2000		48	
	8	-08	55		49	
	9	-09	55		49 50 6/23/06	
	10	-10	1221		51	
	11	-11	1221 SS		52	
	12	-12	1232		53	
6/23/06	13	G6062306A -13	1232SS	8082CF	54	

CONTROL NUMBER 60.0031-0603A

PAGE________

02

ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/23/06	14	60622306A-14	1242	8082A	BF24055	
	15	-15	124253		56	
	16	-16	1245		57	
	17	-17	124551		58	
	18	-18	1259		59	
	19	-19	125953		60	
	20	-20	1262		61	
	21	-21	126251		62	
	22	-22	1268		63	
6/23/06	23	60062348 -23	126853	8082A	BF246 64	
6/26/06	1	60062606-01	1164	8082A		
	2	-02	16604		BF23058 INT: 1835	
	3	-03	12424		59	
	4	-04	12484		60	
	5	-05	12512		61	
	6	-06	BF62215-BLK		cu cleaned	
	7	-07	-BS1			
	8	-08	-BSD1			
	9	-09	0606332-01		60	
	10	-10	-02		60 42 RR45	
	11	-11	-03		42 60 13	
	12	-12	-04		x20 60 42	
	13	-13	-04MS		x20	
	14	-14	-04MS0		x20	
	15	-15	-04MS1			
	16	-16	-04MS1			
	17	-17	0606332-05		x5 42 cu cleaned	
	56	-56	1164			
	57	-57	16604		BF23058	
6/26/06	58	60626606 -58	12424	8082A	59	

CONTROL NUMBER 60.0031-0603A PAGE_______

Method : Q:\SVOA\GC5_GG\METHODS\8082CX.M
Title :
Last Update : Mon Jul 10 09:21:55 2006
Response via : Initial Calibration

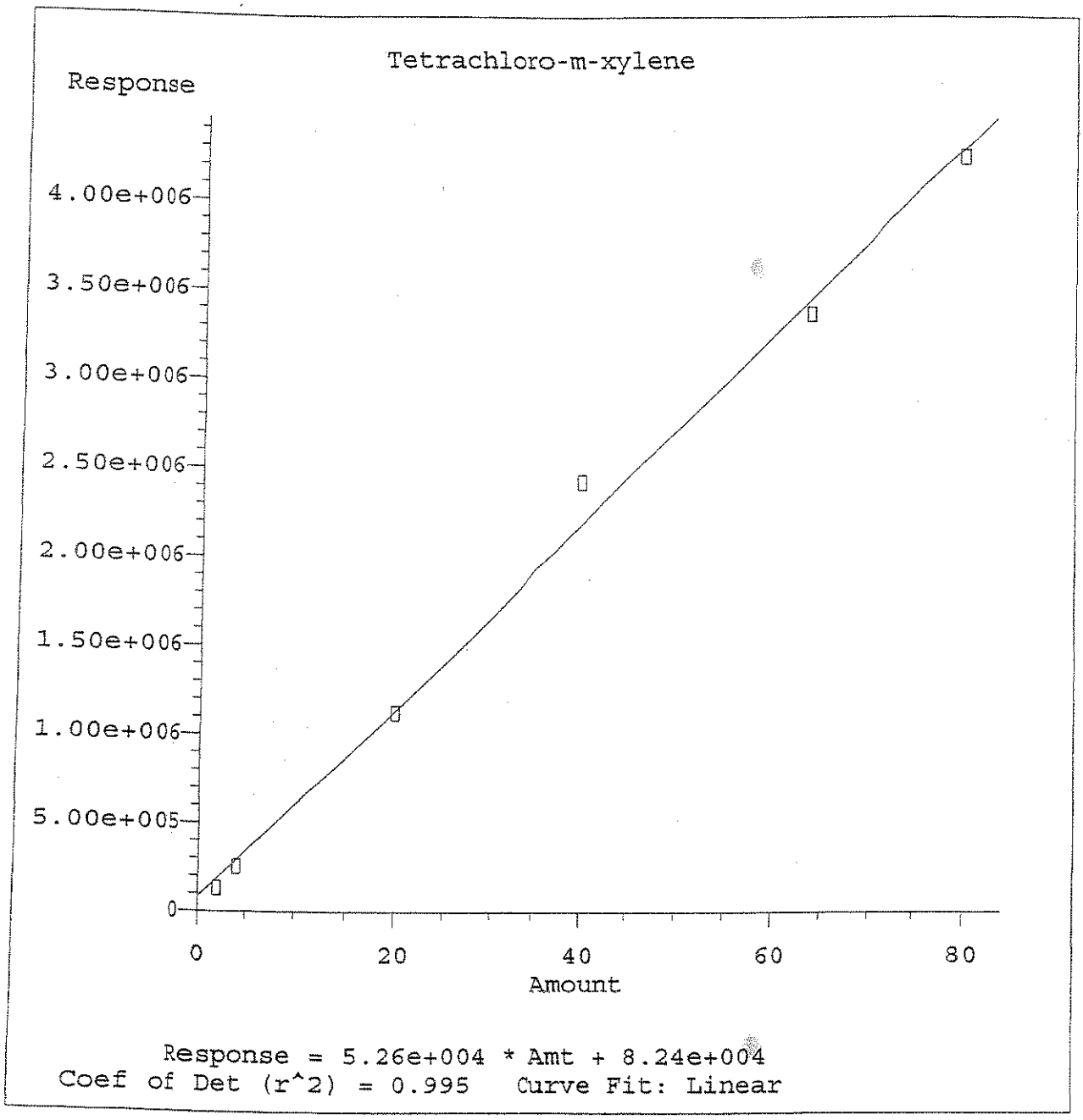
Calibration Files
500 =004F0201.D 2000 =007F0201.D 50 =002F0201.D
100 =003F0201.D 1000 =002F0101.D 1600 =006F0201.D

	Compound	500	2000	50	100	1000	1600	Avg		%RSD
1)	S Tetrachloro-m-xylen	56.2	53.1	65.2	63.2	60.6	52.6	58.5	E3	9.10
2)	LM1 AR1016 (1)	1.2	1.1	1.4	1.3	1.2	1.1	1.2	E3	10.36
3)	LM1 AR1016 (2)	2.2	1.7	3.0	3.1	2.0	1.8	2.3	E3	25.30
4)	LM1 AR1016 (3)	4.1	3.3	6.1	6.0	3.9	3.4	4.5	E3	28.19
5)	LM1 AR1016 (4)	1.1	1.0	1.4	1.4	1.1	1.0	1.2	E3	17.09
6)	LM1 AR1016 (5)	1.1	0.8	0.9	0.9	1.0	0.9	0.9	E3	8.44
7)	LM2 AR1260 (1)	3.1	2.3	4.4	4.2	2.7	2.4	3.2	E3	29.37
8)	LM2 AR1260 (2)	7.3	5.8	8.8	9.3	6.8	6.0	7.4	E3	19.39
9)	LM2 AR1260 (3)	2.5	2.0	2.7	2.8	2.4	2.1	2.4	E3	13.19
10)	LM2 AR1260 (4)	940.1	811.8	984.3	939.8	962.9	833.3	912.0		7.85
11)	LM2 AR1260 (5)	1.6	1.3	2.1	2.0	1.5	1.5	1.7	E3	17.50
12)	S Decachlorobiphenyl	55.8	41.9	77.4	69.3	50.3	43.5	56.4	E3	25.39

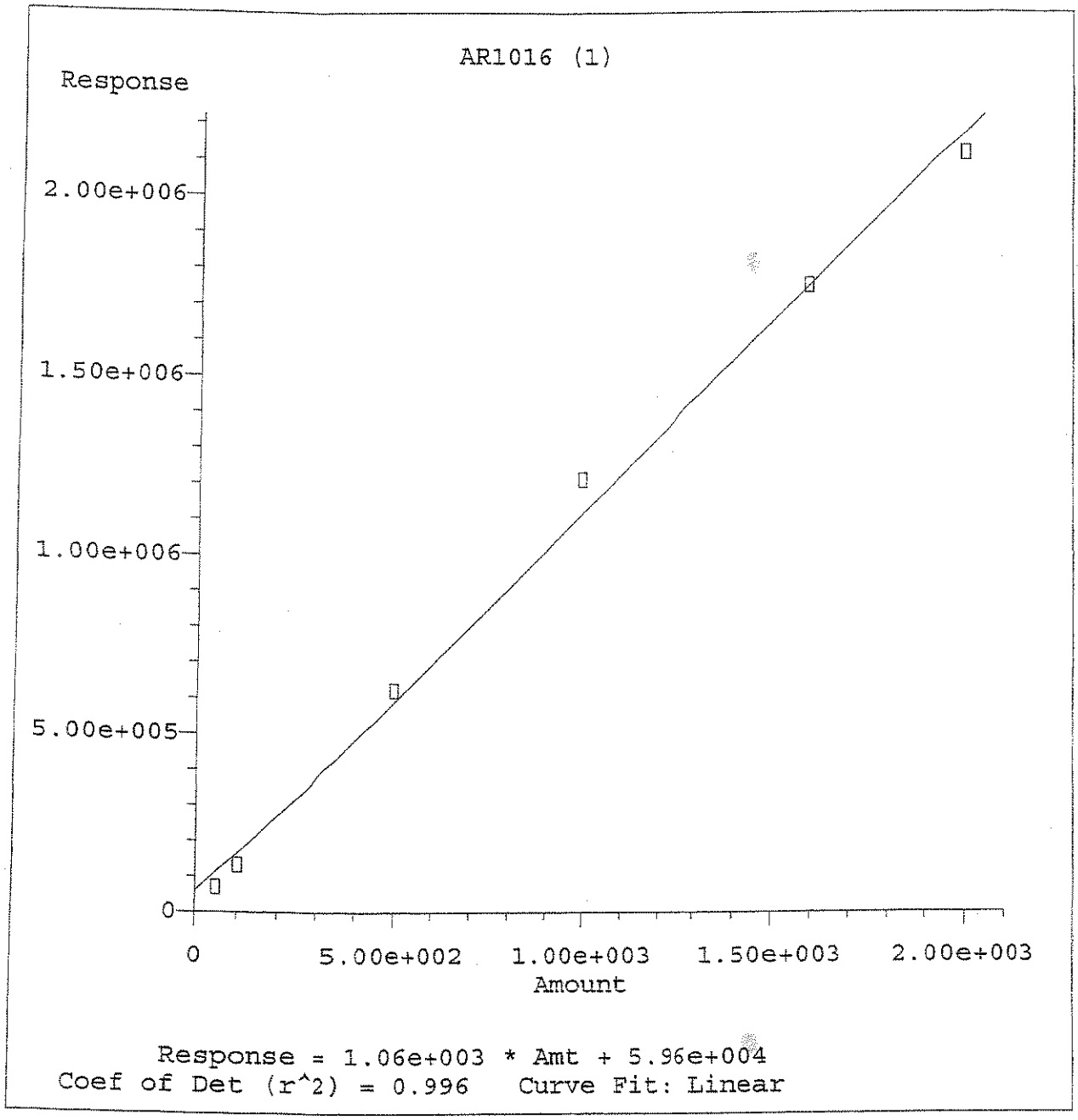
Signal #2 Calibration Files
500 =004R0201.D 2000 =007R0201.D 50 =002R0201.D
100 =003R0201.D 1000 =002R0101.D 1600 =006R0201.D

	Compound	500	2000	50	100	1000	1600	Avg		%RSD
1)	S Tetrachloro-m-xylen	52.2	46.3	55.7	52.8	50.5	47.0	50.7	E3	7.10
2)	LM1 AR1016 (1)	1.3	1.1	1.3	1.3	1.2	1.1	1.2	E3	8.14
3)	LM1 AR1016 (2)	2.1	1.7	2.4	2.4	1.9	1.7	2.0	E3	16.32
4)	LM1 AR1016 (3)	4.2	3.4	4.3	5.2	3.9	3.5	4.1	E3	16.23
5)	LM1 AR1016 (4)	1.5	1.3	1.4	1.5	1.5	1.4	1.4	E3	6.48
6)	LM1 AR1016 (5)	1.2	1.0	1.6	1.4	1.1	1.0	1.2	E3	19.09
7)	LM2 AR1260 (1)	3.3	2.7	4.4	4.2	3.1	2.8	3.4	E3	21.08
8)	LM2 AR1260 (2)	2.3	2.0	2.9	2.7	2.2	2.0	2.4	E3	15.34
9)	LM2 AR1260 (3)	5.1	4.4	5.9	5.5	4.9	4.4	5.0	E3	12.16
10)	LM2 AR1260 (4)	3.2	2.6	3.8	3.6	3.1	2.9	3.2	E3	14.04
11)	LM2 AR1260 (5)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	E3	3.10
12)	S Decachlorobiphenyl	45.0	36.3	54.3	51.0	42.1	37.4	44.3	E3	16.31

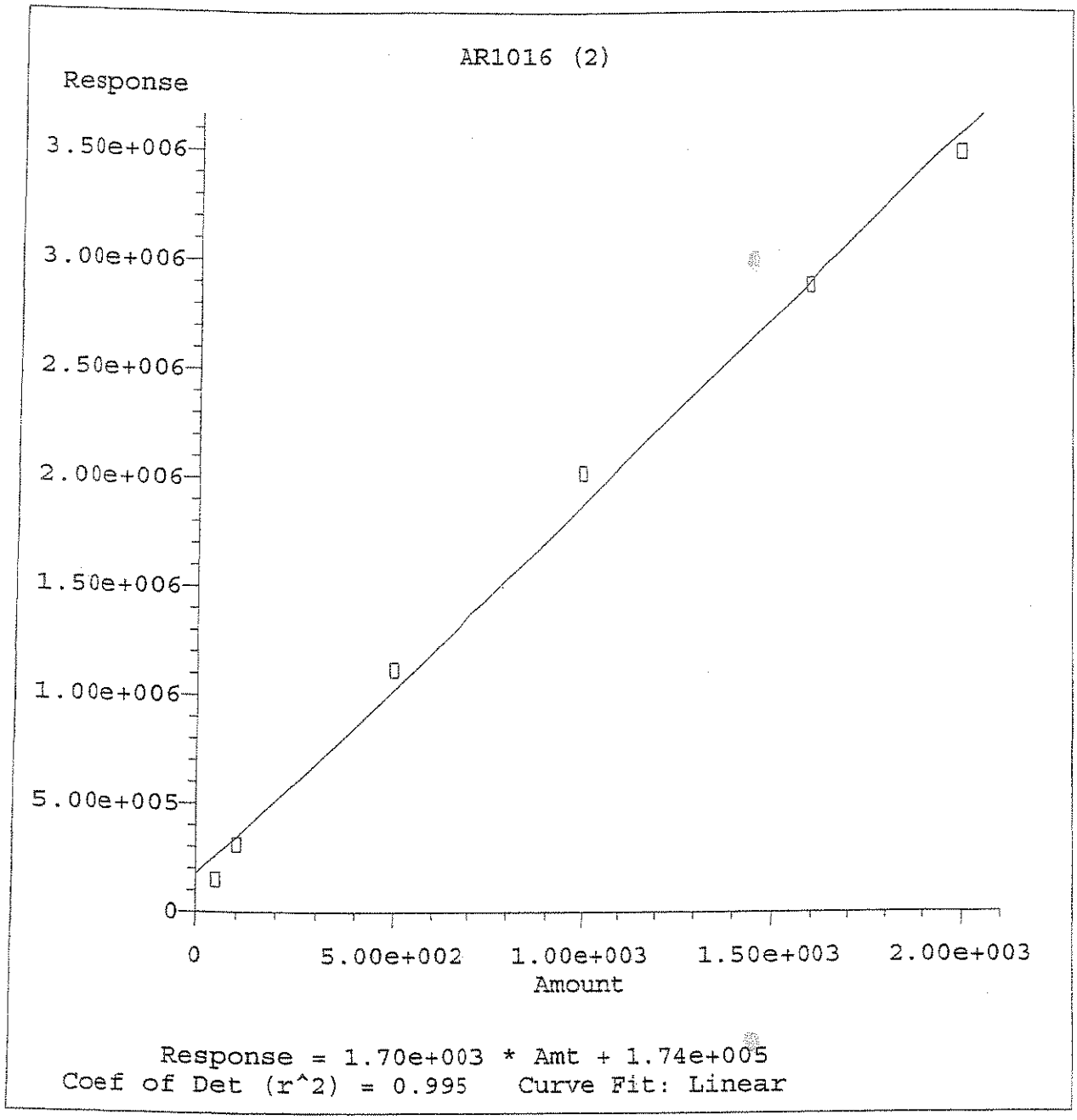
(#) = Out of Range



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



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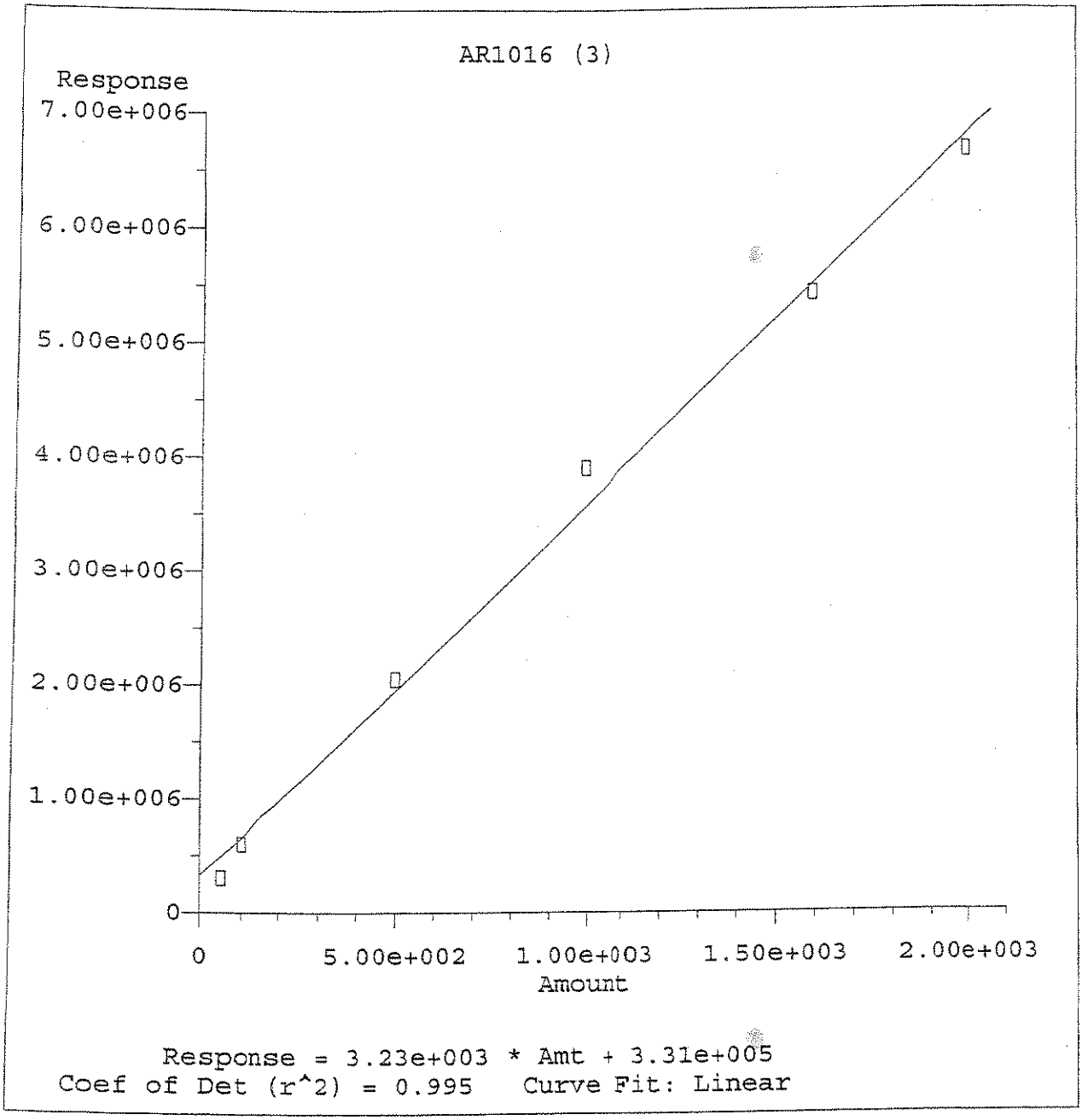
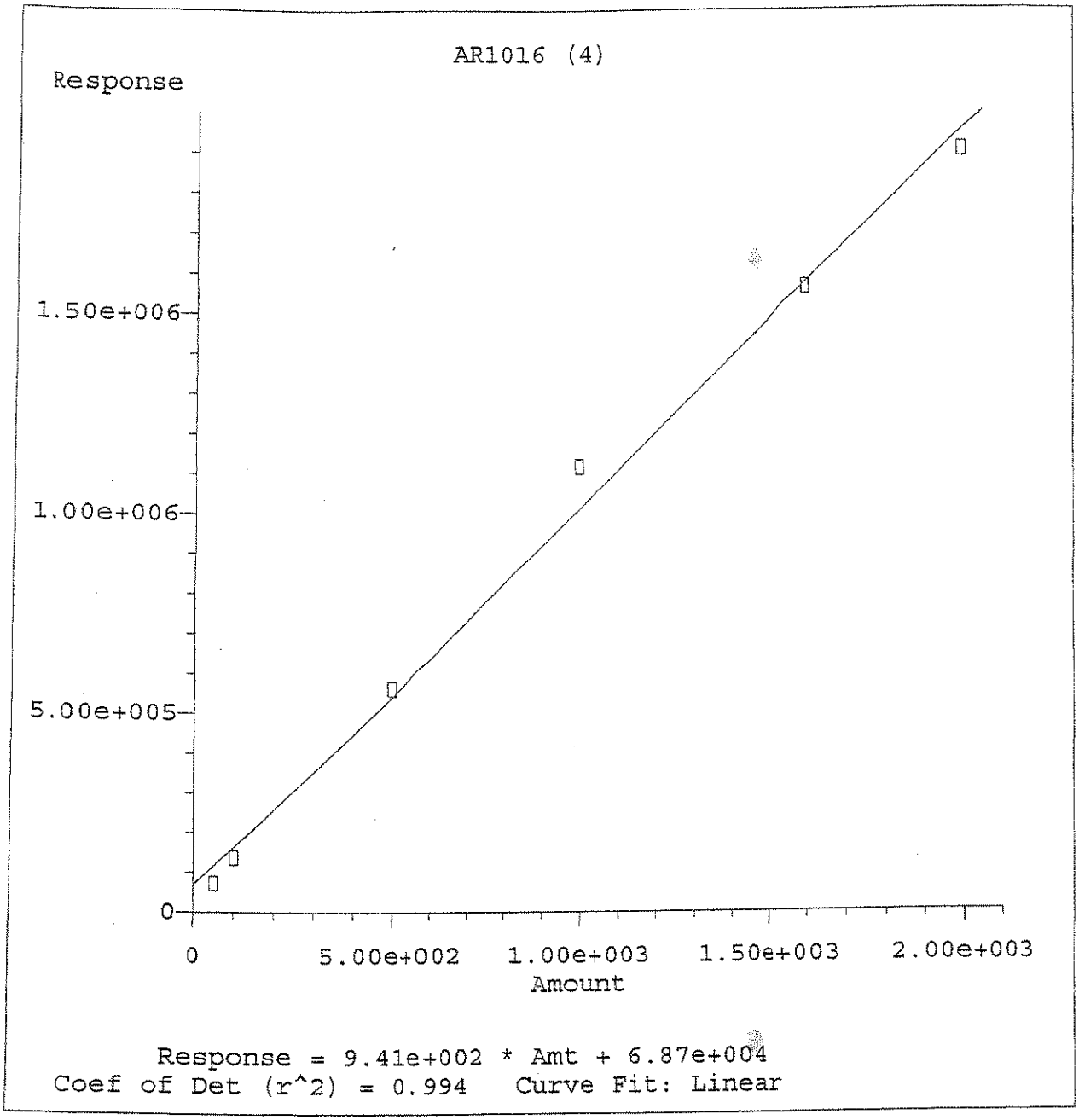
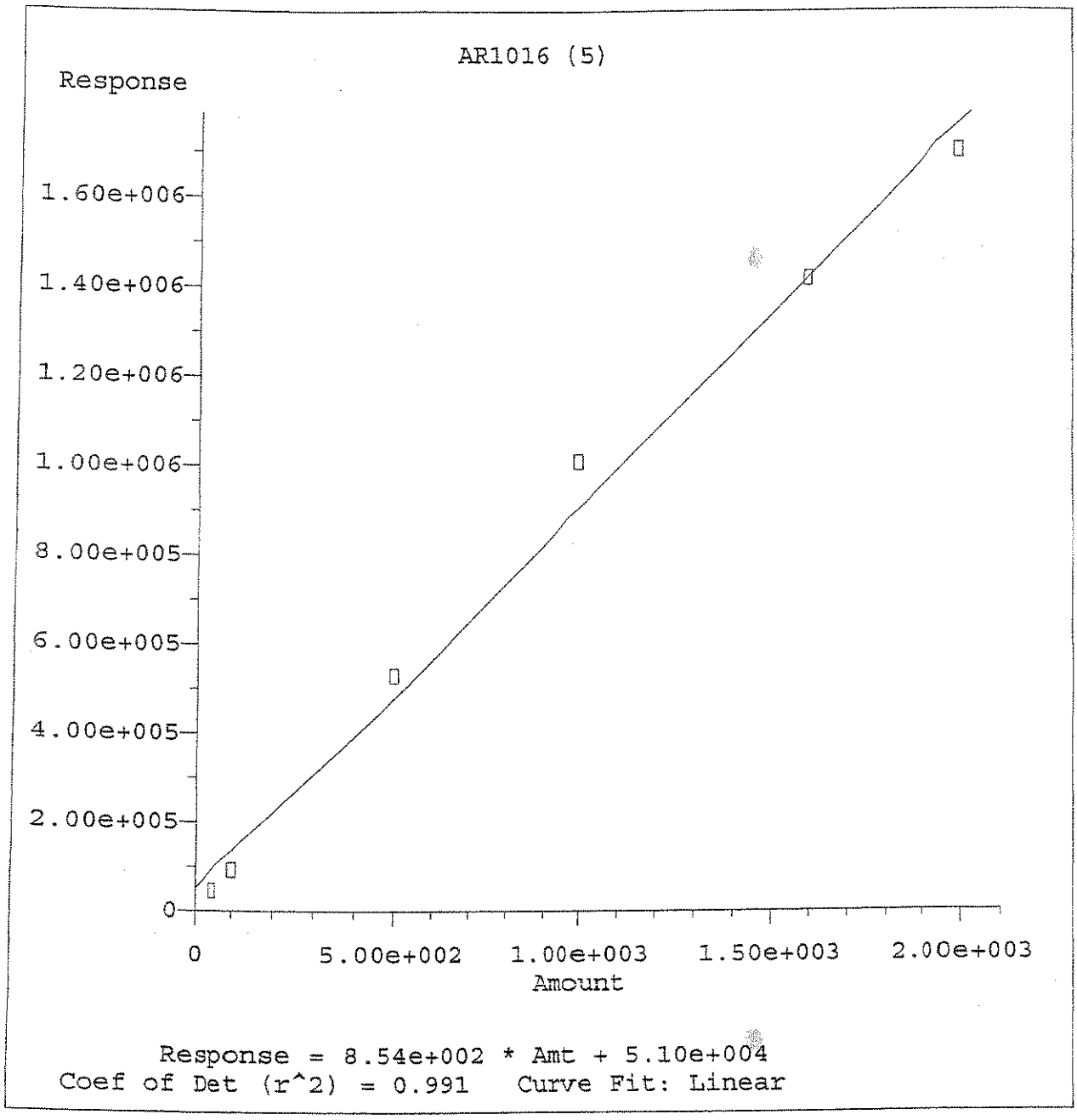
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



