Tim O'Connor & Company, LLC
environmental consultation

August 1, 2018

Ms. Kasandra McKenzie
Environmental Scientist
Rhode Island Department of Environmental Management
235 Promenade Street
Providence, Rhode Island 02908-5767

Re: Quarterly Report – 2nd Quarter 2018
Former Portsmouth Landfill

Dear: Ms. McKenzie

This Quarterly Report is submitted on behalf of AP Enterprise, LLC (APE) regarding the Portsmouth Landfill (the Property) per the Beneficial Use Determination Approval (BUDA) which was issued by the Rhode Island Department of Environmental Management (RIDEM) on September 20, 2010, amended on March 11, 2011 and March 18, 2014 and most recently renewed on September 9, 2014. On September 20, 2015 the BUDA expired.

This report covers activities conducted during the period of April 1 to June 30, 2018.

Construction Activities

Construction activities during this reporting period consisted of:

- The delivery and management of newly accepted final capping soil;
- The delivery and management of soils per Appendix A of the RIDEM Rules and Regulations for Composting and Solid Waste Management Facilities (the Appendix A Soils); and
- Erosion control activities.

Photos of the Property are attached as Appendix A.

Soil Accepted

The attached table summarizes the soils delivered to the Property during this reporting period. The supporting laboratory analysis data for the DW Clark sand was submitted last period. The remainder of the soil accepted are covered by Appendix A of the RIDEM Rules and Regulations

for Composting and Solid Waste Management Facilities. Therefore no data packages are included in this report.

Complaints

No complaints were received directly by APE during this reporting period.

Schedule

The APE project team estimates that 99% of the landfill now has at least six inches of final cap soil on it. The volume of capping soil required to complete the landfill cap is driven by a number of variables and is guided the elevations in the approved final site grading plan.

Monitoring

The next round of sampling expected to take place in August 2018.

Please feel free to contact me should you have any questions regarding this matter.

Sincerely
TIM O'CONNOR & COMPANY, LLC

Timothy M. O'Connor, PE, LEED-AP
Principal

Former Portsmouth Landfill Soils Accepted
2nd Quarter 2018

Delivery Dates	Source	Consultant	Quantity (tons)
4/2 to 6/18	DW Clark Foundry; 692 North Bedford Street; East Bridgewater, MA	Mark A Germano, LSP	1,848.00
4/9	* Somerville, MA DPW		54.45
5/1 & 3; 6/20 & 21	* Massachusetts DPW		658.00
6/12	* Brockton, MA DPW		170.00
		Total	2,730.45

Notes

1. * - Indicates soils reguilated per Appendix A of the RIDEM Rules and Regulations for Composting and Solid Waste Management Facilities

Appendix A – Photographs

Photo 1 – Along Mason Avenue Looking North

Photo 2 – Along Park Avenue Looking West

Photo 3 – Along Eastern Limit of Disturbance Looking North

Photo 4 – Along Eastern Limit of Disturbance

Photo 5 – Along Northwestern Limit of Disturbance Looking West

Photo 6 – Southwestern Portion of Site

Appendix B – Analytical Data

(no new or additional data this period)

Spent Foundry Sand (SFS) Analytical Results
D.W. Clark Foundry
East Bridgewater, MA

Parameter	RI Direct Exposure Criteria-Residential	SAMPLING LOCATION											
		SP-1	SP-2	SFS-COMP-1	FNDRY-DISP-1	DISP-7/10-1	DISP-7/10-2	DISP-7/10-3	DISP-7/10-4	DISP-7/10-5	Disp-Supp-1	Disp-Supp-2	Disp-Supp-3
Sampling Date		5/13/2016	5/13/2016	1/13/2017	5/19/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	2/5/2018	2/5/2018	2/5/2018
SM21-22 2510B Modified (µmhos/cm)													
SPECIFIC CONDUCTANCE		**180**	**660**		**2300**								
SW-846 1010A (°C)													
FLASHPOINT				**93**	**>93**								
SW-846 6010C-D (mg/Kg dry) Metals Digestion													
ARSENIC	7	ND (4.87)	ND (5)		ND (4.99)	ND (2.5)					**1.12**	**1.15**	**0.82**
BARIUM	5500				ND (4.99)						**3.3**	**3.72**	
CADMIUM	39	ND (0.974)	ND (1)		ND (0.998)								
CHROMIUM	390	ND (4.87)	ND (5)		**71.5**								
LEAD	150	5.91	ND (5)		ND (4.99)								
SELENIUM	390				**9.58**						ND (0.7)	ND (0.69)	
SILVER	200				ND (4.99)						ND (0.35)	ND (0.34)	
SW-846 7471B (mg/Kg dry) Metals Digestion													
MERCURY	23	ND (0.083)	ND (0.0847)		ND (0.856)								
SW-846 6010C-D (mg/Kg dry) Metals Digestion													
ANTIMONY	10						ND (2.5)	ND (2.3)	ND (2.6)	ND (2.4)			
BERYLLIUM	1.5						ND (0.25)	ND (0.23)	ND (0.26)	ND (0.24)			
COPPER	3,100						**100**	**2.1**	**19**	**210**			
NICKEL	1,000						**7.0**	**5.0**	**16**	**130**			
THALLIUM	5.5						ND (2.5)	ND (2.3)	ND (2.6)	ND (2.4)			
ZINC	6,000						**5.4**	ND (0.92)	**20**	**24**			
SW-846 8082A (ug/Kg dry)													
Total PCBs	10,000	ND	ND		ND								
SW-846 8100 Modified (mg/Kg dry)													
TPH	500	ND (50)	ND (51)		88.7								
SW-846 8260C (ug/Kg dry)													
NAPHTHALENE	54,000	ND (77.5)	ND (105)		**713**								
SW-846 8270D (ug/Kg dry)													
BENZO(G,H,I)PERYLENE	800	ND (100)	ND (102)	**200**									
INDENO(1,2,3-CD)PYRENE	900	ND (10)	ND (10.2)	**188**	ND (10.3)								
SW-846 9014 (mg/Kg)													
REACTIVE CYANIDE			ND (0.105)	ND (0.105)	ND (0.103)								
SW-846 9030A (mg/Kg)													
REACTIVE SULFIDE			ND (0.263)	ND (0.263)	ND (0.258)								
SW-846 9045C (pH Units)													
PH				9.07	9.15								

NOTES:
1. ND = Not detected above the lab reporting limits shown in parenthesis. Individual detection limits available in laboratory reports.
2. Blank cell = Not Tested for the submitted sample
3. Shaded values exceed the relevant acceptance criteria
4. Values detected above laboratory detection limits shown in bold

Spent Foundry Sand (SFS) Analytical Results
D.W. Clark Foundry
East Bridgewater, MA

Parameter	RI Direct Exposure Criteria-Residential	Disp-Supp-4	Disp-Supp-5	Disp-Supp-6	Disp-Supp-7	Disp-Supp-8
Sampling Date		2/5/2018	2/5/2018	2/5/2018	2/5/2018	2/5/2018
SM21-22 2510B Modified (µmhos/cm)						
SPECIFIC CONDUCTANCE						
SW-846 1010A (°C)						
FLASHPOINT						
SW-846 6010C-D (mg/Kg dry) Metals Digestion						
ARSENIC	7	ND (0.69)	**0.92**	ND (0.69)	**1.42**	**1.19**
BARIUM	5500					
CADMIUM	39					
CHROMIUM	390					
LEAD	150					
SELENIUM	390					
SILVER	200					
SW-846 7471B (mg/Kg dry) Metals Digestion						
MERCURY	23					
SW-846 6010C-D (mg/Kg dry) Metals Digestion						
ANTIMONY	10					
BERYLLIUM	1.5					
COPPER	3,100					
NICKEL	1,000					
THALLIUM	5.5					
ZINC	6,000					
SW-846 8082A (ug/Kg dry)						
Total PCBs	10,000					
SW-846 8100 Modified (mg/Kg dry)						
TPH	500					
SW-846 8260C (ug/Kg dry)						
NAPHTHALENE	54,000					
SW-846 8270D (ug/Kg dry)						
BENZO(G,H,I)PERYLENE	800					
INDENO(1,2,3-CD)PYRENE	900					
SW-846 9014 (mg/Kg)						
REACTIVE CYANIDE						
SW-846 9030A (mg/Kg)						
REACTIVE SULFIDE						
SW-846 9045C (pH Units)						
PH						

NOTES:
1. ND = Not detected above the lab reporting limits shown in parenthesis. Individual detection limits
2. Blank cell = Not Tested for the submitted sample
3. Shaded values exceed the relevant acceptance criteria
4. Values detected above laboratory detection limits shown in bold

ANALYTICAL REPORT

Tuesday, April 19, 2016

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

Jeff Burek
DW Clark, Inc.
692 North Bedford Street
East Bridgewater, MA 02333

TEL: (508) 378-4014
FAX: (508) 378-9710

Project:
Location:

Order No.: 1603104

Dear Jeff Burek:

GeoLabs, Inc. received 2 sample(s) on 3/16/2016 for the analyses presented in the following report.

The laboratory results in this report relate only to samples submitted.

All data for associated QC met method or laboratory specifications, except when noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

David Mick
Laboratory Director

For current certifications, please visit our website at www.geolabs.com

Certifications:

CT (PH-0148) - MA (M-MA015) - NH (2508) - RI (LA000252)

Date: *19-Apr-16*

CLIENT: DW Clark, Inc.
Project:
Lab Order: 1603104

CASE NARRATIVE

Physical Condition of Samples

The project was received by the laboratory in satisfactory condition. The sample(s) were received undamaged, in appropriate containers with the correct preservation.

Project Documentation

The project was accompanied by satisfactory Chain of Custody documentation.

Analysis of Sample(s)

All extractable samples were extracted and analyzed and any Volatile samples were analyzed within method specified holding times and according to GeoLabs documented Standard Operating Procedure. No analytical anomalies or non-conformances were noted by the laboratory during the processing of these samples.

SIGNATURE:  LAB DIRECTOR

PRINTED NAME: David Mick DATE: 04/19/16

ANALYTICAL REPORT **Reported Date:** 19-Apr-16

CLIENT:	DW Clark, Inc.	**Client Sample ID:**	Sample 1
Lab Order:	1603104	**Collection Date:**	3/16/2016
Project:		**Date Received:**	3/16/2016
Lab ID:	1603104-001	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCLP METALS BY ICP - SW6010B						Analyst: **QS**
Prep Method: (SW3010A)			**Prep Date:**	**3/22/2016 4:04:55 PM**		
Arsenic	ND	0.500		mg/L	5	3/22/2016
Barium	ND	0.100		mg/L	5	3/22/2016
Cadmium	ND	0.0250		mg/L	5	3/22/2016
Chromium	ND	0.250		mg/L	5	3/22/2016
Lead	ND	0.250		mg/L	5	3/22/2016
Selenium	ND	0.250		mg/L	5	3/22/2016
Silver	ND	0.0500		mg/L	5	3/22/2016
TCLP MERCURY - E245.1						Analyst: **EC**
Prep Method: (SW7470A/E245.1)			**Prep Date:**	**3/24/2016 5:13:53 PM**		
Mercury	ND	0.00200		mg/L	1	3/24/2016
TCLP SEMIVOLATILE ORGANICS - SW8270C						Analyst: **Admir**
Prep Method: (SW3510)			**Prep Date:**	**4/15/2016 12:12:35 PM**		
1,4-Dichlorobenzene	ND	100	H	µg/L	1	4/15/2016 8:58:00 PM
2,4,5-Trichlorophenol	ND	75.0	H	µg/L	1	4/15/2016 8:58:00 PM
2,4,6-Trichlorophenol	ND	50.0	H	µg/L	1	4/15/2016 8:58:00 PM
2,4-Dinitrotoluene	ND	50.0	H	µg/L	1	4/15/2016 8:58:00 PM
2-Methylphenol	ND	100	H	µg/L	1	4/15/2016 8:58:00 PM
3-Methylphenol/4-Methylphenol	ND	150	H	µg/L	1	4/15/2016 8:58:00 PM
Hexachlorobenzene	ND	100	H	µg/L	1	4/15/2016 8:58:00 PM
Hexachlorobutadiene	ND	50.0	H	µg/L	1	4/15/2016 8:58:00 PM
Hexachloroethane	ND	200	H	µg/L	1	4/15/2016 8:58:00 PM
Nitrobenzene	ND	375	H	µg/L	1	4/15/2016 8:58:00 PM
Pentachlorophenol	ND	100	H	µg/L	1	4/15/2016 8:58:00 PM
Pyridine	ND	125	H	µg/L	1	4/15/2016 8:58:00 PM
Surr: 2,4,6-Tribromophenol	94.8	15-110	H	%REC	1	4/15/2016 8:58:00 PM
Surr: 2-Fluorobiphenyl	54.0	30-130	H	%REC	1	4/15/2016 8:58:00 PM
Surr: 2-Fluorophenol	43.3	15-110	H	%REC	1	4/15/2016 8:58:00 PM
Surr: Nitrobenzene-d5	71.9	30-130	H	%REC	1	4/15/2016 8:58:00 PM
Surr: Phenol-d6	34.8	15-110	H	%REC	1	4/15/2016 8:58:00 PM
Surr: Terphenyl-d14	80.6	30-130	H	%REC	1	4/15/2016 8:58:00 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- RL Reporting Limit
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside recovery limits

ANALYTICAL REPORT **Reported Date:** 19-Apr-16

CLIENT:	DW Clark, Inc.	**Client Sample ID:**	Sample 2
Lab Order:	1603104	**Collection Date:**	3/16/2016
Project:		**Date Received:**	3/16/2016
Lab ID:	1603104-002	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCLP METALS BY ICP - SW6010B						Analyst: **QS**
Prep Method: (SW3010A)			**Prep Date:**	**3/22/2016 4:04:55 PM**		
Arsenic	ND	0.500		mg/L	5	3/22/2016
Barium	ND	0.100		mg/L	5	3/22/2016
Cadmium	ND	0.0250		mg/L	5	3/22/2016
Chromium	ND	0.250		mg/L	5	3/22/2016
Lead	ND	0.250		mg/L	5	3/22/2016
Selenium	ND	0.250		mg/L	5	3/22/2016
Silver	ND	0.0500		mg/L	5	3/22/2016
TCLP MERCURY - E245.1						Analyst: **EC**
Prep Method: (SW7470A/E245.1)			**Prep Date:**	**3/24/2016 5:13:53 PM**		
Mercury	ND	0.00200		mg/L	1	3/24/2016

Qualifiers:	B Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	RL Reporting Limit	S	Spike Recovery outside recovery limits

D.W. Clark, Inc.

1603104

Metalcasters since 1902
ISO 9001:2008

692 North Bedford Street, East Bridgewater, MA 02333
Phone: (508) 378-4014 Fax: (508) 378-9710

* * * Purchase Order * * *

VENDOR: 104259

GEOLABS INC.
45 JOHNSON LANE
BRAINTREE, MA 02184
U.S.A.

Order#: P10821

Order Date: 03/16/16

Page#: 1

Fax: 781 848 7811 / Phone: 800 298 7060

SHIP TO: 692 North Bedford Street
East Bridgewater, MA, 02333

BILL TO: P.O. Box 448
East Bridgewater, MA, 02333

Attention: DAVE KAHLER

Requested By: JEFF

Payment Terms	Freight Terms	Carrier
NET 30	Prepaid - DWC	UPS

Line	Order Qty	Part Number	Due Date	Taxable?	Price Um	Extended Price
01	2.00	M02572	03/25/16		EA	.00
		OUTSIDE TESTING - SAND TESTING				
		TEST FOR TCLP RCRA 8 METALS				
		FAX RESULTS TO 508 378 9710 ATTN. JEFF,				
		ALSO MAIL				
		SAMPLES FOR TCLP				
		SAMPLE 1 - SPENT FOUNDRY SAND				3104-001
		SAMPLE 2 - 50/50 MIX WITH CRUSHED				3104-002
		AGGREGATE				
		PURCHASE ORDER TOTAL				.00

ANALYTICAL REPORT

Friday, June 03, 2016

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

Mark Germano
Germano
15 Pinehurst Rd.
Marshfield, MA 02050

TEL: (339) 793-3528
FAX:

Project:	DW Clark, Inc.
Location:	692 N. Bedford St, E. Bridgewater MA

Order No.: 1605082

Dear Mark Germano:

GeoLabs, Inc. received 2 sample(s) on 5/13/2016 for the analyses presented in the following report.

The laboratory results in this report relate only to samples submitted. All data for associated QC met method or laboratory specifications, except where noted in the Case Narrative.

Analytical methods and results meet requirements of 310CMR 40.1056(J) as per MADEP Compendium of Analytical Methods (CAM).

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

David Mick
Laboratory Director

MassDEP Analytical Protocol Certification Form

Laboratory Name: GeoLabs, Inc. Project #:

Project Location: D.W. Clark, Inc. RTN:

This form provides certification for the following data set: 1605082 (001-002)

Matrices: ☐ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☒ Other

CAM Protocol (check all that apply below):

8260 VOC CAM II A ☒	7470/7471 Hg CAM III B ☒	MassDEP VPH CAM IV A ☐	8081 Pesicides CAM V B ☐	7196 Hex Cr CAM VI B ☐		MassDEP APH CAM IX A ☐
8270 SVOC CAM II B ☒	7010 Metals CAM III C ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐		TO-15 VOC CAM IX B ☐
6010 Metals CAM III A ☒	6020 Metals CAM III D ☐	8082 PCB CAM V A ☒	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐		

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain of Custody, properly preserved (including temperature) in the field or laboratory, and	☒ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☒ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☒ Yes ☐ No
D	Does the laboratory report comply with all reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analtyical Data"?	☒ Yes ☐ No
E	VPH, EPH, APH and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications.)	☐ Yes ☐ No
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)	☒ Yes ☐ No

Responses to Questions G, H, and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☒ Yes ☐ No

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2) (k) and WSC-07-350.

H	Were **all** QC performance standards as specified in the CAM protocol(s) achieved?	☐ Yes ☒ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes ☒ No[1]

[1] *All negative responses must be addressed in an attached laboratory narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ **Position: Laboratory Director**

Printed Name: David Mick **Date:** June 3, 2016

Date: *03-Jun-16*

CLIENT:	Germano
Project:	DW Clark, Inc.
Lab Order:	1605082

CASE NARRATIVE

Physical Condition of Samples

The project was received by the laboratory in satisfactory condition. The sample(s) were received undamaged, in appropriate containers with the correct preservation.

Project Documentation

The project was accompanied by satisfactory Chain of Custody documentation.

Analysis of Sample(s)

Select metals reported via method 6010C, per client request.

All extractable samples were extracted and analyzed and any Volatile samples were analyzed within method specified holding times and according to GeoLabs documented Standard Operating Procedure. The following analytical anomalies or non-conformances were noted by the laboratory during the processing of these samples:

See QC to review spike recoveries outside of recovery ranges.

SIGNATURE: LAB DIRECTOR

PRINTED NAME: David Mick DATE: 06/03/16

ANALYTICAL REPORT

Reported Date: 03-Jun-16

CLIENT:	Germano	**Client Sample ID:**	SP-1
Lab Order:	1605082	**Collection Date:**	5/13/2016 10:30:00 AM
Project:	DW Clark, Inc.	**Date Received:**	5/13/2016
Lab ID:	1605082-001	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS - SW8082A						Analyst: **DM**
Prep Method: (SW3545A)			**Prep Date: 5/20/2016 12:37:37 PM**			
Aroclor 1016	ND	50.0		µg/Kg	1	5/25/2016
Aroclor 1221	ND	50.0		µg/Kg	1	5/25/2016
Aroclor 1232	ND	50.0		µg/Kg	1	5/25/2016
Aroclor 1242	ND	50.0		µg/Kg	1	5/25/2016
Aroclor 1248	ND	50.0		µg/Kg	1	5/25/2016
Aroclor 1254	ND	50.0		µg/Kg	1	5/25/2016
Aroclor 1260	ND	50.0		µg/Kg	1	5/25/2016
Surr: Decachlorobiphenyl Sig 1	35.0	30-150		%REC	1	5/25/2016
Surr: Decachlorobiphenyl Sig 2	43.0	30-150		%REC	1	5/25/2016
Surr: Tetrachloro-m-Xylene Sig 1	86.0	30-150		%REC	1	5/25/2016
Surr: Tetrachloro-m-Xylene Sig 2	101	30-150		%REC	1	5/25/2016
TOTAL PETROLEUM HYDROCARBONS - 8100M						Analyst: **Admir**
Prep Method: (8100M)			**Prep Date: 5/20/2016 12:42:01 PM**			
Total Petroleum Hydrocarbons	ND	50.0		mg/Kg	1	5/28/2016
Surr: o-Terphenyl	108	40-140		%REC	1	5/28/2016
TOTAL METALS BY ICP - SW6010C						Analyst: **QS**
Prep Method: (SW3050B)			**Prep Date: 5/17/2016 12:53:09 PM**			
Arsenic	ND	4.87		mg/Kg	1	5/17/2016
Cadmium	ND	0.974		mg/Kg	1	5/17/2016
Chromium	ND	4.87		mg/Kg	1	5/17/2016
Lead	*5.91*	4.87		mg/Kg	1	5/17/2016
MERCURY - SW7471B						Analyst: **EC**
Prep Method: (SW7471B)			**Prep Date: 5/19/2016 3:37:36 PM**			
Mercury	ND	0.0830		mg/Kg	1	5/19/2016

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside recovery limits

ANALYTICAL REPORT **Reported Date:** 03-Jun-16

CLIENT:	Germano	**Client Sample ID:**	SP-1
Lab Order:	1605082	**Collection Date:**	5/13/2016 10:30:00 AM
Project:	DW Clark, Inc.	**Date Received:**	5/13/2016
Lab ID:	1605082-001	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS - SW8270D						Analyst: **Admir**
Prep Method: (SW3545A)			**Prep Date:**	**5/19/2016 10:32:35 AM**		
1,1-Biphenyl	ND	10.0		µg/Kg	1	5/19/2016 1:45:00 PM
1,2,4-Trichlorobenzene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
1,2-Dichlorobenzene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
1,2-Dinitrobenzene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
1,3-Dichlorobenzene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
1,3-Dinitrobenzene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
1,4-Dichlorobenzene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
1,4-Dinitrobenzene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
2,3,4,6-Tetrachlorophenol	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
2,4,5-Trichlorophenol	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
2,4,6-Trichlorophenol	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
2,4-Dichlorophenol	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
2,4-Dimethylphenol	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
2,4-Dinitrophenol	ND	500		µg/Kg	1	5/19/2016 1:45:00 PM
2,4-Dinitrotoluene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
2,6-Dinitrotoluene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
2-Chloronaphthalene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
2-Chlorophenol	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
2-Methylnaphthalene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
2-Methylphenol	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
2-Nitroaniline	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
2-Nitrophenol	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
3,3´-Dichlorobenzidine	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
3-Methylphenol/4-Methylphenol	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
3-Nitroaniline	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
4,6-Dinitro-2-Methylphenol	ND	500		µg/Kg	1	5/19/2016 1:45:00 PM
4-Bromophenyl Phenyl Ether	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
4-Chloro-3-Methylphenol	ND	500		µg/Kg	1	5/19/2016 1:45:00 PM
4-Chloroaniline	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
4-Chlorophenyl Phenyl Ether	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
4-Nitroaniline	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
4-Nitrophenol	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Acenaphthene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Acenaphthylene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Acetophenone	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Aniline	ND	500		µg/Kg	1	5/19/2016 1:45:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside recovery limits

ANALYTICAL REPORT

Reported Date: 03-Jun-16

CLIENT:	Germano	**Client Sample ID:**	SP-1
Lab Order:	1605082	**Collection Date:**	5/13/2016 10:30:00 AM
Project:	DW Clark, Inc.	**Date Received:**	5/13/2016
Lab ID:	1605082-001	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS - SW8270D						Analyst: **Admir**
Prep Method: (SW3545A)			**Prep Date:**	**5/19/2016 10:32:35 AM**		
Anthracene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Azobenzene	ND	500		µg/Kg	1	5/19/2016 1:45:00 PM
Benz(a)Anthracene	ND	10.0		µg/Kg	1	5/19/2016 1:45:00 PM
Benzo(a)Pyrene	ND	10.0		µg/Kg	1	5/19/2016 1:45:00 PM
Benzo(b)Fluoranthene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Benzo(g,h,i)Perylene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Benzo(k)Fluoranthene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Benzyl Alcohol	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Bis(2-Chloroethoxy)Methane	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Bis(2-Chloroethyl)Ether	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Bis(2-Chloroisopropyl)Ether	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Bis(2-Ethylhexyl)Phthalate	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Butyl Benzyl Phthalate	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Carbazole	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Chrysene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Dibenz(a,h)Anthracene	ND	10.0		µg/Kg	1	5/19/2016 1:45:00 PM
Dibenzofuran	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Diethyl Phthalate	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Dimethyl Phthalate	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Di-n-Butyl Phthalate	ND	500		µg/Kg	1	5/19/2016 1:45:00 PM
Di-n-Octyl Phthalate	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Fluoranthene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Fluorene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Hexachlorobenzene	ND	10.0		µg/Kg	1	5/19/2016 1:45:00 PM
Hexachlorobutadiene	ND	10.0		µg/Kg	1	5/19/2016 1:45:00 PM
Hexachloroethane	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Indeno(1,2,3-cd)Pyrene	ND	10.0		µg/Kg	1	5/19/2016 1:45:00 PM
Isophorone	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Naphthalene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Nitrobenzene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
N-Nitrosodimethylamine	ND	500		µg/Kg	1	5/19/2016 1:45:00 PM
N-Nitrosodi-n-Propylamine	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
N-Nitrosodiphenylamine	ND	500		µg/Kg	1	5/19/2016 1:45:00 PM
Pentachlorophenol	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Phenanthrene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Phenol	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside recovery limits

ANALYTICAL REPORT

Reported Date: 03-Jun-16

CLIENT:	Germano	**Client Sample ID:**	SP-1
Lab Order:	1605082	**Collection Date:**	5/13/2016 10:30:00 AM
Project:	DW Clark, Inc.	**Date Received:**	5/13/2016
Lab ID:	1605082-001	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS - SW8270D						Analyst: **Admir**
Prep Method: (SW3545A)			**Prep Date: 5/19/2016 10:32:35 AM**			
Pyrene	ND	100		µg/Kg	1	5/19/2016 1:45:00 PM
Pyridine	ND	500		µg/Kg	1	5/19/2016 1:45:00 PM
Surr: 2,4,6-Tribromophenol	48.1	30-130		%REC	1	5/19/2016 1:45:00 PM
Surr: 2-Fluorobiphenyl	42.7	30-130		%REC	1	5/19/2016 1:45:00 PM
Surr: 2-Fluorophenol	54.9	30-130		%REC	1	5/19/2016 1:45:00 PM
Surr: Nitrobenzene-d5	51.5	30-130		%REC	1	5/19/2016 1:45:00 PM
Surr: Phenol-d6	57.6	30-130		%REC	1	5/19/2016 1:45:00 PM
Surr: Terphenyl-d14	55.5	30-130		%REC	1	5/19/2016 1:45:00 PM
VOLATILE ORGANIC COMPOUNDS - 8260B						Analyst: **Admir**
Prep Method:			**Prep Date:**			
1,1,1,2-Tetrachloroethane	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
1,1,1-Trichloroethane	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
1,1,2,2-Tetrachloroethane	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
1,1,2-Trichloroethane	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
1,1-Dichloroethane	ND	77.5		µg/Kg	0.62	5/18/2016 5:10:00 PM
1,1-Dichloroethene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
1,1-Dichloropropene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
1,2,3-Trichlorobenzene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
1,2,4-Trichlorobenzene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
1,2,4-Trimethylbenzene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
1,2-Dibromo-3-Chloropropane	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
1,2-Dibromoethane	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
1,2-Dichlorobenzene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
1,2-Dichloroethane	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
1,2-Dichloropropane	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
1,3,5-Trimethylbenzene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
1,3-Dichlorobenzene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
1,3-Dichloropropane	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
1,4-Dichlorobenzene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
1,4-Dioxane	ND	6200		µg/Kg	0.62	5/18/2016 5:10:00 PM
2,2-Dichloropropane	ND	77.5		µg/Kg	0.62	5/18/2016 5:10:00 PM
2-Butanone	ND	77.5		µg/Kg	0.62	5/18/2016 5:10:00 PM
2-Chloroethyl Vinyl Ether	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside recovery limits

ANALYTICAL REPORT

Reported Date: 03-Jun-16

CLIENT:	Germano	**Client Sample ID:**	SP-1
Lab Order:	1605082	**Collection Date:**	5/13/2016 10:30:00 AM
Project:	DW Clark, Inc.	**Date Received:**	5/13/2016
Lab ID:	1605082-001	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS - 8260B						Analyst: **Admir**
Prep Method:		**Prep Date:**				
2-Chlorotoluene	ND	77.5		µg/Kg	0.62	5/18/2016 5:10:00 PM
2-Hexanone	ND	77.5		µg/Kg	0.62	5/18/2016 5:10:00 PM
2-Methoxy-2-Methylbutane (TAME)	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
4-Chlorotoluene	ND	77.5		µg/Kg	0.62	5/18/2016 5:10:00 PM
4-Isopropyltoluene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
4-Methyl-2-Pentanone	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Acetone	ND	77.5		µg/Kg	0.62	5/18/2016 5:10:00 PM
Acrylonitrile	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Benzene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Bromobenzene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Bromochloromethane	ND	77.5		µg/Kg	0.62	5/18/2016 5:10:00 PM
Bromodichloromethane	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Bromoform	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Bromomethane	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Carbon Disulfide	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Carbon Tetrachloride	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Chlorobenzene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Chloroethane	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Chloroform	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Chloromethane	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
cis-1,2-Dichloroethene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
cis-1,3-Dichloropropene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Dibromochloromethane	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Dibromomethane	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Dichlorodifluoromethane	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Diethyl Ether	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Diisopropyl Ether	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Ethylbenzene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Ethyl-t-Butyl Ether	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Hexachlorobutadiene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Isopropylbenzene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Methyl Tert-Butyl Ether	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Methylene Chloride	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Naphthalene	ND	77.5		µg/Kg	0.62	5/18/2016 5:10:00 PM
n-Butylbenzene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
n-Propylbenzene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- BRL Below Reporting Limit
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- RL Reporting Limit
- S Spike Recovery outside recovery limits