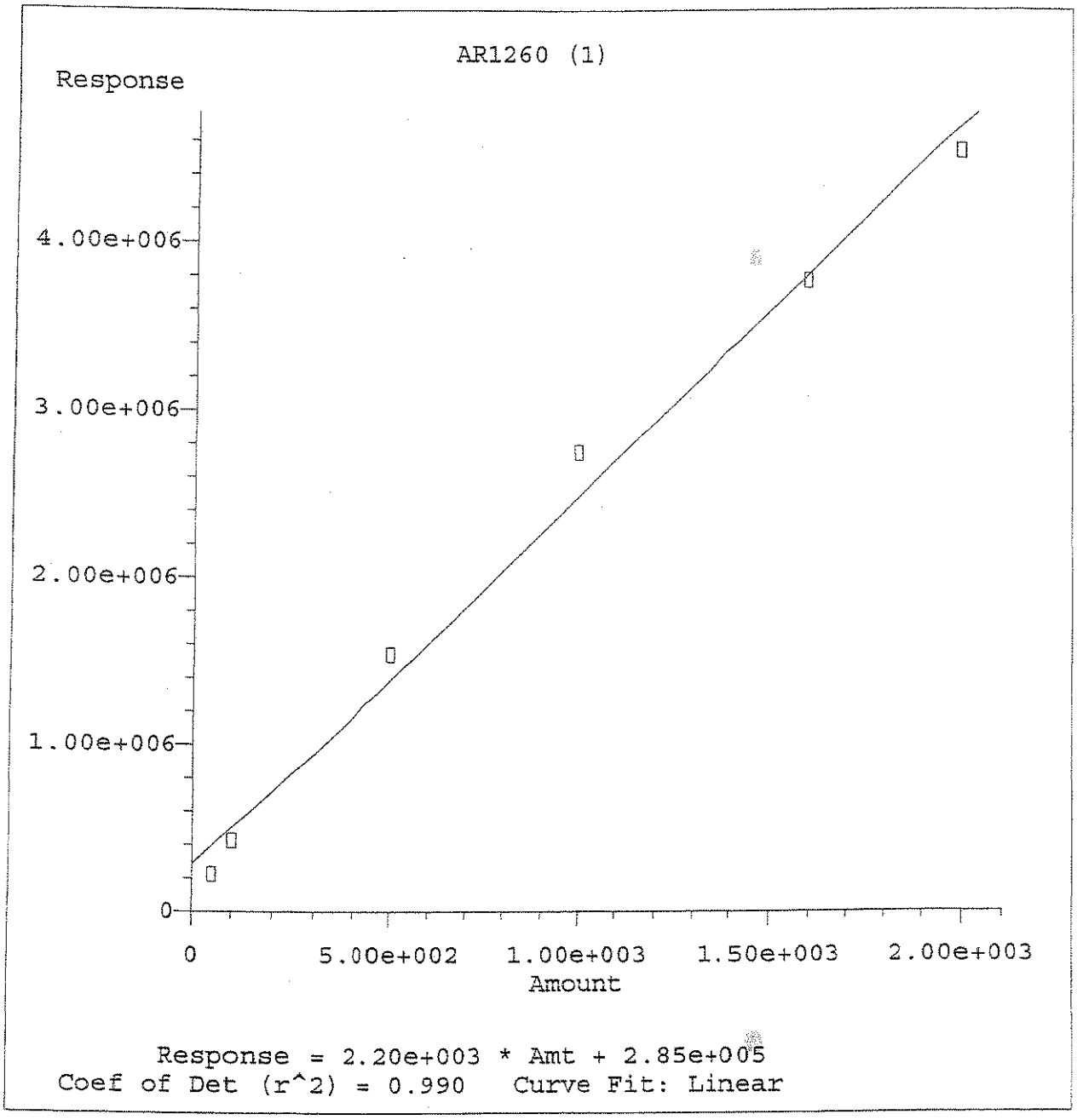
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



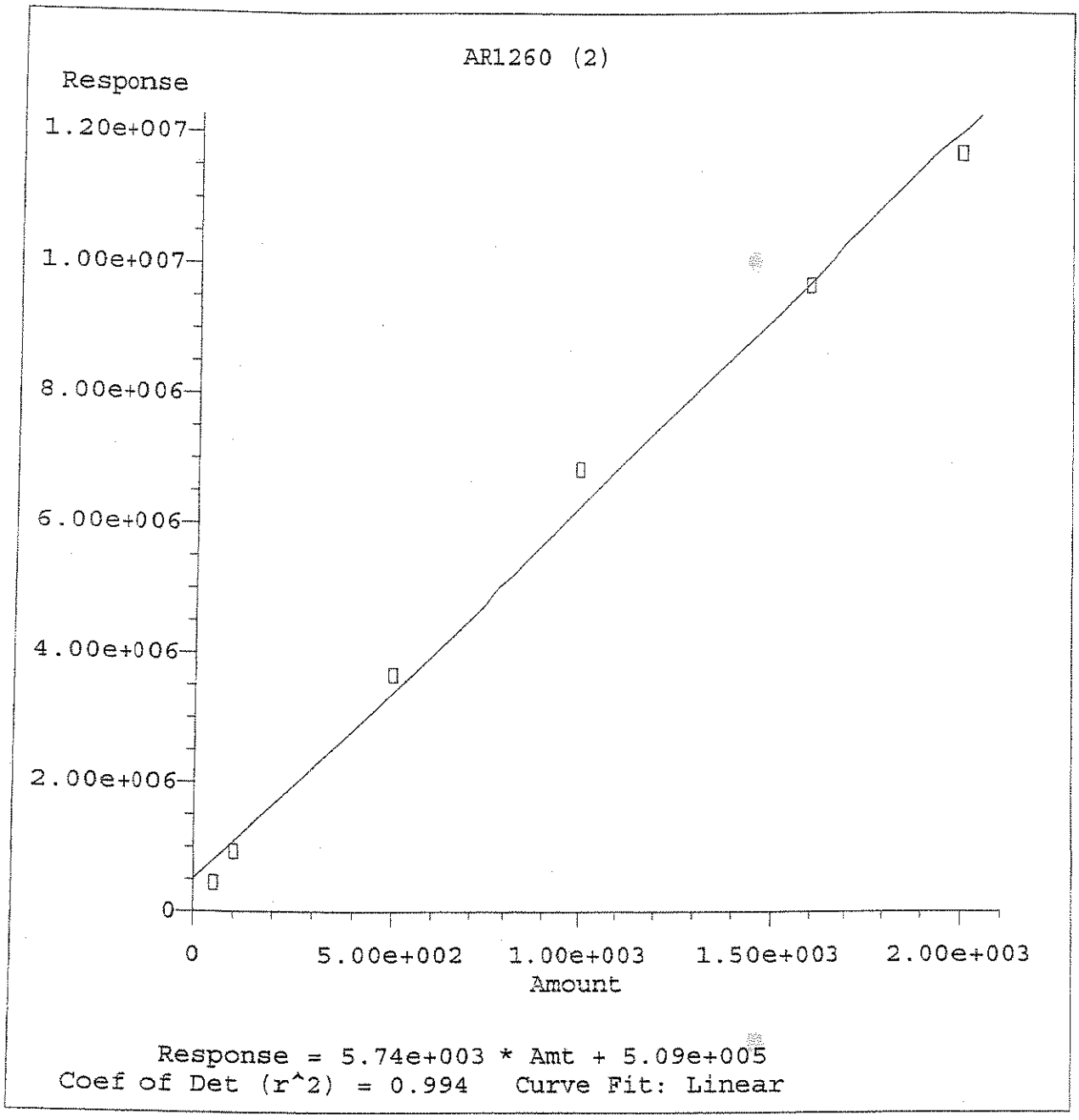
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



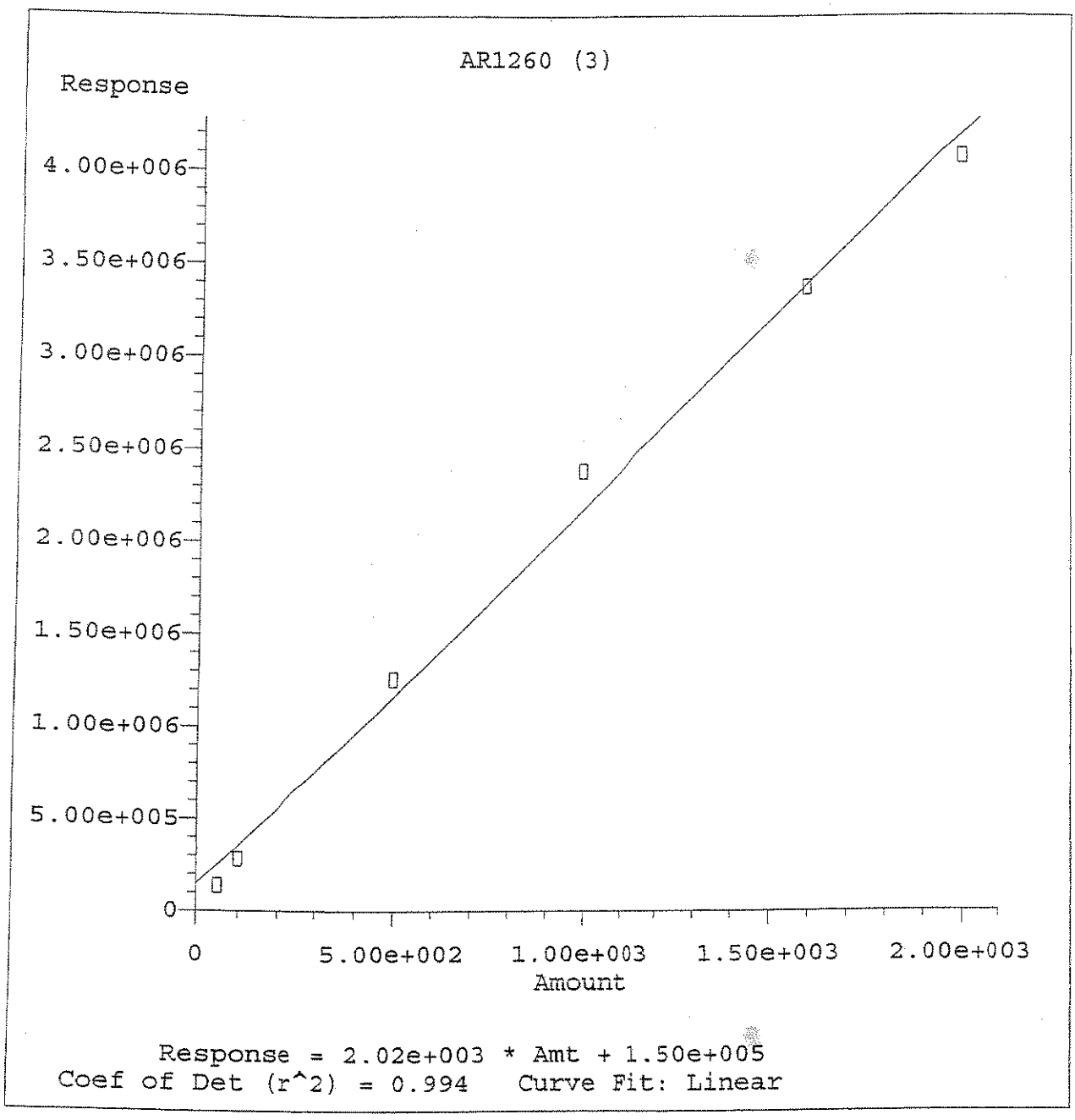
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



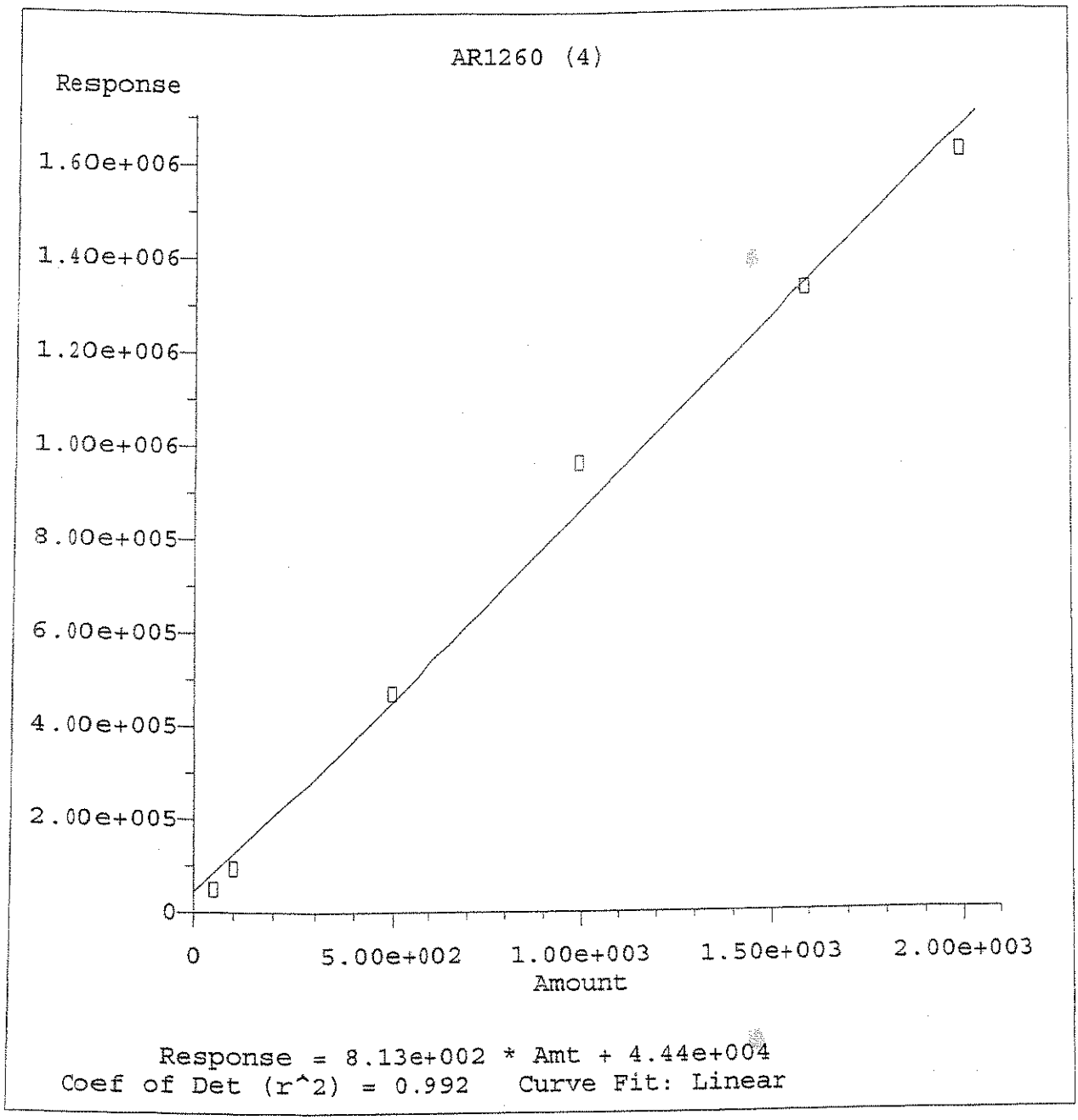
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



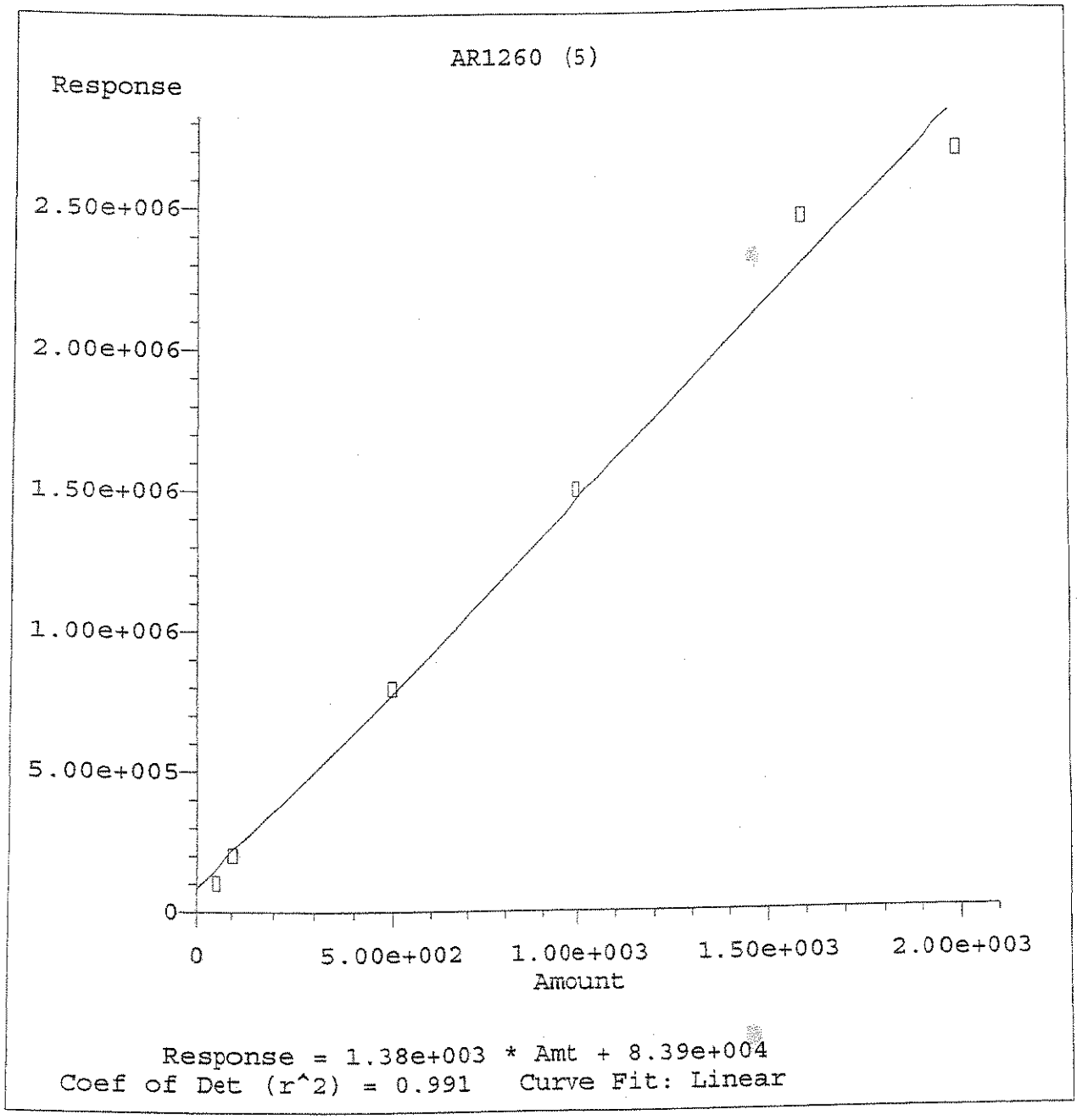
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



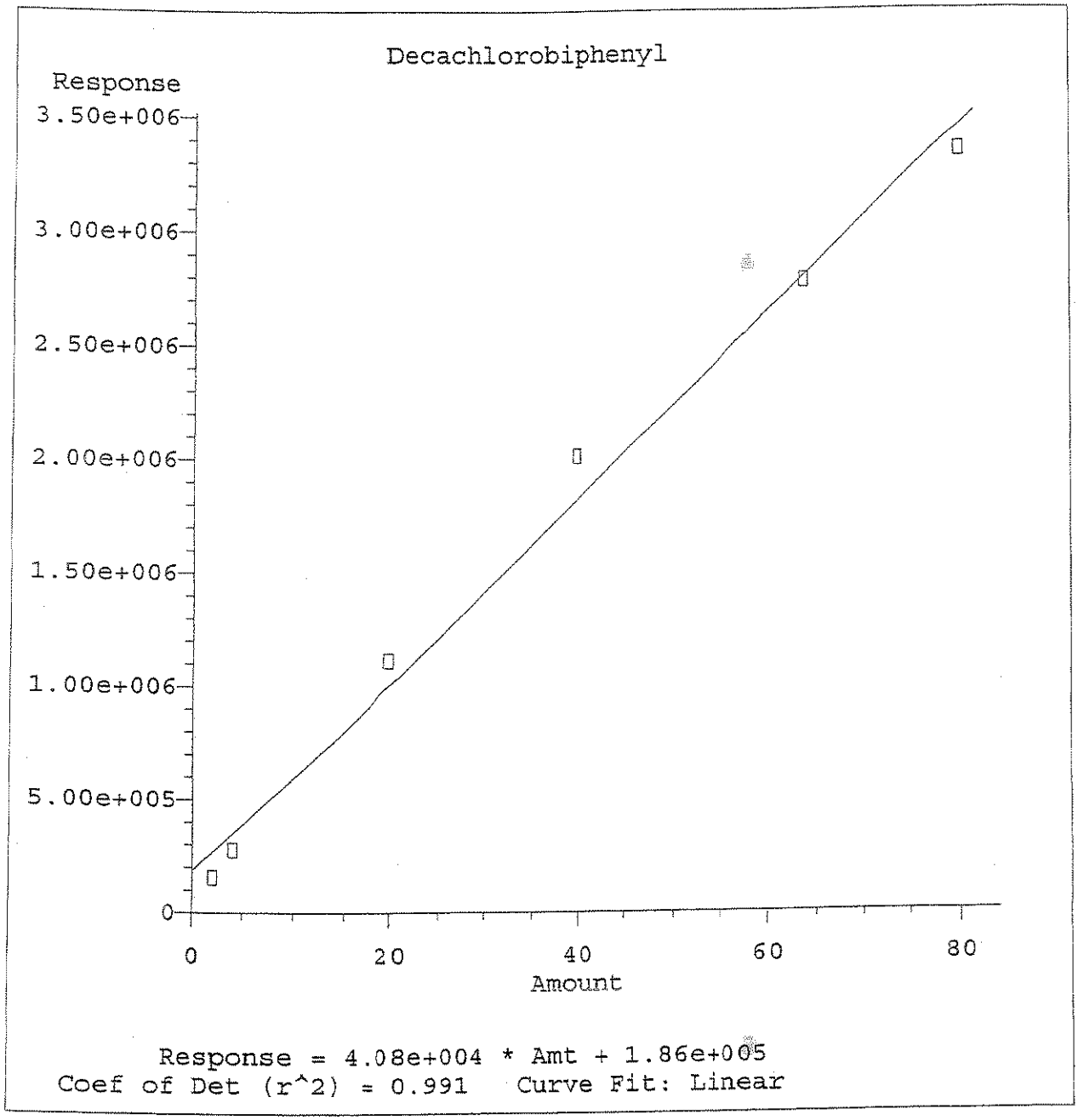
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



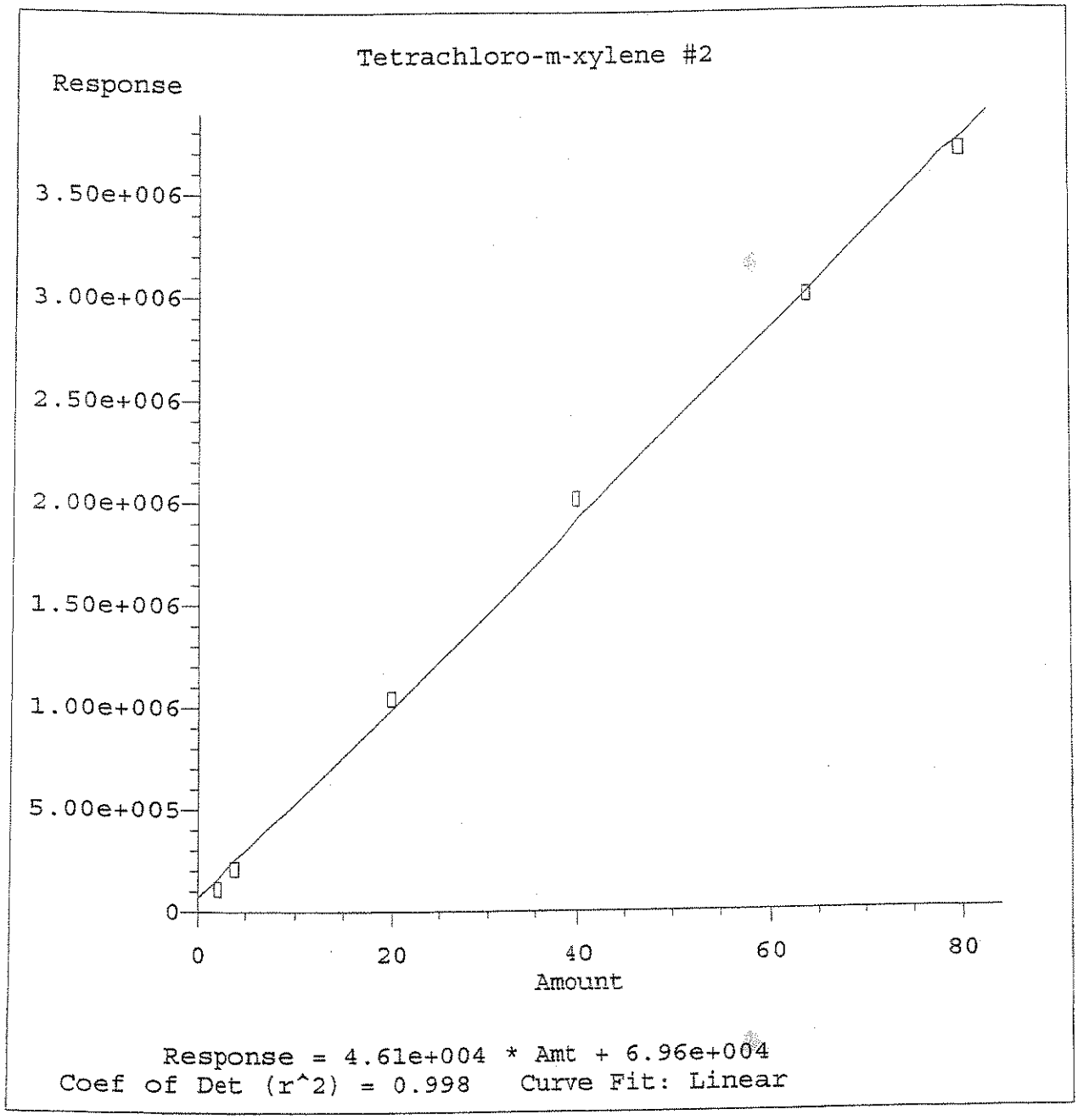
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