ANALYTICAL REPORT

Reported Date: 03-Jun-16

CLIENT:	Germano	**Client Sample ID:**	SP-1
Lab Order:	1605082	**Collection Date:**	5/13/2016 10:30:00 AM
Project:	DW Clark, Inc.	**Date Received:**	5/13/2016
Lab ID:	1605082-001	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS - 8260B						Analyst: **Admir**
Prep Method:		**Prep Date:**				
sec-Butylbenzene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Styrene	ND	77.5		µg/Kg	0.62	5/18/2016 5:10:00 PM
tert-Butylbenzene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Tetrachloroethene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Tetrahydrofuran	ND	77.5		µg/Kg	0.62	5/18/2016 5:10:00 PM
Toluene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
trans-1,2-Dichloroethene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
trans-1,3-Dichloropropene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Trichloroethene	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Trichlorofluoromethane	ND	77.5		µg/Kg	0.62	5/18/2016 5:10:00 PM
Vinyl Chloride	ND	31.0		µg/Kg	0.62	5/18/2016 5:10:00 PM
Xylenes, Total	ND	77.5		µg/Kg	0.62	5/18/2016 5:10:00 PM
Surr: 1,2-Dichloroethane-d4	111	70-130		%REC	0.62	5/18/2016 5:10:00 PM
Surr: 4-Bromofluorobenzene	98.2	70-130		%REC	0.62	5/18/2016 5:10:00 PM
Surr: Dibromofluoromethane	105	70-130		%REC	0.62	5/18/2016 5:10:00 PM
Surr: Toluene-d8	76.8	70-130		%REC	0.62	5/18/2016 5:10:00 PM
SPECIFIC CONDUCTANCE - E120.1						Analyst: **RP**
Prep Method:		**Prep Date:**				
Specific Conductance	***180***	2.00		µmhos/cm	1	5/17/2016

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside recovery limits

ANALYTICAL REPORT

Reported Date: 03-Jun-16

CLIENT:	Germano	**Client Sample ID:**	SP-2
Lab Order:	1605082	**Collection Date:**	5/13/2016 10:40:00 AM
Project:	DW Clark, Inc.	**Date Received:**	5/13/2016
Lab ID:	1605082-002	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS - SW8082A						Analyst: **DM**
Prep Method: (SW3545A)			**Prep Date: 5/20/2016 12:37:37 PM**			
Aroclor 1016	ND	51.0		µg/Kg-dry	1	5/25/2016
Aroclor 1221	ND	51.0		µg/Kg-dry	1	5/25/2016
Aroclor 1232	ND	51.0		µg/Kg-dry	1	5/25/2016
Aroclor 1242	ND	51.0		µg/Kg-dry	1	5/25/2016
Aroclor 1248	ND	51.0		µg/Kg-dry	1	5/25/2016
Aroclor 1254	ND	51.0		µg/Kg-dry	1	5/25/2016
Aroclor 1260	ND	51.0		µg/Kg-dry	1	5/25/2016
Surr: Decachlorobiphenyl Sig 1	31.0	30-150		%REC	1	5/25/2016
Surr: Decachlorobiphenyl Sig 2	40.0	30-150		%REC	1	5/25/2016
Surr: Tetrachloro-m-Xylene Sig 1	78.0	30-150		%REC	1	5/25/2016
Surr: Tetrachloro-m-Xylene Sig 2	88.0	30-150		%REC	1	5/25/2016
TOTAL PETROLEUM HYDROCARBONS - 8100M						Analyst: **Admir**
Prep Method: (8100M)			**Prep Date: 5/20/2016 12:42:01 PM**			
Total Petroleum Hydrocarbons	ND	51.0		mg/Kg-dry	1	5/28/2016
Surr: o-Terphenyl	87.2	40-140		%REC	1	5/28/2016
TOTAL METALS BY ICP - SW6010C						Analyst: **QS**
Prep Method: (SW3050B)			**Prep Date: 5/17/2016 12:53:09 PM**			
Arsenic	ND	5.00		mg/Kg-dry	1	5/17/2016
Cadmium	ND	1.00		mg/Kg-dry	1	5/17/2016
Chromium	ND	5.00		mg/Kg-dry	1	5/17/2016
Lead	ND	5.00		mg/Kg-dry	1	5/17/2016
MERCURY - SW7471B						Analyst: **EC**
Prep Method: (SW7471B)			**Prep Date: 5/19/2016 3:37:36 PM**			
Mercury	ND	0.0847		mg/Kg-dry	1	5/19/2016

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside recovery limits

ANALYTICAL REPORT

Reported Date: 03-Jun-16

CLIENT:	Germano	**Client Sample ID:**	SP-2
Lab Order:	1605082	**Collection Date:**	5/13/2016 10:40:00 AM
Project:	DW Clark, Inc.	**Date Received:**	5/13/2016
Lab ID:	1605082-002	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS - SW8270D						Analyst: **Admir**
Prep Method: (SW3545A)			**Prep Date: 5/19/2016 10:32:35 AM**			
1,1-Biphenyl	ND	10.2		µg/Kg-dry	1	5/19/2016 2:23:00 PM
1,2,4-Trichlorobenzene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
1,2-Dichlorobenzene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
1,2-Dinitrobenzene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
1,3-Dichlorobenzene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
1,3-Dinitrobenzene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
1,4-Dichlorobenzene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
1,4-Dinitrobenzene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
2,3,4,6-Tetrachlorophenol	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
2,4,5-Trichlorophenol	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
2,4,6-Trichlorophenol	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
2,4-Dichlorophenol	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
2,4-Dimethylphenol	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
2,4-Dinitrophenol	ND	510		µg/Kg-dry	1	5/19/2016 2:23:00 PM
2,4-Dinitrotoluene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
2,6-Dinitrotoluene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
2-Chloronaphthalene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
2-Chlorophenol	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
2-Methylnaphthalene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
2-Methylphenol	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
2-Nitroaniline	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
2-Nitrophenol	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
3,3´-Dichlorobenzidine	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
3-Methylphenol/4-Methylphenol	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
3-Nitroaniline	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
4,6-Dinitro-2-Methylphenol	ND	510		µg/Kg-dry	1	5/19/2016 2:23:00 PM
4-Bromophenyl Phenyl Ether	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
4-Chloro-3-Methylphenol	ND	510		µg/Kg-dry	1	5/19/2016 2:23:00 PM
4-Chloroaniline	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
4-Chlorophenyl Phenyl Ether	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
4-Nitroaniline	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
4-Nitrophenol	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Acenaphthene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Acenaphthylene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Acetophenone	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Aniline	ND	510		µg/Kg-dry	1	5/19/2016 2:23:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside recovery limits

ANALYTICAL REPORT

Reported Date: 03-Jun-16

CLIENT:	Germano	**Client Sample ID:**	SP-2
Lab Order:	1605082	**Collection Date:**	5/13/2016 10:40:00 AM
Project:	DW Clark, Inc.	**Date Received:**	5/13/2016
Lab ID:	1605082-002	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS - SW8270D						Analyst: Admir
Prep Method: (SW3545A)			**Prep Date:**	**5/19/2016 10:32:35 AM**		
Anthracene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Azobenzene	ND	510		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Benz(a)Anthracene	ND	10.2		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Benzo(a)Pyrene	ND	10.2		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Benzo(b)Fluoranthene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Benzo(g,h,i)Perylene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Benzo(k)Fluoranthene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Benzyl Alcohol	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Bis(2-Chloroethoxy)Methane	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Bis(2-Chloroethyl)Ether	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Bis(2-Chloroisopropyl)Ether	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Bis(2-Ethylhexyl)Phthalate	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Butyl Benzyl Phthalate	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Carbazole	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Chrysene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Dibenz(a,h)Anthracene	ND	10.2		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Dibenzofuran	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Diethyl Phthalate	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Dimethyl Phthalate	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Di-n-Butyl Phthalate	ND	510		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Di-n-Octyl Phthalate	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Fluoranthene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Fluorene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Hexachlorobenzene	ND	10.2		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Hexachlorobutadiene	ND	10.2		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Hexachloroethane	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Indeno(1,2,3-cd)Pyrene	ND	10.2		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Isophorone	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Naphthalene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Nitrobenzene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
N-Nitrosodimethylamine	ND	510		µg/Kg-dry	1	5/19/2016 2:23:00 PM
N-Nitrosodi-n-Propylamine	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
N-Nitrosodiphenylamine	ND	510		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Pentachlorophenol	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Phenanthrene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Phenol	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside recovery limits

ANALYTICAL REPORT

Reported Date: 03-Jun-16

CLIENT:	Germano	**Client Sample ID:**	SP-2
Lab Order:	1605082	**Collection Date:**	5/13/2016 10:40:00 AM
Project:	DW Clark, Inc.	**Date Received:**	5/13/2016
Lab ID:	1605082-002	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS - SW8270D						Analyst: **Admir**
Prep Method: (SW3545A)			**Prep Date: 5/19/2016 10:32:35 AM**			
Pyrene	ND	102		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Pyridine	ND	510		µg/Kg-dry	1	5/19/2016 2:23:00 PM
Surr: 2,4,6-Tribromophenol	63.7	30-130		%REC	1	5/19/2016 2:23:00 PM
Surr: 2-Fluorobiphenyl	56.8	30-130		%REC	1	5/19/2016 2:23:00 PM
Surr: 2-Fluorophenol	66.5	30-130		%REC	1	5/19/2016 2:23:00 PM
Surr: Nitrobenzene-d5	62.1	30-130		%REC	1	5/19/2016 2:23:00 PM
Surr: Phenol-d6	70.7	30-130		%REC	1	5/19/2016 2:23:00 PM
Surr: Terphenyl-d14	75.7	30-130		%REC	1	5/19/2016 2:23:00 PM
VOLATILE ORGANIC COMPOUNDS - 8260B						Analyst: **Admir**
Prep Method:			**Prep Date:**			
1,1,1,2-Tetrachloroethane	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
1,1,1-Trichloroethane	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
1,1,2,2-Tetrachloroethane	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
1,1,2-Trichloroethane	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
1,1-Dichloroethane	ND	105		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
1,1-Dichloroethene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
1,1-Dichloropropene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
1,2,3-Trichlorobenzene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
1,2,4-Trichlorobenzene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
1,2,4-Trimethylbenzene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
1,2-Dibromo-3-Chloropropane	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
1,2-Dibromoethane	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
1,2-Dichlorobenzene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
1,2-Dichloroethane	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
1,2-Dichloropropane	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
1,3,5-Trimethylbenzene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
1,3-Dichlorobenzene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
1,3-Dichloropropane	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
1,4-Dichlorobenzene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
1,4-Dioxane	ND	8370		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
2,2-Dichloropropane	ND	105		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
2-Butanone	ND	105		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
2-Chloroethyl Vinyl Ether	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside recovery limits

ANALYTICAL REPORT **Reported Date:** 03-Jun-16

CLIENT:	Germano	**Client Sample ID:**	SP-2
Lab Order:	1605082	**Collection Date:**	5/13/2016 10:40:00 AM
Project:	DW Clark, Inc.	**Date Received:**	5/13/2016
Lab ID:	1605082-002	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS - 8260B						Analyst: **Admir**
Prep Method:		**Prep Date:**				
2-Chlorotoluene	ND	105		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
2-Hexanone	ND	105		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
2-Methoxy-2-Methylbutane (TAME)	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
4-Chlorotoluene	ND	105		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
4-Isopropyltoluene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
4-Methyl-2-Pentanone	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Acetone	ND	105		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Acrylonitrile	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Benzene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Bromobenzene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Bromochloromethane	ND	105		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Bromodichloromethane	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Bromoform	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Bromomethane	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Carbon Disulfide	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Carbon Tetrachloride	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Chlorobenzene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Chloroethane	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Chloroform	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Chloromethane	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
cis-1,2-Dichloroethene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
cis-1,3-Dichloropropene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Dibromochloromethane	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Dibromomethane	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Dichlorodifluoromethane	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Diethyl Ether	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Diisopropyl Ether	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Ethylbenzene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Ethyl-t-Butyl Ether	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Hexachlorobutadiene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Isopropylbenzene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Methyl Tert-Butyl Ether	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Methylene Chloride	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Naphthalene	ND	105		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
n-Butylbenzene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
n-Propylbenzene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside recovery limits

ANALYTICAL REPORT

Reported Date: 03-Jun-16

CLIENT:	Germano	**Client Sample ID:**	SP-2
Lab Order:	1605082	**Collection Date:**	5/13/2016 10:40:00 AM
Project:	DW Clark, Inc.	**Date Received:**	5/13/2016
Lab ID:	1605082-002	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS - 8260B						Analyst: **Admir**
Prep Method:		**Prep Date:**				
sec-Butylbenzene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Styrene	ND	105		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
tert-Butylbenzene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Tetrachloroethene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Tetrahydrofuran	ND	105		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Toluene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
trans-1,2-Dichloroethene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
trans-1,3-Dichloropropene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Trichloroethene	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Trichlorofluoromethane	ND	105		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Vinyl Chloride	ND	41.8		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Xylenes, Total	ND	105		µg/Kg-dry	0.82	5/18/2016 5:46:00 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	0.82	5/18/2016 5:46:00 PM
Surr: 4-Bromofluorobenzene	102	70-130		%REC	0.82	5/18/2016 5:46:00 PM
Surr: Dibromofluoromethane	98.3	70-130		%REC	0.82	5/18/2016 5:46:00 PM
Surr: Toluene-d8	78.9	70-130		%REC	0.82	5/18/2016 5:46:00 PM
SPECIFIC CONDUCTANCE - E120.1						Analyst: **RP**
Prep Method:		**Prep Date:**				
Specific Conductance	*660*	2.00		µmhos/cm	1	5/17/2016

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	RL	Reporting Limit	S	Spike Recovery outside recovery limits	

ANALYTICAL QC SUMMARY REPORT

Date: *03-Jun-16*

CLIENT: Germano
Work Order: 1605082
Project: DW Clark, Inc.

TestCode: 6010C_S

Sample ID: **MBLK-26510**	SampType: **MBLK**	TestCode: **6010C_S**	Units: **mg/Kg**	Prep Date: **5/17/2016**	RunNo: **61027**
Client ID: **ZZZZZ**	Batch ID: **26510**	TestNo: **SW6010C**	**(SW3050B)**	Analysis Date: **5/17/2016**	SeqNo: **670120**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	5.00									
Cadmium	ND	1.00									
Chromium	ND	5.00									
Lead	ND	5.00									

Sample ID: **LCS-26510**	SampType: **LCS**	TestCode: **6010C_S**	Units: **mg/Kg**	Prep Date: **5/17/2016**	RunNo: **61027**
Client ID: **ZZZZZ**	Batch ID: **26510**	TestNo: **SW6010C**	**(SW3050B)**	Analysis Date: **5/17/2016**	SeqNo: **670118**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	118.3	5.00	133.3	0	88.7	80	120				
Cadmium	121.8	1.00	133.3	0	91.4	80	120				
Chromium	117.9	5.00	133.3	0	88.5	80	120				
Lead	122.2	5.00	133.3	0	91.7	80	120				

Qualifiers:

BRL	Below Reporting Limit	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside recovery limits
RL	Reporting Limit	S	Spike Recovery outside recovery limits		

CLIENT: Germano
Work Order: 1605082
Project: DW Clark, Inc.

TestCode: 8082A_S_ASE

Sample ID: **MB-26522**	SampType: **MBLK**	TestCode: **8082A_S_AS**	Units: **µg/Kg**	Prep Date: **5/20/2016**	RunNo: **61168**
Client ID: **ZZZZZ**	Batch ID: **26522**	TestNo: **SW8082**	**(SW3545A)**	Analysis Date: **5/25/2016**	SeqNo: **671243**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	50.0									
Aroclor 1221	ND	50.0									
Aroclor 1232	ND	50.0									
Aroclor 1242	ND	50.0									
Aroclor 1248	ND	50.0									
Aroclor 1254	ND	50.0									
Aroclor 1260	ND	50.0									
Surr: Decachlorobiphenyl Sig 1	30.00	0	100	0	30.0	30	150				
Surr: Decachlorobiphenyl Sig 2	36.00	0	100	0	36.0	30	150				
Surr: Tetrachloro-m-Xylene Sig 1	74.00	0	100	0	74.0	30	150				
Surr: Tetrachloro-m-Xylene Sig 2	78.00	0	100	0	78.0	30	150				

Sample ID: **LCS-26522**	SampType: **LCS**	TestCode: **8082A_S_AS**	Units: **µg/Kg**	Prep Date: **5/20/2016**	RunNo: **61168**
Client ID: **ZZZZZ**	Batch ID: **26522**	TestNo: **SW8082**	**(SW3545A)**	Analysis Date: **5/25/2016**	SeqNo: **671241**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	125.4	50.0	100	0	125	40	140				
Aroclor 1260	118.2	50.0	100	0	118	40	140				
Surr: Decachlorobiphenyl Sig 1	37.00	0	100	0	37.0	30	150				
Surr: Decachlorobiphenyl Sig 2	45.00	0	100	0	45.0	30	150				
Surr: Tetrachloro-m-Xylene Sig 1	82.00	0	100	0	82.0	30	150				
Surr: Tetrachloro-m-Xylene Sig 2	87.00	0	100	0	87.0	30	150				

Qualifiers:

BRL	Below Reporting Limit	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside recovery limits
RL	Reporting Limit	S	Spike Recovery outside recovery limits		

CLIENT: Germano
Work Order: 1605082
Project: DW Clark, Inc.

TestCode: 8260B_S_MCP

Sample ID: **MBLK**	SampType: **mblk**	TestCode: **8260B_S_MC**	Units: **µg/Kg**	Prep Date:	RunNo: **61048**
Client ID: **ZZZZZ**	Batch ID: **R61048**	TestNo: **SW8260B**		Analysis Date: **5/18/2016**	SeqNo: **670215**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	50.0									
1,1,1-Trichloroethane	ND	50.0									
1,1,2,2-Tetrachloroethane	ND	50.0									
1,1,2-Trichloroethane	ND	50.0									
1,1-Dichloroethane	ND	125									
1,1-Dichloroethene	ND	50.0									
1,1-Dichloropropene	ND	50.0									
1,2,3-Trichlorobenzene	ND	50.0									
1,2,4-Trichlorobenzene	ND	50.0									
1,2,4-Trimethylbenzene	ND	50.0									
1,2-Dibromo-3-Chloropropane	ND	50.0									
1,2-Dibromoethane	ND	50.0									
1,2-Dichlorobenzene	ND	50.0									
1,2-Dichloroethane	ND	50.0									
1,2-Dichloropropane	ND	50.0									
1,3,5-Trimethylbenzene	ND	50.0									
1,3-Dichlorobenzene	ND	50.0									
1,3-Dichloropropane	ND	50.0									
1,4-Dichlorobenzene	ND	50.0									
1,4-Dioxane	ND	10000									
2,2-Dichloropropane	ND	125									
2-Butanone	ND	125									
2-Chloroethyl Vinyl Ether	ND	50.0									
2-Chlorotoluene	ND	125									
2-Hexanone	ND	125									
2-Methoxy-2-Methylbutane (TAME)	ND	50.0									
4-Chlorotoluene	ND	125									
4-Isopropyltoluene	ND	50.0									

Qualifiers:

BRL	Below Reporting Limit	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside recovery limits
RL	Reporting Limit	S	Spike Recovery outside recovery limits		

CLIENT: Germano
Work Order: 1605082
Project: DW Clark, Inc.

TestCode: 8260B_S_MCP

Sample ID: **MBLK** SampType: **mblk** TestCode: **8260B_S_MC** Units: **µg/Kg** Prep Date: RunNo: **61048**
Client ID: **ZZZZZ** Batch ID: **R61048** TestNo: **SW8260B** Analysis Date: **5/18/2016** SeqNo: **670215**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Methyl-2-Pentanone	ND	50.0									
Acetone	ND	125									
Acrylonitrile	ND	50.0									
Benzene	ND	50.0									
Bromobenzene	ND	50.0									
Bromochloromethane	ND	125									
Bromodichloromethane	ND	50.0									
Bromoform	ND	50.0									
Bromomethane	ND	50.0									
Carbon Disulfide	ND	50.0									
Carbon Tetrachloride	ND	50.0									
Chlorobenzene	ND	50.0									
Chloroethane	ND	50.0									
Chloroform	ND	50.0									
Chloromethane	ND	50.0									
cis-1,2-Dichloroethene	ND	50.0									
cis-1,3-Dichloropropene	ND	50.0									
Dibromochloromethane	ND	50.0									
Dibromomethane	ND	50.0									
Dichlorodifluoromethane	ND	50.0									
Diethyl Ether	ND	50.0									
Diisopropyl Ether	ND	50.0									
Ethylbenzene	ND	50.0									
Ethyl-t-Butyl Ether	ND	50.0									
Hexachlorobutadiene	ND	50.0									
Isopropylbenzene	ND	50.0									
Methyl Tert-Butyl Ether	ND	50.0									
Methylene Chloride	ND	50.0									

Qualifiers:

- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- RL Reporting Limit
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside recovery limits
- H Holding times for preparation or analysis exceeded
- R RPD outside recovery limits

CLIENT: Germano
Work Order: 1605082
Project: DW Clark, Inc.

TestCode: 8260B_S_MCP

Sample ID: **MBLK** SampType: **mblk** TestCode: **8260B_S_MC** Units: **µg/Kg** Prep Date: RunNo: **61048**
Client ID: **ZZZZZ** Batch ID: **R61048** TestNo: **SW8260B** Analysis Date: **5/18/2016** SeqNo: **670215**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	125									
n-Butylbenzene	ND	50.0									
n-Propylbenzene	ND	50.0									
sec-Butylbenzene	ND	50.0									
Styrene	ND	125									
tert-Butylbenzene	ND	50.0									
Tetrachloroethene	ND	50.0									
Tetrahydrofuran	ND	125									
Toluene	ND	50.0									
trans-1,2-Dichloroethene	ND	50.0									
trans-1,3-Dichloropropene	ND	50.0									
Trichloroethene	ND	50.0									
Trichlorofluoromethane	ND	125									
Vinyl Chloride	ND	50.0									
Xylenes, Total	ND	125									
Surr: 1,2-Dichloroethane-d4	824.0	0	750	0	110	70	130				
Surr: 4-Bromofluorobenzene	741.2	0	750	0	98.8	70	130				
Surr: Dibromofluoromethane	675.8	0	750	0	90.1	70	130				
Surr: Toluene-d8	589.2	0	750	0	78.6	70	130				

Sample ID: **LCS** SampType: **lcs** TestCode: **8260B_S_MC** Units: **µg/Kg** Prep Date: RunNo: **61048**
Client ID: **ZZZZZ** Batch ID: **R61048** TestNo: **SW8260B** Analysis Date: **5/18/2016** SeqNo: **670213**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1155	50.0	1250	0	92.4	70	130				
1,1,1-Trichloroethane	1114	50.0	1250	0	89.1	70	130				
1,1,2,2-Tetrachloroethane	1227	50.0	1250	0	98.2	70	130				

Qualifiers:

- BRL Below Reporting Limit
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside recovery limits
- RL Reporting Limit
- S Spike Recovery outside recovery limits

CLIENT: Germano
Work Order: 1605082
Project: DW Clark, Inc.

TestCode: 8260B_S_MCP

Sample ID: **LCS**	SampType: **lcs**	TestCode: **8260B_S_MC**	Units: **µg/Kg**	Prep Date:	RunNo: **61048**
Client ID: **ZZZZZ**	Batch ID: **R61048**	TestNo: **SW8260B**		Analysis Date: **5/18/2016**	SeqNo: **670213**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane	1284	50.0	1250	0	103	70	130				
1,1-Dichloroethane	1270	125	1250	0	102	70	130				
1,1-Dichloroethene	1134	50.0	1250	0	90.7	70	130				
1,1-Dichloropropene	1112	50.0	1250	0	89.0	70	130				
1,2,3-Trichlorobenzene	1051	50.0	1250	0	84.1	70	130				
1,2,4-Trichlorobenzene	1202	50.0	1250	0	96.1	70	130				
1,2,4-Trimethylbenzene	1390	50.0	1250	0	111	70	130				
1,2-Dibromo-3-Chloropropane	1228	50.0	1250	0	98.3	70	130				
1,2-Dibromoethane	1260	50.0	1250	0	101	70	130				
1,2-Dichlorobenzene	1188	50.0	1250	0	95.0	70	130				
1,2-Dichloroethane	1262	50.0	1250	0	101	70	130				
1,2-Dichloropropane	1224	50.0	1250	0	97.9	70	130				
1,3,5-Trimethylbenzene	1352	50.0	1250	0	108	70	130				
1,3-Dichlorobenzene	1222	50.0	1250	0	97.7	70	130				
1,3-Dichloropropane	1308	50.0	1250	0	105	70	130				
1,4-Dichlorobenzene	1092	50.0	1250	0	87.3	70	130				
2,2-Dichloropropane	856.5	125	1250	0	68.5	70	130				S
2-Butanone	1323	125	1250	0	106	70	130				
2-Chloroethyl Vinyl Ether	1224	50.0	1250	0	97.9	70	130				
2-Chlorotoluene	1308	125	1250	0	105	70	130				
2-Hexanone	1147	125	1250	0	91.8	70	130				
2-Methoxy-2-Methylbutane (TAME)	ND	50.0	1250	0	0	70	130				S
4-Chlorotoluene	1349	125	1250	0	108	70	130				
4-Isopropyltoluene	1329	50.0	1250	0	106	70	130				
4-Methyl-2-Pentanone	1208	50.0	1250	0	96.6	70	130				
Acetone	1267	125	1250	0	101	70	130				
Acrylonitrile	2344	50.0	2500	0	93.7	70	130				
Benzene	1228	50.0	1250	0	98.3	70	130				

Qualifiers:

BRL	Below Reporting Limit	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside recovery limits
RL	Reporting Limit	S	Spike Recovery outside recovery limits		

CLIENT: Germano
Work Order: 1605082
Project: DW Clark, Inc.

TestCode: 8260B_S_MCP

Sample ID: **LCS**	SampType: **lcs**	TestCode: **8260B_S_MC**	Units: **µg/Kg**	Prep Date:	RunNo: **61048**
Client ID: **ZZZZZ**	Batch ID: **R61048**	TestNo: **SW8260B**		Analysis Date: **5/18/2016**	SeqNo: **670213**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	1252	50.0	1250	0	100	70	130				
Bromochloromethane	1222	125	1250	0	97.7	70	130				
Bromodichloromethane	1185	50.0	1250	0	94.8	70	130				
Bromoform	1379	50.0	1250	0	110	70	130				
Bromomethane	1190	50.0	1250	0	95.2	70	130				
Carbon Disulfide	1101	50.0	1250	0	88.1	70	130				
Carbon Tetrachloride	1121	50.0	1250	0	89.7	70	130				
Chlorobenzene	1129	50.0	1250	0	90.3	70	130				
Chloroethane	1080	50.0	1250	0	86.4	70	130				
Chloroform	1218	50.0	1250	0	97.4	70	130				
Chloromethane	1121	50.0	1250	0	89.7	70	130				
cis-1,2-Dichloroethene	1300	50.0	1250	0	104	70	130				
cis-1,3-Dichloropropene	1234	50.0	1250	0	98.7	70	130				
Dibromochloromethane	1264	50.0	1250	0	101	70	130				
Dibromomethane	1138	50.0	1250	0	91.1	70	130				
Dichlorodifluoromethane	1059	50.0	1250	0	84.7	70	130				
Diethyl Ether	ND	50.0	1250	0	0	70	130				S
Diisopropyl Ether	1314	50.0	1250	0	105	70	130				
Ethylbenzene	1315	50.0	1250	0	105	70	130				
Ethyl-t-Butyl Ether	1292	50.0	1250	0	103	70	130				
Hexachlorobutadiene	1076	50.0	1250	0	86.0	70	130				
Isopropylbenzene	1061	50.0	1250	0	84.9	70	130				
Methyl Tert-Butyl Ether	1312	50.0	1250	0	105	70	130				
Methylene Chloride	1158	50.0	1250	0	92.7	70	130				
Naphthalene	1218	125	1250	0	97.5	70	130				
n-Butylbenzene	1254	50.0	1250	0	100	70	130				
n-Propylbenzene	1353	50.0	1250	0	108	70	130				
sec-Butylbenzene	1270	50.0	1250	0	102	70	130				

Qualifiers:

BRL	Below Reporting Limit	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside recovery limits
RL	Reporting Limit	S	Spike Recovery outside recovery limits		

CLIENT: Germano
Work Order: 1605082
Project: DW Clark, Inc.

TestCode: 8260B_S_MCP

Sample ID: **LCS**	SampType: **lcs**	TestCode: **8260B_S_MC**	Units: **µg/Kg**	Prep Date:	RunNo: **61048**
Client ID: **ZZZZZ**	Batch ID: **R61048**	TestNo: **SW8260B**		Analysis Date: **5/18/2016**	SeqNo: **670213**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	1386	125	1250	0	111	70	130				
tert-Butylbenzene	1402	50.0	1250	0	112	70	130				
Tetrachloroethene	1215	50.0	1250	0	97.2	70	130				
Tetrahydrofuran	1310	125	1250	0	105	70	130				
Toluene	1180	50.0	1250	0	94.4	70	130				
trans-1,2-Dichloroethene	1125	50.0	1250	0	90.0	70	130				
trans-1,3-Dichloropropene	1242	50.0	1250	0	99.3	70	130				
Trichloroethene	1139	50.0	1250	0	91.1	70	130				
Trichlorofluoromethane	1132	125	1250	0	90.5	70	130				
Vinyl Chloride	1170	50.0	1250	0	93.6	70	130				
Xylenes, Total	3514	125	3750	0	93.7	70	130				
Surr: 1,2-Dichloroethane-d4	688.8	0	750	0	91.8	70	130				
Surr: 4-Bromofluorobenzene	773.0	0	750	0	103	70	130				
Surr: Dibromofluoromethane	760.5	0	750	0	101	70	130				
Surr: Toluene-d8	815.2	0	750	0	109	70	130				

Qualifiers:

BRL	Below Reporting Limit	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside recovery limits
RL	Reporting Limit	S	Spike Recovery outside recovery limits		

CLIENT: Germano
Work Order: 1605082
Project: DW Clark, Inc.