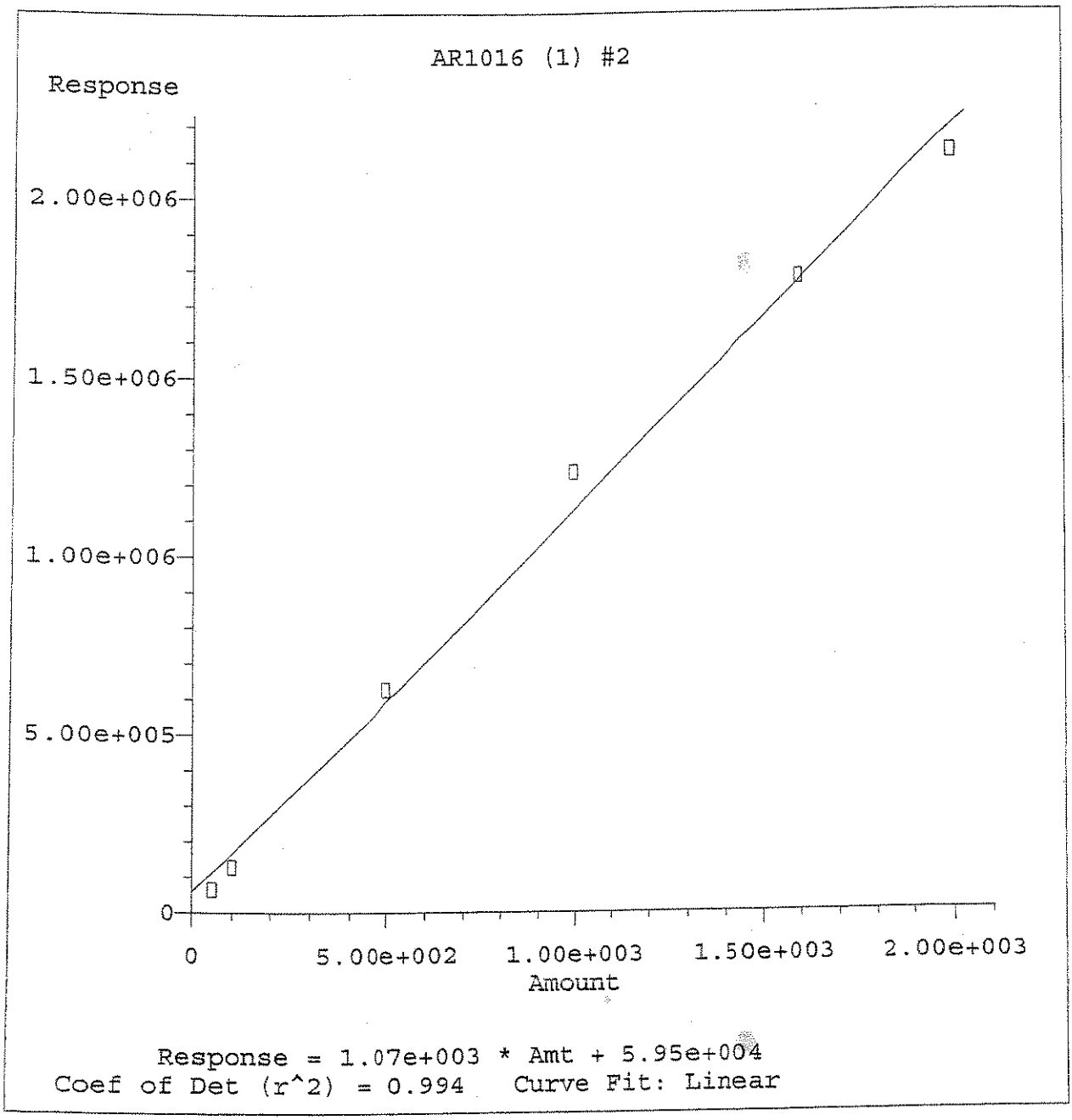
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



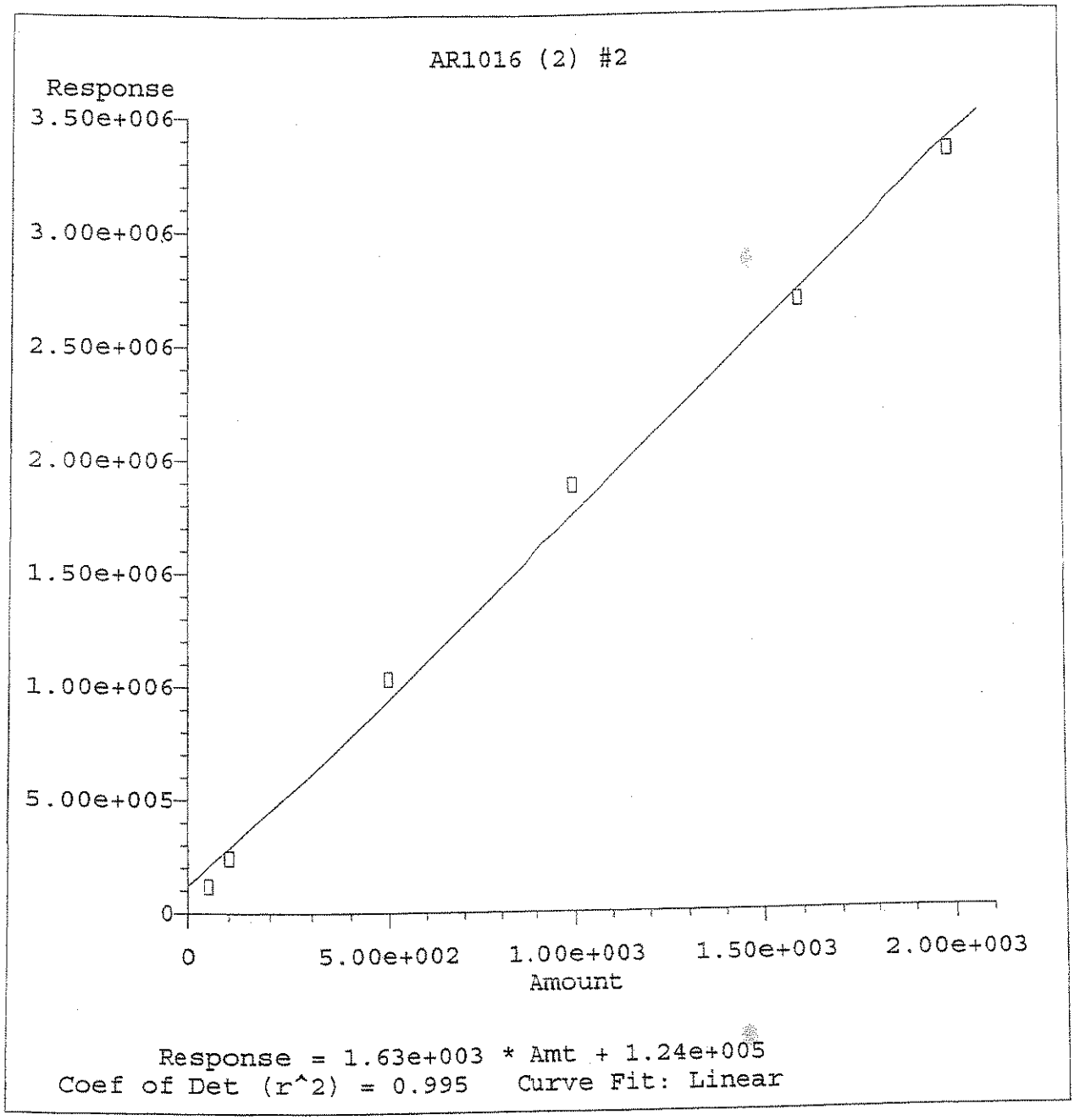
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



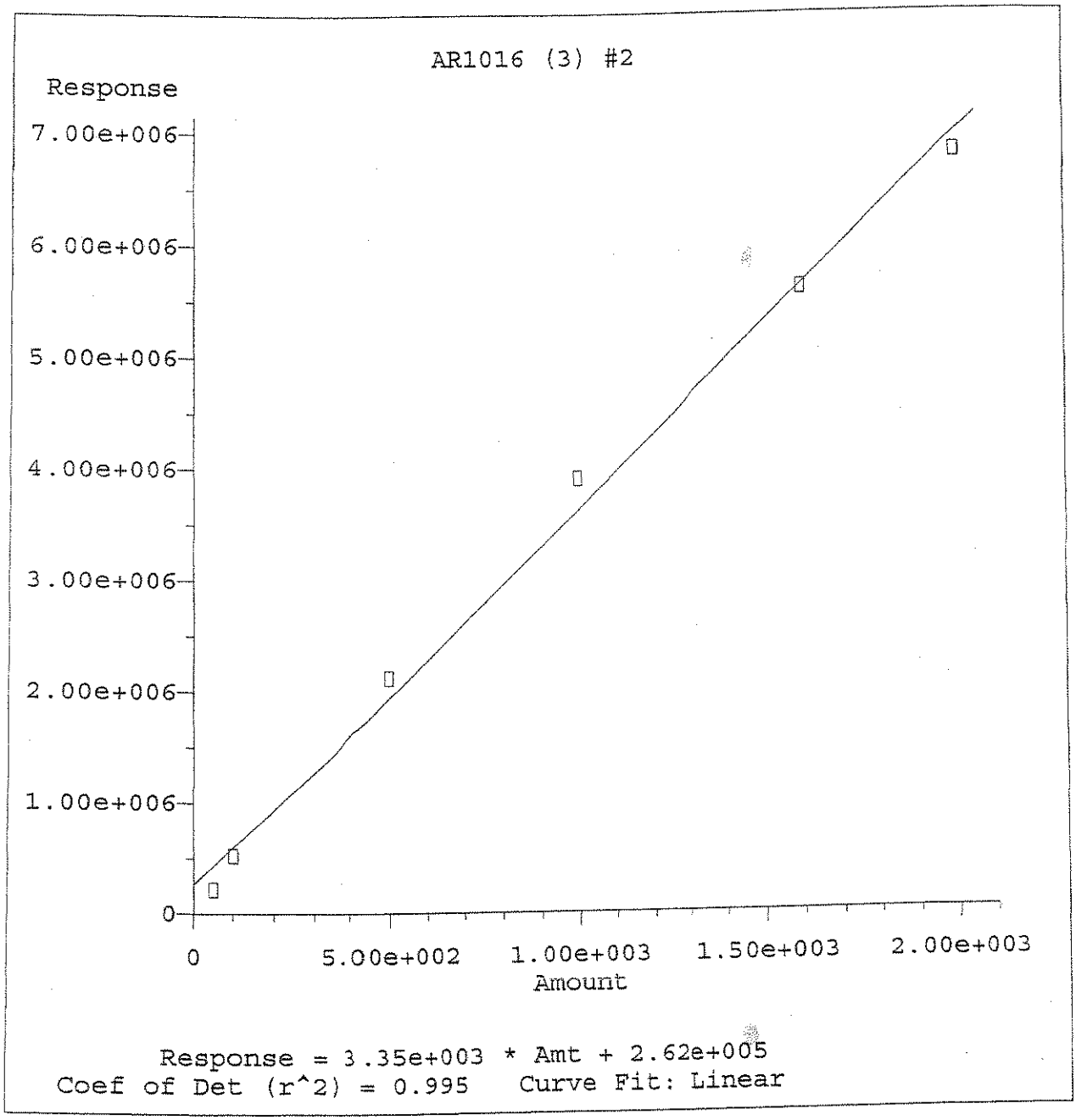
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



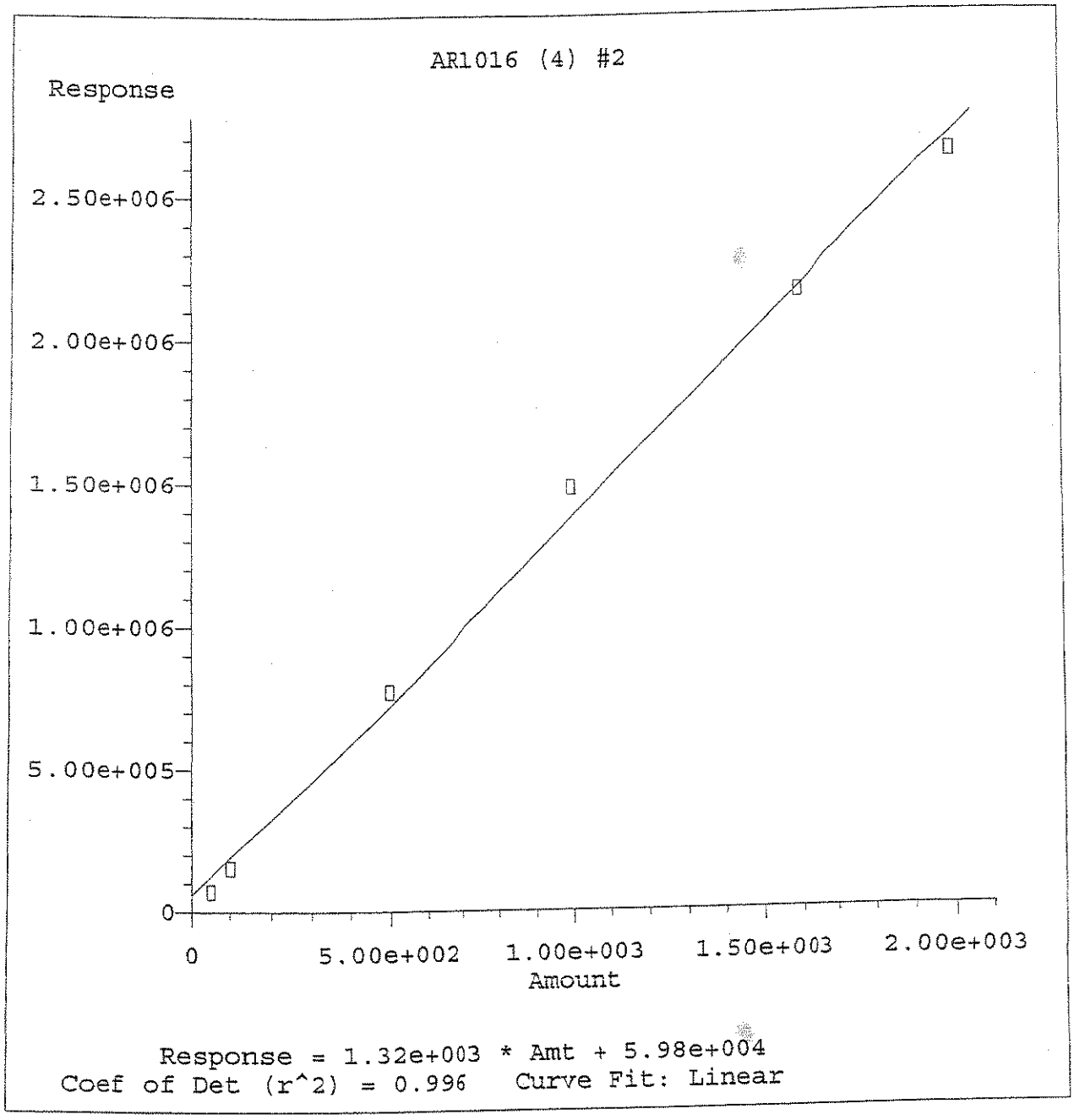
Method Name: Q:\SV0A\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



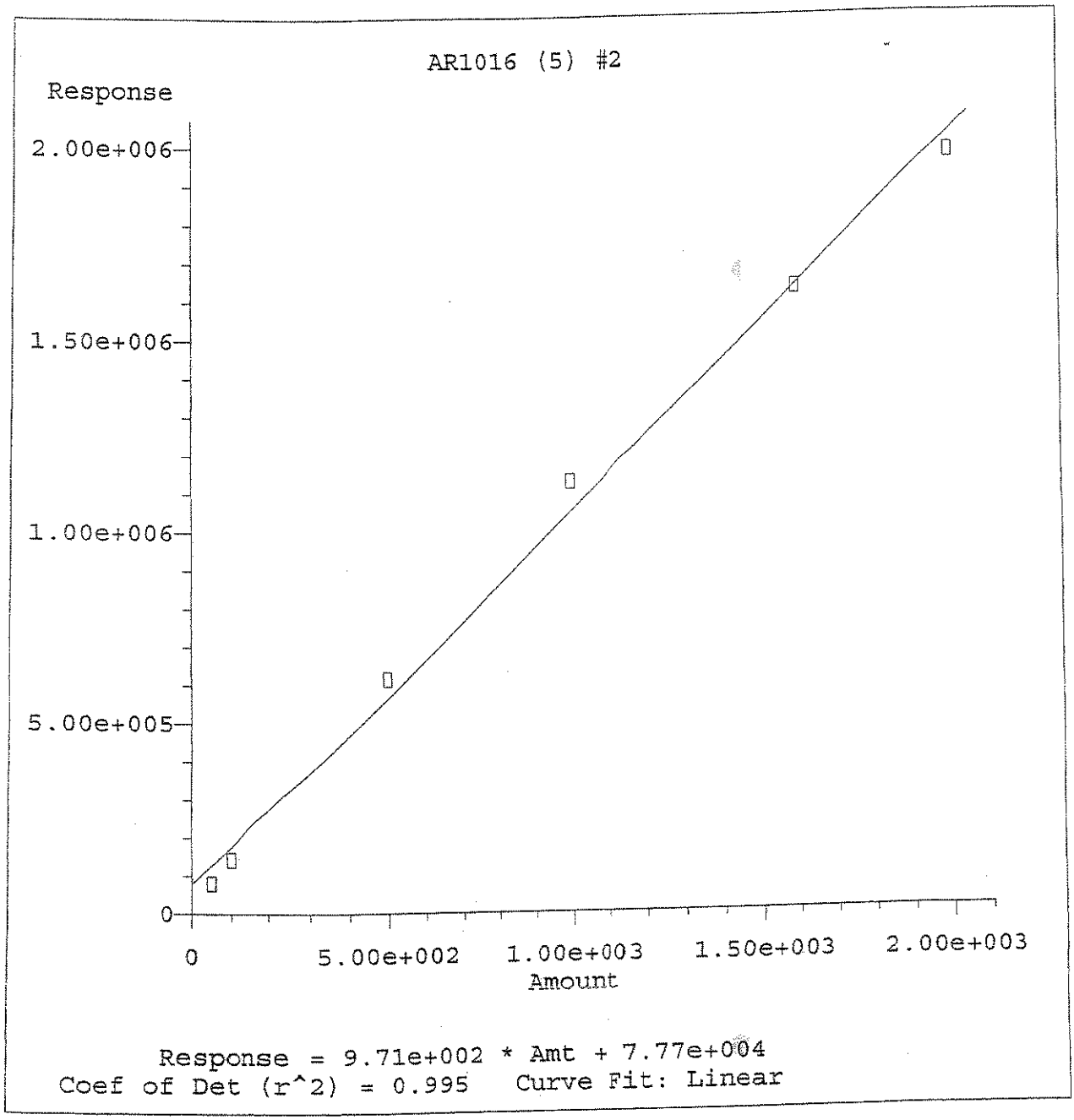
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



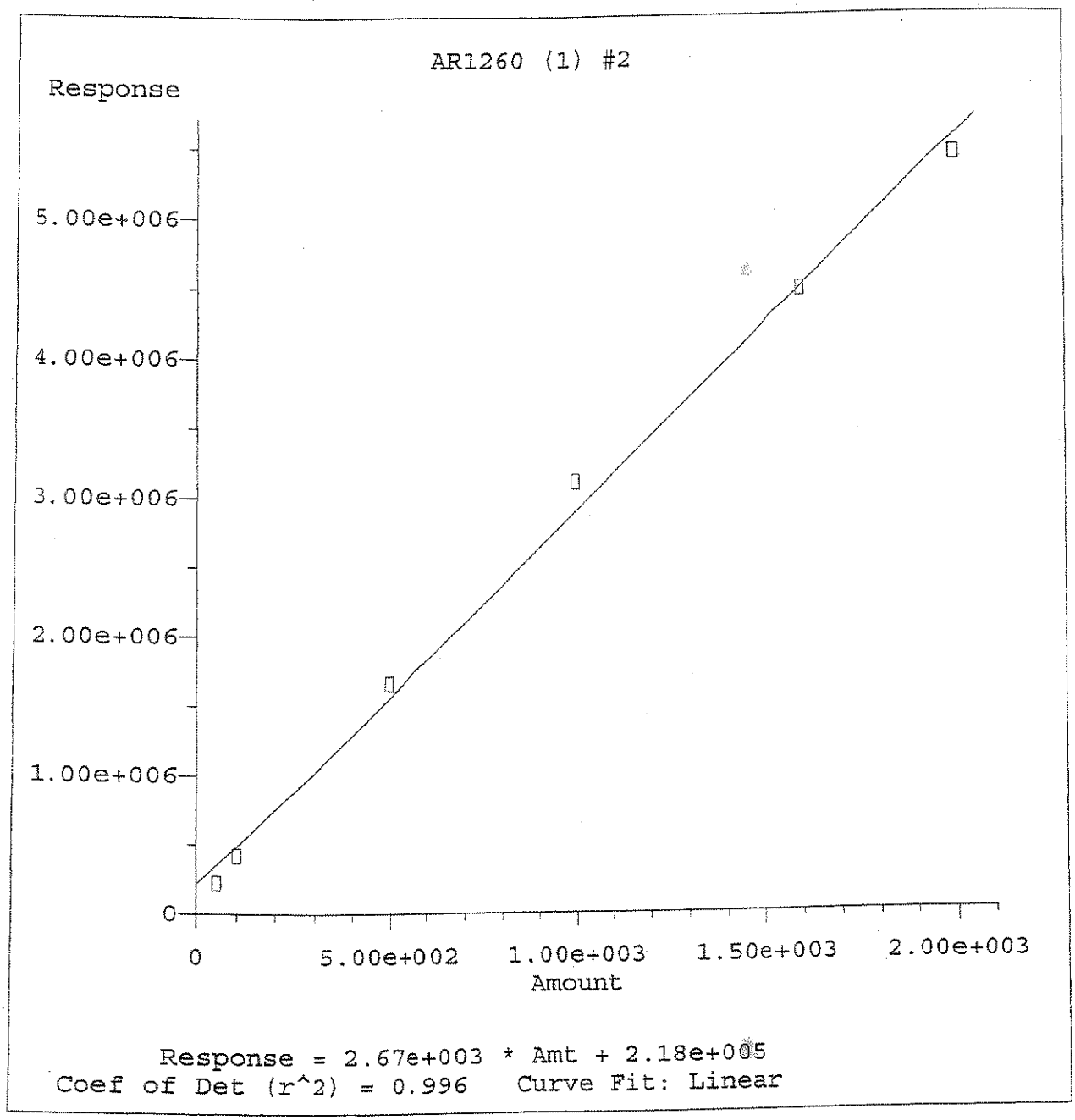
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



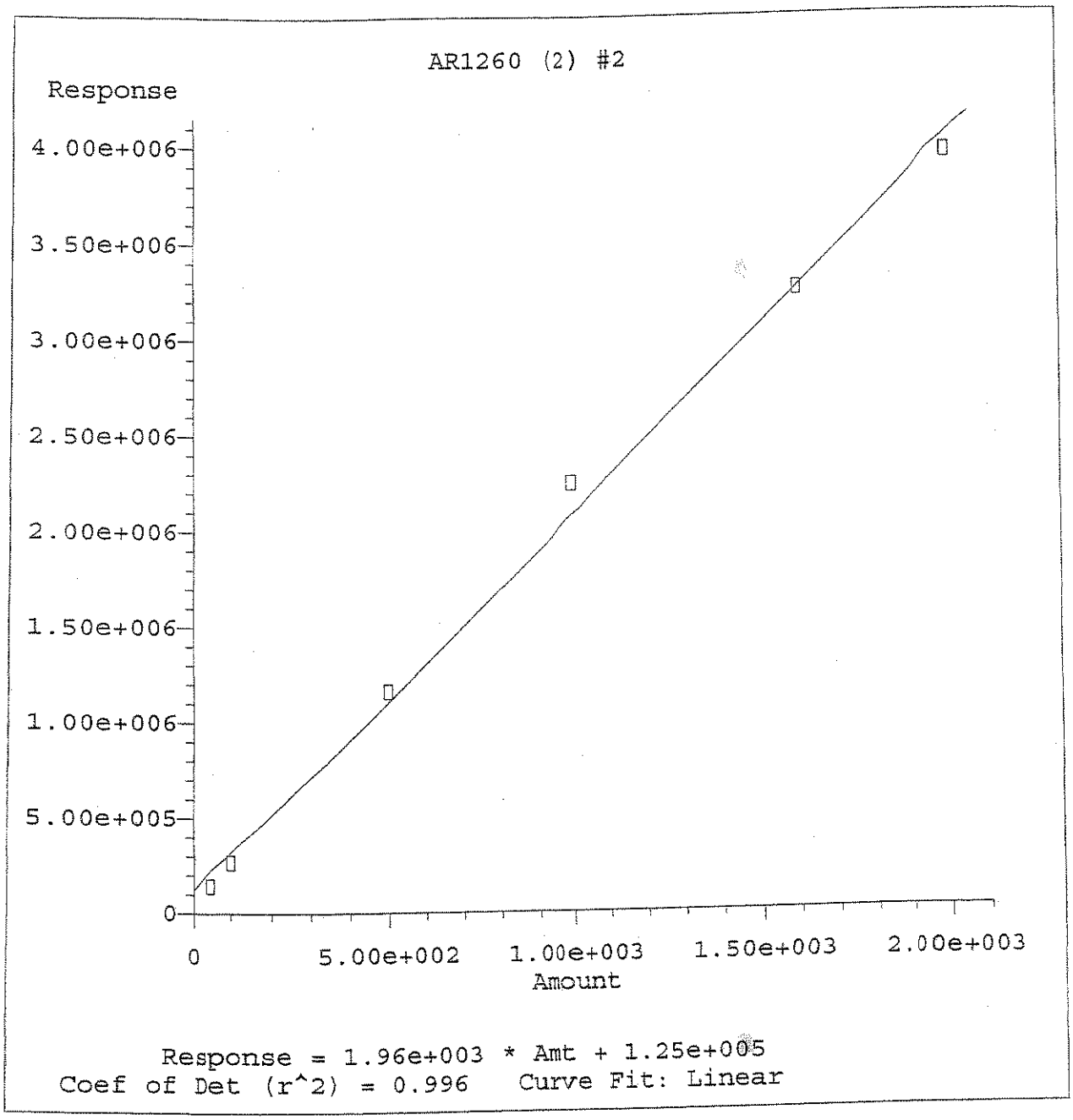
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