TestCode: 8270D_S_ASE

Sample ID: **MB-26513**	SampType: **mblk**	TestCode: **8270D_S_AS**	Units: **µg/Kg**	Prep Date: **5/19/2016**	RunNo: **61055**
Client ID: **ZZZZZ**	Batch ID: **26513**	TestNo: **SW8270C**	**(SW3545A)**	Analysis Date: **5/19/2016**	SeqNo: **670277**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Biphenyl	ND	10.0									
1,2,4-Trichlorobenzene	ND	100									
1,2-Dichlorobenzene	ND	100									
1,2-Dinitrobenzene	ND	100									
1,3-Dichlorobenzene	ND	100									
1,3-Dinitrobenzene	ND	100									
1,4-Dichlorobenzene	ND	100									
1,4-Dinitrobenzene	ND	100									
2,3,4,6-Tetrachlorophenol	ND	100									
2,4,5-Trichlorophenol	ND	100									
2,4,6-Trichlorophenol	ND	100									
2,4-Dichlorophenol	ND	100									
2,4-Dimethylphenol	ND	100									
2,4-Dinitrophenol	ND	500									
2,4-Dinitrotoluene	ND	100									
2,6-Dinitrotoluene	ND	100									
2-Chloronaphthalene	ND	100									
2-Chlorophenol	ND	100									
2-Methylnaphthalene	ND	100									
2-Methylphenol	ND	100									
2-Nitroaniline	ND	100									
2-Nitrophenol	ND	100									
3,3´-Dichlorobenzidine	ND	100									
3-Methylphenol/4-Methylphenol	ND	100									
3-Nitroaniline	ND	100									
4,6-Dinitro-2-Methylphenol	ND	500									
4-Bromophenyl Phenyl Ether	ND	100									
4-Chloro-3-Methylphenol	ND	500									

Qualifiers:

BRL	Below Reporting Limit	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside recovery limits
RL	Reporting Limit	S	Spike Recovery outside recovery limits		

CLIENT: Germano
Work Order: 1605082
Project: DW Clark, Inc.

TestCode: 8270D_S_ASE

Sample ID: **MB-26513**	SampType: **mblk**	TestCode: **8270D_S_AS**	Units: **µg/Kg**	Prep Date: **5/19/2016**	RunNo: **61055**
Client ID: **ZZZZZ**	Batch ID: **26513**	TestNo: **SW8270C**	**(SW3545A)**	Analysis Date: **5/19/2016**	SeqNo: **670277**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chloroaniline	ND	100									
4-Chlorophenyl Phenyl Ether	ND	100									
4-Nitroaniline	ND	100									
4-Nitrophenol	ND	100									
Acenaphthene	ND	100									
Acenaphthylene	ND	100									
Acetophenone	ND	100									
Aniline	ND	500									
Anthracene	ND	100									
Azobenzene	ND	500									
Benz(a)Anthracene	ND	10.0									
Benzo(a)Pyrene	ND	10.0									
Benzo(b)Fluoranthene	ND	100									
Benzo(g,h,i)Perylene	ND	100									
Benzo(k)Fluoranthene	ND	100									
Benzyl Alcohol	ND	100									
Bis(2-Chloroethoxy)Methane	ND	100									
Bis(2-Chloroethyl)Ether	ND	100									
Bis(2-Chloroisopropyl)Ether	ND	100									
Bis(2-Ethylhexyl)Phthalate	ND	100									
Butyl Benzyl Phthalate	ND	100									
Carbazole	ND	100									
Chrysene	ND	100									
Dibenz(a,h)Anthracene	ND	10.0									
Dibenzofuran	ND	100									
Diethyl Phthalate	ND	100									
Dimethyl Phthalate	ND	100									
Di-n-Butyl Phthalate	ND	500									

Qualifiers:

BRL	Below Reporting Limit	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside recovery limits
RL	Reporting Limit	S	Spike Recovery outside recovery limits		

CLIENT: Germano
Work Order: 1605082
Project: DW Clark, Inc.

TestCode: 8270D_S_ASE

Sample ID: **MB-26513**	SampType: **mblk**	TestCode: **8270D_S_AS**	Units: **µg/Kg**	Prep Date: **5/19/2016**	RunNo: **61055**
Client ID: **ZZZZZ**	Batch ID: **26513**	TestNo: **SW8270C**	**(SW3545A)**	Analysis Date: **5/19/2016**	SeqNo: **670277**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-n-Octyl Phthalate	ND	100									
Fluoranthene	ND	100									
Fluorene	ND	100									
Hexachlorobenzene	ND	10.0									
Hexachlorobutadiene	ND	10.0									
Hexachloroethane	ND	100									
Indeno(1,2,3-cd)Pyrene	ND	10.0									
Isophorone	ND	100									
Naphthalene	ND	100									
Nitrobenzene	ND	100									
N-Nitrosodimethylamine	ND	500									
N-Nitrosodi-n-Propylamine	ND	100									
N-Nitrosodiphenylamine	ND	500									
Pentachlorophenol	ND	100									
Phenanthrene	ND	100									
Phenol	ND	100									
Pyrene	ND	100									
Pyridine	ND	500									
Surr: 2,4,6-Tribromophenol	5693	0	7500	0	75.9	30	130				
Surr: 2-Fluorobiphenyl	3862	0	5000	0	77.2	30	130				
Surr: 2-Fluorophenol	6764	0	7500	0	90.2	30	130				
Surr: Nitrobenzene-d5	4336	0	5000	0	86.7	30	130				
Surr: Phenol-d6	6964	0	7500	0	92.8	30	130				
Surr: Terphenyl-d14	4382	0	5000	0	87.7	30	130				

Qualifiers:

BRL	Below Reporting Limit	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside recovery limits
RL	Reporting Limit	S	Spike Recovery outside recovery limits		

CLIENT: Germano
Work Order: 1605082
Project: DW Clark, Inc.

TestCode: 8270D_S_ASE

Sample ID: **LCS-26513**	SampType: **lcs**	TestCode: **8270D_S_AS**	Units: **µg/Kg**	Prep Date: **5/19/2016**	RunNo: **61055**
Client ID: **ZZZZZ**	Batch ID: **26513**	TestNo: **SW8270C**	**(SW3545A)**	Analysis Date: **5/19/2016**	SeqNo: **670279**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Biphenyl	198.0	10.0	250	0	79.2	40	140				
1,2,4-Trichlorobenzene	1688	100	2500	0	67.5	40	140				
1,2-Dichlorobenzene	1698	100	2500	0	67.9	40	140				
1,2-Dinitrobenzene	1983	100	2500	0	79.3	40	140				
1,3-Dichlorobenzene	1654	100	2500	0	66.2	40	140				
1,3-Dinitrobenzene	2150	100	2500	0	86.0	40	140				
1,4-Dichlorobenzene	1634	100	2500	0	65.4	40	140				
1,4-Dinitrobenzene	2028	100	2500	0	81.1	40	140				
2,3,4,6-Tetrachlorophenol	2250	100	2500	0	90.0	30	130				
2,4,5-Trichlorophenol	1924	100	2500	0	76.9	30	130				
2,4,6-Trichlorophenol	1938	100	2500	0	77.5	30	130				
2,4-Dichlorophenol	1908	100	2500	0	76.3	30	130				
2,4-Dimethylphenol	1350	100	2500	0	54.0	30	130				
2,4-Dinitrophenol	ND	500	2500	0	0	15	130				S
2,4-Dinitrotoluene	2042	100	2500	0	81.7	40	140				
2,6-Dinitrotoluene	2076	100	2500	0	83.0	40	140				
2-Chloronaphthalene	1902	100	2500	0	76.1	40	140				
2-Chlorophenol	2016	100	2500	0	80.6	30	130				
2-Methylnaphthalene	1836	100	2500	0	73.4	40	140				
2-Methylphenol	2342	100	2500	0	93.7	30	130				
2-Nitroaniline	2448	100	2500	0	97.9	15	130				
2-Nitrophenol	1890	100	2500	0	75.6	30	130				
3,3'-Dichlorobenzidine	2415	100	2500	0	96.6	40	140				
3-Methylphenol/4-Methylphenol	2252	100	2500	0	90.1	30	130				
3-Nitroaniline	2208	100	2500	0	88.3	15	140				
4,6-Dinitro-2-Methylphenol	570.0	500	2500	0	22.8	30	130				S
4-Bromophenyl Phenyl Ether	2296	100	2500	0	91.9	40	140				
4-Chloro-3-Methylphenol	2172	500	2500	0	86.9	30	130				

Qualifiers:

BRL	Below Reporting Limit	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside recovery limits
RL	Reporting Limit	S	Spike Recovery outside recovery limits		

CLIENT: Germano
Work Order: 1605082
Project: DW Clark, Inc.

TestCode: 8270D_S_ASE

Sample ID: **LCS-26513**	SampType: **lcs**	TestCode: **8270D_S_AS**	Units: **µg/Kg**	Prep Date: **5/19/2016**	RunNo: **61055**
Client ID: **ZZZZZ**	Batch ID: **26513**	TestNo: **SW8270C**	**(SW3545A)**	Analysis Date: **5/19/2016**	SeqNo: **670279**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chloroaniline	1840	100	2500	0	73.6	15	140				
4-Chlorophenyl Phenyl Ether	2126	100	2500	0	85.0	40	140				
4-Nitroaniline	2208	100	2500	0	88.3	15	140				
4-Nitrophenol	1824	100	2500	0	73.0	15	130				
Acenaphthene	2141	100	2500	0	85.6	40	140				
Acenaphthylene	2096	100	2500	0	83.9	40	140				
Acetophenone	1941	100	2500	0	77.6	40	140				
Aniline	1806	500	2500	0	72.2	15	140				
Anthracene	2234	100	2500	0	89.3	40	140				
Azobenzene	2099	500	2500	0	84.0	40	140				
Benz(a)Anthracene	2320	10.0	2500	0	92.8	40	140				
Benzo(a)Pyrene	2284	10.0	2500	0	91.4	40	140				
Benzo(b)Fluoranthene	2344	100	2500	0	93.8	40	140				
Benzo(g,h,i)Perylene	2011	100	2500	0	80.4	40	140				
Benzo(k)Fluoranthene	2210	100	2500	0	88.4	40	140				
Benzyl Alcohol	1996	100	2500	0	79.9	40	140				
Bis(2-Chloroethoxy)Methane	2072	100	2500	0	82.9	40	140				
Bis(2-Chloroethyl)Ether	1779	100	2500	0	71.2	40	140				
Bis(2-Chloroisopropyl)Ether	2097	100	2500	0	83.9	40	140				
Bis(2-Ethylhexyl)Phthalate	2124	100	2500	0	85.0	40	140				
Butyl Benzyl Phthalate	2498	100	2500	0	99.9	40	140				
Carbazole	2252	100	2500	0	90.1	40	140				
Chrysene	2321	100	2500	0	92.8	40	140				
Dibenz(a,h)Anthracene	2282	10.0	2500	0	91.3	40	140				
Dibenzofuran	2032	100	2500	0	81.3	40	140				
Diethyl Phthalate	2040	100	2500	0	81.6	40	140				
Dimethyl Phthalate	1990	100	2500	0	79.6	40	140				
Di-n-Butyl Phthalate	2016	500	2500	0	80.7	40	140				

Qualifiers:

BRL	Below Reporting Limit	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside recovery limits
RL	Reporting Limit	S	Spike Recovery outside recovery limits		

CLIENT: Germano
Work Order: 1605082
Project: DW Clark, Inc.

TestCode: 8270D_S_ASE

Sample ID: **LCS-26513**	SampType: **lcs**	TestCode: **8270D_S_AS**	Units: **µg/Kg**	Prep Date: **5/19/2016**	RunNo: **61055**
Client ID: **ZZZZZ**	Batch ID: **26513**	TestNo: **SW8270C**	**(SW3545A)**	Analysis Date: **5/19/2016**	SeqNo: **670279**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-n-Octyl Phthalate	2340	100	2500	0	93.6	40	140				
Fluoranthene	2197	100	2500	0	87.9	40	140				
Fluorene	2106	100	2500	0	84.2	40	140				
Hexachlorobenzene	2084	10.0	2500	0	83.3	40	140				
Hexachlorobutadiene	1618	10.0	2500	0	64.7	40	140				
Hexachloroethane	1720	100	2500	0	68.8	40	140				
Indeno(1,2,3-cd)Pyrene	2204	10.0	2500	0	88.2	40	140				
Isophorone	2112	100	2500	0	84.5	40	140				
Naphthalene	1908	100	2500	0	76.3	40	140				
Nitrobenzene	1970	100	2500	0	78.8	40	140				
N-Nitrosodimethylamine	1875	500	2500	0	75.0	40	140				
N-Nitrosodi-n-Propylamine	2040	100	2500	0	81.6	40	140				
N-Nitrosodiphenylamine	2214	500	2500	0	88.6	40	140				
Pentachlorophenol	1430	100	2500	0	57.2	30	130				
Phenanthrene	2246	100	2500	0	89.9	40	140				
Phenol	2102	100	2500	0	84.1	30	130				
Pyrene	2512	100	2500	0	101	40	140				
Pyridine	871.5	500	2500	0	34.9	40	140				S
Surr: 2,4,6-Tribromophenol	6566	0	7500	0	87.6	30	130				
Surr: 2-Fluorobiphenyl	3938	0	5000	0	78.8	30	130				
Surr: 2-Fluorophenol	6525	0	7500	0	87.0	30	130				
Surr: Nitrobenzene-d5	4392	0	5000	0	87.8	30	130				
Surr: Phenol-d6	7133	0	7500	0	95.1	30	130				
Surr: Terphenyl-d14	5148	0	5000	0	103	30	130				

Qualifiers:

BRL	Below Reporting Limit	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside recovery limits
RL	Reporting Limit	S	Spike Recovery outside recovery limits		

CLIENT: Germano
Work Order: 1605082
Project: DW Clark, Inc.

TestCode: COND_S

Sample ID: **MB-R61034**	SampType: **MBLK**	TestCode: **COND_S**	Units: **µmhos/cm**	Prep Date:	RunNo: **61034**
Client ID: **ZZZZZ**	Batch ID: **R61034**	TestNo: **E120.1**		Analysis Date: **5/17/2016**	SeqNo: **670096**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	ND	2.00									

Sample ID: **LCS-R61034**	SampType: **LCS**	TestCode: **COND_S**	Units: **µmhos/cm**	Prep Date:	RunNo: **61034**
Client ID: **ZZZZZ**	Batch ID: **R61034**	TestNo: **E120.1**		Analysis Date: **5/17/2016**	SeqNo: **670097**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	740.0	2.00	717.5	0.06	103	90	110				

Qualifiers:

BRL	Below Reporting Limit	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside recovery limits
RL	Reporting Limit	S	Spike Recovery outside recovery limits		

CLIENT: Germano
Work Order: 1605082
Project: DW Clark, Inc.