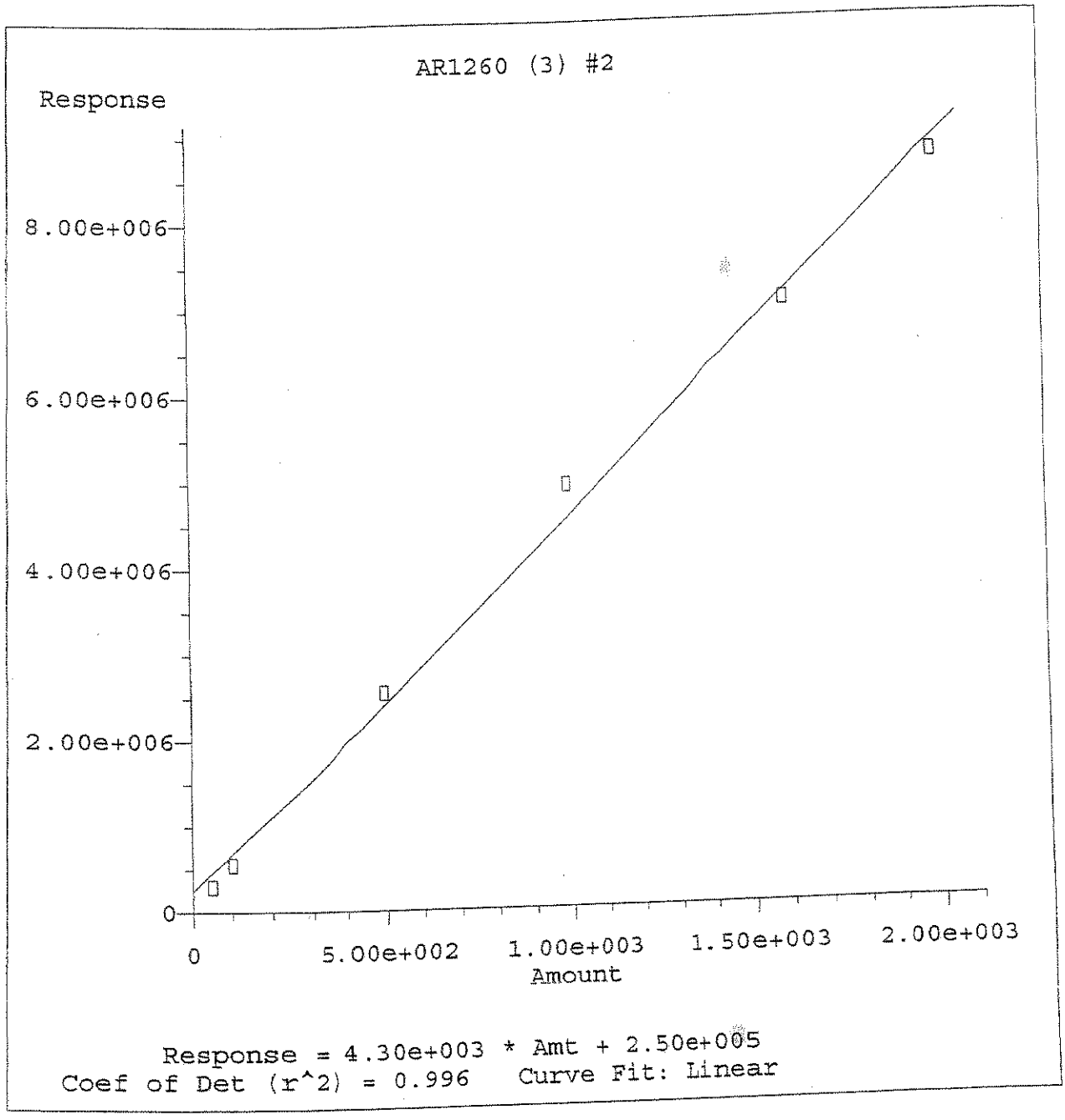
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



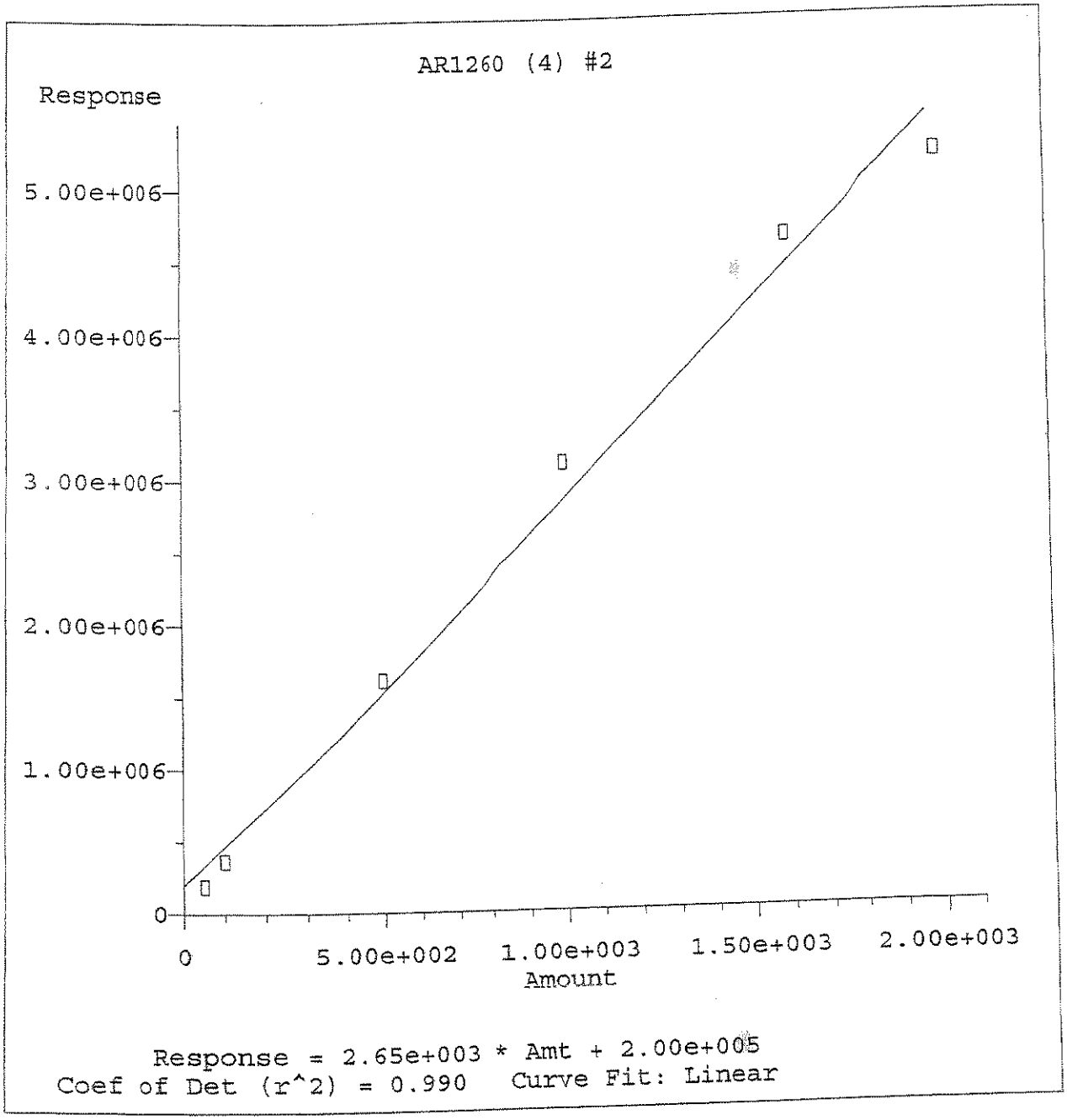
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



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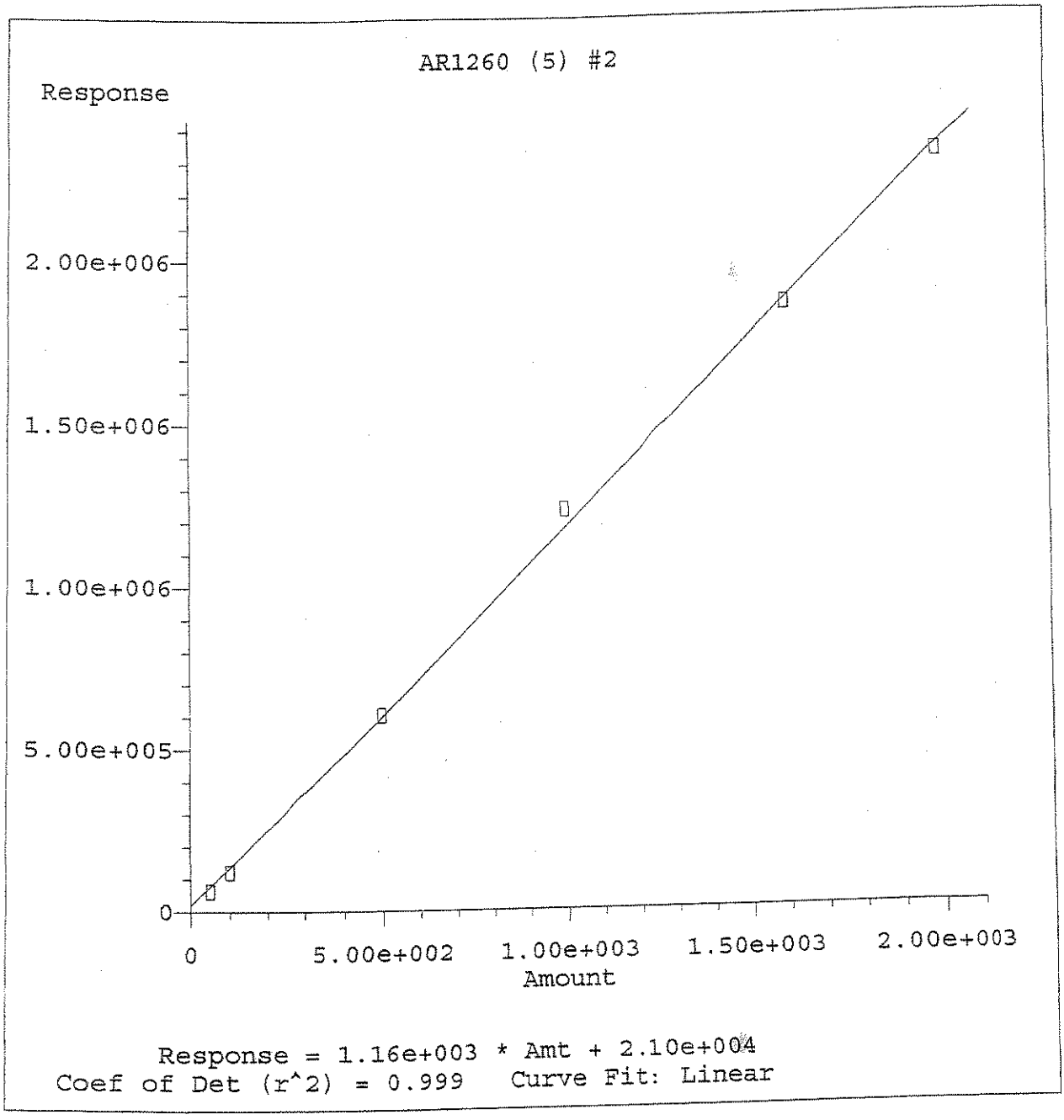
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



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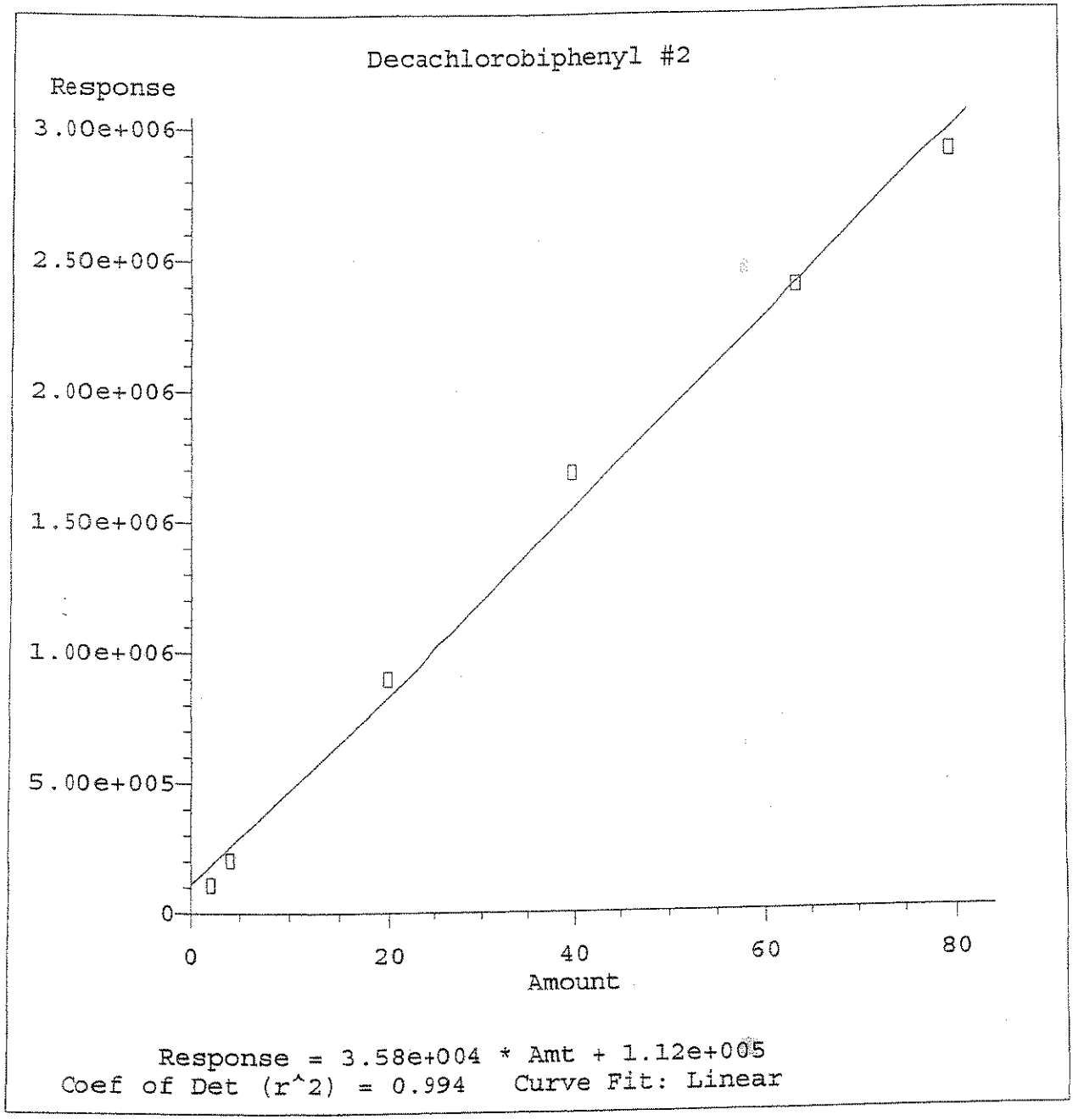
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CX.M
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

ANALYSIS SEQUENCE

BPG0273

Instrument: SVOAGC5

Calibnration ID: ~~UNASSIGNED~~ 8082 CX

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0273-CCV1	QC		1		6F30040		
BF62701-BLK1	QC		2				
BF62701-BS1	QC		3				
BF62701-BSD1	QC		4				
BPG0273-CCV2	QC		5		6F30040		

Samples Loaded By Date Data Processed By Date

ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II   Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/29/11	97	66062906-97	16604	8081CK	Cutout File	M
	98	-98	11464		6F30071	
	99	-99	11469		92	
	100	-110	12594		93	
6/29/11	97	66062906-97	16600CC	8081CK	6F3004	INJ: 1240	
	97					
	48					
	49					
	50					
	51					
	52					
	53					
	53					
	55					
	56					
	57					
	58					
	56					
	57					
	58					
	59					
	100					
	57					
	59	66062906-59	BF62701-BLK1	8081CK		M
6/29/06	60	66062906-60	-BS1			
	61	-61	-BSD1			
	47	66062906-47	0606465-04		ND Chlordane	
	48	66062906A -48	0606465-05		ND	
	49	-49	-06		ND	
6/29/06	50	-50	-07	8081CK	ND Chlordane	M

CONTROL NUMBER 60.0031-0603A   PAGE______

ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/29/06	51	G0062906A-51	0606415-08	8082	ND Chlordane	M
	52	-52	-09		ND	
	53	-53	-10		ND	
	54	-54	-11		ND	
	55	-55	-12		ND	
	56	-56	-13		ND	
	57	-57	-14		ND	
	58	-58	-15		ND	
	96	-96	Hex			
	97	-97	16600		GF30040 INST 1826	
	98	-98	12424		41	
	99	-99	12484		42	
	100	-100	12544		43	
6/29/06	97	G0062906A-97	16600	8082	GF30040 NOT RUN	M
	62	-62	0606431-04	8082	60	M
	63	-63	-MS			
	64	-64	-MSD			
	65	-65	0606432-01		RRx10 1254	
	66	-66	-02		ND	
	67	-67	0606433-01		ND	
	68	-68	-02		60	
	69	-69	0606434-01		ND	
	70	-70	-02		42/60	
	71	-71	0606435-01		RR x5 54	
	96	-96	Hex			
	97	-97	16604		GF30040 INST 2259	
	98	-98	12424		41	
	99	-99	12484		42	
	100	-100	12544		43	
6/29/06	97	G0062906A-97	16600	8082	GF30040	

CONTROL NUMBER 60.0031-0603A 815 PAGE________

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG62906A\097F0201.D Vial: 97
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG62906A\097F0201.D\097R0201.D
Acq On : 30 Jun 06 06:26 PM Operator: [GC]7R0201.I
Sample : 1660 CC Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jun 30 18:48 19106

Method : Q:\SVOA\GC5_GG\METHODS\8082CX.M
Title :
Last Update : Mon Jun 26 11:45:25 2006
Response via : Multiple Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xylen	3.57	5.18	2472633	1999567	45.439	41.880
				Recovery	=	90.88%	83.76%
12)	S Decachlorobiphenyl	9.86	12.22	1782116	1472270	39.086	37.988
				Recovery	=	78.17%	75.98%
	Target Compounds						
2)	LM1 AR1016 (1)	4.10	5.88	1123378	1141122	1007.943	1013.732
3)	LM1 AR1016 (2)	4.57	6.42	2016504	1672066	1084.326	949.083
4)	LM1 AR1016 (3)	5.14	6.99	3885536	3839342	1099.298m	1066.688
5)	LM1 AR1016 (4)	5.88	7.28	1106150	1417485	1102.194	1028.407
6)	LM1 AR1016 (5)	6.21	7.70	930417	1138658	1029.251	1092.256
	Total AR1016 (1)			9061986	9208674	5323.012	5150.165
	Average AR1016 (1)					1064.602	1030.033
7)	LM2 AR1260 (1)	7.13	9.35	2654974	2944631	1079.047	1020.409
8)	LM2 AR1260 (2)	8.43	10.17	6765211	1953681	1089.392	934.231
9)	LM2 AR1260 (3)	8.80	10.43	2253957	4321394	1042.079	945.972
10)	LM2 AR1260 (4)	9.10	10.83	912218	2788258	1067.848	975.686m
11)	LM2 AR1260 (5)	9.37	11.46	1613739	1098752	1108.624	932.536
	Total AR1260 (1)			14200099	13106716	5386.989	4808.834
	Average AR1260 (1)					1077.398	961.767

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG062906\097F1601.D Vial: 97
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG062906\097F1601.D\097R1601.D
Acq On : 30 Jun 06 12:40 PM Operator: [GC]TA.MS
Sample : 1660 CC Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jun 30 15:04 19106

Method : Q:\SVOA\GC5_GG\METHODS\8082CX.M
Title :
Last Update : Mon Jun 26 11:45:25 2006
Response via : Multiple Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xylen	3.58	5.18	2496897	2015890	45.900	42.235
				Recovery	=	91.80%	84.47%
12)	S Decachlorobiphenyl	9.86	12.22	2084613	1671282	46.491	43.547
				Recovery	=	92.98%	87.09%
	Target Compounds						
2)	LM1 AR1016 (1)	4.11	5.89	1116554	1170981	1001.478	1041.715
3)	LM1 AR1016 (2)	4.57	6.43	2011976	1760795	1081.660	1003.492
4)	LM1 AR1016 (3)	5.14	6.99	3747872	4097802	1056.728m	1143.753
5)	LM1 AR1016 (4)	5.88	7.28	1122516	1573339	1119.582	1146.465
6)	LM1 AR1016 (5)	6.21	7.70	939033	1233805	1039.336	1190.215
	Total AR1016 (1)			8937952	9836722	5298.783	5525.640
	Average AR1016 (1)					1059.757	1105.128
7)	LM2 AR1260 (1)	7.13	9.35	2703760	3374137	1101.256	1181.138
8)	LM2 AR1260 (2)	8.43	10.17	7269991	2279804	1177.283	1100.827
9)	LM2 AR1260 (3)	8.80	10.43	2484054	4797861	1156.031	1056.666
10)	LM2 AR1260 (4)	9.10	10.83	937087	3242866	1098.451	1147.034m
11)	LM2 AR1260 (5)	9.36	11.47	1707294	1242063	1176.421m	1056.533
	Total AR1260 (1)			15102186	14936731	5709.442	5542.198
	Average AR1260 (1)					1141.888	1108.440

M/3y/n

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ANALYSIS SEQUENCE

BPG0271

Instrument: SVOAGC5

Calibnration ID: ~~UNASSIGNED~~ 8082CX

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0271-CCV1	QC		1		6F23058		
BPG0271-CCV2	QC		2		6F23061		
0606383-01	SVOC: 8082 ppb PCB	G	3				MACTEC Engineering & Consulti
0606383-05	SVOC: 8082 ppb PCB	G	4				MACTEC Engineering & Consulti
0606383-07	SVOC: 8082 ppb PCB	G	5				MACTEC Engineering & Consulti
0606383-10	SVOC: 8082 ppb PCB	G	6				MACTEC Engineering & Consulti
BPG0271-CCV3	QC		7		6F23058		
BPG0271-CCV4	QC		8		6F23061		

Samples Loaded By Date Data Processed By Date

ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II — Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/26/06	39	6062606-39	0606374-~~4~~ 13	8082cf		M
	40	-40	-~~13~~ 15			
	41	-41	BF62333-BLK			
	42	-42	BF62333-~~BLK~~ BS1			
	43	-43	~~BS1~~ BSD1			
	44	-44	0606334-01 ~~BSD1~~			
	45	-45	0606334-~~01~~ 02			
	51	-51	Hex			
	52	-52	1660cc		BF23058	
	53	-53	1242cc		59	
	54	-54	1248cc		60	
	55	-55	1254cc		61	
6/26/06	52	6062606-52	1660cc	8082cf	BF23058	~
6/27/06	1	6062706-01	~~16~~ Hex	8082cf		M
	2	-02	1660cc		BF23058	
	3	-03	1242cc		59	
	4	-04	1248cc		60	
6/27/06	5	6062706-05	1254cc	8082cf	BF23061	~
6/28/06	1	6062806-01	Hex	8082cf	~~BF230~~ 6/28/06	M
	2	-02	1660cc		BF23058 CCV1 INT 085	
	3	-03	1242cc		59	
	4	-04	1248cc		60	
	5	-05	1254cc		BF23061 CCV2	
	6	-06	BF62219-BLK		5X conc	
	7	-07	0606346-01 ~~BS1~~		5X conc	
	8	-08	0606346-02		5X conc	
	9	-09	0606346-03		5X conc	
	10	-10	0606372-03		5X conc	
	11	-11	-03			
6/28/06	12	6062806-12	BF623~~32~~ 33-BLK	8082cf	5X conc	~

CONTROL NUMBER 60.0031-0603A

819

PAGE______

2 6/28/06

ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II   Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/28/06	13	66062806-13	0606383-01	8082CX	54	[illegible]
	14	-14	0606344-01		470	
	15	-15	0606383-03		Bad Injection	
	16	-16	-05		ND	
	17	-17	-07		ND	
	18	-18	-10		ND	
	19	-19	0606389-01		ND	
	20	-20	-02		ND	
	21	-21	0606392-01		RRx20	
	22	-22	-4		RRx20	
	23	-23	0606359-44		ND	
	24	-24	0606447-01		ND	
	25	-25	-2		ND	
	26	-26	Hex			
	27	-27	1660CC		6F13078 CCV3 INT 1230	
	28	-28	1248CC		59	
	29	-29	1248		6F13062	
	31	-31	BF62803-BLK			
	30	-30	1254CC		6F13081 CCV4	
	32	-32	BF62803-BS1			
	33	-33	-BSD1			
	34	-34	BF62834-BLK1			
	35	-35	-BS1			
	36	-36	-BSD1			
	37	-37	0606475-01		ND R+ high-matrix	
	38	-38	0606461-01		60, 54, 42 RRx5	
	39	-39	-02		60, 54, 42 RRx5	
	40	-40	-03		54 RRx10	
	41	-41	-04		54 RRx10	
6/28/06	42	66062806-42	-05	8082CX	54 RRx10 60	

CONTROL NUMBER 60.0031-0603A   820   PAGE________

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG062806\002F0101.D Vial: 2
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG062806\002F0101.D\002R0101.D
Acq On : 28 Jun 06 08:50 AM Operator: [GC]2R0101.
Sample : 1660 CC Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jun 29 8:59 19106

Method : Q:\SVOA\GC5_GG\METHODS\8082CX.M
Title :
Last Update : Mon Jun 26 11:45:25 2006
Response via : Multiple Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xylen	3.58	5.19	2129668	1800710	38.919	37.565
				Recovery	=	77.84%	75.13%
12)	S Decachlorobiphenyl	9.86	12.22	1929432	1568231	42.692	40.669
				Recovery	=	85.38%	81.34%
	Target Compounds						
2)	LM1 AR1016 (1)	4.11	5.89	1034614	1021854	923.842	901.953
3)	LM1 AR1016 (2)	4.58	6.43	1809918	1745199	962.718	993.929
4)	LM1 AR1016 (3)	5.15	7.00	3531780	3352556	989.905m	921.542
5)	LM1 AR1016 (4)	5.88	7.29	1019718	1205901	1010.364	868.133
6)	LM1 AR1016 (5)	6.21	7.71	893331	971171	985.844	919.821
	Total AR1016 (1)			8289361	8296681	4872.674	4605.377
	Average AR1016 (1)					974.535	921.075
7)	LM2 AR1260 (1)	7.13	9.36	2644630	2747497	1074.338	946.637
8)	LM2 AR1260 (2)	8.43	10.17	6986613	1934361	1127.942	924.362
9)	LM2 AR1260 (3)	8.81	10.44	2469139	4578834	1148.644	1005.781
10)	LM2 AR1260 (4)	9.10	10.83	1003032	2805176	1179.600m	982.063m
11)	LM2 AR1260 (5)	9.36	11.47	1467900	1128947	1002.937m	958.661
	Total AR1260 (1)			14571314	13194814	5533.462	4817.504
	Average AR1260 (1)					1106.692	963.501

6/29/06

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG062806\005F0101.D Vial: 5
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG062806\005F0101.D\005R0101.D
Acq On : 28 Jun 06 09:44 AM Operator: [GC]5R0101.I
Sample : 1254 CC Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jun 29 9:10 19106

Method : Q:\SVOA\GC5_GG\METHODS\1254CX.M
Title :
Last Update : Mon Jun 26 14:49:58 2006
Response via : Single Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xylen	3.58	5.19	2037782	1784453	36.899	38.268
				Recovery	=	73.80%	76.54%
7)	S Decachlorobiphenyl	9.85	12.22	1418019	1144137	40.391	39.403
				Recovery	=	80.78%	78.81%
	Target Compounds						
2)	LM AR1254 (1)	5.78	7.71	713780	608021	998.216	890.482
3)	LM AR1254 (2)	6.21	8.19	1902485	2048978	988.404	1023.854
4)	LM AR1254 (3)	6.93	8.92	2778308	2946983	987.421m	966.682
5)	LM AR1254 (4)	7.43	9.35	3175413	1796429	1001.724	983.718
6)	LM AR1254 (5)	7.72	9.75	3949994	3056695	964.976	975.964
	Total AR1254 (1)			12519980	10457107	4940.741	4840.700
	Average AR1254 (1)					988.148	968.140

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG062806\027F0101.D Vial: 27
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG062806\027F0101.D\027R0101.D
Acq On : 28 Jun 06 04:30 PM Operator: [GC]7R01O
Sample : 1660 CC Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jun 29 9:45 19106

Method : Q:\SVOA\GC5_GG\METHODS\8082CX.M
Title :
Last Update : Mon Jun 26 11:45:25 2006
Response via : Multiple Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xylen	3.58	5.18	2137634	1853506	39.070	38.711
				Recovery	=	78.14%	77.42%
12)	S Decachlorobiphenyl	9.85	12.22	1842543	1555138	40.565	40.303
				Recovery	=	81.13%	80.61%
	Target Compounds						
2)	LM1 AR1016 (1)	4.11	5.89	1024582	1033987	914.337	913.325
3)	LM1 AR1016 (2)	4.57	6.42	1837744	1803286	979.098	1029.549
4)	LM1 AR1016 (3)	5.14	6.99	3700462	3666741	1042.067m	1015.223
5)	LM1 AR1016 (4)	5.88	7.28	1059105	1307363	1052.210	944.990
6)	LM1 AR1016 (5)	6.21	7.70	892511	1007125	984.885	956.838
	Total AR1016 (1)			8514403	8818503	4972.597	4859.923
	Average AR1016 (1)					994.519	971.985
7)	LM2 AR1260 (1)	7.13	9.35	2688629	2613161	1094.367	896.367
8)	LM2 AR1260 (2)	8.42	10.17	6952892	1813827	1122.070	862.789
9)	LM2 AR1260 (3)	8.80	10.43	2257192	4442756	1043.681	974.167
10)	LM2 AR1260 (4)	9.09	10.83	949234	2855576	1113.398	1001.059
11)	LM2 AR1260 (5)	9.36	11.46	1536694	1157967	1052.791m	983.771
	Total AR1260 (1)			14384640	12883288	5426.308	4718.152
	Average AR1260 (1)					1085.262	943.630

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG062806\030F0201.D Vial: 30
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG062806\030F0201.D\030R0201.D
Acq On : 28 Jun 06 06:12 PM Operator: [GC]0R0201.D\DATA.MS
Sample : 1254 CC Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jun 29 9:59 19106

Method : Q:\SVOA\GC5_GG\METHODS\1254CX.M
Title :
Last Update : Mon Jun 26 14:49:58 2006
Response via : Single Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	3.58	5.19	2046286	1830268	37.053	39.250
					Recovery	=	74.11%	78.50%
7)	S	Decachlorobiphenyl	9.86	12.22	1394759	1125812	39.728	38.772
					Recovery	=	79.46%	77.54%
		Target Compounds						
2)	LM	AR1254 (1)	5.78	7.71	712427	649313	996.324	950.956
3)	LM	AR1254 (2)	6.21	8.19	1697155	2042032	881.728	1020.384
4)	LM	AR1254 (3)	6.93	8.92	2886440	2949017	1025.851	967.349
5)	LM	AR1254 (4)	7.43	9.36	3212327	1753007	1013.369	959.940
6)	LM	AR1254 (5)	7.72	9.75	3909583	3018532	955.104	963.779
	Total	AR1254 (1)			12417932	10411902	4872.376	4862.408
	Average	AR1254 (1)					974.475	972.482

6/29/06

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

030F0201.D 1254CX.M Thu Jun 29 13:16:03 2006 Page 1

ANALYSIS SEQUENCE

BPG0272

Instrument: SVOAGC5

Calibnration ID: ~~UNASSIGNED~~ 8082 CX

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0272-CCV1	QC		1		6F30040		
0606383-03	SVOC: 8082 ppb PCB	G	2				MACTEC Engineering & Consulting, In
BPG0272-CCV2	QC		3		6F30040		

Samples Loaded By Date Data Processed By Date

ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/28/11	67	6B062806-67	0606461-26	8081CX	ND	
	68	-68	-27		ND	
	69	-69	29		ND	
	56	-56	HEX			
	57	-57	1660CC		6F23057 INJ: 0806	
	58	-58	1242CC		58	
	59	-59	1248CC		60	
	100	-100	1254CC		61	
	57	-57	1660CC		6F23058	
	70	-70	0606491-01		ND	
	71	-71	0606292-03		MEAT10 59	
	72	-72	-04		MEAT 59	
	73	-73	~~0606427-01~~ 0606442-04		ND	
	74	-74	~~0606442-04~~ 0606427-01		RR 1X	
	75	-75	0606427-01MS		-	
	76	-76	-01MSD			
	56	-56	HEX			
	57	-57	1660CC		6F23058 1260 (R) low	
	58	-58	1242CC		59	
	59	-59	1248CC		60	
	100	-100	1254CC		61	
6/28/11	57	6B062806-57	1660CC	8081CX	6F23058	
6/29/11	56	6B062906-56	~~1660CC~~ HEX	8081CX		
	57	-57	~~1242CC~~ 1660CC		6F30040 0101 INJ: 1573	
	58	-58	~~1248CC~~ 1242CC		41	
	59	-59	1248CC		42	
	100	-100	1254CC		6300 43	
	1	-01	0606383-03		ND	
	2	-02	0606427-01		59 60	
6/29/11	3	-03	0606352-01	8081CX	720 ~~RAX 100~~ RAX200 ~~1000~~	

CONTROL NUMBER 60.0031-0603A PAGE_______

ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II　　　　Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/29/11	4	6G062901-04	0606392-02	8082cx	x20 Ar x100	M
	5	-05	0606461-01		x5 54, 60, 42	
	6	-06	-02		x5 42, 54	
	7	-07	-03		x10 54, 60	
	8	-08	-04		x10 60, 54, 48	
	9	-09	-05		x10 48, 54, 60	
	10	-10	-05MS		x10	
	11	-11	-05MSD		x10	
	12	-12	-06		x10 60, 48	
	13	-13	-07		x10 60, 54, 42	
	14	-14	-08		x10 Ar x50 (60), 54	
	15	-15	-09		x10 54, 60, 42	
	16	-16	0606392-04		x5 54	
	17	-17	-03		x50 Ar x250	
	96	-96	1HEX		-	
	95	-95	1660 500		1260 (4) 2020 (R) ~~[illegible]~~ GF30044 0401 INJ: 2113	
	97	-97	1000		GF30046 0401 6/29/11 2211 INJ: ~~2???~~	
	98	-98	1242cc		41	
	99	-99	1254cc		72	
	100	-100	1254cc		73	
	95	-95	1660 500		GF30044 INJ: 2323	
	97	-97	1660 1000		GF30046	
	18	-18	BF62910-BLK1		02D	
	19	-19	-BS1			
	20	-20	-BSD1			
	21	-21	0606488-01		ND	
	22	-22	-02		ND	
	23	-23	-03		ND	
	24	-24	-04		ND	
6/29/11	25	6G062901 -25	-05	8082cx	ND　　　　D0D	M

CONTROL NUMBER 60.0031-0603A　　　　PAGE______

03

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG062906\097F0101.D Vial: 97
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG062906\097F0101.D\097R0101.D
Acq On : 29 Jun 06 03:13 PM Operator: [GC]7R01
Sample : 1660 CC Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jun 30 9:14 19106

Method : Q:\SVOA\GC5_GG\METHODS\8082CX.M
Title :
Last Update : Mon Jun 26 11:45:25 2006
Response via : Multiple Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xylen	3.58	5.19	2144933	1821877	39.209	38.024
Recovery =					78.42%	76.05%
12) S Decachlorobiphenyl	9.86	12.23	1705771	1418294	37.217	36.481
Recovery =					74.43%	72.96%
Target Compounds						
2) LM1 AR1016 (1)	4.11	5.89	1030226	1004177	919.684	885.387
3) LM1 AR1016 (2)	4.57	6.43	1840805	1746045	980.900	994.448
4) LM1 AR1016 (3)	5.15	7.00	3587148	3646528	1007.027m	1009.19
5) LM1 AR1016 (4)	5.89	7.29	1002475	1339317	992.044	969.195
6) LM1 AR1016 (5)	6.22	7.71	821888	1061507	902.226	1012.827
Total AR1016 (1)			8282542	8797575	4801.881	4871.051
Average AR1016 (1)					960.376	974.210
7) LM2 AR1260 (1)	7.13	9.36	2507271	2636961	1011.808	905.273
8) LM2 AR1260 (2)	8.43	10.17	6663985	1790079	1071.766	850.657
9) LM2 AR1260 (3)	8.81	10.44	2116293	4189180	973.903	915.256
10) LM2 AR1260 (4)	9.10	10.83	888729	2891362	1038.944	1014.54
11) LM2 AR1260 (5)	9.37	11.47	1516066	1045164	1037.842	886.170
Total AR1260 (1)			13692345	12552747	5134.264	4571.903
Average AR1260 (1)					1026.853	914.381

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG062906\097F0501.D Vial: 97
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG062906\097F0501.D\097R0501.D
Acq On : 29 Jun 06 10:11 PM Operator: [GC]7R0501.
Sample : 1660 CC Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jun 30 9:16 19106

Method : Q:\SVOA\GC5_GG\METHODS\8082CX.M
Title :
Last Update : Mon Jun 26 11:45:25 2006
Response via : Multiple Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xylen	3.58	5.18	2221327	1853635	40.661	38.714
				Recovery	=	81.32%	77.43%
12)	S Decachlorobiphenyl	9.86	12.22	1856987	1495384	40.919	38.634
				Recovery	=	81.84%	77.27%
	Target Compounds						
2)	LM1 AR1016 (1)	4.11	5.89	1060742	1034641	948.597	913.937
3)	LM1 AR1016 (2)	4.57	6.42	1884542	1760709	1006.646	1003.440
4)	LM1 AR1016 (3)	5.14	6.99	3647476	3768316	1025.682m	1045.510
5)	LM1 AR1016 (4)	5.88	7.28	1028329	1418606	1019.513	1029.255
6)	LM1 AR1016 (5)	6.21	7.70	844627	1109703	928.840	1062.446
	Total AR1016 (1)			8465715	9091974	4929.278	5054.588
	Average AR1016 (1)					985.856	1010.918
7)	LM2 AR1260 (1)	7.13	9.35	2544914	2891087	1028.944	1000.372
8)	LM2 AR1260 (2)	8.43	10.17	6824866	1972191	1099.779	943.687
9)	LM2 AR1260 (3)	8.81	10.43	2249213	4508347	1039.730	989.406
10)	LM2 AR1260 (4)	9.10	10.83	938535	2886314	1100.233	1012.645m
11)	LM2 AR1260 (5)	9.37	11.47	1708999	1133627	1177.656	962.710
	Total AR1260 (1)			14266526	13391566	5446.341	4908.819
	Average AR1260 (1)					1089.268	981.764

7/31/06

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

PCB
Logbooks

0606383, 0606389, 0606435, 0606392, 0606394, 0606447, 0606432, 0606433, 0606434

ESS Organic Preparation Logbook

Project #: 0606431,
Prep Date: 6/27/06
Batch ID: BXF62701
Extraction Method: 3541

Surrogate ID# A 6F02078 B NA C
Matrix Spike ID# D 6F05037 E F NA

Analytical Matrix: soil
Extraction Time:
Start: 0600
Finish: —

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/Wt(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
BXF62701-B	20.0	1	NA	10	10	NA	6/27/06	40	NA	NA		EM	NM	M
-BS	20.0	1	1	10	10									
-BSD	20.0	1	1	10	10									
0606431-01	19.9	1	NA	10	10									
-01MS	20.4	1	1	10	10									
-01MSD	20.1	1	1	10	10									
0606432-01	19.8	1	NA	10	10									
-02	19.9	1		10	10									
0606433-01	20.5	1		10	10									
-02	21.0	1		10	10									
0606434-01	19.2	1		10	10									
-02	21.0	1		10	10									
0606435-01	19.9	1	NA	10	10	NA	6/27/06	40	NA	NA		EM	NM	M
0606383-01	20.0	1		10	10		6/27/06					MW	SBD	M
-03	20.4	1		10	10									
-05	20.4	1		10	10									
-07	19.9	1		10	10									
-10	19.8	1		10	10									
0606389-01	20.6	1		10	10									
-02	20.6	1		10	10									
0606392-01	19.2	1		10	10									
-02	15.8	1		10	10						limited sample			
0606394-14	20.6	1		10	10									
0606447-01	19.9	1		10	10									
-02	19.6	1	NA	10	10	NA	6/27/06	40	NA	NA		MW	SBD	^

Analysis Performed: PCB ☒ B/N SVOA ☐ SVOA ☐ LL PAH ☐ PEST ☐ PH/GC ☐ BIS-2 ☐ PAH ☐

Acid Washed: Y / N H2SO4 ID# AT060706A
Cu Cleaned: Y / (N) Cu ID# NA
Florisiled: Y / (N) Lot# NA
Silica Column/Carbon prep: Y / (N) Lot # NA

CH_2Cl_2 lot # NA
NaOH ID# NA
Hexane lot# C0914
Na_2SO_4 ID# AT062606B
Acetone lot# C05E11

Prepared By: EM Glasswool: AT061406F Method #(s): 8082

**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A BATCH ID/Test: BF62701 BATCH ID/Test: ______ Page ______

831

TPH
Data Package

TPH
Sample Data

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2401
Date Sampled: 06/22/06 16:35
Percent Solids: 40
Initial Volume: 20.7
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-01
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/27/06

8100M Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
Total Petroleum Hydrocarbons	**226**	mg/kg dry	90.6	1	06/29/06

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*83 %*		*40-140*

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2201
Date Sampled: 06/22/06 17:00
Percent Solids: 30
Initial Volume: 19.7
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-03
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/27/06

8100M Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
Total Petroleum Hydrocarbons	**190**	mg/kg dry	127	1	06/29/06

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*88 %*		*40-140*

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2701
Date Sampled: 06/22/06 17:35
Percent Solids: 20
Initial Volume: 19.7
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-05
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/27/06

8100M Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
Total Petroleum Hydrocarbons	**413**	mg/kg dry	190	1	06/30/06

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*80 %*		*40-140*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2601
Date Sampled: 06/22/06 18:10
Percent Solids: 54
Initial Volume: 20.1
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-07
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/27/06

8100M Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
Total Petroleum Hydrocarbons	**88.8**	mg/kg dry	69.1	1	06/29/06

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*67 %*		*40-140*

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2501
Date Sampled: 06/22/06 18:45
Percent Solids: 30
Initial Volume: 19.8
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-10
Sample Matrix: Soil
Analyst: JLS
Prepared: 06/27/06

8100M Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
Total Petroleum Hydrocarbons	**380**	mg/kg dry	126	1	06/30/06

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*85 %*		*40-140*

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

TPH
Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606383

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch BF62701 - 3541										
Aroclor 1262	ND	33.3	ug/Kg wet							
Aroclor 1268	ND	33.3	ug/Kg wet							
Surrogate: Decachlorobiphenyl	*17.8*		ug/Kg wet	*16.7*		*107*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*16.8*		ug/Kg wet	*16.7*		*101*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*15.2*		ug/Kg wet	*16.7*		*91*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.4*		ug/Kg wet	*16.7*		*92*	*30-150*			
LCS										
Aroclor 1016	341	33.3	ug/Kg wet	333		102	40-140			
Aroclor 1260	328	33.3	ug/Kg wet	333		98	40-140			
Surrogate: Decachlorobiphenyl	*17.9*		ug/Kg wet	*16.7*		*107*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*17.0*		ug/Kg wet	*16.7*		*102*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*15.8*		ug/Kg wet	*16.7*		*95*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.5*		ug/Kg wet	*16.7*		*93*	*30-150*			
LCS Dup										
Aroclor 1016	341	33.3	ug/Kg wet	333		102	40-140	0	50	
Aroclor 1260	327	33.3	ug/Kg wet	333		98	40-140	0.3	50	
Surrogate: Decachlorobiphenyl	*17.7*		ug/Kg wet	*16.7*		*106*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*17.0*		ug/Kg wet	*16.7*		*102*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*16.0*		ug/Kg wet	*16.7*		*96*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.7*		ug/Kg wet	*16.7*		*94*	*30-150*			
8100M Total Petroleum Hydrocarbons										
Batch BF62724 - 3541										
Blank										
Total Petroleum Hydrocarbons	ND	37.5	mg/kg wet							
Surrogate: O-Terphenyl	*5.40*		mg/kg wet	*5.00*		*108*	*40-140*			
LCS										
Total Petroleum Hydrocarbons	993	37.5	mg/kg wet	1000		99	40-140			
Surrogate: O-Terphenyl	*5.81*		mg/kg wet	*5.00*		*116*	*40-140*			
LCS Dup										
Total Petroleum Hydrocarbons	921	37.5	mg/kg wet	1000		92	40-140	8	50	
Surrogate: O-Terphenyl	*5.35*		mg/kg wet	*5.00*		*107*	*40-140*			
8260B Volatile Organic Compounds										
Batch BF62823 - 5030B										
Blank										
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
1,1-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	1.0	ug/L							

840

TPH
Calibration Data

ANALYSIS SEQUENCE

BPG0267

Instrument: SVOAGC2

Calibration ID: ~~UNASSIGNED~~ 8100FCL

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0267-CAL1	QC		1		6F15038		
BPG0267-CAL2	QC		2		6F15039		
BPG0267-CAL3	QC		3		6F15040		
BPG0267-CAL4	QC		4		6F15041		
BPG0267-CAL5	QC		5		6F15042		
BPG0267-SCV1	QC		6		6F15043		

Samples Loaded By Date Data Processed By Date

ESS LABORATORY
GC2 Front RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/13/06	4	61306 4	TPH 50	8100FCL	New Stock	JCS
	5	5	TPH 10		✓ JCS 6/13/06 6F175038 CCV1	
	6	6	50		✓ 39 2	
	7	7	100		✓ 40 3	
	8	8	250		✓ 41 4	
	9	9	500		✓ 42 5	
	10	10	TPH 50SS		✓ 6F150 43 SCV1	
	11	11	BF61213-BlK1		✓	
	12	12	-BS1		✓	
	13	13	-BSD1		✓	
	14	14	0606106-07		✓	
	15	15	BF61213-MS1		RR	
	16	16	BF61213-MSD1		✓	
	17	17	Solvent			
6/13/06	18	61306 18	TPH 50	8100FCL	✓	JCS
6/14/06	1	61406 1	TPH50	8100FCL	✓	JCS
	2	2	0606156-02		✓	
	3	3	JCS 6/15/06 -03		✓	
	4	4	0606139-03		RR	
	5	5	0606106-01MS1		✓ Failed 2nd time running	
	6	6	0606139-02		RR	
	7	7	0606156-04		RR	
	8	8	-05		RR	
	9	9	-08		RR	
	10	10	-01			
	11	11	0606171-03			
	12	12	-02			
	13	13	-01			
	14	14	0606139-01		RR	
6/14/06	15	61406 15	Solvent	8100FCL		JCS

CONTROL NUMBER 60.0002-0601A

PAGE________

02

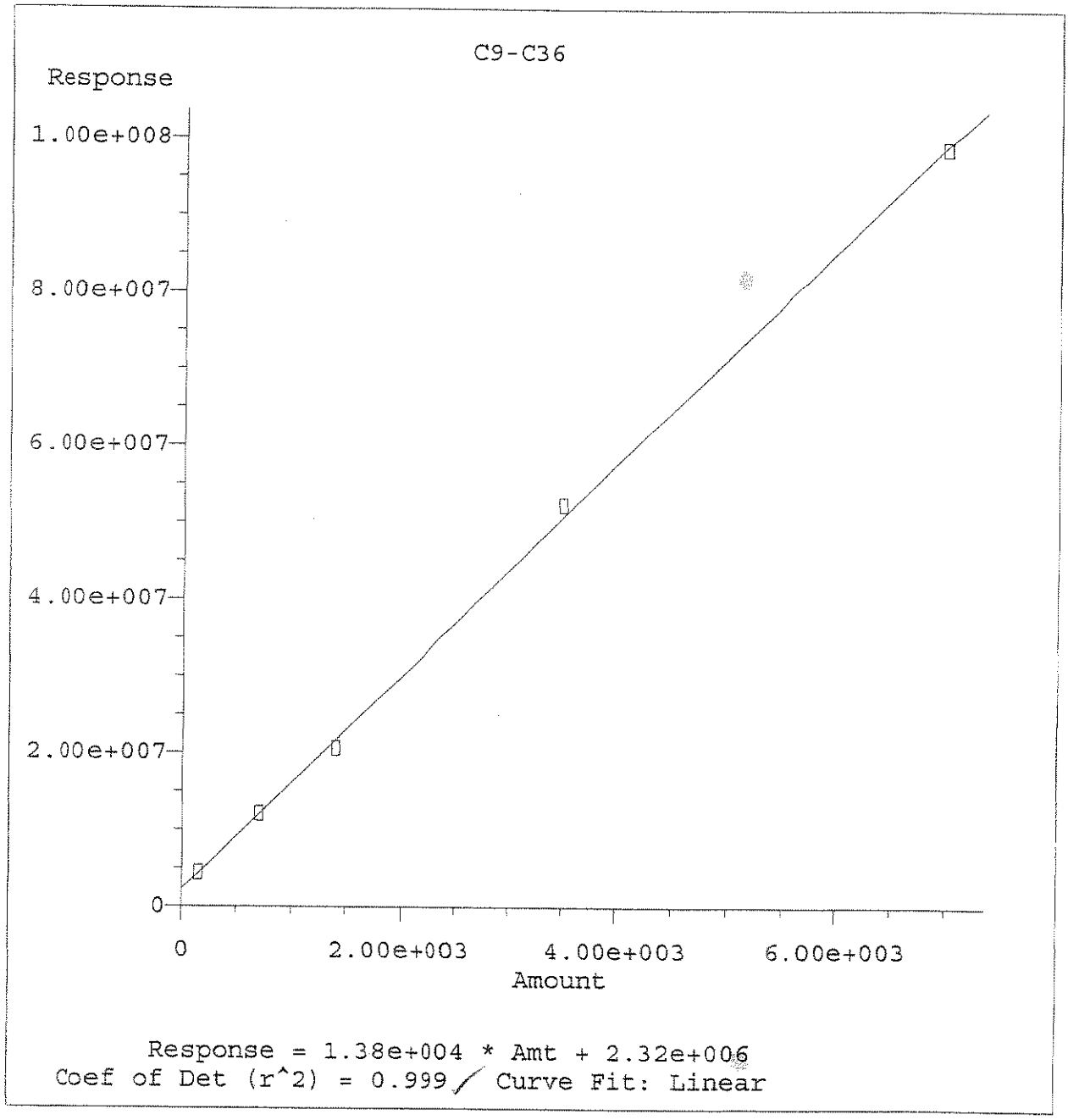
Response Factor Report GC2

Method : Q:\SVOA\TPH_GC2\METHODS\8100FCL.M
Title : ELEMENT ID: 0502008
Last Update : Wed Jun 14 05:27:25 2006
Response via : Initial Calibration

Calibration Files
50 =006F0101.D 10 =005F0101.D 100 =007F0101.D
250 =008F0101.D 500 =009F0101.D

		Compound	50	10	100	250	500	Avg		%RSD
1)	S	O-Terphenyl	16.7	14.3	16.0	17.5	17.2	16.4	E3	7.86
2)	H	C9-C36	17.3	31.3	14.7	14.9	14.1	18.5	E3	39.47 linear
3)	H	C10-C28	15.9	18.0	14.8	16.1	15.6	16.1	E3	7.18

(#) = Out of Range



Method Name: Q:\SVOA\TPH_GC2\METHODS\8100FCL.M
Calibration Table Last Updated: Wed Jun 14 05:27:25 2006

ANALYSIS SEQUENCE

BPG0269

Instrument: SVOAGC2

Calibnration ID: ~~UNASSIGNED~~ 8WFCC

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0269-CCV1	QC		1		6F30001		
BF62724-BLK1	QC		2				
BF62724-BS1	QC		3				
BF62724-BSD1	QC		4				
BPG0269-CCV2	QC		5		6F30001		

Samples Loaded By Date Data Processed By Date

GC2 Front RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/29/06	3	3	060637 7-01	8100FCL	✓	JLS
	4	4	-04		✓	
	5	5	-03		✓	
	6	6	-05		✓	
	7	7	060637706		✓	
	8	8	060637 -03		✓ ND	
	9	9	solvent			
6/29/06	10	10	TPH 50 JLS 6/29/06	8100FCL		JLS
	11	11	TPH50		✓ 6F30001	
	11	11 12*	TPH50			
	12	13 2*	Fuel Degradation		x 5F17037	
	13	14 3*	BF6 2724-BH			
	14	15 4*	-BS1			
	15	16 5*	-BSD1		* JLS 6/29/06	
	16	17 6*	-BS2			
	17	18 7*	-BSD2			
	18	19 8*	060637 5-02			
	19	19 20*	-02MS1			
	20	20 21*	-02MSD1			
6/29/06	11	11	TPH50	8100FCL	✓ 6F30001	JLS
6/30/06	21	21	Fuel Degradation	8100FCL	PHY112901 Y	JLS
	22	22	TPH50	8100FCL	6F30001 CCV1	
	23	23	Fuel Degradation		PHY112901 Y	
	24	24	BF6 2724-BH1		✓	
	25	25	-BS1		✓	
	26	26	-BSD1		✓	
	27	27	-BS2		✓	
	28	28	Fuel Degradation -BSD2		✓	
	29	29	BF6 2724-BS2 JLS 6/30/06		✓	
6/30/06	30	30	060637 5-02	8100FCL	✓	JLS

CONTROL NUMBER 60.0002-0601A PAGE_____

ESS LABORATORY
GC2 Front RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/30/06	31	31	06060375-02MS	8100FCL	✓	JCS
6/30/06	32	32	-02MSD		✓	
6/30/06	33	33	TPH50		✓ 6FF30001 CCV2	
	34	34	06060429-03		✓	
	35	35	-02		✓	
	36	36	-01		✓	
	37	37	-05		✓	
	38	38	06060429-04		✓	
	39	39	06060437-01		✓	
	40	40	06060428-01		✓	
	41	41	BF62906BLK		✓	
	42	42	-BS1		✓	
	43	43	-BSD1		✓	
	44	44	06060457-01		✓	
	45	45	-01MS		✓	
	46	46	-01MSD		✓	
	47	47	06060443-01		✓	
	48	48	solvent			
6/30/06	49	49	TPH50	8100FCL	✓ 6FF30001 JCS 7/18/06	JCS
7/2/06	1	1	TPH50	8100FCL		JCS
	2	2	TPH50			
	3	3	TPH50			
	4	4	TPH50		✓ 6FF30001 JCS 7/18/06	
	5	5	BF63082-BLK1		✓	
	6	6	-BS1		✓	
	7	7	-BSD1		✓	
	8	8	06060479-04		✓	
	9	9	-05		✓	
	10	10	06060480-01		RR 10X	
7/2/06	11	11	-02	8100FCL	RR	JCS

CONTROL NUMBER 60.0002-0601A PAGE_____

Quantitation Report

Data File : Q:\SVOA\TPH_GC2\DATA\GC0606\06290B\022F0401.D Vial: 22
Acq On : 30 Jun 06 06:02 AM Operator: [GC]A.MS
Sample : TPH50 Inst : GC2
Misc : Multiplr: 1.00
Quant Time: Jun 30 6:47 19106

Method : Q:\SVOA\TPH_GC2\METHODS\8100FCL.M
Title : ELEMENT ID: 0502008
Last Update : Fri Jul 21 06:41:51 2006
Response via : Multiple Level Calibration

Volume Inj. : 1 ul
Signal Phase : RTX-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S O-Terphenyl	15.26f	750708	45.896	ppm
		Recovery	=	45.90%	
	Target Compounds				
2)	H C9-C36	15.17	11248287	644.646	ppm
3)	H C10-C28	15.17	8152193	507.085	ppm

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : Q:\SVOA\TPH_GC2\DATA\GC0606\06290B\033F0401.D Vial: 33
Acq On : 30 Jun 06 12:35 PM Operator: [GC]A.MS
Sample : TPH50 Inst : GC2
Misc : Multiplr: 1.00
Quant Time: Jun 30 13:26 19106

Method : Q:\SVOA\TPH_GC2\METHODS\8100FCL.M
Title : ELEMENT ID: 0502008
Last Update : Fri Jul 21 06:41:51 2006
Response via : Multiple Level Calibration

Volume Inj. : 1 ul
Signal Phase : RTX-5MS
Signal Info : 0.25

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	O-Terphenyl	15.26f	847436	51.810	ppm
			Recovery	=	51.81%	
		Target Compounds				
2)	H	C9-C36	15.17	12415568	728.944	ppm
3)	H	C10-C28	15.17	9154692	569.443	ppm

(f)=RT Delta > 1/2 Window (m)=manual int.