TestCode: hg_7471b_s

Sample ID: **MB-26517**	SampType: **MBLK**	TestCode: **hg_7471b_s**	Units: **mg/Kg**	Prep Date: **5/19/2016**	RunNo: **61052**
Client ID: **ZZZZZ**	Batch ID: **26517**	TestNo: **SW 7471B**	**(SW7471B)**	Analysis Date: **5/19/2016**	SeqNo: **670241**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.0830									

Sample ID: **LCS-26517**	SampType: **LCS**	TestCode: **hg_7471b_s**	Units: **mg/Kg**	Prep Date: **5/19/2016**	RunNo: **61052**
Client ID: **ZZZZZ**	Batch ID: **26517**	TestNo: **SW 7471B**	**(SW7471B)**	Analysis Date: **5/19/2016**	SeqNo: **670242**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.8500	0.0830	0.833	0	102	80	120				

Qualifiers:

BRL	Below Reporting Limit	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside recovery limits
RL	Reporting Limit	S	Spike Recovery outside recovery limits		

1605082

GeoLabs, Inc.
Environmental Laboratories
45 Johnson Lane
Braintree, MA 02184
Office: 781-848-7844
Fax: 781-848-7811

Turnaround Time
RUSH: 24hrs ☐ 48hrs ☐ 72hrs ☐
STANDARD: 5 Days X
Rush
Approved By:

Page 1 of 1

SPECIAL INSTRUCTIONS

OT - SAND FROM FOUNDRY CASTINGS

Client: MARK A. GERMANO, LSP
Address: 15 PINEHURST RD MARSHFIELD MA 02050
Phone: (339) 793-3528
Fax:
Contact:
E-mail: mgermano916@gmail.com

Project Number: D.W. CLARK INC.
Project Location: 692 N. BEDFORD (RT 18) E. BRIDGEWATER, MA
Purchase Order #:
Collected By: S. MCISAAC

ANALYSES REQUESTED

SAMPLE ID	COLLECTION DATE	COLLECTION TIME	COLLECTION SAMPLED BY	SAMPLE LOCATION	CONTAINER TYPE	CONTAINER QUANT	MATRIX	COMP	GRAB	PRES	GEOLABS SAMPLE NUMBER	COMM-97								TEMPERATURE	LAB pH
	5/13	10:30	STM	SP-1	V/G	4	OT	X	X		5082-001	X									
	"	10:40	STM	SP-2	V/G	4	OT	X	X		5082-002	X									
						8oz VOAs		↑	↑												

CONTAINER CODES:
A = Amber
B = Bag
G = Glass
P = Plastic
S = Summa Canister
O = Other V = VOA

MATRIX CODES:
GW = Ground Water
WW = Wastewater
DW = Drinking Water
SL = Sludge
S = Soil A = Air
O = Oil OT = Other

PRESERVATIVE CODES:
1 = HCl 7 = ICE
2 = HNO_3
3 = H_2SO_4
4 = $Na_2S_2O_3$
5 = NaOH
6 = MeOH

Relinquished By:	Date/Time	Received By:	Date/Time:
[signature]	5/13 12:30	[signature]	5-13-16 3:15
Relinquished By: [signature]	5/13/16 3:50	Received By: [signature]	1555 5/13/16
Relinquished By:		Received By GeoLabs:	

GEOLABS CHAIN OF CUSTODY

83413

ANALYTICAL REPORT

Friday, January 20, 2017

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

Mark Germano
Germano
15 Pinehurst Rd.
Marshfield, MA 02050

TEL: (339) 793-3528
FAX:

Project:	DW CLARK
Location:	692 N. BEDFORD ST, EAST BRIDGEWATER MA

Order No.: 1701050

Dear Mark Germano:

GeoLabs, Inc. received 1 sample(s) on 1/13/2017 for the analyses presented in the following report.

The laboratory results in this report relate only to samples submitted.

All data for associated QC met method or laboratory specifications, except when noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

David Mick
Laboratory Director

For current certifications, please visit our website at www.geolabs.com

Certifications:

CT (PH-0148) - MA (M-MA015) - [redacted] - RI (LA000252)

Date: *20-Jan-17*

CLIENT: Germano
Project: DW CLARK
Lab Order: 1701050

CASE NARRATIVE

Physical Condition of Samples

The project was received by the laboratory in satisfactory condition. The sample(s) were received undamaged, in appropriate containers with the correct preservation.

Project Documentation

The project was accompanied by satisfactory Chain of Custody documentation.

Analysis of Sample(s)

All extractable samples were extracted and analyzed and any Volatile samples were analyzed within method specified holding times and according to GeoLabs documented Standard Operating Procedure. No analytical anomalies or non-conformances were noted by the laboratory during the processing of these samples.

SIGNATURE:  LAB DIRECTOR

PRINTED NAME: David Mick DATE: 01/20/17

ANALYTICAL REPORT

Reported Date: 20-Jan-17

CLIENT:	Germano	**Client Sample ID:**	SFS-COMP-1
Lab Order:	1701050	**Collection Date:**	1/13/2017 10:00:00 AM
Project:	DW CLARK	**Date Received:**	1/13/2017
Lab ID:	1701050-001	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
IGNITABILITY - SW1010						Analyst: **WFR**
Prep Method:		**Prep Date:**				
Flash Point	*93*	20		°C	1	1/17/2017
SEMIVOLATILE ORGANICS - SW8270D						Analyst: **Admir**
Prep Method: (SW3545A)		**Prep Date:** 1/19/2017 10:29:52 AM				
1,1-Biphenyl	ND	10.5		µg/Kg-dry	1	1/19/2017 2:27:00 PM
1,2,4-Trichlorobenzene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
1,2-Dichlorobenzene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
1,2-Dinitrobenzene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
1,3-Dichlorobenzene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
1,3-Dinitrobenzene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
1,4-Dichlorobenzene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
1,4-Dinitrobenzene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
2,3,4,6-Tetrachlorophenol	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
2,4,5-Trichlorophenol	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
2,4,6-Trichlorophenol	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
2,4-Dichlorophenol	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
2,4-Dimethylphenol	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
2,4-Dinitrophenol	ND	526		µg/Kg-dry	1	1/19/2017 2:27:00 PM
2,4-Dinitrotoluene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
2,6-Dinitrotoluene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
2-Chloronaphthalene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
2-Chlorophenol	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
2-Methylnaphthalene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
2-Methylphenol	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
2-Nitroaniline	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
2-Nitrophenol	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
3,3'-Dichlorobenzidine	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
3-Methylphenol/4-Methylphenol	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
3-Nitroaniline	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
4,6-Dinitro-2-Methylphenol	ND	526		µg/Kg-dry	1	1/19/2017 2:27:00 PM
4-Bromophenyl Phenyl Ether	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
4-Chloro-3-Methylphenol	ND	526		µg/Kg-dry	1	1/19/2017 2:27:00 PM
4-Chloroaniline	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
4-Chlorophenyl Phenyl Ether	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside recovery limits

ANALYTICAL REPORT

Reported Date: 20-Jan-17

CLIENT:	Germano	**Client Sample ID:**	SFS-COMP-1
Lab Order:	1701050	**Collection Date:**	1/13/2017 10:00:00 AM
Project:	DW CLARK	**Date Received:**	1/13/2017
Lab ID:	1701050-001	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS - SW8270D						Analyst: **Admir**
Prep Method: (SW3545A)			**Prep Date:**	1/19/2017 10:29:52 AM		
4-Nitroaniline	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
4-Nitrophenol	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Acenaphthene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Acenaphthylene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Acetophenone	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Aniline	ND	526		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Anthracene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Azobenzene	ND	526		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Benz(a)Anthracene	ND	10.5		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Benzo(a)Pyrene	ND	10.5		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Benzo(b)Fluoranthene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Benzo(g,h,i)Perylene	*200*	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Benzo(k)Fluoranthene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Benzyl Alcohol	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Bis(2-Chloroethoxy)Methane	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Bis(2-Chloroethyl)Ether	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Bis(2-Chloroisopropyl)Ether	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Bis(2-Ethylhexyl)Phthalate	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Butyl Benzyl Phthalate	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Carbazole	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Chrysene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Dibenz(a,h)Anthracene	ND	10.5		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Dibenzofuran	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Diethyl Phthalate	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Dimethyl Phthalate	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Di-n-Butyl Phthalate	ND	526		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Di-n-Octyl Phthalate	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Fluoranthene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Fluorene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Hexachlorobenzene	ND	10.5		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Hexachlorobutadiene	ND	10.5		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Hexachloroethane	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Indeno(1,2,3-cd)Pyrene	*188*	10.5		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Isophorone	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Naphthalene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Nitrobenzene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside recovery limits

ANALYTICAL REPORT

Reported Date: 20-Jan-17

CLIENT:	Germano	**Client Sample ID:**	SFS-COMP-1
Lab Order:	1701050	**Collection Date:**	1/13/2017 10:00:00 AM
Project:	DW CLARK	**Date Received:**	1/13/2017
Lab ID:	1701050-001	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS - SW8270D						Analyst: **ZYZ**
Prep Method: (SW3545A)		**Prep Date: 1/19/2017 10:29:52 AM**				
N-Nitrosodimethylamine	ND	526		µg/Kg-dry	1	1/19/2017 2:27:00 PM
N-Nitrosodi-n-Propylamine	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
N-Nitrosodiphenylamine	ND	526		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Pentachlorophenol	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Phenanthrene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Phenol	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Pyrene	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Pyridine	ND	526		µg/Kg-dry	1	1/19/2017 2:27:00 PM
Surr: 2,4,6-Tribromophenol	45.0	30-130		%REC	1	1/19/2017 2:27:00 PM
Surr: 2-Fluorobiphenyl	47.4	30-130		%REC	1	1/19/2017 2:27:00 PM
Surr: 2-Fluorophenol	64.0	30-130		%REC	1	1/19/2017 2:27:00 PM
Surr: Nitrobenzene-d5	37.5	30-130		%REC	1	1/19/2017 2:27:00 PM
Surr: Phenol-d6	46.7	30-130		%REC	1	1/19/2017 2:27:00 PM
Surr: Terphenyl-d14	40.6	30-130		%REC	1	1/19/2017 2:27:00 PM
TIC: 1,3-Benzenediol (Resorcinol)	ND	105		µg/Kg-dry	1	1/19/2017 2:27:00 PM
TIC: buthl ester-Hexadecanoic acid	*1290*	10.5		µg/Kg-dry	1	1/19/2017 2:27:00 PM
TIC: butyl ester-Octadecanoic acid	*1460*	10.5		µg/Kg-dry	1	1/19/2017 2:27:00 PM
TIC: dimethyl ester-Pentanedioic acid	*1900*	10.5		µg/Kg-dry	1	1/19/2017 2:27:00 PM
TIC: Triacetin	*2690*	10.5		µg/Kg-dry	1	1/19/2017 2:27:00 PM
PH - SW9045C						Analyst: **RP**
Prep Method:		**Prep Date:**				
pH	*9.07*	0	H	pH Units	1	1/17/2017 2:00:00 PM
NOTES: taken at 21.7 deg.C						
CYANIDE, REACTIVE - SW7.3.3.2						Analyst: **RP**
Prep Method:		**Prep Date:**				
Reactive Cyanide	ND	0.105		mg/Kg-dry	1	1/19/2017

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	RL	Reporting Limit	S	Spike Recovery outside recovery limits

GeoLabs, Inc.
45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reported Date: 20-Jan-17

CLIENT:	Germano	**Client Sample ID:**	SFS-COMP-1
Lab Order:	1701050	**Collection Date:**	1/13/2017 10:00:00 AM
Project:	DW CLARK	**Date Received:**	1/13/2017
Lab ID:	1701050-001	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SULFIDE, REACTIVE - SW7.3.4.2						Analyst: **RP**
Prep Method:		**Prep Date:**				
Reactive Sulfide	ND	0.263		mg/Kg-dry	1	1/19/2017

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL Below Reporting Limit
	E	Value above quantitation range	H Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	RL	Reporting Limit	S Spike Recovery outside recovery limits

GeoLabs, Inc.
45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

1701050

GeoLabs, Inc.
Environmental Laboratories
45 Johnson Lane
Braintree, MA 02184
Office: 781-848-7844
Fax: 781-848-7811

Turnaround Time
RUSH: 24hrs [ ] STANDARD:
48hrs [ ] 5 Days ____
72hrs [X] Rush
Approved By: ____

SPECIAL INSTRUCTIONS

Sample results needed by 1/20/2017.
*Strictly interested in Resorcinol (1,3-Benzenediol CAS# 108-46-3) for 8270D testing.

Client:	Mark Germano
Address:	15 Pinehurst Road
	Marshfield, MA
Phone:	(781) 837 - 1949
Fax:	
Contact:	Mark Germano
E-mail:	mgermano916@gmail.com

Project Number:	D.W. Clark
Project Location:	692 N Bedford Street
	East Bridgewater, MA
Purchase Order #:	
Collected By:	Lee Koska

ANALYSES REQUESTED

SAMPLE ID	COLLECTION DATE	COLLECTION TIME	SAMPLED BY	SAMPLE LOCATION	CONTAINER TYPE	CONTAINER QUANT	MATRIX	COMP	GRAB	PRES	GEOLABS SAMPLE NUMBER	Resorcinol* (8270D)	Corrosivity (pH)	Ignitability / flash	Reactive cyanide	Reactive sulfide				TEMPERATURE	LAB pH
SFS-COMP-1	1/13/17	10:00	LK	DW CLARK	G	8oz	S	X			1050-001	X	X	X	X	X					

CONTAINER CODES:
A = Amber
B = Bag
G = Glass
P = Plastic
S = Summa Canister
O = Other V = VOA

MATRIX CODES:
GW = Ground Water
WW = Wastewater
DW = Drinking Water
SL = Sludge
S = Soil **A** = Air
O = Oil **OT** = Other

PRESERVATIVE CODES:
1 = HCl **7** = ICE
2 = HNO_3
3 = H_2SO_4
4 = $Na_2S_2O_3$
5 = NaOH
6 = MeOH

Relinquished By:	Date/Time	Received By:	Date/Time:
Lee Koska	1/13/17 10:30		
Relinquished By:		Received By:	
Relinquished By:		Received By GeoLabs: Julie M Lenna	1/13/17 1050

GEOLABS CHAIN OF CUSTODY

84868

ANALYTICAL REPORT

Thursday, June 15, 2017

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

Mark Germano
Germano
15 Pinehurst Rd.
Marshfield, MA 02050

TEL: (339) 793-3528
FAX:

Project: DW CLARK
Location:

Order No.: 1705066

Dear Mark Germano:

GeoLabs, Inc. received 1 sample(s) on 5/22/2017 for the analyses presented in the following report.

This is a preliminary report that contains incomplete data or data that has not been fully validated. Caution should be exercised in the use of any data presented as final reported results may not reflect the values presented.

The laboratory results in this report relate only to samples submitted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

David Kahler, on behalf of
Laboratory Director

For current certifications, please visit our website at www.geolabs.com

Certifications:

MA (M-MA015) - RI (LA000252)

Date: *15-Jun-17*

CLIENT: Germano
Project: DW CLARK
Lab Order: 1705066

CASE NARRATIVE

Physical Condition of Samples

The project was received by the laboratory in satisfactory condition. The sample(s) were received undamaged, in appropriate containers with the correct preservation.

Project Documentation

The project was accompanied by satisfactory Chain of Custody documentation.

Analysis of Sample(s)

All extractable samples were extracted and analyzed and any Volatile samples were analyzed within method specified holding times and according to GeoLabs documented Standard Operating Procedure. No analytical anomalies or non-conformances were noted by the laboratory during the processing of these samples.