ANALYSIS SEQUENCE

BPG0268

Instrument: SVOAGC2

Calibration ID: ~~UNASSIGNED~~ 8700 ROC

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0268-CAL1	QC		1		6F15038		
BPG0268-CAL2	QC		2		6F15039		
BPG0268-CAL3	QC		3		6F15040		
BPG0268-CAL4	QC		4		6F15041		
BPG0268-CAL5	QC		5		6F15042		
BPG0268-SCV1	QC		6		6F15043		

Samples Loaded By Date Data Processed By Date

ESS LABORATORY
GC2 Rear RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS/DILUTION/STANDARD ID	ANALYST
6/20/06	57	57	BF61708-BLK1	8100 FEE RRB	✓ RR	JCS
	58	58	-BS1		✓	
	59	59	-BSD1		✓	
	60	60	0606291-01		✓	
	61	61	-01MS1		✓	
	62	62	-01MSD1		RR	
6/20/06	63	63	TPH50	8100 FEE RRB	HIGH	JCS
6/21/06	51	51	TPH50	8100 RRB	✓	
	52	52	BF61708-BLK1			
	53	53	-BS1			
	54	54	-BSD1			
	55	55	0606291-01		Samples ran 2X	
	56	56	-01MS1			
	57	57	-01MSD1			
	58	58	solvent			
	59	59	TPH50			
6/21/06	60	60	TPH50	8100 RRB	HIGH Taking original data	JCS
6/23/06	51	51	TPH50	8100 RRBC	✓	JCS
	52	52	10		✓ 6F15038 CAL1	
	53	53	50		✓ 39 2	
	54	54	100		✓ 40 3	
	55	55	250		✓ 41 4	
	56	56	500		✓ 42 CAL5	
6/23/06	57	57	TPH 50SS	8100 RBC	✓ 6F150 43 SCV1	JCS
	58	58	BF62309-BLK1			
	59	59	-BS1			
	60	60	-BSD1			
6/23/06	61	61	0606357-05	8100 RBC		JCS

Control Number: 60.0003-0601A PAGE_____

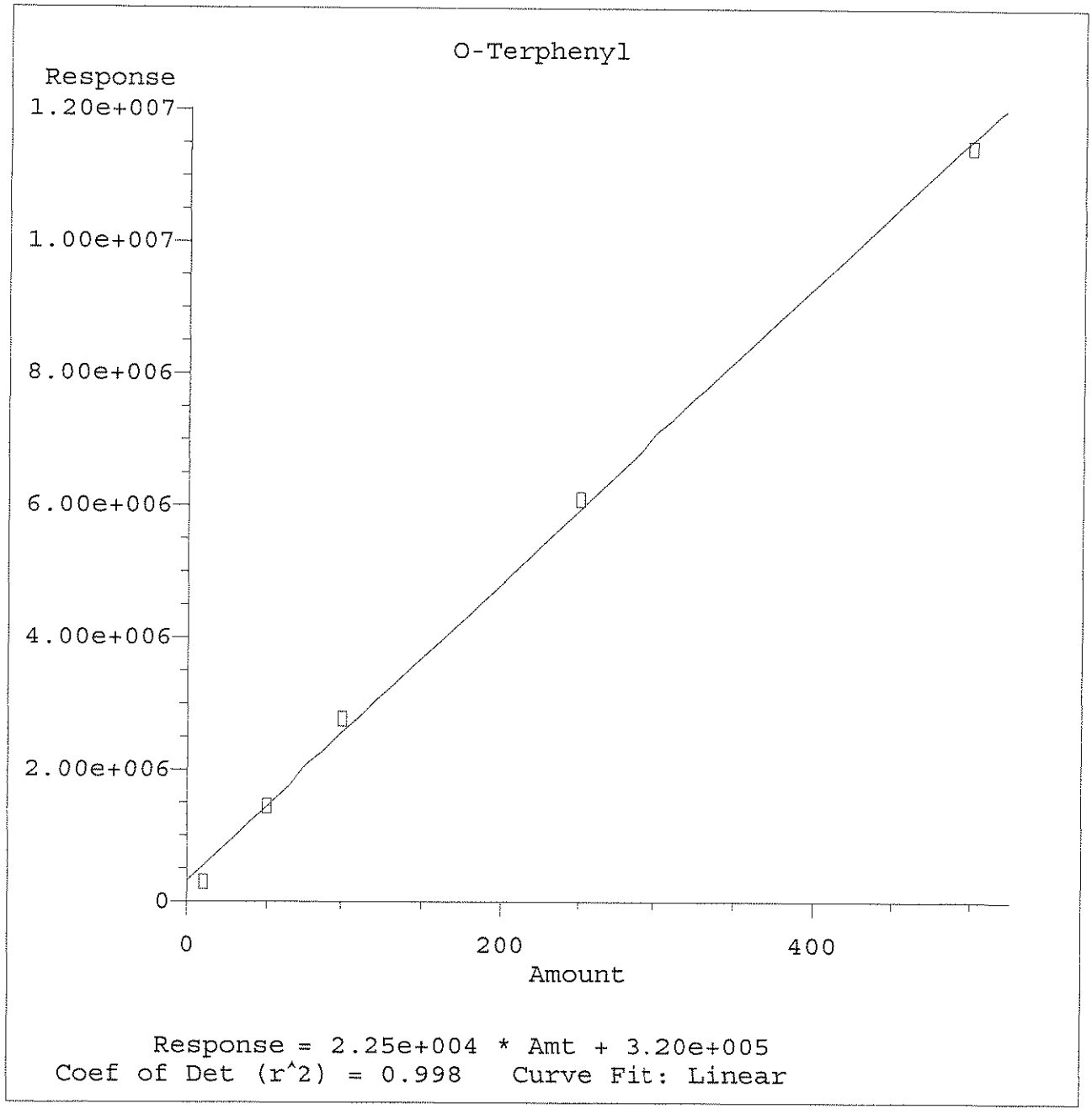
Response Factor Report GC2

Method : Q:\SVOA\TPH_GC2\METHODS\8100RBC.M
Title : ELEMENT ID: 0502007
Last Update : Fri Jun 23 10:51:24 2006
Response via : Initial Calibration

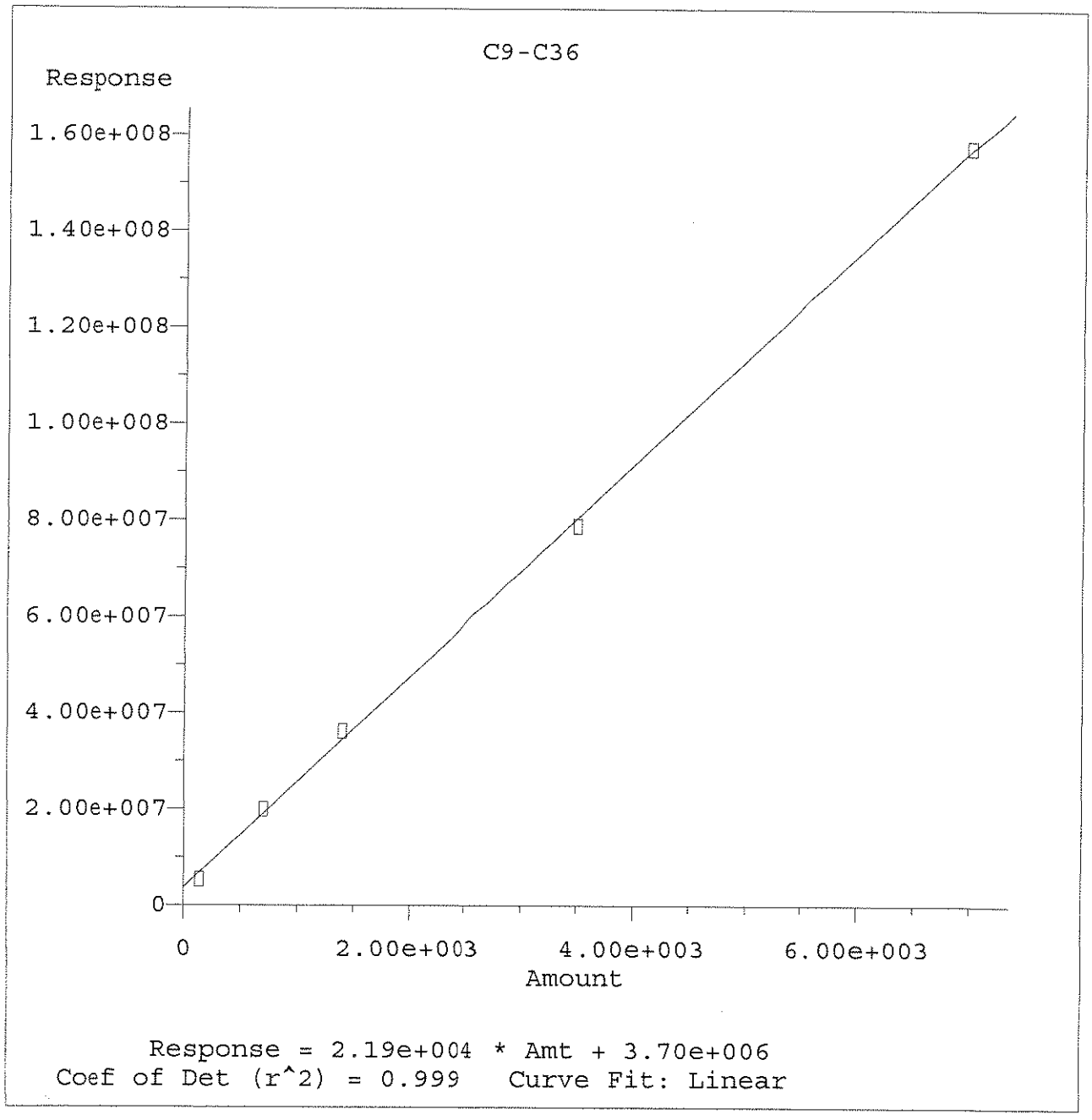
Calibration Files
50 =053R0101.D 10 =052R0101.D 100 =054R0101.D
250 =055R0101.D 500 =056R0101.D

		Compound	50	10	100	250	500	Avg		%RSD
1)	S	O-Terphenyl	29.0	29.8	27.7	24.4	22.9	26.8	E3	11.17
2)	H	C9-C36	28.5	38.2	25.8	22.5	22.5	27.5	E3	23.54
3)	H	C10-C28	27.0	30.0	25.6	23.0	23.1	25.7	E3	11.40

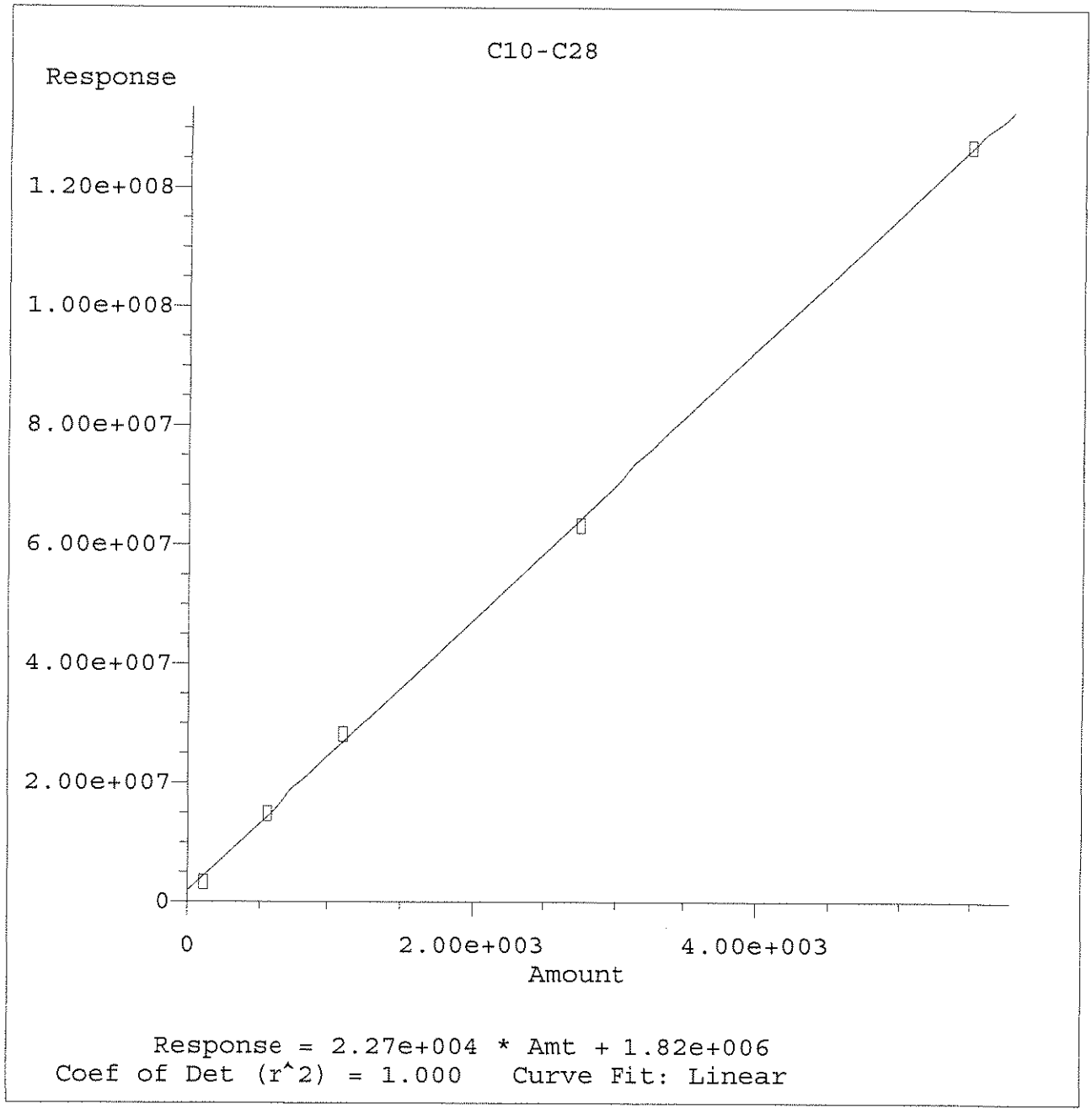
(#) = Out of Range



Method Name: Q:\SVOA\TPH_GC2\METHODS\8100RBC.M
Calibration Table Last Updated: Fri Jun 23 10:51:24 2006



Method Name: Q:\SVOA\TPH_GC2\METHODS\8100RBC.M
Calibration Table Last Updated: Fri Jun 23 10:51:24 2006



Method Name: Q:\SVOA\TPH_GC2\METHODS\8100RBC.M
Calibration Table Last Updated: Fri Jun 23 10:51:24 2006

ANALYSIS SEQUENCE

BPG0270

Instrument: SVOAGC2

Calibnration ID: ~~UNASSIGNED~~ 8100RBC

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0270-CCV1	QC		1		6F30001		
0606383-03	TPH: 8100M TPH/GCFID	A	2				MACTEC Engineering & Consulting, In
0606383-01	TPH: 8100M TPH/GCFID	A	3				MACTEC Engineering & Consulting, In
0606383-07	TPH: 8100M TPH/GCFID	A	4				MACTEC Engineering & Consulting, In
BPG0270-CCV2	QC		5		6F30001		
0606383-05	TPH: 8100M TPH/GCFID	A	6				MACTEC Engineering & Consulting, In
0606383-10	TPH: 8100M TPH/GCFID	A	7				MACTEC Engineering & Consulting, In
BPG0270-CCV3	QC		8		6F30001		

Samples Loaded By Date Data Processed By Date

ESS LABORATORY
GC2 Rear RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS/DILUTION/STANDARD ID	ANALYST
6/28/06	51	628006 51	TPH50	8100RBC		JC
	52	52	TPH50		✓	
	53	53	0606374-05		✓	
	54	54	-07		✓	
	55	55	-15		✓	
	56	56	-09		✓	
	57	57	-03		✓	
	58	58	-01		✓	
	59	59	0606374 -11		✓	
	60	60	0606373-09		✓	
	61	61	-12		✓ LOW SURR	
	62	62	-05		✓	
	63	63	-01		✓	
	64	64	0606373 -03		✓	
	65	65	Solvent			
6/28/06	66	628006 66	TPH50	8101RBC	✓	JC
6/29/06	51	629006 51	TPH 50	8100RBC	✓ CCV1	JC
	52	52	Fuel degradation		X	
	53	53	BF62724-BLK1		RR	
	54	54	-BS1			
	55	55	-BSD1			
	56	56	-BS2		RR	
	57	57	0606383-03		✓	
	58	58	0606383 -01		✓	
	59	59	0606383 -07		✓	
6/29/06	60	60	TPH 50	8100RBC	✓ CCV2	JC
6/29/06	61	61	BF62838-BLK1	8100RBC	~~RR~~ ~~Skipped~~ TLS 6/30/06	TLS
6/29/06	62	62	-BS1	8100RBC		JC

Control Number: 60.0003-0601A PAGE_____

ESS LABORATORY
GC2 Rear RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS/DILUTION/STANDARD ID	ANALYS
6/29/06	63	63	BF62833-BSD1	8100RBC	✓	JCS
	64	64	0606406-01		✓	
	65	65	BF62623-BLK		✓	
	66	66	-BS1		✓	
	67	67	-BSD1		✓	
	68	68	0606405-02		✓	
	69	69	-01		✓	
	70	70	0606383-05		✓	
	71	71	0606389-02		✓	
	72	72	-01		✓	
	73	73	0606383-10		✓	
	74	74	SVOA IS		✓	
	75	75	0606405-04		✓	
	76	76	-03		✓	
	77	77	solvent			
	78	78	solvent			
6/29/06	79	79	TPH50	8100RBC	✓ CCV3	JCS
6/30/06	80	80	0606394-13		BR 5X	
	81	81	-10		BR 10X	
	82	82	-09		BR 10X	
	83	83	-11		BR 10X	
	84	84	0606394-12		BR 10X	
	85	85	~~solvent~~		0606394-13 X5 ✓	
6/30/06	86	86	~~TPH50~~	8100 RBC	0606394-10 X10 ✓	JCS
	87	87	0606394-09		X10 ✓	
	88	88	0606394-11		X10 ✓	
	89	89	0606394-12		X10 ✓	
6/30/06	90	90	solvent	8100RBC		JCS

Control Number: 60.0003-0601A PAGE_____

01

Quantitation Report

Data File : Q:\SVOA\TPH_GC2\DATA\062906\051R0101.D
Acq On : 29 Jun 06 07:52 AM
Sample : TPH50
Misc :
Quant Time: Jun 29 8:42 19106

Vial: 51
Operator: [GC]A.MS
Inst : GC2
Multiplr: 1.00

Method : Q:\SVOA\TPH_GC2\METHODS\8100RBC.M
Title : ELEMENT ID: 0502007
Last Update : Fri Jun 23 10:51:24 2006
Response via : Multiple Level Calibration

Volume Inj. : 1 ul
Signal Phase : RTX-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	O-Terphenyl	13.25f	1530352	53.837	ppm
		Recovery	=	53.84%	
	Target Compounds				
2) H	C9-C36	13.63	20283761	756.690	ppm
3) H	C10-C28	13.63	15659316	608.829	ppm

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : Q:\SVOA\TPH_GC2\DATA\062906\060R0101.D
Acq On : 29 Jun 06 01:28 PM
Sample : TPH50
Misc :
Quant Time: Jun 29 14:05 19106

Vial: 60
Operator: [GC]A.MS
Inst : GC2
Multiplr: 1.00

Method : Q:\SVOA\TPH_GC2\METHODS\8100RBC.M
Title : ELEMENT ID: 0502007
Last Update : Fri Jun 23 10:51:24 2006
Response via : Multiple Level Calibration

Volume Inj. : 1 ul
Signal Phase : RTX-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	O-Terphenyl	13.24f	1507868	52.838 ppm
		Recovery	=	52.84%
	Target Compounds			
2) H	C9-C36	13.63	20204747	753.084 ppm
3) H	C10-C28	13.63	15490863	601.420 ppm

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : Q:\SVOA\TPH_GC2\DATA\GC0606\06290B\079R0201.D Vial: 79
Acq On : 30 Jun 06 06:37 AM Operator: [GC]A.MS
Sample : TPH 50 Inst : GC2
Misc : Multiplr: 1.00
Quant Time: Jun 30 7:38 19106

Method : Q:\SVOA\TPH_GC2\METHODS\8100RBC.M
Title : ELEMENT ID: 0502007
Last Update : Fri Jun 23 10:51:24 2006
Response via : Multiple Level Calibration

Volume Inj. : 1 ul
Signal Phase : RTX-5MS
Signal Info : 0.25

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	O-Terphenyl	13.23f	1295857	43.409	ppm
			Recovery =		43.41%	
		Target Compounds				
2)	H	C9-C36	13.63	17313942	621.181	ppm
3)	H	C10-C28	13.63	13349729	507.239	ppm

(f)=RT Delta > 1/2 Window (m)=manual int.

TPH
Logbooks

ESS Organic Preparation Logbook

Project #: 0606375, 0606383 / 0606394, 0606437
Prep Date: 6/27/06
Batch ID: TXBF62724
Extraction Method: 3541

Surrogate ID#
A 6F060052
B N/A
C

Matrix Spike ID#
D 6C08034
E SPD 6F060052 ~~N/A~~ 6F210706
F N/A

Analytical Matrix: Soil
Extraction Time:
Start: 14:00
Finish:

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
TXBF62724-B	20.0	1	N/A	1	1	N/A	6/27/06	40	N/A	N/A		MCK	SPD	JCS
-BS	20.0	1	1D	1	1									
-BSD	20.0	1	1D	1	1									
-BS DRO	20.0	1	1E	1	1									
-BSD DRO	20.0	1	1E	1	1									
0606375-02	20.5	1	N/A	1	1									
-02 MS	19.4	1	1	1	1									
-02 MSD	20.1	1	1	1	1									
0606383-01	20.7	1	N/A	1	1									
-03	19.7	1		1	1									
-05	19.7	1		1	1									
-07	20.1	1		1	1									
-10	19.8	1		1	1									
0606394-09	19.1	1		1	1									
-10	20.7	1		1	1									
-11	19.5	1		1	1									
-12	20.3	1		1	1									
-13	20.8	1	↓	1	1	↓	↓	↓	↓	↓			↓	
0606437-01	20.1	1	N/A	1	1	N/A	6/27/06	40	N/A	N/A		MCK	SPD	JCS

Acid Washed: Y / (N)
H_2SO_4 ID# N/A

Cu Cleaned: Y / (N)
Cu ID# N/A

Florisiled: Y / (N)
Lot# N/A

Silica Column/Carbon prep: Y / (N)
Lot # N/A

Prepared By: MCK Glasswool: PRJ060606F Method #(s): 8100

CH_2Cl_2 lot # CQ0689 NaOH ID# N/A

Hexane lot# N/A Na_2SO_4 ID# PRJ060606B

Acetone lot#

**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A

BATCH ID/Test: BF62724

BATCH ID/Test:

Page

Analysis Performed: PCB ☐ B/N SVOA ☐ SVOA ☐ LL PAH ☐ PEST ☐ TPH/GC ☐ BIS-2 ☐ PAH ☐

CHEMTECH 284 Sheffield Street • Mountainside, NJ 07092 Phone: 908.789.8900 Fax: 908.789.8922

DATA PACKAGE FOR GENERAL CHEMISTRY

PROJECT NAME: RI SITE

ESS LABORATORY, INC.
185 FRANCES AVE
CRANSTON, RI 02910
4014617181

CHEMTECH PROJECT NO.	**X3449**
ATTENTION:	**Jena Paola**

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

COVER PAGE

CHEMTECH
284 Sheffield Street, Mountainside NJ 07092
Tel: 908-789-8900 Fax 908-789-8922

COVER PAGE

ProjectID: RI SITE

OrderID: X3449 **CustomerName:** ESS Laboratory, inc.

LAB SAMPLE NO.	CLIENT SAMPLE NO
X3449-01	0606383-01
X3449-02	0606383-03
X3449-03	0606383-05
X3449-04	0606383-07
X3449-05	0606383-10

I certify that the data package is in compliance with the terms and conditions of the contrac both technically and for completeness, for other than the conditions detailed above. Releas of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature

Signature: Mildred V Reyes Name: Mildred V Reyes

Date: 7/6/06 Title: QA/QC

CHEMTECH

QA/QC DELIVERABLES CHECKLIST

Project Number: X3449

THIS FORM HAS BEEN COMPLETED BY CHEMTECH LABORATORY AND ACCOMPANIES ALL DATA DELIVERABLES PACKAGES.

The following laboratory deliverables are included in this analytical report. Any deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non- Conformance Summary.

		Yes	NA
I.	Report Cover Page, Laboratory Certification and Field Sample to Lab Sample ID Cross Reference	✓	
II.	Table of Contents	✓	
III.	Chain of Custody Documents	✓	
IV.	Methodology Summaries	✓	
V.	Laboratory Chronicle and Hold Time Checks	✓	
VI.	Non-Conformance Summary	✓	
VII.	Tabulated Analytical Results	✓	
VIII.	Initial and Continuing Calibration Information	✓	
IX.	Tune and Internal Standard Area Summaries (GC/MS)		✓
X.	Quality Control Summary Reports	✓	
XI.	Surrogate Recovery Summary		✓
XII.	Raw Data Chromatogram, Blank, Samples and QC when applicable	✓	
XIII.	Subcontract Data		✓

Zh Rohan
QA/QC Data Reviewer

07/06/06
Date

☐ 110 Route 4
Englewood, NJ 07631
Phone: 201.568.7400 Fax: 201.567.3231

NYSDOH Certification No. 10624

☑ 284 Sheffield Street
Mountainside, NJ 07092
Tel 908.789.8900 Fax: 908.789.8922

NYSDOH Certification No. 11376
NJDEP Certification No. 20012

TABLE OF CONTENTS
PROJECT NUMBER: X3349RQ

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

CHAIN OF CUSTODY RECORD

X34469

ESS Laboratory CHEMTECH CHAIN OF CUSTODY

Page 1 of 1

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

Turn Time ___ Standard Other ___
If faster than 5 days, prior approval by laboratory is required # ___

State where samples were collected from:
MA (RI) CT NH NJ NY ME Other ___

Is this project for any of the following:
MA-MCP Navy USACE Other ___

Reporting Limits

ESS LAB PROJECT ID: 0606383

Electronic Deliverable ___ Yes ___ No

Format: Excel__ Access__ PDF__ Other ___

Co. Name	Project #	Project Name (20 Char. or less)
Contact Person: Jena Paola	Address	
City / State / Zip	PO#	
Telephone #	Fax #	Email Address

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis: TOC *
871	6-22-06	1635		X	S	0606383-01	1	1	G	X
	↓	1700		X	S	-03	1	1	G	X
		1735		X	S	-05	1	1	G	X
		1810		X	S	-07	1	1	G	X
	6-22-06	1845		X	S	0606383-10	1	1	G	X

Container Type: P-Poly (G-Glass) S-Sterile V-VOA | Matrix: (S-Soil) SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No Internal Use Only

Seals Intact ✓ Yes ___ No NA: ___ [ ] Pickup

Cooler Temp: 4°C [ ] Technicians ___

Preservation Code: (1-) NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ___

Sampled by: Need results by 6-30-06 eT 1300 HR.

Comments: *Decant all Free Liquids Then Analize ASAP % moisture

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
J. Davis	6-23-06 1800						
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

1000

FedEx Express — US Airbill

FedEx Tracking Number 8576 2807 5487

Form ID No. 0215

Recipient's Copy

1 From This portion can be removed for Recipient's records.

Date 6-23-06 FedEx Tracking Number 857628075487

Sender's Name ESS Laboratory Phone [illegible]

Company [illegible]

Address [illegible] Dept/Floor/Suite/Room

City [illegible] State [illegible] ZIP [illegible]

2 Your Internal Billing Reference 7.5

3 To

Recipient's Name Sample Receiving Phone 908 [illegible]

Company ChemTech

Recipient's Address 254 Sheffield St.

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept/Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City Mountain Side State NJ ZIP 07092

8576 2807 5487

4a Express Package Service — *Packages up to 150 lbs.*

- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate. * To most locations.

4b Express Freight Service — *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation. ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

* Declared value limit $500

6 Special Handling — Include FedEx address in Section 3

- [x] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods?

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. [ ]

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages	Total Weight	Total Charges
1	15	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

8 *NEW* Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Anyone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, anyone at a neighboring address may sign for delivery. *Fee applies.*

519

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Copy
Original Documents are included in CSF X34448

Signature

6/24/06
Date

8

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Laboratory Certification

State	License No.
New Jersey	20012
New York	11376
Arizona	AZ0653
Connecticut	PH-0649
Florida	E87935
Kansas	E-10355
Maryland	296
Massachusetts	M-NJ503
Maine	NJ0503
North Carolina	630
Oklahoma	9705
Pennsylvania	68-548
Rhode Island	LAO00259

QA Control Code: A2070148

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DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	If the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	If the analyte was analyzed for, but not detected.
E	The reported value is estimated because of the presence of interference
M	Duplicate injection precision not met.
N	Spiked sample recovery not within control limits.
S	The reported value was determined by the Method of Standard Addition (MSA).
W	Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while absorbance is less that 50% of spike absorbance.
*	Duplicate analysis not within control limits.
+	Correlation coefficient for the MSA is less than 0.995.
***	Entering "S", "W " or " +" is mutually exclusive. NO combination of these qualifiers can appear in the same field for an analyte.
D	The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers "P" for ICP instrument "A" for Flame AA "PM" for ICP when Microwave Digestion is used "AM" for flame AA when Microwave Digestion is used "FM" for furnace AA when Microwave Digestion is used "CV" for Manual Cold Vapor AA "AV" for automated Cold Vapor AA "CA" for MIDI-Distillation Spectrophotometric "AS" for Semi -Automated Spectrophotometric "C" for Manual Spectrophotometric "T" for Titrimetric "NR" for analyte not required to be analyzed
OR	**Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.**

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: X3449

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody and on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓

1st Level QA Review Signature: Zh. Rohani Date: 07/06/06

2nd Level QA Review Signature: Mildred U Reyes Date: 7/6/06

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Tel: 908-789-8900

METHODOLOGY REVIEW & LABORATORY CHRONICLE

CHEMTECH

Lab Chronicle

Order ID:	X3449	Order Date:	6/24/2006 11:33:35 AM
Client:	ESS Laboratory, inc.	Project:	RI SITE
Contact:	Jena Paola	Location	P22

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
X3449-01	**0606383-01**	**SOIL**			**06/22/06**			**06/24/06**
			Percent Moisture	Chemtech -SOP		06/29/06	06/29/06	
			TOC	9060		06/27/06	06/27/06	
X3449-02	**0606383-03**	**SOIL**			**06/22/06**			**06/24/06**
			Percent Moisture	Chemtech -SOP		06/29/06	06/29/06	
			TOC	9060		06/27/06	06/27/06	
X3449-03	**0606383-05**	**SOIL**			**06/22/06**			**06/24/06**
			Percent Moisture	Chemtech -SOP		06/29/06	06/29/06	
			TOC	9060		06/27/06	06/27/06	
X3449-04	**0606383-07**	**SOIL**			**06/22/06**			**06/24/06**
			Percent Moisture	Chemtech -SOP		06/29/06	06/29/06	
			TOC	9060		06/27/06	06/27/06	
X3449-05	**0606383-10**	**SOIL**			**06/22/06**			**06/24/06**
			Percent Moisture	Chemtech -SOP		06/29/06	06/29/06	
			TOC	9060		06/27/06	06/27/06	

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CONFORMANCE/ NON-CONFORMANCE SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092
NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: X3449 MATRIX: Solid

METHOD: 9060

		NA	NO	YES
1.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
2.	Matrix Spikee Duplicate Recoveries Met Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Matrix Spike analysis met criteria for all samples except for TOC.			
3.	Sample Duplicate Analysis Met QC Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
4.	Digestion Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Zh. Rohani
QA REVIEW

07/06/06
Date

TABULATED ANALYTICAL RESULTS
GENEREL CHEMISTRY

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2401
Date Sampled: 06/22/06 16:35
Percent Solids: 40

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-01
Sample Matrix: Soil

Classical Chemistry

Analyte	Results	Units	MRL	Method	Analyst	Analyzed
Total Organic Carbon	**23000**	mg/kg	620	§	§	06/27/06

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Report of Analysis

Client:	ESS Laboratory, inc.	**Date Collected:**	6/22/2006
Project:	RI SITE	**Date Received:**	6/24/2006
Client Sample ID:	0606383-01	**SDG No.:**	X3449
Lab Sample ID:	X3449-01	**Matrix:**	SOIL
% Solids:	40.00		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Percent Moisture	60.0		0.00	%	1	6/29/2006	Percent Moisture
TOC	23000.0		620.0	mg/Kg	1	6/27/2006	9060 TOC SOLID

Comment

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2201
Date Sampled: 06/22/06 17:00
Percent Solids: 30

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-03
Sample Matrix: Soil

Classical Chemistry

Analyte	Results	Units	MRL	Method	Analyst	Analyzed
Total Organic Carbon	**24000**	mg/kg	670	§	§	06/27/06

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Report of Analysis

Client:	**ESS Laboratory, inc.**	**Date Collected:**	**6/22/2006**
Project:	**RI SITE**	**Date Received:**	**6/24/2006**
Client Sample ID:	**0606383-03**	**SDG No.:**	**X3449**
Lab Sample ID:	**X3449-02**	**Matrix:**	**SOIL**
% Solids:	**37.10**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Percent Moisture	62.9		0.00	%	1	6/29/2006	Percent Moisture
TOC	24000.0		670.0	mg/Kg	1	6/27/2006	9060 TOC SOLID

Comment

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2701
Date Sampled: 06/22/06 17:35
Percent Solids: 20

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-05
Sample Matrix: Soil

Classical Chemistry

Analyte	Results	Units	MRL	Method	Analyst	Analyzed
Total Organic Carbon	**46000**	mg/kg	1100	§	§	06/27/06

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Report of Analysis

Client:	**ESS Laboratory, inc.**	**Date Collected:**	**6/22/2006**
Project:	**RI SITE**	**Date Received:**	**6/24/2006**
Client Sample ID:	**0606383-05**	**SDG No.:**	**X3449**
Lab Sample ID:	**X3449-03**	**Matrix:**	**SOIL**
% Solids:	**21.80**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Percent Moisture	78.2		0.00	%	1	6/29/2006	Percent Moisture
TOC	46000.0		1100.0	mg/Kg	1	6/27/2006	9060 TOC SOLID

Comment

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2601
Date Sampled: 06/22/06 18:10
Percent Solids: 54

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-07
Sample Matrix: Soil

Classical Chemistry

Analyte		Results	Units	MRL	Method	Analyst	Analyzed
Total Organic Carbon	>	29600	mg/kg	N/A	§	§	06/27/06

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Report of Analysis

Client:	**ESS Laboratory, inc.**	**Date Collected:**	**6/22/2006**
Project:	**RI SITE**	**Date Received:**	**6/24/2006**
Client Sample ID:	**0606383-07**	**SDG No.:**	**X3449**
Lab Sample ID:	**X3449-04**	**Matrix:**	**SOIL**
% Solids:	**54.10**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Percent Moisture	45.9		0.00	%	1	6/29/200€	Percent Moisture
TOC	>29575		0.00	mg/Kg	1	6/27/200€	9060 TOC SOLID

Comment

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2501
Date Sampled: 06/22/06 18:45
Percent Solids: 30

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-10
Sample Matrix: Soil

Classical Chemistry

Analyte		Results	Units	MRL	Method	Analyst	Analyzed
Total Organic Carbon	>	46100	mg/kg	N/A	§	§	06/27/06

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Report of Analysis

Client:	ESS Laboratory, inc.	**Date Collected:**	6/22/2006
Project:	RI SITE	**Date Received:**	6/24/2006
Client Sample ID:	0606383-10	**SDG No.:**	X3449
Lab Sample ID:	X3449-05	**Matrix:**	SOIL
% Solids:	34.70		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Percent Moisture	65.3		0.00	%	1	6/29/200€	Percent Moisture
TOC	>46110		0.00	mg/Kg	1	6/27/200€	9060 TOC SOLID

Comment

QUALITY CONTROL SUMMARY REPORTS GENEREL CHEMISTRY

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Method Detection Limits

Client: ESS Laboratory, inc. **SDG No.:** X3449

Project:

Analyte	Units	MDL	RDL
Method: 9060 TOC SOLID	**MDL Date: 1/15/2006**		
Matrix Category: SOLIDS			
TOC	mg/Kg	250.00	250.00
Method: Percent Moisture	**MDL Date: 1/15/2006**		
Matrix Category: SOLIDS			
Percent Moisture	%	0.00	0.00

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Initial and Continuing Calibration Verification

Client: ESS Laboratory, inc. **SDG No.:** X3449

Project:

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
TOC	mg/L	2062.0	2000.0	103.1	80-120	6/2/2006
Sample ID: CCV1						
TOC	mg/L	1919.0	2000.0	95.9	80-120	6/27/2006
Sample ID: CCV2						
TOC	mg/L	1895.0	2000.0	94.8	80-120	6/27/2006

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Initial and Continuing Calibration Blank Summary

Client: ESS Laboratory, inc. **SDG No.:** X3449

Project:

Analyte	Units	Result	Acceptance Limits	Conc Qual	RDL	Analysis Date
Sample ID: ICB1						
TOC	mg/L	< 0.40	+/-0.40	U	0.40	6/2/2006
Sample ID: CCB1						
TOC	mg/L	< 0.40	+/-0.40	U	0.40	6/27/2006
Sample ID: CCB2						
TOC	mg/L	< 0.40	+/-0.40	U	0.40	6/27/2006

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Preparation Blank Summary

Client: ESS Laboratory, inc. **SDG No.:** X3449

Project:

Analyte	Units	Result	Acceptance Limits	Conc Qual	RDL	Analysis Date
Sample ID: MBS						
TOC	mg/Kg	< 250.00	+/-250.00	U	250.00	6/27/2006

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Matrix Spike Summary

Client: ESS Laboratory, inc. **SDG No.:** X3449

Project: **Sample ID:** X3448-08

Client ID: 0606374-15S **Percent Solids for Spike Sample:** 72.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	Dilution Factor	% Rec	Qual	Date Analyzed
TOC	mg/Kg	75-125	11881.9		7210.0		2747.3	1	170.0		6/27/2006

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Duplicate Sample Summary

Client: ESS Laboratory, inc. **SDG No.:** X3449

Project: **Sample ID:** X3448-08

Client ID: 0606374-15D **Percent Solids for Spike Sample:** 72.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	Dilution Factor	RPD/ AD	Qual	Date Analyzed
TOC	mg/Kg	+/-20	7210.00		7210.0		1	0		6/27/2006

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END OF ANALYTICAL RESULTS

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DETERMINATION OF PCDD/PCDF LEVELS

Prepared for:
ESS Laboratory
Attn: Jena Paola
185 Frances Avenue
Cranston, RI 02910-2211

ACCREDITED IN ACCORDANCE WITH nelac

This report contains 19 pages.

The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Project: Chemical Analysis

Client Project Number: 0606383

REPORT OF LABORATORY ANALYSIS

ACCREDITED IN ACCORDANCE WITH nelac

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REPORT OF: CHEMICAL ANALYSES

PROJECT: PCDD/PCDF ANALYSES

DATE: July 11, 2006

ISSUED TO: ESS Laboratory
Attn: Jena Paola
185 Frances Avenue
Cranston, RI 02910-2211

REPORT NO: 06-1034314

INTRODUCTION

This report presents the results from the analyses performed on five samples submitted by a representative of ESS Laboratory. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290.

SAMPLE IDENTIFICATION

Client ID	Sample Type	Date Received	PACE ID
0606383-01	Solid	06/24/06	1034314001
0606383-03	Solid	06/24/06	1034314002
0606383-05	Solid	06/24/06	1034314003
0606383-07	Solid	06/24/06	1034314004
0606383-10	Solid	06/24/06	1034314005

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REPORT OF: CHEMICAL ANALYSES

PROJECT: PCDD/PCDF ANALYSES

DATE: July 11, 2006

REPORT NO: 06-1034314

RESULTS

The results are included in the following:

Appendix A – Chain of Custody Documentation
Appendix B – PCDD/PCDF Results

DISCUSSION

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 52-130%. All of the labeled standard recoveries obtained for the samples were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In some cases, interfering substances impacted the determinations of PCDD or PCDF congeners. The affected values were flagged "I" where incorrect isotope ratios were obtained, or "E" where polychlorinated diphenyl ethers were present.

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show two of the blanks to contain trace levels of selected PCDDs and PCDFs. These levels were below the calibration range of the method. Sample levels similar to the corresponding blank level were flagged "B" on the results tables and may be, at least partially, attributed to the background. It should be noted that levels less than ten times the background are not generally considered to be statistically different from the background.

A laboratory spike sample was also prepared with each sample batch using clean sand that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 81-111%. These results indicate a high degree of accuracy for these determinations.

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REPORT OF: CHEMICAL ANALYSES

PROJECT: PCDD/PCDF ANALYSES **DATE:** July 11, 2006

PAGE: 3 **REPORT NO:** 06-1034314

REMARKS

The sample extracts will be retained for a period of 15 days from the date of this report and then discarded unless other arrangements are made. The raw mass spectral data will be archived on magnetic tape for a period of not less than one year. Questions regarding the data contained in this report may be directed to the author at the number provided below.

Pace Analytical Services, Inc.

Scott C. Unze
Project Manager, HRMS
(612) 607-6383

REPORT OF LABORATORY ANALYSIS

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TABLE 1. 2,3,7,8-TCDD Equivalency Factors (TEFs) for the Polychlorinated Dibenzo-p-dioxins and Dibenzofurans

Number	Compound(s)	TEF
1	2,3,7,8-TCDD	1.00
2	1,2,3,7,8-PeCDD	0.50
3	1,2,3,6,7,8-HxCDD	0.1
4	1,2,3,7,8,9-HxCDD	0.1
5	1,2,3,4,7,8-HxCDD	0.1
6	1,2,3,4,6,7,8-HpCDD	0.01
7	OCDD	0.001
8	* Total - TCDD	0.0
9	* Total - PeCDD	0.0
10	* Total - HxCDD	0.0
11	* Total - HpCDD	0.0
12	2,3,7,8-TCDF	0.10
13	1,2,3,7,8-PeCDF	0.05
14	2,3,4,7,8-PeCDF	0.5
15	1,2,3,6,7,8-HxCDF	0.1
16	1,2,3,7,8,9-HxCDF	0.1
17	1,2,3,4,7,8-HxCDF	0.1
18	2,3,4,6,7,8-HxCDF	0.1
19	1,2,3,4,6,7,8-HpCDF	0.01
20	1,2,3,4,7,8,9-HpCDF	0.01
21	OCDF	0.001
22	* Total - TCDF	0.0
23	* Total - PeCDF	0.0
24	* Total - HxCDF	0.0
25	* Total - HpCDF	0.0

*Excluding the 2,3,7,8-substituted congeners.

Reference: International Toxic Equivalence

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APPENDIX A

ESS Laboratory Pace

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CHAIN OF CUSTODY

1034314

Page _____ of _____

Turn Time X Standard Other _____
If faster than 5 days, prior approval by laboratory is required #_____
State where samples were collected from:
MA RI CT NH NJ NY ME Other _____
Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 0606383

Electronic Deliverable ___ Yes ___ No
Format: Excel__ Access__ PDF__ Other _____

Co. Name	Project #	Project Name (20 Char. or less)
Contact Person: Jena Paola	Address	
City / State / Zip		PO#
Telephone #	Fax #	Email Address

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Dioxins/Furans													
	6-22-06	1635			S	0606383-01	1	1	G	X													001
		1700		X	S	-03	1	1	G	X													002
		1735		X	S	-05	1	1	G	X													003
905		1810		X	S	-07	1	1	G	X													004
	6-22-06	1845		X	S	0606383-10	1	1	G	X													005

Write Required Analysis

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No
Seals Intact ___ Yes ___ No NA: ___
Cooler Temp: 4.8

Internal Use Only
[ ] Pickup
[ ] Technicians_____

Preservation Code: 1- NP 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9-_____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
J Davis	6/23/06 1800	J. Richardson	6/24/06 8:25				

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

APPENDIX B

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Blank Analysis Results

Client - ESS Laboratory

Lab Sample ID	BLANK-10057	Matrix	Solid
Filename	F60630A_04	Dilution	NA
Total Amount Extracted	10.2 g	Extracted	06/28/2006
ICAL Date	05/31/2006	Analyzed	06/30/2006 11:34
CCal Filename(s)	F60630A_01 & F60630A_13	Injected By	CVS

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.200		2,3,7,8-TCDF-13C	2.00	76
Total TCDF	ND	-----	0.200		2,3,7,8-TCDD-13C	2.00	76
					1,2,3,7,8-PeCDF-13C	2.00	73
2,3,7,8-TCDD	ND	-----	0.200		2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	ND	-----	0.200		1,2,3,7,8-PeCDD-13C	2.00	103
					1,2,3,4,7,8-HxCDF-13C	2.00	75
1,2,3,7,8-PeCDF	ND	-----	0.980		1,2,3,6,7,8-HxCDF-13C	2.00	70
2,3,4,7,8-PeCDF	ND	-----	0.980		2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	ND	-----	0.980		1,2,3,7,8,9-HxCDF-13C	2.00	75
					1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	0.980		1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	-----	0.980		1,2,3,4,6,7,8-HpCDF-13C	2.00	70
					1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	ND	-----	0.980		1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	ND	-----	0.980		OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	ND	-----	0.980				
1,2,3,7,8,9-HxCDF	ND	-----	0.980		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.980		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.980		2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	-----	0.980				
1,2,3,7,8,9-HxCDD	ND	-----	0.980				
Total HxCDD	ND	-----	0.980				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.980		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.980		Equivalence: 0.0056 ng/Kg		
Total HpCDF	ND	-----	0.980		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.980				
Total HpCDD	ND	-----	0.980				
OCDF	ND	-----	2.000				
OCDD	5.6	-----	2.000	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LRL = Lower Reporting Limit
J = Concentration detected is below the calibration range
P = Recovery outside of target range
A = Detection Limit based on signal-to-noise measurement

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Blank Analysis Results

Client - ESS Laboratory

Lab Sample ID	BLANK-10081	Matrix	Solid
Filename	P60701B_05	Dilution	NA
Total Amount Extracted	10.4 g	Extracted	06/29/2006
ICAL Date	05/20/2006	Analyzed	07/01/2006 18:50
CCal Filename(s)	P60701B_02 & P60701B_18	Injected By	BAL

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.200	A	2,3,7,8-TCDF-13C	2.00	71
Total TCDF	ND	-----	0.190		2,3,7,8-TCDD-13C	2.00	65
					1,2,3,7,8-PeCDF-13C	2.00	53
2,3,7,8-TCDD	ND	-----	0.240	A	2,3,4,7,8-PeCDF-13C	2.00	56
Total TCDD	ND	-----	0.190		1,2,3,7,8-PeCDD-13C	2.00	66
					1,2,3,4,7,8-HxCDF-13C	2.00	76
1,2,3,7,8-PeCDF	ND	-----	0.970		1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	ND	-----	0.970		2,3,4,6,7,8-HxCDF-13C	2.00	64
Total PeCDF	ND	-----	0.970		1,2,3,7,8,9-HxCDF-13C	2.00	68
					1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	ND	-----	0.970		1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	ND	-----	0.970		1,2,3,4,6,7,8-HpCDF-13C	2.00	68
					1,2,3,4,7,8,9-HpCDF-13C	2.00	66
1,2,3,4,7,8-HxCDF	ND	-----	0.970		1,2,3,4,6,7,8-HpCDD-13C	2.00	85
1,2,3,6,7,8-HxCDF	ND	-----	0.970		OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	ND	-----	0.970				
1,2,3,7,8,9-HxCDF	ND	-----	0.970		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.970		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.970		2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	ND	-----	0.970				
1,2,3,7,8,9-HxCDD	ND	-----	0.970				
Total HxCDD	ND	-----	0.970				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.970		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.970		Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	0.970		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.970				
Total HpCDD	ND	-----	0.970				
OCDF	ND	-----	1.900				
OCDD	ND	-----	1.900				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LRL = Lower Reporting Limit
J = Concentration detected is below the calibration range
P = Recovery outside of target range
A = Detection Limit based on signal-to-noise measurement

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

Pace Analytical™

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Blank Analysis Results

Client - ESS Laboratory

Lab Sample ID	BLANK-10086	Matrix	Solid
Filename	U60703A_05	Dilution	NA
Total Amount Extracted	20.2 g	Extracted	06/30/2006
ICAL Date	07/01/2006	Analyzed	07/03/2006 19:08
CCal Filename(s)	U60703A_02 & U60703A_18	Injected By	BAL

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.10	-----	0.099	J	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	0.10	-----	0.099	J	2,3,7,8-TCDD-13C	2.00	74
					1,2,3,7,8-PeCDF-13C	2.00	72
2,3,7,8-TCDD	ND	-----	0.099		2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	0.11	-----	0.099	J	1,2,3,7,8-PeCDD-13C	2.00	87
					1,2,3,4,7,8-HxCDF-13C	2.00	82
1,2,3,7,8-PeCDF	ND	-----	0.490		1,2,3,6,7,8-HxCDF-13C	2.00	75
2,3,4,7,8-PeCDF	ND	-----	0.490		2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF	ND	-----	0.490		1,2,3,7,8,9-HxCDF-13C	2.00	76
					1,2,3,4,7,8-HxCDD-13C	2.00	79
1,2,3,7,8-PeCDD	ND	-----	0.490		1,2,3,6,7,8-HxCDD-13C	2.00	66
Total PeCDD	ND	-----	0.490		1,2,3,4,6,7,8-HpCDF-13C	2.00	72
					1,2,3,4,7,8,9-HpCDF-13C	2.00	65
1,2,3,4,7,8-HxCDF	ND	-----	0.490		1,2,3,4,6,7,8-HpCDD-13C	2.00	78
1,2,3,6,7,8-HxCDF	ND	-----	0.490		OCDD-13C	4.00	75
2,3,4,6,7,8-HxCDF	ND	-----	0.490				
1,2,3,7,8,9-HxCDF	ND	-----	0.490		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.490		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.490		2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	-----	0.490				
1,2,3,7,8,9-HxCDD	ND	-----	0.490				
Total HxCDD	ND	-----	0.490				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.490		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.490		Equivalence: 0.011 ng/Kg		
Total HpCDF	ND	-----	0.490		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.490				
Total HpCDD	ND	-----	0.490				
OCDF	ND	-----	0.990				
OCDD	1.30	-----	0.990	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LRL = Lower Reporting Limit
J = Concentration detected is below the calibration range
P = Recovery outside of target range
A = Detection Limit based on signal-to-noise measurement

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2401
Date Sampled: 06/22/06 16:35

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-01
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

Pace Analytical™
Pace Analytical Services, In
1700 Elm Street - Suite 20
Minneapolis, MN 5541
Tel: 612-607-170
Fax: 612- 607-644

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606383-01		
Lab Sample ID	1034314001		
Filename	P60702A_12		
Injected By	BAL		
Total Amount Extracted	19.4 g	Matrix	Solid
% Moisture	59.6	Dilution	NA
Dry Weight Extracted	7.82 g	Collected	06/22/2006
ICAL Date	05/20/2006	Received	06/24/2006
CCal Filename(s)	P60701B_18 & P60702A_17	Extracted	06/28/2006
Method Blank ID	BLANK-10057	Analyzed	07/02/2006 13:32