SIGNATURE:

PRINTED NAME: David Kahler, on behalf of Lab Director

DATE:

ANALYTICAL REPORT

Reported Date: 15-Jun-17

CLIENT:	Germano	**Client Sample ID:**	FNDRY-DISP-1
Lab Order:	1705066	**Collection Date:**	5/19/2017 10:00:00 AM
Project:	DW CLARK	**Date Received:**	5/22/2017
Lab ID:	1705066-001	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
IGNITABILITY - SW1010						Analyst: **Admir**
	Prep Method:		**Prep Date:**			
Flash Point	>93	20		°C	1	6/3/2017
POLYCHLORINATED BIPHENYLS - SW8082A						Analyst: **DC**
	Prep Method:		**Prep Date:**			
Aroclor 1016	ND	51.5		µg/Kg-dry	1	6/15/2017
Aroclor 1221	ND	51.5		µg/Kg-dry	1	6/15/2017
Aroclor 1232	ND	51.5		µg/Kg-dry	1	6/15/2017
Aroclor 1242	ND	51.5		µg/Kg-dry	1	6/15/2017
Aroclor 1248	ND	51.5		µg/Kg-dry	1	6/15/2017
Aroclor 1254	ND	51.5		µg/Kg-dry	1	6/15/2017
Aroclor 1260	ND	51.5		µg/Kg-dry	1	6/15/2017
TOTAL PETROLEUM HYDROCARBONS - 8100M						Analyst: **DC**
	Prep Method: (8100M)		**Prep Date:** 6/12/2017 3:37:21 PM			
Total Petroleum Hydrocarbons	*88.7*	51.5	H	mg/Kg-dry	1	6/13/2017
TOTAL METALS BY ICP - SW6010C						Analyst: **Admir**
	Prep Method: (SW3050B)		**Prep Date:** 5/5/2017 2:20:32 PM			
Arsenic	ND	4.99		mg/Kg-dry	1	5/26/2017
Barium	ND	4.99		mg/Kg-dry	1	5/26/2017
Cadmium	ND	0.998		mg/Kg-dry	1	5/26/2017
Chromium	*71.5*	4.99		mg/Kg-dry	1	5/26/2017
Lead	ND	4.99		mg/Kg-dry	1	5/26/2017
Selenium	*9.58*	4.99		mg/Kg-dry	1	5/26/2017
Silver	ND	4.99		mg/Kg-dry	1	5/26/2017
MERCURY - SW7471B						Analyst: **EC**
	Prep Method: (SW7471B)		**Prep Date:** 5/26/2017 3:59:38 PM			
Mercury	ND	0.0856		mg/Kg-dry	1	5/26/2017

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside recovery limits

GeoLabs, Inc.
45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reported Date: 15-Jun-17

CLIENT:	Germano	**Client Sample ID:**	FNDRY-DISP-1
Lab Order:	1705066	**Collection Date:**	5/19/2017 10:00:00 AM
Project:	DW CLARK	**Date Received:**	5/22/2017
Lab ID:	1705066-001	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
MERCURY - SW7471B						Analyst: **EC**
Prep Method: (SW7471B)			**Prep Date:**	**5/26/2017 3:59:38 PM**		
SEMIVOLATILE ORGANICS - SW8270D						Analyst: **Admir**
Prep Method: (SW3545A)			**Prep Date:**	**5/22/2017 10:29:14 AM**		
1,1-Biphenyl	ND	10.3		µg/Kg-dry	1	5/30/2017 4:31:00 PM
1,2,4-Trichlorobenzene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
1,2-Dichlorobenzene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
1,2-Dinitrobenzene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
1,3-Dichlorobenzene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
1,3-Dinitrobenzene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
1,4-Dichlorobenzene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
1,4-Dinitrobenzene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
2,3,4,6-Tetrachlorophenol	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
2,4,5-Trichlorophenol	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
2,4,6-Trichlorophenol	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
2,4-Dichlorophenol	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
2,4-Dimethylphenol	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
2,4-Dinitrophenol	ND	515		µg/Kg-dry	1	5/30/2017 4:31:00 PM
2,4-Dinitrotoluene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
2,6-Dinitrotoluene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
2-Chloronaphthalene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
2-Chlorophenol	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
2-Methylnaphthalene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
2-Methylphenol	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
2-Nitroaniline	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
2-Nitrophenol	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
3,3'-Dichlorobenzidine	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
3-Methylphenol/4-Methylphenol	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
3-Nitroaniline	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
4,6-Dinitro-2-Methylphenol	ND	515		µg/Kg-dry	1	5/30/2017 4:31:00 PM
4-Bromophenyl Phenyl Ether	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
4-Chloro-3-Methylphenol	ND	515		µg/Kg-dry	1	5/30/2017 4:31:00 PM
4-Chloroaniline	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
4-Chlorophenyl Phenyl Ether	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
4-Nitroaniline	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside recovery limits

ANALYTICAL REPORT

Reported Date: 15-Jun-17

CLIENT:	Germano	**Client Sample ID:**	FNDRY-DISP-1
Lab Order:	1705066	**Collection Date:**	5/19/2017 10:00:00 AM
Project:	DW CLARK	**Date Received:**	5/22/2017
Lab ID:	1705066-001	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS - SW8270D						Analyst: **Admir**
Prep Method: (SW3545A)				**Prep Date: 5/22/2017 10:29:14 AM**		
4-Nitrophenol	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Acenaphthene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Acenaphthylene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Acetophenone	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Aniline	ND	515		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Anthracene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Azobenzene	ND	515		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Benz(a)Anthracene	ND	10.3		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Benzo(a)Pyrene	ND	10.3		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Benzo(b)Fluoranthene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Benzo(g,h,i)Perylene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Benzo(k)Fluoranthene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Benzyl Alcohol	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Bis(2-Chloroethoxy)Methane	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Bis(2-Chloroethyl)Ether	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Bis(2-Chloroisopropyl)Ether	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Bis(2-Ethylhexyl)Phthalate	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Butyl Benzyl Phthalate	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Carbazole	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Chrysene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Dibenz(a,h)Anthracene	ND	10.3		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Dibenzofuran	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Diethyl Phthalate	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Dimethyl Phthalate	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Di-n-Butyl Phthalate	ND	515		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Di-n-Octyl Phthalate	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Fluoranthene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Fluorene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Hexachlorobenzene	ND	10.3		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Hexachlorobutadiene	ND	10.3		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Hexachloroethane	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Indeno(1,2,3-cd)Pyrene	ND	10.3		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Isophorone	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Naphthalene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Nitrobenzene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
N-Nitrosodimethylamine	ND	515		µg/Kg-dry	1	5/30/2017 4:31:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside recovery limits

ANALYTICAL REPORT

Reported Date: 15-Jun-17

CLIENT:	Germano	**Client Sample ID:**	FNDRY-DISP-1
Lab Order:	1705066	**Collection Date:**	5/19/2017 10:00:00 AM
Project:	DW CLARK	**Date Received:**	5/22/2017
Lab ID:	1705066-001	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS - SW8270D						Analyst: **Admir**
Prep Method: (SW3545A)				**Prep Date: 5/22/2017 10:29:14 AM**		
N-Nitrosodi-n-Propylamine	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
N-Nitrosodiphenylamine	ND	515		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Pentachlorophenol	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Phenanthrene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Phenol	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Pyrene	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
Pyridine	ND	515		µg/Kg-dry	1	5/30/2017 4:31:00 PM
TIC: 1,3-Benzenediol	ND	103		µg/Kg-dry	1	5/30/2017 4:31:00 PM
VOLATILE ORGANIC COMPOUNDS - 8260B						Analyst: **Admir**
Prep Method:				**Prep Date:**		
1,1,1,2-Tetrachloroethane	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
1,1,1-Trichloroethane	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
1,1,2,2-Tetrachloroethane	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
1,1,2-Trichloroethane	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
1,1-Dichloroethane	ND	129	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
1,1-Dichloroethene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
1,1-Dichloropropene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
1,2,3-Trichlorobenzene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
1,2,4-Trichlorobenzene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
1,2,4-Trimethylbenzene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
1,2-Dibromo-3-Chloropropane	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
1,2-Dibromoethane	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
1,2-Dichlorobenzene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
1,2-Dichloroethane	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
1,2-Dichloropropane	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
1,3,5-Trimethylbenzene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
1,3-Dichlorobenzene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
1,3-Dichloropropane	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
1,4-Dichlorobenzene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
1,4-Dioxane	ND	155	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
2,2-Dichloropropane	ND	129	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
2-Butanone	ND	129	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
2-Chloroethyl Vinyl Ether	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside recovery limits

ANALYTICAL REPORT

Reported Date: 15-Jun-17

CLIENT:	Germano	**Client Sample ID:**	FNDRY-DISP-1
Lab Order:	1705066	**Collection Date:**	5/19/2017 10:00:00 AM
Project:	DW CLARK	**Date Received:**	5/22/2017
Lab ID:	1705066-001	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS - 8260B						Analyst: **Admir**
Prep Method:		**Prep Date:**				
2-Chlorotoluene	ND	129	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
2-Hexanone	ND	129	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
2-Methoxy-2-Methylbutane (TAME)	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
4-Chlorotoluene	ND	129	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
4-Isopropyltoluene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
4-Methyl-2-Pentanone	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Acetone	ND	129	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Acrylonitrile	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Benzene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Bromobenzene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Bromochloromethane	ND	129	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Bromodichloromethane	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Bromoform	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Bromomethane	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Carbon Disulfide	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Carbon Tetrachloride	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Chlorobenzene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Chloroethane	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Chloroform	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Chloromethane	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
cis-1,2-Dichloroethene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
cis-1,3-Dichloropropene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Dibromochloromethane	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Dibromomethane	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Dichlorodifluoromethane	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Diethyl Ether	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Diisopropyl Ether	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Ethylbenzene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Ethyl-t-Butyl Ether	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Hexachlorobutadiene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Isopropylbenzene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Methyl Tert-Butyl Ether	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Methylene Chloride	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Naphthalene	*713*	129	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
n-Butylbenzene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
n-Propylbenzene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
RL	Reporting Limit	S	Spike Recovery outside recovery limits

ANALYTICAL REPORT

Reported Date: 15-Jun-17

CLIENT:	Germano	**Client Sample ID:**	FNDRY-DISP-1
Lab Order:	1705066	**Collection Date:**	5/19/2017 10:00:00 AM
Project:	DW CLARK	**Date Received:**	5/22/2017
Lab ID:	1705066-001	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS - 8260B						Analyst: **Admir**
Prep Method:		**Prep Date:**				
sec-Butylbenzene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Styrene	ND	129	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
tert-Butylbenzene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Tetrachloroethene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Tetrahydrofuran	ND	129	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Toluene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
trans-1,2-Dichloroethene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
trans-1,3-Dichloropropene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Trichloroethene	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Trichlorofluoromethane	ND	129	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Vinyl Chloride	ND	51.5	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
Xylenes, Total	ND	129	H	µg/Kg-dry	1	6/5/2017 7:27:00 PM
SPECIFIC CONDUCTANCE - E120.1						Analyst: **Admir**
Prep Method:		**Prep Date:**				
Specific Conductance	*2300*	1.00		µmhos/cm	1	6/1/2017
PH - SW9045C						Analyst: **RP**
Prep Method:		**Prep Date:**				
pH	*9.15*	0	H	pH Units	1	5/26/2017 11:30:00 AM
NOTES: taken at 20.6 deg.C						
CYANIDE, REACTIVE - SW7.3.3.2						Analyst: **RP**
Prep Method:		**Prep Date:**				
Reactive Cyanide	ND	0.103		mg/Kg-dry	1	6/3/2017
SULFIDE, REACTIVE - SW7.3.4.2						Analyst: **RP**
Prep Method:		**Prep Date:**				
Reactive Sulfide	ND	0.258		mg/Kg-dry	1	6/3/2017

Qualifiers:	B Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	RL Reporting Limit	S	Spike Recovery outside recovery limits

CHAIN OF CUSTODY RECORD

GeoLabs, Inc. *Environmental Laboratories*
45 Johnson Lane, Braintree, MA 02184
p 781.848.7844 • f 781.848.7811
www.geolabs.com

1705066 Page 1 of 1

Sample Handling: circle choice
Filtration: Done / (Not Needed) / Lab to do
Preservation: Lab to do Y / (N)

Special Instructions
* TIC ANALYSIS FOR 1,3-BENZENEDIOL.

Turnaround: circle one
1-day 3-day
2-day (5 / 7-days)

Data Delivery: circle choice (s)
Fax (email)
Format: (Excel) (PDF)

GW-1 (MCP Methods)
S-1 DEP
QC Other ____

Requirements: circle choice (s)
CT RCP (Reasonable Confidence Protocols)
State / Fed Program - Criteria ____

Client: MARK GERMANO
Address: 15 PINEHURST ROAD
MARSHFIELD MA
Contact: ____

Phone: (781) 837 1949
Fax: ____
email: MGERMANO916@GMAIL.COM

Project: D.W. CLARK
Project PO: ____
Invoice to *: M. GERMANO

Preservative:

COLLECTION DATE	COLLECTION TIME	SAMPLED BY	SAMPLE LOCATION / ID	CONTAINER TYPE	CONTAINER QUANTITY	MATRIX	COMP	GRAB	GeoLabs SAMPLE NUMBER	Analysis Requested: VOCs (SVOCs)	TPH	RCRA 8 Metals	Reactivity	Conductivity	pH (Corrosivity) Flashpoint	TIC*	TEMPERATURE	LAB pH
5/19/17	1000	LK	FNDRY - DISP - 1	8oz	4	S	X		5066 -001	X	X	X	X	X	X	X X	X	
				6/V														

Matrix Codes:
GW = Ground Water DW = Drinking Water S = Soil A = Air
WW = Waste Water SL = Sludge O = Oil OT = Other

Received on Ice ☐

Preservatives
1 = HCl 3 = H2SO4 5 = NaOH 7 = Other
2 = HNO3 4 = Na2S2O3 6 = MEOH

Containers:
A = Amber B = Bag O = Other
G = Glass P = Plastic
S = Summa V = Voa

Relinquished by: [signature] Date / Time 5.22.17 10:50

Received by: [signature] 5.22.17 Date / Time 1050
[signature] 5/22/17 1050

675.J&P.C of CR.07/09/07

* Terms: Payment due within 30 days unless other arrangements are made. Past due balances subject to interest and collection cost.
Note: Homeowners and Law Firms must pay when dropping off samples. We accept cash, check and credit cards.

CT (PH-0148) NY(11796) MA (MA - 015) PA (68-03417) NH (2508) NJ (MA-009) RI (LA000252)

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July 18, 2017

Mark A. Germano, LSP
Mark A. Germano, LSP
15 Pinehurst Road
Marshfield, MA 02050

Project Location: DW Clark - East Bridgewater
Client Job Number:
Project Number: DW Clark
Laboratory Work Order Number: 17G0323

Enclosed are results of analyses for samples received by the laboratory on July 11, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee
Project Manager

Table of Contents

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Mark A. Germano, LSP
15 Pinehurst Road
Marshfield, MA 02050
ATTN: Mark A. Germano, LSP

REPORT DATE: 7/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: DW Clark

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0323

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: DW Clark - East Bridgewater

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
DISP-7/10-1	17G0323-01	Soil		SM 2540G	
				SW-846 6010C-D	
DISP-7/10-2	17G0323-02	Soil		SM 2540G	
				SW-846 6010C-D	
DISP-7/10-3	17G0323-03	Soil		SM 2540G	
				SW-846 6010C-D	
DISP-7/10-4	17G0323-04	Soil		SM 2540G	
				SW-846 6010C-D	
DISP-7/10-5	17G0323-05	Soil		SM 2540G	
				SW-846 6010C-D	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only a select list of metals were requested and reported except for 17G0323 sample -01 in which only As was requested and reported.

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: DW Clark - East Bridgewater | Sample Description: | Work Order: 17G0323

Date Received: 7/11/2017

Field Sample #: DISP-7/10-1 | Sampled: 7/10/2017 14:00

Sample ID: 17G0323-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.5	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:11	QNW

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Project Location: DW Clark - East Bridgewater | Sample Description: | Work Order: 17G0323

Date Received: 7/11/2017

Field Sample #: DISP-7/10-1 | Sampled: 7/10/2017 14:00

Sample ID: 17G0323-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	98.4		% Wt	1		SM 2540G	7/14/17	7/17/17 8:41	MRL

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Project Location: DW Clark - East Bridgewater | Sample Description: | Work Order: 17G0323

Date Received: 7/11/2017

Field Sample #: DISP-7/10-2 | Sampled: 7/10/2017 14:00

Sample ID: 17G0323-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.5	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:14	QNW
Beryllium	ND	0.25	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:14	QNW
Copper	100	0.50	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:14	QNW
Nickel	7.0	0.50	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:14	QNW
Thallium	ND	2.5	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:14	QNW
Zinc	5.4	1.0	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:14	QNW

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Project Location: DW Clark - East Bridgewater | Sample Description: | Work Order: 17G0323

Date Received: 7/11/2017

Field Sample #: DISP-7/10-2 | Sampled: 7/10/2017 14:00

Sample ID: 17G0323-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	99.7		% Wt	1		SM 2540G	7/14/17	7/17/17 8:41	MRL

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Project Location: DW Clark - East Bridgewater | Sample Description: | Work Order: 17G0323

Date Received: 7/11/2017

Field Sample #: DISP-7/10-3 | Sampled: 7/10/2017 14:00

Sample ID: 17G0323-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.3	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:17	QNW
Beryllium	ND	0.23	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:17	QNW
Copper	2.1	0.46	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:17	QNW
Nickel	5.0	0.46	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:17	QNW
Thallium	ND	2.3	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:17	QNW
Zinc	ND	0.92	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:17	QNW

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Project Location: DW Clark - East Bridgewater | Sample Description: | Work Order: 17G0323

Date Received: 7/11/2017

Field Sample #: DISP-7/10-3 | Sampled: 7/10/2017 14:00

Sample ID: 17G0323-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	99.8		% Wt	1		SM 2540G	7/14/17	7/17/17 8:41	MRL

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Project Location: DW Clark - East Bridgewater | Sample Description: | Work Order: 17G0323

Date Received: 7/11/2017

Field Sample #: DISP-7/10-4 | Sampled: 7/10/2017 14:00

Sample ID: 17G0323-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:22	QNW
Beryllium	ND	0.26	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:22	QNW
Copper	19	0.51	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:22	QNW
Nickel	16	0.51	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:22	QNW
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:22	QNW
Zinc	20	1.0	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:22	QNW

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Project Location: DW Clark - East Bridgewater | Sample Description: | Work Order: 17G0323

Date Received: 7/11/2017

Field Sample #: DISP-7/10-4 | Sampled: 7/10/2017 14:00

Sample ID: 17G0323-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.5		% Wt	1		SM 2540G	7/14/17	7/17/17 8:41	MRL

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Project Location: DW Clark - East Bridgewater | Sample Description: | Work Order: 17G0323

Date Received: 7/11/2017

Field Sample #: DISP-7/10-5 | Sampled: 7/10/2017 14:00

Sample ID: 17G0323-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.4	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:26	QNW
Beryllium	ND	0.24	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:26	QNW
Copper	210	0.48	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:26	QNW
Nickel	130	0.48	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:26	QNW
Thallium	ND	2.4	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:26	QNW
Zinc	24	0.96	mg/Kg dry	1		SW-846 6010C-D	7/14/17	7/17/17 18:26	QNW

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Project Location: DW Clark - East Bridgewater | Sample Description: | Work Order: 17G0323

Date Received: 7/11/2017

Field Sample #: DISP-7/10-5 | Sampled: 7/10/2017 14:00

Sample ID: 17G0323-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	99.9		% Wt	1		SM 2540G	7/14/17	7/17/17 8:41	MRL

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0323-01 [DISP-7/10-1]	B181609	07/14/17
17G0323-02 [DISP-7/10-2]	B181609	07/14/17
17G0323-03 [DISP-7/10-3]	B181609	07/14/17
17G0323-04 [DISP-7/10-4]	B181609	07/14/17
17G0323-05 [DISP-7/10-5]	B181609	07/14/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0323-01 [DISP-7/10-1]	B181616	1.01	50.0	07/14/17
17G0323-02 [DISP-7/10-2]	B181616	1.01	50.0	07/14/17
17G0323-03 [DISP-7/10-3]	B181616	1.09	50.0	07/14/17
17G0323-04 [DISP-7/10-4]	B181616	1.04	50.0	07/14/17
17G0323-05 [DISP-7/10-5]	B181616	1.04	50.0	07/14/17

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B181616 - SW-846 3050B										
Blank (B181616-BLK1)				Prepared: 07/14/17 Analyzed: 07/17/17						
Antimony	ND	2.3	mg/Kg wet							
Arsenic	ND	2.3	mg/Kg wet							
Beryllium	ND	0.23	mg/Kg wet							
Copper	ND	0.46	mg/Kg wet							
Nickel	ND	0.46	mg/Kg wet							
Thallium	ND	2.3	mg/Kg wet							
Zinc	ND	0.92	mg/Kg wet							
LCS (B181616-BS1)				Prepared: 07/14/17 Analyzed: 07/17/17						
Antimony	58.2	5.0	mg/Kg wet	88.2		65.9	0-210.3			
Arsenic	49.1	5.0	mg/Kg wet	57.0		86.1	77.8-122.1			
Beryllium	63.6	0.50	mg/Kg wet	67.5		94.2	82.3-117.7			
Copper	54.9	0.99	mg/Kg wet	56.4		97.3	80.4-119.6			
Nickel	56.6	0.99	mg/Kg wet	61.3		92.4	82.2-117.8			
Thallium	153	5.0	mg/Kg wet	178		85.7	78.2-121.6			
Zinc	184	2.0	mg/Kg wet	198		92.9	79.7-120.8			
LCS Dup (B181616-BSD1)				Prepared: 07/14/17 Analyzed: 07/17/17						
Antimony	55.8	4.8	mg/Kg wet	88.2		63.3	0-210.3	4.16	30	
Arsenic	45.5	4.8	mg/Kg wet	57.0		79.8	77.8-122.1	7.53	30	
Beryllium	57.4	0.48	mg/Kg wet	67.5		85.0	82.3-117.7	10.3	30	
Copper	48.5	0.96	mg/Kg wet	56.4		86.0	80.4-119.6	12.4	30	
Nickel	51.4	0.96	mg/Kg wet	61.3		83.8	82.2-117.8	9.67	30	
Thallium	140	4.8	mg/Kg wet	178		78.4	78.2-121.6	8.86	30	
Zinc	167	1.9	mg/Kg wet	198		84.2	79.7-120.8	9.88	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B181609 - % Solids										
Duplicate (B181609-DUP5)	**Source: 17G0323-01**			Prepared: 07/14/17 Analyzed: 07/17/17						
% Solids	98.0		% Wt		98.4			0.407	20	
Duplicate (B181609-DUP6)	**Source: 17G0323-02**			Prepared: 07/14/17 Analyzed: 07/17/17						
% Solids	99.5		% Wt		99.7			0.201	20	

con-test® ANALYTICAL LABORATORY

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

CHAIN OF CUSTODY RECORD

17G0323

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

Company Name: MARK A. GERMANO, LSP
Telephone: (781) 837 1949
Address: 15 PINEHURST RD. MARSHFIELD, MA
Project # DW CLARK
Client PO#
Attention: KERRY MCGEE
Project Location: DW CLARK FOUNDRY, E-
Sampled By: L. KOSKA BRIDGEWATER MA

DATA DELIVERY (check all that apply)
O FAX X EMAIL O WEBSITE
Fax # LEE.KOSKA@GMAIL
Email: MGERMANO9160@GMAIL
Format: X PDF X EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code	ARSENIC	ANTIMONY	BERYLLIUM	COPPER	NICKEL	THALLIUM	ZINC
								1	I	G		4					
								I				I					
								G				G					
1	DISP - 7/10 - 1	7/10/17	1400	X		S	U				X						
2	DISP - 7/10 - 2	"	"	"		"	"					X	X	X	X	X	X
3	DISP - 7/10 - 3	"	"	"		"	"					X	X	X	X	X	X
4	DISP - 7/10 - 4	"	"	"		"	"					X	X	X	X	X	X
5	DISP - 7/10 - 5	"	"	"		"	"					X	X	X	X	X	X

ANALYSIS REQUESTED

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/11/17
Received by: (signature)	Date/Time: 7-11-17 13:18
Relinquished by: (signature)	Date/Time: 7-11-17 15:30
Received by: (signature)	Date/Time: 7/11/17 1536

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: METHOD 1 S1 CRITERIA
Connecticut:
Other:

Is your project MCP or RCP ?
☒ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene
NELAC & AIHA Certified
WBE/DBE Certified

†TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Table of Contents

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Mark A Germano

Received By JM Date 7/11/17 Time 1536

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 2.2
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T

Are there Lab to Filters? N/A Who was notified? _____
Are there Rushes? N/A Who was notified? _____
Are there Short Holds? N/A Who was notified? _____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? Y/A Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass	5	Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 17G0323
Project Location: DW Clark - East Bridgewater	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

17G0323-01 thru 17G0323-05

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

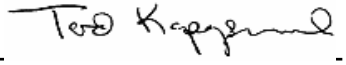
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  Position: Laboratory Director

Printed Name: Tod E. Kopyscinski Date: 07/18/17

New England Testing Laboratory , Inc.
(401) 353-3420

REPORT OF ANALYTICAL RESULTS

NETLAB Work Order Number : 8B07007
Client Project: DW Clark Foundry

Report Date: 13-February-2018

Prepared for:

Mark A Germano
Mark A. Germano, LSP
15 Pinehurst Rd
Marshfield, MA 02050

Richard Warila, Laboratory Director
New England Testing Laboratory, Inc.
59 Greenhill Street
West Warwick, RI 02893
rich.warila@newenglandtesting.com

Project: DW Clark Foundry

Case Number: 8B07007

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
8B07007-01	Disp-SUPP-1	Soil	02/05/2018	02/07/2018
8B07007-02	Disp-SUPP-2	Soil	02/05/2018	02/07/2018
8B07007-03	Disp-SUPP-3	Soil	02/05/2018	02/07/2018
8B07007-04	Disp-SUPP-4	Soil	02/05/2018	02/07/2018
8B07007-05	Disp-SUPP-5	Soil	02/05/2018	02/07/2018
8B07007-06	Disp-SUPP-6	Soil	02/05/2018	02/07/2018
8B07007-07	Disp-SUPP-7	Soil	02/05/2018	02/07/2018
8B07007-08	Disp-SUPP-8	Soil	02/05/2018	02/07/2018

Project: DW Clark Foundry
Case Number: 8B07007

Request for Analysis

Disp-SUPP-1

Analysis	Method
% Solids	Gravimetric
Arsenic	EPA 6010C
Barium	EPA 6010C
Selenium	EPA 6010C
Silver	EPA 6010C

Disp-SUPP-2

Analysis	Method
% Solids	Gravimetric
Arsenic	EPA 6010C
Barium	EPA 6010C
Selenium	EPA 6010C
Silver	EPA 6010C

Disp-SUPP-3

Analysis	Method
% Solids	Gravimetric
Arsenic	EPA 6010C

Disp-SUPP-4

Analysis	Method
% Solids	Gravimetric
Arsenic	EPA 6010C

Disp-SUPP-5

Analysis	Method
% Solids	Gravimetric
Arsenic	EPA 6010C

Disp-SUPP-6

Analysis	Method
% Solids	Gravimetric
Arsenic	EPA 6010C

Project: DW Clark Foundry

Case Number: 8B07007

Disp-SUPP-7

Analysis	Method
% Solids	Gravimetric
Arsenic	EPA 6010C

Disp-SUPP-8

Analysis	Method
% Solids	Gravimetric
Arsenic	EPA 6010C

Project: DW Clark Foundry

Case Number: 8B07007

Case Narrative

Sample Receipt

The samples were all appropriately cooled and preserved upon receipt. The samples were received in the appropriate containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Metals

All analyses were performed according to NETLAB s documented Standard Operating Procedures, within all required holding times, and with appropriate quality control measures. All QC was within laboratory established acceptance criteria. The samples were received, processed, and reported with no anomalies.

Project: DW Clark Foundry

Case Number: 8B07007

Sample: Disp-SUPP-1

8B07007-01 ()

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Total Metals						
Arsenic	**1.12**		0.70	mg/kg	02/08/18	02/09/18
Barium	**3.30**		0.35	mg/kg	02/08/18	02/09/18
Selenium	ND		0.70	mg/kg	02/08/18	02/09/18
Silver	ND		0.35	mg/kg	02/08/18	02/12/18

Project: DW Clark Foundry

Case Number: 8B07007

Sample: Disp-SUPP-2
8B07007-02 ()

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Total Metals						
Arsenic	**1.15**		0.69	mg/kg	02/08/18	02/09/18
Barium	**3.72**		0.34	mg/kg	02/08/18	02/09/18
Selenium	ND		0.69	mg/kg	02/08/18	02/09/18
Silver	ND		0.34	mg/kg	02/08/18	02/12/18

Project: DW Clark Foundry

Case Number: 8B07007

Sample: Disp-SUPP-3
8B07007-03 ()

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Total Metals						
Arsenic	**0.82**		0.69	mg/kg	02/08/18	02/09/18

Project: DW Clark Foundry

Case Number: 8B07007

Sample: Disp-SUPP-4
8B07007-04 ()

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Total Metals						
Arsenic	ND		0.69	mg/kg	02/08/18	02/09/18

Project: DW Clark Foundry

Case Number: 8B07007

Sample: Disp-SUPP-5
8B07007-05 ()

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Total Metals						
Arsenic	**0.92**		0.69	mg/kg	02/08/18	02/09/18

Project: DW Clark Foundry

Case Number: 8B07007

Sample: Disp-SUPP-6
8B07007-06 ()

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Total Metals						
Arsenic	ND		0.69	mg/kg	02/08/18	02/09/18

Project: DW Clark Foundry

Case Number: 8B07007

Sample: Disp-SUPP-7
8B07007-07 ()

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Total Metals						
Arsenic	**1.42**		0.69	mg/kg	02/08/18	02/09/18

Project: DW Clark Foundry

Case Number: 8B07007

Sample: Disp-SUPP-8

8B07007-08 ()

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Total Metals						
Arsenic	**1.19**		0.70	mg/kg	02/08/18	02/09/18

Project: DW Clark Foundry

Case Number: 8B07007

Quality Control

Total Metals

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B8B0254 - Metals Digestion Soils										
Blank (B8B0254-BLK1)					Prepared: 02/08/18 Analyzed: 02/09/18					
Selenium	ND		0.66	mg/kg						
Barium	ND		0.33	mg/kg						
Arsenic	ND		0.66	mg/kg						
Silver	ND		0.33	mg/kg						
LCS (B8B0254-BS1)					Prepared: 02/08/18 Analyzed: 02/09/18					
Selenium	13.7		0.66	mg/kg	13.3		103	85-115		
Barium	67.4		0.33	mg/kg	66.7		101	85-115		
Arsenic	14.5		0.66	mg/kg	13.3		108	85-115		
Silver	24.5		0.33	mg/kg	26.7		91.8	85-115		

Project: DW Clark Foundry

Case Number: 8B07007

Notes and Definitions

Item	Definition
Wet	Sample results reported on a wet weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.