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	8.0	0.26	E	2,3,7,8-TCDF-13C	2.00	78
Total TCDF	320.00	-----	0.26		2,3,7,8-TCDD-13C	2.00	79
					1,2,3,7,8-PeCDF-13C	2.00	62
2,3,7,8-TCDD	0.72	-----	0.26	J	2,3,4,7,8-PeCDF-13C	2.00	73
Total TCDD	17.00	-----	0.26		1,2,3,7,8-PeCDD-13C	2.00	89
					1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	5.50	-----	1.30	J	1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	95.00	-----	1.30		2,3,4,6,7,8-HxCDF-13C	2.00	74
Total PeCDF	1100.00	-----	1.30		1,2,3,7,8,9-HxCDF-13C	2.00	77
					1,2,3,4,7,8-HxCDD-13C	2.00	90
1,2,3,7,8-PeCDD	2.40	-----	1.30	J	1,2,3,6,7,8-HxCDD-13C	2.00	71
Total PeCDD	29.00	-----	1.30		1,2,3,4,6,7,8-HpCDF-13C	2.00	73
					1,2,3,4,7,8,9-HpCDF-13C	2.00	73
1,2,3,4,7,8-HxCDF	12.00	-----	1.30		1,2,3,4,6,7,8-HpCDD-13C	2.00	95
1,2,3,6,7,8-HxCDF	16.00	-----	1.30		OCDD-13C	4.00	72
2,3,4,6,7,8-HxCDF	12.00	-----	1.30				
1,2,3,7,8,9-HxCDF	7.00	-----	1.30		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	490.00	-----	1.30		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.30	-----	1.30	J	2,3,7,8-TCDD-37Cl4	0.20	94
1,2,3,6,7,8-HxCDD	5.40	-----	1.30	J			
1,2,3,7,8,9-HxCDD	2.80	-----	1.30	J			
Total HxCDD	50.00	-----	1.30				
1,2,3,4,6,7,8-HpCDF	29.00	-----	1.30		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	4.50	-----	1.30	J	Equivalence: 56 ng/Kg		
Total HpCDF	66.00	-----	1.30		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	29.00	-----	1.30				
Total HpCDD	58.00	-----	1.30				
OCDF	17.00	-----	2.60				
OCDD	170.00	-----	2.60				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2201
Date Sampled: 06/22/06 17:00

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-03
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/
Dioxin	See Attached								

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606383-03		
Lab Sample ID	1034314002		
Filename	P60702A_14		
Injected By	BAL		
Total Amount Extracted	16.2 g	Matrix	Solid
% Moisture	65.3	Dilution	10
Dry Weight Extracted	5.63 g	Collected	06/22/2006
ICAL Date	05/20/2006	Received	06/24/2006
CCal Filename(s)	P60701B_18 & P60702A_17	Extracted	06/29/2006
Method Blank ID	BLANK-10081	Analyzed	07/02/2006 15:08

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	27.0	-----	4.3	A	2,3,7,8-TCDF-13C	2.00	78
Total TCDF	4500.0	-----	3.6		2,3,7,8-TCDD-13C	2.00	77
					1,2,3,7,8-PeCDF-13C	2.00	61
2,3,7,8-TCDD	6.8	-----	4.5	A	2,3,4,7,8-PeCDF-13C	2.00	71
Total TCDD	150.0	-----	3.6		1,2,3,7,8-PeCDD-13C	2.00	90
					1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	41.0	-----	18.0		1,2,3,6,7,8-HxCDF-13C	2.00	70
2,3,4,7,8-PeCDF	1300.0	-----	18.0		2,3,4,6,7,8-HxCDF-13C	2.00	74
Total PeCDF	14000.0	-----	18.0		1,2,3,7,8,9-HxCDF-13C	2.00	79
					1,2,3,4,7,8-HxCDD-13C	2.00	88
1,2,3,7,8-PeCDD	18.0	-----	18.0		1,2,3,6,7,8-HxCDD-13C	2.00	64
Total PeCDD	200.0	-----	18.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	74
					1,2,3,4,7,8,9-HpCDF-13C	2.00	73
1,2,3,4,7,8-HxCDF	68.0	-----	18.0		1,2,3,4,6,7,8-HpCDD-13C	2.00	92
1,2,3,6,7,8-HxCDF	160.0	-----	18.0		OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	150.0	-----	18.0				
1,2,3,7,8,9-HxCDF	62.0	-----	18.0		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	5500.0	-----	18.0		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	18.0		2,3,7,8-TCDD-37Cl4	0.20	91
1,2,3,6,7,8-HxCDD	28.0	-----	18.0				
1,2,3,7,8,9-HxCDD	ND	-----	18.0				
Total HxCDD	310.0	-----	18.0				
1,2,3,4,6,7,8-HpCDF	160.0	-----	18.0		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	25.0	-----	18.0		Equivalence: 700 ng/Kg		
Total HpCDF	420.0	-----	18.0		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	110.0	-----	18.0				
Total HpCDD	240.0	-----	18.0				
OCDF	44.0	-----	36.0				
OCDD	500.0	-----	36.0				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2701
Date Sampled: 06/22/06 17:35

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-05
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606383-05		
Lab Sample ID	1034314003		
Filename	P60702A_15		
Injected By	BAL		
Total Amount Extracted	23.4 g	Matrix	Solid
% Moisture	79.5	Dilution	10
Dry Weight Extracted	4.79 g	Collected	06/22/2006
ICAL Date	05/20/2006	Received	06/24/2006
CCal Filename(s)	P60701B_18 & P60702A_17	Extracted	06/29/2006
Method Blank ID	BLANK-10081	Analyzed	07/02/2006 15:56

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	75	4.2	E	2,3,7,8-TCDF-13C	2.00	69
Total TCDF	3000.0	-----	4.2		2,3,7,8-TCDD-13C	2.00	68
					1,2,3,7,8-PeCDF-13C	2.00	52
2,3,7,8-TCDD	8.1	-----	6.1	A	2,3,4,7,8-PeCDF-13C	2.00	59
Total TCDD	130.0	-----	4.2		1,2,3,7,8-PeCDD-13C	2.00	75
					1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	35.0	-----	21.0		1,2,3,6,7,8-HxCDF-13C	2.00	67
2,3,4,7,8-PeCDF	910.0	-----	21.0		2,3,4,6,7,8-HxCDF-13C	2.00	67
Total PeCDF	9800.0	-----	21.0		1,2,3,7,8,9-HxCDF-13C	2.00	71
					1,2,3,4,7,8-HxCDD-13C	2.00	84
1,2,3,7,8-PeCDD	29.0	-----	21.0		1,2,3,6,7,8-HxCDD-13C	2.00	59
Total PeCDD	240.0	-----	21.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	67
					1,2,3,4,7,8,9-HpCDF-13C	2.00	63
1,2,3,4,7,8-HxCDF	130.0	-----	21.0		1,2,3,4,6,7,8-HpCDD-13C	2.00	78
1,2,3,6,7,8-HxCDF	150.0	-----	21.0		OCDD-13C	4.00	57
2,3,4,6,7,8-HxCDF	180.0	-----	21.0				
1,2,3,7,8,9-HxCDF	75.0	-----	21.0		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	4800.0	-----	21.0		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	21.0		2,3,7,8-TCDD-37Cl4	0.20	69
1,2,3,6,7,8-HxCDD	37.0	-----	21.0				
1,2,3,7,8,9-HxCDD	22.0	-----	21.0				
Total HxCDD	450.0	-----	21.0				
1,2,3,4,6,7,8-HpCDF	230.0	-----	21.0		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	36.0	-----	21.0		Equivalence: 540 ng/Kg		
Total HpCDF	510.0	-----	21.0		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	180.0	-----	21.0				
Total HpCDD	380.0	-----	21.0				
OCDF	130.0	-----	42.0				
OCDD	830.0	-----	42.0				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2601
Date Sampled: 06/22/06 18:10

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-07
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606383-07		
Lab Sample ID	1034314004		
Filename	P60702A_13		
Injected By	BAL		
Total Amount Extracted	13.1 g	Matrix	Solid
% Moisture	45.8	Dilution	NA
Dry Weight Extracted	7.10 g	Collected	06/22/2006
ICAL Date	05/20/2006	Received	06/24/2006
CCal Filename(s)	P60701B_18 & P60702A_17	Extracted	06/29/2006
Method Blank ID	BLANK-10081	Analyzed	07/02/2006 14:20

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	1.6	-----	0.280		2,3,7,8-TCDF-13C	2.00	86
Total TCDF	21.0	-----	0.280		2,3,7,8-TCDD-13C	2.00	80
					1,2,3,7,8-PeCDF-13C	2.00	67
2,3,7,8-TCDD	ND	-----	0.310	A	2,3,4,7,8-PeCDF-13C	2.00	74
Total TCDD	21.0	-----	0.280		1,2,3,7,8-PeCDD-13C	2.00	96
					1,2,3,4,7,8-HxCDF-13C	2.00	94
1,2,3,7,8-PeCDF	ND	-----	1.400		1,2,3,6,7,8-HxCDF-13C	2.00	71
2,3,4,7,8-PeCDF	1.7	-----	1.400	J	2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF	6.1	-----	1.400	J	1,2,3,7,8,9-HxCDF-13C	2.00	81
					1,2,3,4,7,8-HxCDD-13C	2.00	93
1,2,3,7,8-PeCDD	ND	-----	1.400		1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	22.0	-----	1.400		1,2,3,4,6,7,8-HpCDF-13C	2.00	75
					1,2,3,4,7,8,9-HpCDF-13C	2.00	70
1,2,3,4,7,8-HxCDF	2.4	-----	1.400	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	90
1,2,3,6,7,8-HxCDF	ND	-----	1.400		OCDD-13C	4.00	60
2,3,4,6,7,8-HxCDF	ND	-----	1.400				
1,2,3,7,8,9-HxCDF	ND	-----	1.400		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	5.4	-----	1.400	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.400		2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	3.6	-----	1.400	J			
1,2,3,7,8,9-HxCDD	1.7	-----	1.400	J			
Total HxCDD	64.0	-----	1.400				
1,2,3,4,6,7,8-HpCDF	5.9	-----	1.400	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.400		Equivalence: 2.1 ng/Kg		
Total HpCDF	5.9	-----	1.400	J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	20.0	-----	1.400				
Total HpCDD	33.0	-----	1.400				
OCDF	6.2	-----	2.800	J			
OCDD	43.0	-----	2.800				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SED2501
Date Sampled: 06/22/06 18:45

ESS Laboratory Work Order: 0606383
ESS Laboratory Sample ID: 0606383-10
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

Pace Analytical Services, Inc.
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Tel: 612-607-1700
Fax: 612-607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606383-10		
Lab Sample ID	1034314005		
Filename	U60703B_09		
Injected By	BAL		
Total Amount Extracted	30.6 g	Matrix	Solid
% Moisture	66.8	Dilution	5
Dry Weight Extracted	10.1 g	Collected	06/22/2006
ICAL Date	07/01/2006	Received	06/24/2006
CCal Filename(s)	U60703A_18 & U60703B_18	Extracted	06/30/2006
Method Blank ID	BLANK-10086	Analyzed	07/04/2006 13:06

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	53	-----	2.8	A	2,3,7,8-TCDF-13C	2.00	81
Total TCDF	6900	-----	0.99		2,3,7,8-TCDD-13C	2.00	78
					1,2,3,7,8-PeCDF-13C	2.00	86
2,3,7,8-TCDD	18	-----	3.1	A	2,3,4,7,8-PeCDF-13C	2.00	85
Total TCDD	500	-----	0.99		1,2,3,7,8-PeCDD-13C	2.00	92
					1,2,3,4,7,8-HxCDF-13C	2.00	130
1,2,3,7,8-PeCDF	-----	240	11.0	EA	1,2,3,6,7,8-HxCDF-13C	2.00	102
2,3,4,7,8-PeCDF	2200	-----	10.0	A	2,3,4,6,7,8-HxCDF-13C	2.00	104
Total PeCDF	12000	-----	4.9		1,2,3,7,8,9-HxCDF-13C	2.00	92
					1,2,3,4,7,8-HxCDD-13C	2.00	104
1,2,3,7,8-PeCDD	63	-----	5.9	A	1,2,3,6,7,8-HxCDD-13C	2.00	99
Total PeCDD	910	-----	4.9		1,2,3,4,6,7,8-HpCDF-13C	2.00	88
					1,2,3,4,7,8,9-HpCDF-13C	2.00	83
1,2,3,4,7,8-HxCDF	310	-----	6.5	A	1,2,3,4,6,7,8-HpCDD-13C	2.00	92
1,2,3,6,7,8-HxCDF	380	-----	7.6	A	OCDD-13C	4.00	71
2,3,4,6,7,8-HxCDF	310	-----	12.0	A			
1,2,3,7,8,9-HxCDF	180	-----	4.9		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	12000	-----	4.9		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	30	-----	7.3	A	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	83	-----	5.1	A			
1,2,3,7,8,9-HxCDD	38	-----	4.9				
Total HxCDD	1100	-----	4.9				
1,2,3,4,6,7,8-HpCDF	440	-----	6.5	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	79	-----	4.9		Equivalence: 1300 ng/Kg		
Total HpCDF	1100	-----	4.9		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	320	-----	4.9				
Total HpCDD	650	-----	4.9				
OCDF	170	-----	9.9				
OCDD	1900	-----	14.0	A			

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Laboratory Control Spike Results

Client - ESS Laboratory

Lab Sample ID	LCS-10058		
Filename	F60630A_02	Matrix	Solid
Total Amount Extracted	10.0 g	Dilution	NA
ICAL Date	05/31/2006	Extracted	06/28/2006
CCal Filename(s)	F60630A_01 & F60630A_13	Analyzed	06/30/2006 09:54
Method Blank ID	BLANK-10057	Injected By	CVS

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.17	86	2,3,7,8-TCDF-13C	2.00	70
				2,3,7,8-TCDD-13C	2.00	69
				1,2,3,7,8-PeCDF-13C	2.00	65
2,3,7,8-TCDD	0.20	0.18	90	2,3,4,7,8-PeCDF-13C	2.00	71
				1,2,3,7,8-PeCDD-13C	2.00	96
				1,2,3,4,7,8-HxCDF-13C	2.00	78
1,2,3,7,8-PeCDF	1.00	0.99	99	1,2,3,6,7,8-HxCDF-13C	2.00	73
2,3,4,7,8-PeCDF	1.00	0.91	91	2,3,4,6,7,8-HxCDF-13C	2.00	79
				1,2,3,7,8,9-HxCDF-13C	2.00	76
				1,2,3,4,7,8-HxCDD-13C	2.00	83
1,2,3,7,8-PeCDD	1.00	0.81	81	1,2,3,6,7,8-HxCDD-13C	2.00	76
				1,2,3,4,6,7,8-HpCDF-13C	2.00	72
				1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,7,8-HxCDF	1.00	0.87	87	1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	1.00	0.91	91	OCDD-13C	4.00	62
2,3,4,6,7,8-HxCDF	1.00	0.92	92			
1,2,3,7,8,9-HxCDF	1.00	0.91	91	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	0.96	96	2,3,7,8-TCDD-37Cl4	0.20	68
1,2,3,6,7,8-HxCDD	1.00	1.00	100			
1,2,3,7,8,9-HxCDD	1.00	1.01	101			
1,2,3,4,6,7,8-HpCDF	1.00	1.00	100			
1,2,3,4,7,8,9-HpCDF	1.00	1.05	105			
1,2,3,4,6,7,8-HpCDD	1.00	0.84	84			
OCDF	2.00	1.71	86			
OCDD	2.00	1.77	88			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range
X = Background subtracted value
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Minneapolis, MN 55414

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Pace Analytical™

Method 8290 Laboratory Control Spike Results

Client - ESS Laboratory

Lab Sample ID	LCS-10082		
Filename	P60701B_03	Matrix	Solid
Total Amount Extracted	10.3 g	Dilution	NA
ICAL Date	05/20/2006	Extracted	06/29/2006
CCal Filename(s)	P60701B_02 & P60701B_18	Analyzed	07/01/2006 17:16
Method Blank ID	BLANK-10081	Injected By	BAL

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.18	89	2,3,7,8-TCDF-13C	2.00	83
				2,3,7,8-TCDD-13C	2.00	84
				1,2,3,7,8-PeCDF-13C	2.00	65
2,3,7,8-TCDD	0.20	0.20	100	2,3,4,7,8-PeCDF-13C	2.00	70
				1,2,3,7,8-PeCDD-13C	2.00	82
				1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	1.00	1.09	109	1,2,3,6,7,8-HxCDF-13C	2.00	74
2,3,4,7,8-PeCDF	1.00	1.03	103	2,3,4,6,7,8-HxCDF-13C	2.00	75
				1,2,3,7,8,9-HxCDF-13C	2.00	82
				1,2,3,4,7,8-HxCDD-13C	2.00	87
1,2,3,7,8-PeCDD	1.00	0.91	91	1,2,3,6,7,8-HxCDD-13C	2.00	86
				1,2,3,4,6,7,8-HpCDF-13C	2.00	86
				1,2,3,4,7,8,9-HpCDF-13C	2.00	79
1,2,3,4,7,8-HxCDF	1.00	0.97	97	1,2,3,4,6,7,8-HpCDD-13C	2.00	109
1,2,3,6,7,8-HxCDF	1.00	1.04	104	OCDD-13C	4.00	82
2,3,4,6,7,8-HxCDF	1.00	1.04	104			
1,2,3,7,8,9-HxCDF	1.00	1.04	104	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.04	104	2,3,7,8-TCDD-37Cl4	0.20	99
1,2,3,6,7,8-HxCDD	1.00	1.04	104			
1,2,3,7,8,9-HxCDD	1.00	0.99	99			
1,2,3,4,6,7,8-HpCDF	1.00	1.06	106			
1,2,3,4,7,8,9-HpCDF	1.00	1.10	110			
1,2,3,4,6,7,8-HpCDD	1.00	0.93	93			
OCDF	2.00	1.75	87			
OCDD	2.00	1.81	91			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range
X = Background subtracted value
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Pace Analytical™

Method 8290 Laboratory Control Spike Results

Client - ESS Laboratory

Lab Sample ID	LCS-10087		
Filename	U60703A_03	Matrix	Solid
Total Amount Extracted	20.2 g	Dilution	NA
ICAL Date	07/01/2006	Extracted	06/30/2006
CCal Filename(s)	U60703A_02 & U60703A_18	Analyzed	07/03/2006 17:34
Method Blank ID	BLANK-10086	Injected By	BAL

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.18	92	2,3,7,8-TCDF-13C	2.00	81
				2,3,7,8-TCDD-13C	2.00	75
				1,2,3,7,8-PeCDF-13C	2.00	73
2,3,7,8-TCDD	0.20	0.19	93	2,3,4,7,8-PeCDF-13C	2.00	76
				1,2,3,7,8-PeCDD-13C	2.00	83
				1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	1.00	1.06	106	1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	1.00	1.02	102	2,3,4,6,7,8-HxCDF-13C	2.00	75
				1,2,3,7,8,9-HxCDF-13C	2.00	76
				1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	1.00	0.92	92	1,2,3,6,7,8-HxCDD-13C	2.00	66
				1,2,3,4,6,7,8-HpCDF-13C	2.00	70
				1,2,3,4,7,8,9-HpCDF-13C	2.00	64
1,2,3,4,7,8-HxCDF	1.00	0.94	94	1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	1.00	1.05	105	OCDD-13C	4.00	76
2,3,4,6,7,8-HxCDF	1.00	0.99	99			
1,2,3,7,8,9-HxCDF	1.00	0.95	95	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.03	103	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	1.00	1.11	111			
1,2,3,7,8,9-HxCDD	1.00	1.10	110			
1,2,3,4,6,7,8-HpCDF	1.00	1.09	109			
1,2,3,4,7,8,9-HpCDF	1.00	1.11	111			
1,2,3,4,6,7,8-HpCDD	1.00	0.94	94			
OCDF	2.00	1.81	91			
OCDD	2.00	1.79	89			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range
X = Background subtracted value
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

Report No.....1034312

REPORT OF LABORATORY ANALYSIS

Sample and Cooler Receipt Checklist

Client: Mactec
Client Project ID: _____
Shipped/Delivered Via: Client

ESS Project ID: 06060383
Date Project Due: 6/30/06
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	*No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: 4.2		16. Are ESS labels on correct containers?	(Yes) / No
Iced With: Icepacks		17. Were samples received intact?	(Yes) / No
6. Was COC included with samples?	Yes	ESS Sample IDs:	01,03,05 07 10
7. Was COC signed and dated by client?	Yes	Sub Lab:	Pace chemTech
8. Does the COC match the sample	Yes	Analysis:	Dioxin TOC
9. Is COC complete and correct?	Yes	TAT:	Std

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
1	Yes	40 ml - VOA	1	MeOH
1	Yes	40 ml - VOA	2	other
1	Yes	500 ml Plastic	3	NP
2	Yes	40 ml - VOA	1	MeOH
2	Yes	40 ml - VOA	2	other
2	Yes	500 ml Plastic	2	NP
3	Yes	4 oz Soil Jar	1	NP
3	Yes	40 ml - VOA	1	MeOH
3	Yes	40 ml - VOA	2	other
3	Yes	500 ml Plastic	3	NP
4	Yes	40 ml - VOA	1	MeOH
4	Yes	40 ml - VOA	2	other
4	Yes	500 ml Plastic	2	NP
5	Yes	4 oz Soil Jar	1	NP
5	Yes	40 ml - VOA	1	MeOH
5	Yes	40 ml - VOA	2	other
5	Yes	500 ml Plastic	3	NP
6	Yes	40 ml - VOA	1	MeOH
6	Yes	40 ml - VOA	2	other
6	Yes	500 ml Plastic	2	NP
7	Yes	4 oz Soil Jar	1	NP
7	Yes	40 ml - VOA	1	MeOH
7	Yes	40 ml - VOA	2	other
7	Yes	500 ml Plastic	3	NP

Sample and Cooler Receipt Checklist

Client: Mactec ESS Project ID: 06060383

8	Yes	40 ml - VOA	1	MeOH
8	Yes	40 ml - VOA	2	other
8	Yes	500 ml Plastic	2	NP
9	Yes	500 ml Plastic	2	NP
10	Yes	4 oz Soil Jar	1	NP
10	Yes	40 ml - VOA	1	MeOH
10	Yes	40 ml - VOA	2	other
10	Yes	500 ml Plastic	3	NP
11	Yes	40 ml - VOA	3	MeOH
11	Yes	40 ml - VOA	6	other
11	Yes	500 ml Plastic	6	NP
12	Yes	40 ml - VOA	1	MeOH
12	Yes	40 ml - VOA	2	other
12	Yes	500 ml Plastic	2	NP
13	Yes	40 ml - VOA	3	MeOH
13	Yes	40 ml - VOA	6	other
13	Yes	500 ml Plastic	6	NP
14	Yes	40 ml - VOA	1	MeOH
14	Yes	40 ml - VOA	2	other
14	Yes	8 oz Soil Jar	2	NP
15	Yes	1 L Glass	2	NP
15	Yes	40 ml - VOA	3	HCL
15	Yes	500 ml Plastic	1	HNO3
16	Yes	40 ml - VOA	2	HCL
17	Yes	40 ml - VOA	1	MeOH
17	Yes	40 ml - VOA	1	other

Completed By: JTD JTD Date/Time: 6-23-06

Reviewed By: JD Date/Time: 6/23/06

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 2

Turn Time ___ Standard Other ___
If faster than 5 days, prior approval by laboratory is required # ___
State where samples were collected from: MA RI CT NH NJ NY ME Other ___
Is this project for any of the following: MA-MCP Navy USACE Other ___

Reporting Limits

ESS LAB PROJECT ID: 060383

Electronic Deliverable ___ Yes ___ No
Format: Excel__ Access__ PDF__ Other__

Co. Name: Mactec
Project #:
Project Name (20 Char. or less): Gorham Site
Contact Person: Chris Ricardi
Address:
City State Zip
PO#:
Telephone #: 207 775 5401
Fax #:
Email Address:

Circle and/or Write Required Analysis

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (35 Char. or less)	Pres Code	Number of Containers	Type of Containers	8260 624 524.2	8021 MTBE/BTEX	8015 GRO VPH w/ranges	8015 DRO	8100 TPH EPH w/o PAHs	EPH w/PAHs	8082 PCB	8081 Pesticides	608 PCB	608 Pesticides	8270 SVOA	625 PAH	RCRA 5	RCRA 8 PP13 TAL23	TCLP-RCRA 8	NBC?	MCP-METALS (13)	MCP-METALS (13) w/Hg	VOA	VOA	PAH / TEST / TCL / Metals	TOL	PAH / Metals	Dioxins / Furans
1	6-23-06	1635		X	S	SED2401		7	G/V																			X	X	X	X		X
2	6-22-06	1650		X	S	SED2403		5	"																			X	X			X	
3	6-22-06	1700		X	S	SED22=1		7	"																			X	X	X	X		X
4	6-22-06	1710		X	S	SED2203		5	"																			X	X			X	
5	6-22-06	1735		X	S	SED2701		7	"																			X	X	X	X		X
6	6-22-06	1746		X	S	SED2703		5	"																			X	X			X	
7	6-22-06	1810		X	S	SED2601		7	"																			X	X	X	X		X
8	6-22-06	1820		X	S	SED2602		5	"																			X	X			X	
9	6-22-06	1830		X	S	SED2605		5	"																			X	X			X	
10	6-22-06	1945		X	S	SED 2501		7	"																			X	X	X	X		X

925

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No Internal Use Only
Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup
Cooler Temp: 4.2 [ ] Technicians ___

Preservation Code: 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ___

Sampled by: Brian Roden / Tom Hanlon

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	6-23-06 1158		6-23-06 11:58				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

ESS Laboratory

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www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time ___ Standard Other ___
If faster than 5 days, prior approval by laboratory is required # ___
State where samples were collected from: MA (RI) CT NH NJ NY ME Other ___
Is this project for any of the following: MA-MCP Navy USACE Other ___

Reporting Limits

ESS LAB PROJECT ID: 0606383

Electronic Deliverable ___ Yes ___ No
Format: Excel ___ Access ___ PDF ___ Other ___

Co. Name	Project #	Project Name (20 Char. or less)
MACTEC		Graham Site

Contact Person	Address
Chris Ricardi	

City	State	Zip	PO#

Telephone #	Fax #	Email Address
207 775 5401		

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Circle and/or Write Required Analysis
11	6-22-06	1853		X	S	SED2503	G/V	5	G/V	VOA, VOA LL, PAH/Metals
12	6-23-06	1005		X	S	SED2503D	"	5	"	VOA, VOA LL, PAH/Metals
11	6-23-06	1010		X	S	SED2503 MS	"	5	"	VOA, VOA LL, PAH/Metals
11	6-23-06	1015		X	S	SED2503 MSD	"	5	"	VOA, VOA LL, PAH/Metals
13	6-23-06	1030		X	S	SED2507	"	5	"	VOA, VOA LL, PAH/Metals
14	6-23-06	1035		X	S	SED2507D	"	5	"	VOA, VOA LL, PAH/Metals
13	6-23-06	1040		X	S	SED2507 MS	"	5	"	VOA, VOA LL, PAH/Metals
13	6-23-06	1050		X	S	SED2507 MSD	"	5	"	VOA, VOA LL, PAH/Metals
15	6-23-06	0950			AQ	Rinsate Sed	G/V/P	6	G/V/P	PAH - 2 x LL, Metals - 1 x 500 mL (HNO3), VOA (HCl)
16	6-23-06	—			AQ	Trip blank	VOA	2	G	VOA (HCl)
17								55		

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid SL-Sludge AQ-Aqueous WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present: Yes ___ No Internal Use Only SID
Seals Intact ___ Yes ___ No NA: ___ [ ] Pickup 6-27-06
Cooler Temp: 4.2 [ ] Technicians ___

Preservation Code: 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ___

Sampled by: Brian Roden Tom Hanlon

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	6-23-06 1458	[signature]	6/23/06 1458				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt