RANDE THEFT

December 17, 1996

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Mr. Timothy Regan Senior Sanitary Engineer Division of Site Remediation Rhode Island DEM 291 Promenade Street Providence, RI 02908-5767

RE: Results of Subsurface Site Investigation Lincoln Lace and Braid Co. - Providence, RI DEM Technical Assistance Contract. Job No. 96454A1

Dear Mr. Regan:

The following is a summary of site investigations completed by Fuss & O'Neill, Inc. at the Lincoln Lace and Braid Site on behalf of the Rhode Island Department of Environmental Management, Division of Site Remediation (RIDEM). The site investigation was conducted as a Subsurface Site Assessment in support of the RIDEM/EPA Brownfields Initiative. The scope of investigation activities was developed based on a thorough site walkover inspection conducted on September 12, 1996, file reviews, aerial photograph inspections, and our experience with performing similar investigations. The work completed in this investigation was outlined in Fuss & O'Neill's October 2, 1996 proposed work scope for the referenced site.

The objective of Fuss & O'Neill's (F&O) investigation at this site was to rapidly and cost effectively evaluate the subsurface condition of soil, soil gas and groundwater across the 6 acre site with respect to potential contamination and to identify areas containing contamination and/or environmental hazards.

Based on Site inspections and review of file information, numerous areas on the parcel were identified which warranted investigation. These included the buried rail car fuel oil UST and underground piping network, the on-site landfill/dump, the boiler room where oil was used, loading docks where chemicals may have been spilled, outside doors which may have provided access to convenient disposal areas, an internal building drain system, and various piles of debris throughout the parcel. Contaminants which were suspected in the subsurface included petroleum hydrocarbons, solvents, septage, metals, semi-volatile organic compounds (semi-VOCs), and polychlorinated byphenols (PCBs). Also of concern was the heavily iron stained raceway channel which is typically associated





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with natural biodegradation of hydrocarbons or other organic substrates in the subsurface.

Based on these identified areas of concern, a number of areas across the site were selected for subsurface investigation. Due to the presence of extensive piles of debris, demolition material, and concrete foundations, a backhoe was used to excavate test pits. The investigation activities consisted of site reconnaissance, file review, a ground penetrating radar (GPR) survey of selected areas, metal detector scans, excavation of 21 test pits, soil sample collection at depths of 2 and 8 feet, collection of 13 groundwater samples (from test pits extended into groundwater), collection of 7 surficial soil samples, collection of 10 soil gas samples, and collection of 4 surface water samples.

Samples were analyzed on-site with Fuss & O'Neill's mobile laboratory for total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs) and semi-VOCs. Selected samples were also analyzed for RCRA 13 metals, drinking water scans (total coliform bacteria, nitrates, phosphates, TDS), and PCBs by DEM's fixed base contract laboratory. Contract laboratory data is included in <u>Appendix A</u>.

Investigation Results

Ground Penetrating Radar

The GPR survey was completed on October 16, 1996 in the vicinity of the former boiler room. The GPR survey area was extended to include the buried railcar fuel oil tank and the associated piping. The GPR work confirmed the location and orientation of the buried railcar fuel oil tank and the piping (labeled as "UST" on Figure 1) as well as the footprint of the boiler room. Confirming the locations of these features aided in locating test pits to investigate reported releases of oil in the boiler room areas. Additionally, a MetroTech pipe locating device was used which accurately located several pipes which extended from the boiler room to outfalls in the river. A copy of the GPR data output for transects completed over the buried railcar fuel oil tank are included in <u>Appendix B</u>.

Test Pit Excavations

A total of 21 test pits were excavated across the site to a maximum depth of 12 feet below grade on October 24 and 25, 1996. The location of all test pits are shown in Figure 1. A description of all sampling points including sampling depths, sampling dates, field observations, and field screening is presented in Table 1. Field logs of all test pits are included in Appendix C.

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Excavation of test pits within the footprint of the original buildings indicated that the foundation and concrete slabs remain in place and that demolition debris and rubble was used as fill. The debris in these locations consists mostly as concrete, brick, charred wood and metal piping. Excavations in the on-site dump indicate it was filled with miscellaneous rubbish, glass metal wood, cloth and tires to a depth exceeding 12 feet. At test pit TP-4 in the dump, numerous automotive battery casings were observed.

Visual evidence of oil contamination was observed at 3 locations. The first area was at test pit TP-6 where a strong petroleum odor was noted. Material excavated from this area consisted of a graded pea stone material which appeared to be constructed as a leaching pit. The second area was at test pit TP-11 which was advanced inside a concrete walled structure. The structure was filled with bricks and debris and appeared to be a dry well. Strong petroleum odor was also noted at this test pit. The third location where petroleum was observed was in the foundation for the former boiler room. Free phase floating product was observed at test pits 18, 19, 20, and 21.

Soil Gas Sampling and Analysis Results

A total of 10 shallow soil gas samples were collected from various locations throughout the site and analyzed by F&O's mobile lab for VOCs (EPA Method 8010/8020). Mobile lab soil gas sample analysis results are presented in <u>Table 2</u>. VOCs were not detected in any of the soil gas samples.

Test Pit Soil Sampling and Analysis Results

A total of 39 soil samples were collected from 21 test pits at depths between 2 and 8 feet below grade. The soil samples were analyzed by F&O's mobile lab for TPH (Petro Flag screening) and VOCs (EPA Method 8010/8020 by heated headspace). Soil samples were also analyzed by RIDEM's fixed based contract laboratory for PCBs and RCRA 13 metals; confirmatory analyses were also conducted for TPH.

Mobile lab soil sample analysis results are presented in <u>Table 2</u>. Analysis results for TPH ranged from less than 1.0 mg/kg (the minimum detection limit) to greater than 4,000 mg/kg (the upper concentration limit). The highest TPH concentrations were detected in the vicinity of the boiler room. Elevated TPH concentrations were also detected in test pits located along the lower reaches of the raceway, in the site dump areas, and near the northwest corner of the existing building. Mobile lab analysis for VOCs detected concentrations of trichloroethene (TCE), tetrachloroethene (PCE), ethylbenzene, and xylene. Analysis results for total VOCs ranged from less than 10.0 ug/kg (the minimum



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detection limit) to 215 ug/kg. The highest concentrations of ethylbenzene and xylene were detected in the northwest corner of the existing building (TP-6 and TP-7). Detectable concentrations of chlorinated VOCs were also found in the vicinity of the buried rail car UST.

Selected soil samples containing elevated concentrations of TPH were subsequently analyzed for semi-VOCs. Analysis results for semi-VOCs ranged from 0.14 mg/kg to 1.3 mg/kg.

Soil sample analysis results from RIDEM's contract lab are included in <u>Appendix A</u>. Laboratory analysis results for TPH ranged from non-detect to 19,000 mg/kg. The correlation between fixed base lab and mobile lab TPH data is generally good.

No detectable concentrations for PCBs were observed in the fixed based laboratory data.

Fixed base laboratory analysis of soils for metals indicate that test pit TP-3 and -15 (both located in the on-site dump) contain elevated concentrations of copper, lead and zinc.

Groundwater Sampling and Analysis Results

A total of 10 groundwater samples were collected from test pits where groundwater was encountered. Groundwater samples were analyzed by F&O's mobile lab for TPH (Method 418.1) and VOCs (EPA Method 8010/8020 heated headspace). Groundwater samples were also analyzed by RIDEM's fixed based contract laboratory for mass concentration of the RCRA 13 metals.

Mobile lab groundwater sample analysis results are presented in <u>Table 2</u>. Analysis results for TPH range from less than 1.0 mg/l (the minimum detection limit) to greater than 1,000 mg/l (the upper concentration limit). The highest TPH concentrations were detected in the vicinity of the UST and boiler room. Mobile lab analysis for VOCs detected concentrations of trichloroethene (TCE), ethylbenzene, and xylene. Analysis results for total VOCs ranged from less than 5.0 ug/l (the minimum detection limit) to 42 ug/l. The highest concentrations of ethylbenzene and xylene were detected in the vicinity of the buried rail car UST. Detectable concentrations of chlorinated VOCs in groundwater were only found at TP-9.

Groundwater sample analysis results from RIDEM's contract lab are included in Appendix A. Fixed base laboratory analysis of groundwater for metals indicate that



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groundwater samples did not contain concentrations of metals in excess of background concentrations..

Surficial Soil Sampling and Analysis Results

A total of 7 surficial soil samples were collected, mostly from debris piles at a depth of 0.5 feet below grade. The soil samples were analyzed by F&O's mobile lab for TPH (Petro Flag screening) and VOCs (EPA Method 8010/8020 by heated headspace). Surficial soil samples were also analyzed by RIDEM's fixed based contract laboratory for mass concentrations of the RCRA 13 metals.

Mobile lab surficial soil sample analysis results are also presented in <u>Table 2</u>. Analysis results for TPH ranged from 412 mg/kg to greater than 4,000 mg/kg (the upper concentration limit). The highest TPH concentrations were detected near the side door entrance to western side of the existing building. VOCs were not detected in any of the surface soil samples.

Soil sample analysis results from RIDEM's contract lab are included in <u>Appendix A</u>. Fixed base laboratory analysis of soils for metals indicate that all four surficial soil samples tested contain elevated concentrations of copper, lead and zinc. Three surficial soil samples contained lead levels which exceed the direct exposure criteria for industrial/commercial areas. Several samples also contained levels of chromium which appeared to be above background concentrations but were not above direct exposure criteria.

Surface Water Sampling Results

A total of 4 surface water samples were collected from the raceway. Surface water samples were analyzed by F&O's mobile lab for TPH (Method 418.1) and VOCs (EPA Method 8010/8020). Surface water samples were also analyzed by RIDEM's fixed based contract laboratory for total coliform bacteria, nitrates, total phosphates and total dissolved solids in order to determine whether the green algae growth observed in the open raceway was due to sewerage effluent.

Surface water sample mobile lab analysis results are presented in <u>Table 2</u>. Analysis results for TPH were all less than 1.0 mg/l (the minimum detection limit). Mobile lab analysis for VOCs detected low concentrations of cis 1,2 dichloroethene (cis DCE) and TCE.



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Surface water sample analysis results from RIDEM's contract lab are included in <u>Appendix A</u>. Fixed base laboratory analysis of surface water indicate elevated concentrations of coliform bacteria, but levels of nitrates, total phosphates and total dissolved solids did not exceed drinking water standards.

Conclusions

- Significant TPH contamination of soils was encountered at three areas of the site: in the vicinity of the former boiler room, near the northwest corner of the existing building, and near the abandoned dry well behind the south east corner of the existing building. Free phase No. 4 or 6 fuel oil was observed floating on the water table near the former boiler room.
- The elevated TPH levels noted behind the south east corner of the existing building appears to be the carbon substrate that is being metabolized by naturally occurring bacteria. This biological activity is utilizing available dissolved oxygen and, in turn, causing reducing conditions in nearby groundwater. Presumably, this process is causing the heavy iron staining in the lower reaches of the raceway.
- Low concentrations of chlorinated VOCs have been detected in soil in the vicinity of the former boiler room although not in excess of remediation standards. All other areas containing VOCs in soil or groundwater are associated with fuel oil and are at relatively low concentrations.
- No evidence of PCBs was detected in the limited samples collected.
- Concentrations of cooper, lead, and zinc were detected in soils in the on-site dump and in the piles of debris located along the lowest reaches of the raceway. Low concentrations of chromium were also detected in a few soil samples.
- A number of materials observed in the on-site dump are likely to contain hazardous constituents. Automotive batteries in the dump may be responsible for elevated levels of lead in the nearby soils.

Recommendations

Several areas were found on the site which contained hydrocarbon contamination. These areas should be remediated to a level consistent with the state remediation regulations.



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The level of cleanup required, however, should be consistent with the intended use of the property.

Of the various areas requiring cleanup, the free phase fuel oil in the vicinity of the boiler room should be the highest priority. This area was determined to be responsible for a release of oil to the Woonasquatucket River in 1994.

This report completes our scope of work on this project. If you have any further questions concerning this project or the Technical Assistance Contract in general, please do not hesitate to contact the undersigned.

Sincerely,

Paris 2. Hayebank

David J. Hazebrouck P.G. Associate

John Hawken

John B. Hankins, IEP, CPG Assistant Director Hydrogeologic Studies

Enclosures

TABLE 2

Results of Mobile Laboratory Analysis Lincoln Lace & Braid Providence, RI cis-1,2-

Contractor	Dest	10.00	Barrist			cis-1,2-	m	m		
Sample Location	Depth (ft.)	Media Type	Sample Date	TPH (1)	Total Semi-volatiles (2)	Dichloro- ethene (3)	Trichloro- ethene (3)	Tetrachloro- ethene (3)	Ethyl benzene (3)	Xylenes (3
SW-01	0.00	WATER	10/25/96	< 1		< 5	8	< 5	< 5	< 5
SW-02	0.00	WATER	10/25/96	<1		6	< 5	< 5	< 5	< 5
SW-03	0.00	WATER	10/25/96	<1		< 5	< 5 < 5	< 5	< 5	< 5
SW-04	0.00	WATER	10/25/96	< 1		* 5	< 5	< 5	< 5	< 5
TP-05	2.00	WATER	10/24/96	< 1		< 5	< 5	< 5	< 5	< 5
TP-06	3.00	WATER	10/24/96	1000		< 5	< 5	< 5	16	26
TP-09 TP-10	4.00 3.00	WATER WATER	10/24/96 10/24/96	< 1 < 1		< 5	7 < 5	< 5 < 5	< 5 < 5	< 5 < 5
TP-11	2.00	WATER	10/24/96	<1		< 5	< 5	< 5	< 5	< 5
TP-17	4.50	WATER	10/25/96	1000		< 5	< 5	< 5	< 5	< 5
TP-18	3.50	WATER	10/25/96	1000		< 5	< 5	< 5	< 5	24
TP-19	4.00	WATER	10/25/96	1000		< 5	< 5	< 5	< 5	21
TP-20	3.50	WATER	10/25/96	1000		< 5	< 5	< 5	< 5	28
TP-21	4.00	WATER	10/25/96	1000		< 5	< 5	< 5	< 5	8
SG-01	2.75	SOIL GAS	10/24/96			<1	<1	<1	<1	<1
SG-02	0.75	SOIL GAS	10/24/96			< 1	< 1	< 1	< 1	< 1
SG-03	1.25	SOIL GAS	10/24/96			< 1	<1	< 1	<1	< 1
SG-04	1.25	SOIL GAS	10/24/96			< 1	< 1	< 1	<1	< 1
SG-05	1.25	SOIL GAS	10/24/96			< 1	< 1	< 1	<1	< 1
SG-06	2.25	SOIL GAS	10/24/96			< 1	<1	< 1	< 1	< 1
SG-07	1,25	SOIL GAS	10/24/96			< 1	<1	< 1	<1	<1
SG-08	2.75	SOIL GAS	10/24/96			~ 1	<1	< 1	< 1	<1
SG-09	2.75	SOIL GAS	10/24/96			<1	< 1	<1	< 1	< 1
SG-10	1.25	SOIL GAS	10/24/96			< 1	<1	< 1	< 1	< 1
SS-01	0.50	SOIL	10/25/96	4000	< 0.5	< 10	< 10	< 10	< 10	< 10
SS-02	0.50	SOIL	10/25/96	1086	< 0.5	< 10	< 10	< 10	< 10	< 10
SS-03	0.05	SOIL	10/25/96	413	< 0.5	< 10	< 10	< 10	< 10	< 10
SS-04	0.50	SOIL	10/25/96	271	< 0.5	< 10	< 10	< 10	< 10	< 10
SS-05	0.50	SOIL	10/25/96	412	< 0.5	~ 10	< 10	< 10	< 10	< 10
SS-06	0.50	SOIL	10/25/96	836	< 0.5	< 10	< 10	< 10	< 10	< 10
SS-07	0.50	SOIL	10/25/96	630	< 0.5	- 10	< 10	< 10	< 10	< 10
TP-01	2.00	SOIL	10/24/96	1198		< 10 < 10	- 10	< 10	< 10	< 10
TP-01 TP-02	8.00 2.00	SOIL	10/24/96 10/24/96	2794		< 10	< 10 < 10	< 10 < 10	< 10 < 10	< 10
TP-02 TP-02	8.00	SOIL	10/24/96	1168 637		< 10	< 10	< 10	< 10	< 10 < 10
TP-03	2.00	SOIL	10/24/96	1413		< 10	< 10	< 10	< 10	< 10
TP-03	8.00	SOIL	10/24/96	1242		< 10	< 10	< 10	< 10	< 10
TP-04	2.00	SOIL	10/24/96	1796		< 10	< 10	< 10	< 10	< 10
TP-04	8.00	SOIL	10/24/96	914		< 10	< 10	< 10	< 10	< 10
TP-05	2.00	SOIL	10/24/96	49		< 10	< 10	< 10	< 10	< 10
TP-06	2.00	SOIL	10/24/96	1804		< 10	< 10	< 10	45	71
TP-06	4.00	SOIL	10/24/96	4000	0.14	< 10	< 10	S 10	44	101
TP-07	2.00	SOL	10/24/96	557		< 10	< 10	< 10	73	142
TP-08	2.00	SOL	10/24/96	35		< 10	< 10	< 10	< 10	< 10
TP-08	8.00	SOIL	10/24/96	85		< 10	< 10	< 10	< 10	< 10
TP-09	2.00	SOIL	10/24/96	< 1		< 10	< 10	< 10	< 10	< 10
TP-09	8.00	SOIL	10/24/96	≤1		< 10	< 10	< 10	< 10	< 10
FP-10	2.00	SOIL	10/24/96	64		< 10	< 10	< 10	< 10	< 10
TP-10	4.00	SOIL	10/24/96	66		< 10	< 10	< 10	< 10	< 10
TP-11	4.00	SOIL	10/24/96 10/24/96	2906	1.3	< 10 < 10	< 10 < 10	< 10	< 10	< 10
TP-12 TP-12	2.00	SOIL	10/24/96	< 1 3696		< 10	< 10	< 10 < 10	< 10 < 10	< 10 < 10
TP-12 TP-13	2.00	SOIL	10/24/96	223		~ 10	< 10	< 10	< 10	< 10
TP-13	8.00	SOIL	10/25/96	1802		< 10 < 10	< 10	< 10	< 10	< 10
TP-14	2.00	SOIL	10/25/96	207		< 10	< 10	< 10	< 10	< 10
TP-14	8.00	SOIL	10/25/96	158		< 10	< 10	< 10	< 10	< 10
TP-15	2.00	SOIL	10/25/96	379		< 10	< 10	< 10	< 10	< 10
IP-15	8.00	SOIL	10/25/96	780		< 10	< 10	< 10	< 10	< 10
ГР-16	2.00	SOIL	10/25/96	119		≤ 10	< 10	< 10	< 10	16
IP-16	5.00	SOIL	10/25/96	< 1		⊳ 10	< 10	< 10	< 10	< 10
TP-17	2.00	SOIL	10/25/96	916		< 10	< 10	< 10	< 10	< 10
TP-17	5.00	SOIL	10/25/96	< 1		< 10	< 10	< 10	< 10	< 10
IP-18	2.00	SOIL	10/25/96	4000	12	< 10	< 10	< 10	< 10	< 10
TP-18	4.00	SOIL	10/25/96	4000		< 10	13	34	< 10	51
TP-19	2.00	SOIL	10/25/96	584		< 10	< 10	< 10	< 10	< 10
TP-19	4.00 2.00	SOIL	10/25/96	378		< 10	< 10	< 10	< 10	< 10
	- FMA	SOIL	10/25/96	540		- 10	< 10	< 10	< 10	< 10
TP-20		COL	10/05/07	4000						
TP-20 TP-20 TP-21	4.00	SOIL	10/25/96 10/25/96	4000 4000		< 10 < 10	< 10 < 10	< 10 < 10	< 10 < 10	76 < 10

TPH units are mg/kg for soil (petro flag) and mg/l for water (418.1).
 The units for total Semi-Volatiles are ug/kg for soil (Modified Method 8100).
 The units for VOCs (8010/8020) are ug/kg for soil and ug/l for water.

TABLE 1

Sampling Location Summary Lincoln Lace and Braid Providence, RI

Sample Location	Depth (fl.)	Media Type	Sample Date	Media Description/Observations	pH	Specific Conductance (1)	Temperature (2)	Dissolved Oxygen (3)
SW-01	0.00	WATER	10/25/96		8.25	560	15.5	6.7
SW-02	0.00	WATER	10/25/96		7.89	630	15.0	4.2
SW-03	0.00	WATER	10/25/96		6.81	408	14.3	4.5
SW-04	0.00	WATER.	10/25/96		6,50	480	14.5	5.0
-								
TP-05 TP-06	2.00	WATER	10/24/96		7,44	620	14.4	2.3
	3.00	WATER	10/24/96		6.71	321	14.4	2.0
TP-08 TP-09	4.00	WATER	10/24/96		6.62	640	12.1	2.8
TP-10	4.00	WATER	10/24/96		7.33	710	14.5	6.4
TP-10	2.00	WATER	10/24/96		6.84 7.27	800 790	13.3 13.0	2.9
TP-13	8.00	WATER	10/25/96		7.84	860	12.8	2.2
TP-14	8.00	WATER	10/25/96		7.59	630	15.2	4.6
TP-17	4.50	WATER	10/25/96		7.05	710	17.4	2.9
TP-18	3.50	WATER	10/25/96		6.83	810	15.7	2.8
TP-19	4.00	WATER	10/25/96		7.14	990	16.0	2.8
TP-20	3.50	WATER	10/25/96		7.05	1240	15.5	4.1
TP-21	4.00	WATER	10/25/96		6.84	1580	16.5	2.8
SG-01	2.75	SOIL GAS	10/24/96					
SG-02	0.75	SOIL GAS	10/24/96					
SG-02	1.25	SOIL GAS	10/24/96					
SG-03	1.25	SOIL GAS	10/24/96					
SG-05	1.25	SOIL GAS	10/24/96					
SG-06	2.25	SOIL GAS	10/24/96					
SG-07	1.25	SOIL GAS	10/24/96					
SG-08	2.75	SOIL GAS	10/24/96					
SG-09	2.75	SOIL GAS	10/24/96					
SG-10	1.25	SOIL GAS	10/24/96					
SS-01	0.50	SOIL	10/25/96					
SS-02	0.50	SOIL	10/25/96					
SS-03	0.05	SOIL	10/25/96					
SS-04	0.50	SOIL	10/25/96					
SS-05	0.50	SOIL	10/25/96					
SS-06 SS-07	0.50	SOIL	10/25/96 10/25/96					
55-07	0.50	SOIL	10/25/90					
TP-01	2.00	SOIL	10/24/96	SAND; ash; construction debris; black				
TP-01	8.00	SOIL.	10/24/96	SILT; some sand; some ashes; trace metal debris; construction debris; co				
TP-02	2.00	SOIL	10/24/96	Silt, sand and garbage (plastic, glass, metal, shoes and cans); dusky yell	owish brow	wn.		
TP-02	8.00	SOIL	10/24/96	SAND; silt; some garbage; dusky yellowish brown.				
TP-03	2.00	SOIL	10/24/96	Silt and sand; garbage; dusky yellowish brown.				
TP-03	8.00	SOIL	10/24/96	Silt and sand; garbage; dusky yellowish brown.				
TP-04	2.00	SOIL	10/24/96	SAND, F-C; some silt; dusky yellowish brown.		and the second		
TP-04	8.00	SOIL	10/24/96	SAND, F-M; little silt; battery casing, some glass and plastic material; of	dusky yello	owish brown		
TP-05	2.00	SOIL	10/24/96	SAND, F-M; little silt; moderate yellowish brown.				
TP-06	2.00	SOIL	10/24/96	Sand and silt; black. Oil stain and petroleum odor.				
TP-06 TP-07	4.00	SOIL	10/24/96 10/24/96	Silt and sand; black. Petroleum stained and odor. SAND, F-M; some silt; black.				
TP-08	2.00	SOIL	10/24/96	SAND, F and silt; dark yellowish orange.				
TP-08	8.00	SOIL	10/24/96	SAND, F-C; some silt; dark yellowish orange.				
TP-08	2.00	SOIL	10/24/96	Sand, F-M and silt; some construction debris; wood/metal; moderate br	own			
TP-09	8.00	SOIL.	10/24/96	Sand and silt; moderate yellowish brown.	OWIL.			
TP-10	2.00	SOIL	10/24/96	Sand and silt; medium gray.				
TP-10	4.00	SOIL	10/24/96	SAND, F-M, pale yellowish brown, wet.				
TP-11	4.00	SOIL	10/24/96	SILT; trace organics; black. Petroleum odor.				
TP-12	2.00	SOL	10/24/96	SAND, F-C; some silt; moderate yellowish brown				
TP-12	6.00	SOIL	10/24/96	SAND, F-C, dusky yellowish brown.				
TP-13	2.00	SOIL	10/25/96	SAND; silt; ash; black. Some oil staining (?).				
TP-13	8.00	SOIL	10/25/96	SAND, F-M; some silt; dusky yellowish brown				
TP-14	2.00	SOIL	10/25/96	Silt and grass; medium gray.				
TP-14	8.00	SOIL	10/25/96	SAND, F-C; some silt; moderate yellowish brown.				
TP-15	2.00	SOIL	10/25/96	SAND, F-C; some silt; trace garbage; dusky yellowish brown.				
TP-15	8.00	SOIL	10/25/96	SAND, F-M; some silt; trace garbage; dusky yellowish brown.				
TP-16	2,00	SOIL	10/25/96	Sand, F and silt; light brown. (Fill).				
TP-16	5.00	SOIL	10/25/96	SAND, F-C, moderate yellowish brown				
TP-17	2.00	SOL	10/25/96	SILT; organics; trace sand and roots; black.				
	5.00	SOIL	10/25/96	SAND, F; trace silt; light gray.				
TP-17	2.00	SOIL.	10/25/96	Silt and F sand; dusky yellowish brown.				
TP-18		SOIL	10/25/96	SAND, F-C; little silt; black. Oil saturated.				
TP-18 TP-18	4.00		10/25/96	SAND, F-M, light olive gray,				
TP-18 TP-18 TP-19	4.00 2.00	SOIL						
TP-18 TP-18 TP-19 TP-19	4,00 2,00 4,00	SOIL	10/25/96	SAND, F-C; oil; moderate yellowish brown to black. Oil stained.				
TP-18 TP-18 TP-19 TP-19 TP-20	4.00 2.00 4.00 2.00	SOIL	10/25/96 10/25/96	SAND, F-C; oil; moderate yellowish brown to black. Oil stained. SAND, F-M, black.				
TP-18 TP-18 TP-19 TP-19 TP-20 TP-20	4,00 2,00 4,00 2,00 4,00	SOIL SOIL SOIL	10/25/96 10/25/96 10/25/96	SAND, F-C; oil; moderate yellowish brown to black. Oil stained. SAND, F-M, black. SAND, F-C; some silt; oil; moderate brown and light gray.				
TP-18 TP-18 TP-19 TP-19 TP-20	4.00 2.00 4.00 2.00	SOIL	10/25/96 10/25/96	SAND, F-C; oil; moderate yellowish brown to black. Oil stained. SAND, F-M, black.				

Specific Conductance units in mhos.
 Temperature units in degrees centigrade.
 Dissolved Oxygen units in milligrams per liter (mg/L).

APPENDIX A

96454\A1\DJH1202A.WPD Contract



175 Metro Center Boulevard
 Warwick, Rhode Island 02886-1755 (401) 732-3409
 Fax (431) 732-3499

1232 East Broadway Road, Stite 210 @ Tempe, Arizona 85282 (602 303-9535 @ Fax (602) 921-2883 CHAIN-OF-CUSTODY RECORD

Page of

10.00

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NAME TIM R						-		-3812	NAME							1	FAX				
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TP6-2	10	24	+	1		X				N	1										
TPS-8		124	1			X				V	1			1				-			_
TP7-2		21	T			X					V	1		1							
TP4-2		21	T			X				1	1			-				-			
TP3-8	61	127	T			X				_	1	V			-			-	-		
TPID	10	21		$\mathbb{C}_{\mathbb{C}}$	X					-	-	1-		+		-		-	-		
TPA	61	24			X						-	V		+	-			-	-		
TPII		:24			X		1.5		+	-	1	V		+		-		+-	-		
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WHITE: LABORATCRY CCPY

PINK: CLIENT'S COPY



175 Metro Center Boulevard Warwick, Rhode Island 02886-1755 (401) 732-3400 Fax (401) 732-3499

CHAIN-OF-CUSTODY RECORD

Page ____ of ____

1232 East Broadway Road, Suite 210 • Tempe, Arizona 85282 (6C2 302-9525 • Fax (602) 921-2883

N	REPOR	TTO	LT E	2017	- A		- 11- 22.	12.200	11-2	1	3.	*	INV	OKE	TO	1						T +D D	TREATER
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NAME Garry L	111 de	_			FAX			NAME									FAX						
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CITY'ST'Z PON	idence K		L C				CLIENT P.O.S.	ICIT IG	.:2.)r						-				_			1	
Lincola Lac SAMPLE	DATETIME	COMPOSITIE	GRAB	WATER	SOIL	OTHER	LABID	# OF CONTAINERS		6	the start	X	5/	100 to	LEQUE	STED		/	1	1	1	0	VMENTS
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55-02	1020 1047		X		X				X	1.1								_				· · ·	
55-04	1100		X		X				X						11		1	_					
55-07	1107		X		X				X									1					
TP15-8	1. 1900		X	1	X				X						1					1			
TP17-5	1000		X	1	X	1				X						1.1							
TP18-4	1030		X		X					X	1	_						_		1			
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WHITE: LABORATORY COPY

PINK: CLIENT'S COPY



Wet Chemistry Analysis

Client: RI DFM Concentration in: MPN per 100ml Matrix: Aqueous

Analysis Date: 10/25/96

Lob ID	Client ID		Total Coliform
C1203-17	SW-01		300
C1203-18	SW-02		220
C1203-19	SW-03	-	110

Analysis Method:

9221B



Client: RI DEM Client ID: SW-01			N	latrix: Aqueous	
Lab ID: C1203-17	Results	Reporting <u>Limil</u>	<u>Units</u>	Analysis <u>Method</u>	Analysis <u>Date</u>
Nitrate Phosphate - total Total Dissolved Solids	3.7 0.41 430	0.05 0.06 10	mg/L mg/L mg/l.	SM 4500-NO3 E SM 4500-P B3 & E SM 2540-C	10/26/96 11/7/96 10/26/96

ND = Not detected

Page 1 of 1

WE1CHEM-C1203-17



Matrix: Aqueous Client: RI DEM Client ID: SW-02 Lab ID: C1203-18 Reporting Analysis Analysis Method Date Analyte Results Limit Units 2.7 0.05 mg/L SM 4500-NO3 E 10/26/96 Nitrate SM 4500-P B3 & E 0.06 11/7/96 mg/L Phosphate - total 0.39 mg/L SM 2540-C 10/26/96 10 **Total Dissolved Solids** ND

ND = Not detected

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WETCHEM-C1203-18



Matrix: Aqueous Client: RI DEM Client ID: SW-03 Leb ID: C1203-19 Analysis Reporting Analysis Method Date Units Results Limit Analyte 0.05 SM 4500-NO3 E 10/26/96 mg/L 1.4 Nitrate 11/7/96 0.06 mg/L SM 4500-P B3 & E 0.36 Phosphate - total SM 2540 C 10/26/96 mg/L 390 10 Total Dissolved Solids

ND = Not detected

Page 1 of 1

WETCHEM-C1203-19

×.



Matrix: Aqueous

Client: RI DEM Client ID: Lab ID: Method Blank

		Reporting		Analysis	Analysis
Analyte	Results	Limit	Units	Method	Date
Nilrate	ND	0.05	mg/L	SM 4500-NO3 E	10/26/96
Phosphate - total	ND	0.06	mg/L	SM 4500-P B3 & E	11/7/96
Total Dissolved Solids	ND	10	mg/L	SM 2540-C	10/25/96

ND = Not detected

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WETCHEM-C1203-MB



Client: RI DEM	Matrix: Aqueous
Client ID:	
Leb ID: Lob Control Sample	
Analyte	% Recovery
Nitrate	105
Phosphate - total	108
I otal Dissolved Solids	102

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WETCHEM-C1203-LCS



Analysis Report: Total Petroleum Hydrocarbons

Client: RI DEM Analysis: Method 418.1 Matrix: Soil Concentration in: mg/kg, dry weight basis

				Reporting	
Lab ID	Client ID	Result	% Solid	Limit	Analysis Date
C1203-01	TP6-2	1,200	73	410	10/28/06
C1203-02	TP8-8	ND	86	35	10/28/96
C1203-04	TP4-2	2,300	88	350	10/28/96

ND	30	10/28/96
87		10/28/96

ND = Not Detected



Analysis Report: Total Petroleum Hydrocarbons

Client: RI DEM Analysis: Method 418.1 Matrix: Soil Concentration in: mg/kg, dry weight basis

				Reporting	
Lab ID	Client ID	Result	% Solid	Limit	Analysis Date
C1203-15	TP17-5	ND	77	4D	11/7/96
C1203-16	TP18-4	19,000	80	5,800	11/7/96

QA/QC			
Method Blank			
11029-B1	ND	30	11/7/96
Lab Control Spike (% Recove	ry)		
11029-LCS1	117		11/7/96

ND = Not Detected



Analysis Report: Volatile Organic Compounds

Client: RI DEM Client ID: Lab ID: Method Blank, V1B10 Analysis: Method 8260	026A	Analysis Date: 10/28/96 Matrix: Aqueous Concontration in: ug/L Dilution: 1	
Analyte	Results	Reporting Limits	
Anothe			
Dichlorodifiuoromethane	ND	5	
Chloromethane	ND	5	
Vinyl chloride	ND	5	
Bromomethane	ND	5	
Chloroethane	ND	5	
Trichlorofluoromethane	ND	5	
1.1-Dichloroethene	ND	5	
Carbon disulfide	ND	5	
Iodomethane	ND	5	
Acetone	ND	5	
Methylene chloride	ND	5	
trans-1,2-Dichloroethene	ND	5	
1.1-Dichloroethane	ND	5	
Vinyl acetate	ND	5	
2,2-Dichloropropane	ND	5	
cis-1,2-Dichloroethene	ND	5	
Methyl ethyl ketone	ND	5	
Bromochloromethana	ND	5	
Chloroform	ND	5	
1,1,1-Trichloroethane	ND	5	
Carbon tetrachloride	ND	5	
1,1-Dichloropropene	ND	5	
Benzene	ND	5	
1,2-Dichloroethane	ND	5	
Trichlorocthene	ND	5	
1,2-Dichloropropane	ND	5	
Dibromomethane	ND	5	
Bromodichloromethane	ND	5	
2-Chloroethyl vinyl ether	ND	5	
cis-1,3-Dichloropropene	ND	5	
4-Methyl-2-pentanone	ND	5	
Toluene	ND	5	



Client ID:

11

Lab ID: Method Blank, V1B1028A

		and sold	198
	all shares and	Reporting	
Analyte	Results	Limits	
trans-1,3-Dichloropropene	ND	5	
1,1,2-Trichloroethane	ND	5	
Tetrachloroethene	ND	5	
1,3-Dichloropropane	ND	5	
2-Hexanone	ND	5	
Dibromochloromethane	ND	5	
	ND	5	
1,2-Dibromoethane (EDB)	ND	5	
Chlorobenzene	ND	5	
1,1,1,2-Tetrachloroethane			
Ethylbenzene	ND	5	
Xylenes, total	ND	5	
Styrene	ND	5	
Bromoform	ND	5	
Isopropylbenzene	ND	5 5 5	
Bromobenzene	ND	5	
1,1,2,2-Tetrachloroethane	ND	5	
1,2,3 Trichloropropane	ND	5 5	
n-Propylbenzene	ND	5	
2-Chlorotoluene	ND	5	
4-Chloratoluene	ND	5	
1,3,5-Trimethylbenzene	ND	5	
tert-Butylbenzene	ND	5	
1,2,4-Trimethylbenzene	ND	5	
sec-Butylbenzene	ND	5	
1,3-Dichlorobenzene	ND	5	
4-Isopropy/toluene	ND	5	
1,4-Dichlorobenzene	ND	5	
1,2-Dichlorobenzene	ND	5	
n-Butylbenzene	ND	5	
	ND	5	
1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene	ND	5	
a state of the second state of some second states and	ND	5	
Hexachlorobutadiene			
1,2,3-Trichlorobenzene	ND	5	
MTBE	ND	5	
		QC B	atch: V1B1028A
Surrogate Recovery:			
1,2-Dichloroethane-d4	08%		
Toluene-d8	100%		
Bromofluorobenzene	96%		

ND = Not detected



Analysis Report: Volatile Organic Compounds

Client: RI DEM	Analysis Date: 10/28/96
Client ID: Trip Blank	Matrix: Aqueous
Lab ID: C1203-09	Concentration in: ug/L
Analysis: Method 8260	Dilution: 1
	Reporting

		Reporting
Analyte	Results	Limits
Dichlorodifluoromethane	ND	5
Chloromethane	ND	5
Vinyl chloride	ND	5
Bromomothane	ND	5
Chloroethane	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
Carbon disulfide	ND	5
lodomethane	ND	5
Acetone	ND	5
Methylene chloride	33	5
trans-1,2-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
Vinyl acetate	ND	5
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	ND	5
Methyl ethyl ketone	ND	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
1,1-Dichloropropene	ND	5
Benzene	ND	6
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
2-Chloroethyl vinyl ether	ND	5
cis-1,3-Dichloropropene	ND	5
4-Methyl-2-pentanone	ND	5
Toluene	ND	5



Client ID: Trip Blank

Lab ID: C1203-09

Analyta	Results	Reporting Limits
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,3-Dichloropropane	ND	5
2-Hexanone	ND	5
Dibromochloromethane	ND	5
1,2-Dibromoethane (EDB)	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethylbenzene	ND	5
Xylenes, total	ND	
Styrene	ND	5
Bromoform	ND	5
Isopropyibenzene	ND	5 5
Bromobonzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	ND	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	ND	5
1,3-Dichlorobenzene	ND	5
4-isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	5
Hexachlorobutadiene	ND	5
1,2,3-Trichlorobenzene	ND	5
MTBE	ND	5
		QC Batch: V1B1028A
Surrogate Recovery:		
1,2-Dichloroethane-04	91%	
Toluene-d8	100%	
Bromofluorobenzene	98%	

ND = Not detected



Analysis Report: Polychlorinated Biphenyls (PCB)

Client: RI DEM	Analysis Date: 11/02/96
Client ID.	Matrix: Soil
Lab ID: Method Blank, P1025-B1 Analysis: Method 8080	Concentration in: ug/kg Dilution: 1
	Reporting

Analyte	Results	Limits	
Aroclor-1016	ND	33	
Aroclor-1221	ND	66	
Aroclor-1232	ND	33	
Aroclor-1242	ND	33	
Aroclor-1245	ND	33	
Aroclor-1254	ND	33	
Aroclor-1260	ND	33	

Surrogate Recovery:	
2,4,5,6-Tetrachloro-m-xylene	90%
Decachlorobiphenyl	83%

ND=Not Detected

.

QC Batch: P1025-B1



Analysis Report: Polychlorinated Biphenyls (PCB)

Client: RI DEM		Analysis Date: 11/02/96
Client ID: TP7-2		Matrix: Soil, 76% solids
Lab ID: C1203-03		Concentration in: ug/kg, dry weight basis
Analysis: Method 8080		Dilution: 1
		Reporting
Analyte	Results	Limits
Aroclor-1016	ND	43
- Aroclor-1221	ND	87
Aroclor-1232	ND	43
Aroclor-1242	ND	43
Arocior-1248	ND	43
Aroclor-1254	ND	43
Aroclor-1260	ND	43
1.000		
Surronate Recovery		

Surrogate Recovery:		
2,4,5,6-Tetrachloro-m-xylene	96%	
Decachiorobiphenyl	93%	

ND=Not Detected

QC Balch, P1025-B1



Analysis Report: Polychlorinated Biphenyls (PCBs)

Lab Control Summary

Client: RI DEM Lab ID for Blank Spike: P1025-LCS1 Analysis: Method 8080 Matrix: Soil Analysis Date for Blank Spike: 11/2/96

Analyte

Aroclor 1260

QC Batch: P1025-B1

% Recovery

89



Client: RI DEM Client ID: SS-01 Lab ID: C1203-10 Analysis Method: 7471A (Mercury) 6010A (Others)

Matrix: Soil, 86% Solids Concentration in: mg/kg, dry weight basis Analysis Date: 11/4-11/6/96

	Reporting		
Analyte	Results	Limit	
Antimony	ND	5	
Arsenic	10	1	
Beryllium	0.5	0.1	
Cadmium	0.5	0.1	
Chromium	7	1	
Copper	120	0.5	
Lead	300	0.5	
Mercury	ND	0.1	
Nickel	8.0	0.5	
Selenium	3	2	
Silver	ND	2	
Thallium	ND	1	
Zinc	260	1	1

ND = Not detected

5.1

QC Batch: 1026PBS



Client: RI DEM Client ID: SS-02 Lab ID: C1203-11 Analysis Method: 7471A (Mercury) 6010A (Others)

Matrix: Soil, 73% Solids Concentration in: mg/kg, dry weight basis Analysis Date: 11/4-11/6/96

		Reporting
Analyte	Resulte	Limit
Antimony	ND	5
Arsenic	6	1
Beryllium	0.3	0.1
Cadmium	ND	0.1
Chromlum	18	1
Copper	52	0.5
Lead	540	0.5
Mercury	1.5	0.1
Nickel	12	0.5
Selenium	3	2
Silver	ND	2
Thallium	ND	1
Zinc	690	1

ND = Not detected

QC Batch: 1026PBS



Client: RI DEM Client ID: SS-04 Lab ID: C1203-12 Analysis Method: 7471A (Mercury) 6010A (Others)

Matrix: Soil, 95% Solids Concentration in: mg/kg, dry weight basis Analysis Date: 11/4-11/6/96

		Reporting
Analyte	Results	Limit
Antimony	ND	5
Arsenic	7	1
Beryllium	0.3	0.1
Cedmium	5.3	0.1
Chromium	14	1
Copper	93	0.5
Lead	630	0.5
Mercury	0.6	0.1
Nickol	21	0.5
Selenium	ND	2
Silver	ND	2
Thallium	ND	1
Zinc	1,300	1

ND = Not detected

QC Batch: 1026PBS

Page 1 of 1



Client: RI DEM Client ID: SS-07 Lab ID: C1203-13 Analysis Method: 7471A (Mercury) 6010A (Others)

Matrix: Soil, 83% Solids Concentration In: mg/kg. dry weight basis Analysis Date: 11/4-11/6/96

		Reporting
Analyto	Results	Limit
Antimony	6	5
Arsenic	12	1
Beryllium	0.3	0.1
Cadmium	8.4	0.1
Chromium	45	1
Copper	1,200	0.5
Lead	840	0.5
Mercury	29	0.1
Nickel	70	0.5
Selenium	3	2
Silver	12	2
Thallium	ND	1
Zinc	1,000	1

ND = Not detected

QC Batch: 1026PBS



Client: RI DEM Client ID: TP3-8 Lab ID: C1203-05 Analysis Method: 7471A (Mercury) 6010A (Others)

Matrix: Soil, 83% Solids Concentration in: mg/kg, dry weight basis Analysis Date: 11/4-11/6/96

		Reporting
Analyte	Results	Limit
Antimony	ND	5
Arsenic	14	1
Beryllium	0.3	0.1
Cadmium	1.4	0.1
Chromium	24	1
Copper	320	0.5
Lead	980	0.5
Mercury	0.6	0.1
Nickel	29	0.5
Selenium	2	2
Silver	2	2
Thallium	ND	1
Zinc	610	1

ND = Not detected

QC Batch: 1025PBS



Client: RI DEM Client ID: TP15-8 Lab ID: C1203-14 Analysis Method: 7471A (Mercury) 6010A (Others)

Matrix: Soil, 80% Solids Concentration in: mg/kg. dry weight basis Analysis Date: 11/4-11/6/96

		Reporting
Analyta	Results	Limit
Antimony	ND	5
Arsenic	7	1
Beryllium	0.5	0.1
Cadmium	1.7	0.1
Chromium	150	1
Copper	830	0.5
Lead	580	0.5
Mercury	0.3	0.1
Nickel	81	0.5
Selenium	3	2
Silver	12	2
Thallium	ND	1
Zinc	650	1

ND = Not detected

QC Batch: 1105PBS



Client: RI DEM Client ID: Lab ID: Prep Blank, 1105PBS Analysis Method: 7471A (Mercury) 6010A (Others)

Matrix: Soll Concentration in: mg/kg Analysis Date: 11/4-11/6/96

		Reporting
Analyte	Rosults	Limit
Antimony	NU	5
Arsenic	ND	1
Beryllium	ND	0.1
Cadmium	ND	0.1
Chromium	ND	1
Copper	ND	0.5
Lead	0.8	0.5
Mercury	ND	0.1
Nickol	ND	0.5
Selenium	ND	2
Silver	ND	2
Thallium	ND	1
Zinc	2	1

ND = Not detected

QC Batch: 1105PBS

Page 1 of 1



Client: RI DEM Client ID: Leb ID: Prep Blank, 1026PBS Analysis Method: 7471A (Mercury) 6010A (Others)

Metrix: Soll Concentration in: mg/kg Analysis Date: 11/4-11/6/96

		Reporting
Analyte	Results	Limit
Antimony	ND	5
Arsenic	ND	1
Beryilium	ND	0.1
Cadmium	ND	0.1
Chromium	ND	1
Copper	ND	0.5
Lead	0.7	0.5
Mercury	ND	0.1
Nickel	ND	0.5
Selenium	ND	2
Silver	ND	2
Thaillum	ND	1
Zinc	1	1

ND = Not detected

QC Batch: 1026PBS

Page 1 of 1



Client: RI DEM Client ID: Lab ID: Prep Blank, 1025PBS Analysis Method: 7471A (Mercury) 6010A (Others)

Matrix: Soil Concentration in: mg/kg Analysis Date: 11/4-11/6/96

		Reporting	
Analyte	Results	Limit	
Antimony	ND	5	
Arsenic	ND	1	
Beryllium	ND	0.1	
Cadmium	ND	0.1	
Chromium	ND	1	
Copper	ND	0.5	
Lead	0.7	0.5	
Mercury	ND	0.1	
Nickel	ND	0.5	
Selenium	ND	2	
Silver	ND	2	
Thallium	ND	1	
Zinc	2	1	-

ND = Not detected

QC Batch: 1025PBS



Client: RI DEM Client ID: Lab ID: Leb Control Sample, 1105LSS Analysis Method: 7471A (Mercury) 6010A (Others)

Matrix: Soil Analysis Date: 11/4-11/6/96

Analyte	% Recovery	
Antimony	66	
Arsenic	90	
Beryilium	88	
Cadmium	79	
Chromium	81	
Copper	80	
Lead	80	
Mercury	104	
Nickol	89	
Selenium	83	
Silver	86	
Thallium	90	
Zinc	90	

QC Batch: 1105PBS

PPMET-C1203-LCSS



Client: RI DEM Client ID: Lab ID: Lab Control Samplo, 1026LCSS Analysis Method: 7471A (Mercury) 6010A (Others)

Matrix: Soil Analysis Date: 11/4-11/6/96

Analyte	% Recovery
Antimony	80
Arsenic	98
Beryllium	97
Cadmium	100
Chromium	93
Copper	97
Lead	88
Mercury	148
Nickel	96
Selenium	97
Silver	115
Thallium	101
Zinc	91

QC Batch: 1026PBS

PPMET-C1203-LCSS



Client: RI DEM Client ID: Lab ID: Lab Control Sample, 1025LCSS Analysis Method: 7471A (Mercury) 6010A (Others)

Matrix: Soil Analysis Date: 11/4-11/6/96

Analyte	% Recovery
Antimony	103
Arsenic	100
Beryllium	97
Cadmium	100
Chromium	94
Copper	96
Lead	88
Mercury	142
Nickel	96
Selenium	99
Silver	115
Thallium	103
Zinc	95

QC Batch: 1025PBS

Page 1 of 1

PPMET-C1203-LCSS



Client: RI DEM Client ID: TP10 Lab ID: C1203-06 Analysis Method: 7470A (Marcury) 6010A (Others)

Matrix: Aqueous Concentration in: mg/L Analysis Date: 11/4-11/6/95

		Reporting	
Analyte	Results	Limit	
Antimony	ND	0.05	-
Arsenic	0.04	0.01	
Beryllium	0.002	0.001	
Cadmium	ND	0.001	
Chromium	0.02	0.01	
Copper	0.14	0.005	
Lead	0.31	0.005	
Mercury	ND	0.0005	
Nickel	0.02	0.005	
Selenium	ND	0.02	
Silver	ND	0.01	
Thallium	ND	0.01	
Zinc	0.15	0.02	

ND = Not detected

QC Batch: 1025PBW



Client: RI DEM Client ID: TP9 Lab ID: C1203-07 Analysis Method. 7470A (Mercury) 6010A (Others)

Matrix: Aqueous Concentration in: mg/L Analysis Date: 11/4-11/6/98

		Reporting
Analyte	Results	Limit
Antimony	ND	0.05
Arsenic	0.01	0.01
Beryllium	0.06	0.001
Cadmium	0.16	0.001
Chromium	0.71	0.01
Copper	1.7	0.005
Lead	3.9	0.005
Mercury	0.01	0.0005
Nickel	0.65	0.005
Selenium	0.05	0.02
Silver	ND	0.01
Thallium	ND	0.01
Zinc	4.1	0.02

ND = Not detected

QC Batch: 1025PBW



Client: RI DEM Client ID: TP11 Lab ID: C1203-08 Analysis Method: 7470A (Mercury) 6010A (Others)

Matrix: Aqueous Concentration in: mg/L Analysis Date: 11/4-11/6/96

		Reporting
Analyte	Results	Limit
Antimony	ND	0.05
Arsenic	0.06	0.01
Beryllium	ND	0.001
Cadmium	0.01	0.001
Chromium	0.09	0.01
Copper	0.86	0.005
Lead	2.9	0.005
	0.003	0.0005
Mercury	0.05	0.005
Nickel	ND	0.02
Selenium		
Silver	0.02	0.01
Thallium	ND	0.01
Zinc	5.7	0.02

ND = Not detected

QC Betch: 1025PBW

TMET-C1203-08



Client RI DEM Client ID: TP20 Lab ID: C1203-20 Analysis Method: 7470A (Mercury) 6010A (Others)

Matrix: Aqueous Concentration in: mg/L Analysis Date: 11/4-11/6/96

		Reporting
Analyte	Results	Limit
Antimony	ND	0.05
Arsenic	0.21	0.01
Beryllium	0.006	0.001
Cadmium	ND	0.001
Chromium	0.07	0.01
Copper	0.22	0.005
Lead	0.60	0.005
Mercury	0.0006	0.0005
Nickel	0.06	0.005
Selenium	0.06	0.02
Silver	ND	0.01
Thallium	ND	0.01
Zinc	1.5	0.02

ND = Not detected

QC Batch: 1026PBW

TMET-C1203-20



Client: RI DEM	
Client ID:	Matrix: Aqueous
Lab ID: Lab Control Sample, 1026LCSW	Concentration in: mg/L
Analysis Method: 7470A (Mercury)	Analysis Date: 11/4-11/6/96
6010A (Others)	

Analyte	<u>Results</u>
Antimony	114
Arsenic	116
Beryllium	112
Cadmium	123
Chromium	117
Copper	111
Lead	118
Mercury	105
Nickel	115
Selenium	112
Silver	113
Thallium	111
Zinc	121
LING	

QC Batch: 1026PBW

Page 1 of 1

TMET-C1203-LCSW



Client: RI DEM Client ID: Lab ID: Lab Control Sample, 1025LCSW Analysis Method: 7470A (Mercury) 6010A (Others)

Matrix: Aqueous Concentration in: mg/L Analysis Date: 11/4-11/6/96

Analyte	Results
Antimony	107
Arsenic	108
Beryllium	104
Cadmium	113
Chromium	107
Copper	103
Lead	110
Mercury	107
Nickel	107
Selenium	106
Silver	107
Thallium	104
Zinc	116

QC Batch: 1025FBW

Page 1 of 1

TMET-C1203-LCSW



Client: RI DEM Client ID: Lab ID: Prep Blank, 1026PBW Analysis Method: 7470A (Mercury) 6010A (Others)

Matrix: Aqueous Concentration in: mg/L Analysis Date: 11/4-11/6/96

		Reporting	
Analyte	Results	Limit	
Antimony	ND	0.05	
Arsenic	ND	0.01	
Beryllium	ND	0.001	
Cadmium	ND	0.001	
Chromium	ND	0.01	
Copper	0.01	0.005	
Lead	0.02	0.005	
Mercury	ND	0.0005	
Nickel	ND	0.005	
Selenium	ND	0.02	
Silver	ND	0.01	
Thallum	ND	0.01	
Zinc	0.03	0.02	

ND = Not detected

QC Batch: 1026PBW

TMET-C1203-PB



Client: RI DEM Client ID: Leb ID: Prep Blank, 1025PBW Analysis Method: 7470A (Miercury) 6010A (Others)

Matrix: Aqueous Concentration in: mg/L Analysis Date: 11/4-11/6/96

Banadise

		Reporting
Analyte	Results	Limit
Antimony	ND	0.05
Arsenic	ND	0.01
Beryllium	ND	0.001
Cadmium	ND	0.001
Chromium	ND	0.01
Copper	0.008	0.005
Lead	ND	0.005
Mercury	ND	0.0005
Nickel	ND	0.005
Selenium	ND	0.02
Silver	ND	0.01
Thallium	ND	0.01
Zinc	ND	0.02

ND = Not detected

QC Batch: 1025PBW

TMET-C1203-PB

Last Page of Data Report

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APPENDIX B

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- can Braid & Lace EFR transect along centerline of UST (railcar)

APPENDIX C

	Test Dit E/	I Fie	ld Servi
Sample Location Info			
			+
Sample Data	Container	Quantity	Preservat
Date: 10.24.96 Time: 0950 Sampler: Twb Weather:	205	C	
Sampling Device: Auger / Core Sampler / Shoyel / Split Spoon			
Field decon: Yes (No) Dedicated			
Type of Sample: Grab) Composite /			4
Other			
Description Data	1		
Organic Vapor Reading: Instru	ment:		
Sample Depth: <u><u>S</u>¹ Core I</u>	Length:		
Ŭ.			
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland,	B Horizon, Outwash	I. Etc.)	
Sill, some sand, some ast Construction d	es < Tr. me	tal cu.	5
Munsell Color: Day Rgrey NZ Grain	Size: <u>silt-1</u>	n. Sanci	
Sample Description Foreign Material: <u>Concrete</u> Stab at	this location	te	01
		an or	766)
Appearance:			
Comments:			
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Client/Project Name: C.T. DEM Project	Data # <i>#96-4511</i> -	AI	
Project Location: Lincoln Lace Site, Precione Sa			vironmen
Sample #: $\nabla P \mathcal{E} = Z$ 7	est Dit 2	Fie	ld Servic
the state many state of the second state of th		<u></u>	
Sample Location Info			
0.500			
1- Gorbage - glass, metal, wood			
S. EOB			
Ø U U			
Sample Data	Container	Quantity	Preservati
Date: 10:21.90 Time: 1010	202	L	1
Sampler: Weather:			
Sampling Device: Auger / Core Sampler / Shovel / Split Spoon			
Trowel / Other 1. Lockher			
Field decon: Yes / No / Dedicated			
Type of Sample; Grab) Composite /			
Other			
Description Data			
Organic Vapor Reading: Instrum	nent:		
Sample Depth: Core Li	ength:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, E	B Horizon, Outwash	1. Etc.)	11
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Silfand Sand and Gosha Munsell Color: <u>DUSky Yellcu</u> ich Brown Grain S Sample Description Foreign Material: <u>Garbage</u>			
Silfand Sand and Gosha Munsell Color: <u>DUSky Yellca</u> rsh Brown Grain S Sample Description Foreign Material: <u>Garbage</u> Appearance:			
Siltand Sand and Gosha Munsell Color: <u>Dusky Yellewish</u> Brown Grains Sample Description Foreign Material: <u>Garbage</u> Appearance:			
Silfand Sand and Gosha Munsell Color: <u>DUSky Yellca</u> rsh Brown Grain S Sample Description Foreign Material: <u>Garbage</u> Appearance:			
Siltand Sand and Gosha Munsell Color: <u>Dusky Yellewish</u> Brown Grains Sample Description Foreign Material: <u>Garbage</u> Appearance:			
Siltand Sand and Gasha Munsell Color: <u>Dusky Yellca</u> ish Brown Grains Sample Description Foreign Material: <u>Garbaga</u> Appearance: Comments: Fimshar 1030			
Siltand Sand and Gasha Munsell Color: <u>Dusky Yellca</u> ish Brown Grains Sample Description Foreign Material: <u>Garbaga</u> Appearance: Comments: Fimshar 1030	Size:		
Siltand Sand and Gasha Munsell Color: <u>Dusky Yellca</u> ish Brown Grains Sample Description Foreign Material: <u>Garbaga</u> Appearance: Comments: Fimshar 1030	Size:		
Sutand Sand and Gasha Munsell Color: <u>Dusky Yellca</u> ish Brown Grains Sample Description Foreign Material: <u>Garbage</u> Appearance: Comments: Fimshar 1030	Size:		
Siltand Sand and Gasha Munsell Color: <u>Dusky Yellca</u> ish Brown Grains Sample Description Foreign Material: <u>Garbaga</u> Appearance: Comments: Fimshar 1030	Size:		07/14/93

Project Location: Lincoln Lace. sit, Procidence. Sam Sample #: 702-8			vironment Id Servic
Second States and Se	STVITC		U Servic
Sample Location Info			
	r		
Sample Data	Container	Quantity	Preservati
Date: 10-24 96 Time: 1024	202	t	-
Sampler: Weather:			
Sampling Device: Auger / Core Sampler / Shovel / Split Spoon			
Trowel / Other Backhee			
Field decon: Yes / No / Dedicated			-
Type of Sample: Grap / Composite /			
Sther			
		S	1
Description Data			
	S. 1		
Organic Vapor Reading: Instrume	ent:		
Sample Depth: Core Ler	ngth:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B		sandan	1 citt
Garboge glass plastic for Sard, Sild, son gorbage	14 - Some	SUPERCHE	f start
Sala, Silo Sere goldage			
	ze:		
Munseil Color: DOSky Yelbouch Brown Grain Siz			
Sample Description Foreign Material: <u>Carbage</u>			
Sample Description Foreign Material: <u>Garbage</u> Appearance:			
Sample Description Foreign Material: <u>Carbage</u>			
Sample Description Foreign Material: <u>Carbage</u> Appearance:			
Sample Description Foreign Material: <u>Carbage</u> Appearance:			
Sample Description Foreign Material: <u>Carbage</u> Appearance:			
Sample Description Foreign Material: <u>Carbage</u> Appearance:			
Sample Description Foreign Material: <u>Carbage</u> Appearance:			
Sample Description Foreign Material: <u>Carbage</u> Appearance:		revised	07/14/93
Sample Description Foreign Material: Carbag		revised	07/14/93

Soil Sampling Field I	Data		
Client/Project Name: R.T. DEM Project Location: LincolnLace. sit, Previcence. San Sample #: YP-3-7	#:96-454.	ioń Env	vironmental Id Services
Sample Location Info			
0.501 1 - Gorbage - glass botts, metal, can Tires. ed. 8-EOB	s, plastic,	clothes.	
Sample Data	Container	Quantity	Preservative
Date: 10:24:46 Time: 10:45 Sampler: 10:2:4:46 Weather: 10:45 Sampling Device: Auger / Core Sampler / Shovel / Split Spoon	202	λ.	_
Trowel / Other <u>Bachhee</u> Field decon: Yes / No / Dedicated Type of Sample: Grab) Composite / Other			
Description Data			1
Organic Vapor Reading: Instrume	ent:		
Sample Depth: Core Lei	ngth:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B Silt and Samel, Corbage, 910	Horizon, Outwast	n, Etc.)	
Munsell Color: Desky Yellowish Brown Grain Si	ze:		
Sample Description Foreign Material:			
Appearance:			
Comments:			

Soil Sampling Field	Data		
Client/Project Name: R.T. DEM Project Project Location: Linculn Lace. sik, Providence. Sa Sample #: 703-8	#: <i>96-4<u>5</u> Ц-</i> mpling Locati 10 - З	A-j Ion En Fie	vironmental Id Services
Sample Location Info			
Sample Data	Container	Quantity	Preservative
Date: 10:21.96 Time: 10:45 Sampler: Tm2 Weather:	202	-M	-
Sampling Device: Auger / Core Sampler / Shovel / Split Spoon • Trowel / Other <u>Bookha</u> Field decon: Yes / No / Dedicated			
Type of Sample: Grab / Composite / Other			
Description Data			1
Organic Vapor Reading: Instrum	ient:		
Sample Depth:S Core Le	ength:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, E Srr fand Sand and Garbay	B Horizon, Outwash	n, Etc.)	glecslottle
Munsell Color: Dosty Yellowich Brown Grains	lize:		
Sample Description Foreign Material: <u>Gorbage</u>			
Appearance:			
Comments: Finisked attilled - dug dow and Int no water, Garbag to 12 Sect 7 collected a P Sample Sign & FT becaus	e material pm1 RCRA8	contine meta	0
- voit stratedu:	be rune	way r	10 cu ary

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Province - - -

Soil Sampling Field	Data		
Client/Project Name: R.T. DEM Project	#:96-4541-	41	
Client/Project Name: R.T. DEM Project Project Location: LincolnLace. sik, Previcence, Sal	mpling Locat	ioń En	vironmental
Sample #: $T \rho H - \gamma$ 7	P-4	Fie	Id Services
Sample Location Info			
0.501/			
1 - Gorbage, metal, glossboths, B	attery cosin	85. Wire	dether
		0.7	0,0,->.
8-20B			
Sample Data	Container	Quantity	Preservative
Date: 10:271-96 Time: 11/0			Fleseivalive
Sampler:Ymß_ Weather:	202	+	-
Sampling Device: Auger / Core Sampler / Shovel / Split Spoon	802	· 1	FerDEM
Trowel/Other Backhee			
Field decon: Yes / No / Dedicated			
Type of Sample; Grab/ Composite /			
Other			
Description Data			
Organic Vapor Pooding:	ent:		
	ent:		
Sample Depth: Core Le	ength:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B	Horizon, Outwash	, Etc.)	C
Sard, F-C, some silt, Earga			imeter
R. C.			
Munsell Color: Dosty Yellowish Brown Grains	ize:		
Sample Description Foreign Material:			
Appearance:			
Comments: Abo 1/00 - 110			
The collected a TPASE	r DEh	1 Shez	
2 feet		1074-11781 *	
2			

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Soil Sampling	Field Data		
Client/Project Name: R.T. DEM Project Location: LincolnLace. sit, Previo		41	
Project Location: Lincoln Lace. Site, Previo	6nd Sampling Locat	ion En	vironmental
Sample #: アアルー 名	Test Pit b	Fie	Id Services
Sample Location Info			
			а.
Sample Data	Container	Quantity	Preservative
Date: 10'24-96 Time: 115 Sampler: 10'24-96 Weather: 115		t	-
Sampling Device: Auger / Core Sampler / Shovel / Split S	spoon		
Field decon: Yes/No/Dedicated			
~ ·			
Type of Sample: Grab) Composite /			
Other			
Description Data			
Organic Vapor Reading:	Instrument:		
Sample Depth:	Core Length:		
Sample Description: Sediment / Soil Type (ex. Lacustrine,	, Wetland, B Horizon, Outwas	h, Etc.)	
Sand F-M little sich		ne Milli	
Munsell Color: DOSty Yellcwish Brocen	Grain Size:		
Sample Description Foreign Material: <u>Ballery Cas</u> Moldes labor	ing & some glass a	nd plastic	materico
Appearance: Molded / glued	togetter.	1	
Comments:			
sommenta.			

Soil Sampling Field I			
Client/Project Name: R.T. DEM Project Project Location: LinculnLace. sit, Providence Sar Sample #: TPA5 - 2	#:96-454- mpling Locati P, 4 & 5	on Env Fie	vironmental Id Services
Sample Location Info			
Of Sand, some silt 2. Water 3. Sand and Grovel 4. EOB			
Sample Data	Container	Quantity	Preservative
Date: 10.24.90 Time: 11.35 Sampler: TM2 Weather:	207 VOJ	l 3	
Sampling Device: Auger / Core Sampler / Shovel / Split Spoon Trowel / Other <u>Boch hee</u> Field decon: Yes / No / Dedicated			
Type of Sample: Grap / Composite / Other			
Description Data			
Organic Vapor Reading: Instrum	ent:	·	
Sample Depth: Core Le	ength:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B Sand, F-M, 1, HUS, LX, Moderad		n, Etc.)	
Munsell Color: Mechaelle Yell. Brown Grain Si	ize:		
Sample Description Foreign Material:			
Appearance:			
Comments: Water at Z-3 Feet at	this loca	fich. U	୦
150 BFT. soil sample will be			
ph= 7.44 SC	= 620.		0
Temp 14.4 DC	0.2.3		in the second seco
adfldsvalatelesiltde Craduatur M MOD	5- Water 2	revised Feet 1	07/14/93

	Soil Sampling Fiel			
Client/Project Name: (Project Location: Lunc Sample #: TP	UT. DEM Pr Unhace sit, Providence 6-2	$\frac{\text{oject #:} 96 - 45 \mu}{\text{Sampling Location}}$	ion Env	vironmenta Id Service
Sample Location				
0. Topso 05-Sand				
Sample Data		Container	Quantity	Preservative
Sampling Device: Auger	Weather: / Core Sampler / Shovel / Split Spoon / Other <u>Bockhew</u>	- 202 V.0V	12	-
Type of Sample: Grab C Other	omposite /			
Description Data				
Organic Vapor Reading: Sample Depth: Sample Description: Sedir S		nd, B Horizon, Outwast		
Munsell Color: <u>21cc</u>	1	ain Size:		
Sample Description Foreig Appearance: petre		TP6- C	valer, 3	3 Feet, 120
HRO	ter at 2 Feet, pet somple will be est, ptf - 6.71 Temp - 14.4	collected in BC: 3 DC - 2,	21	S
adfldsvc\efs\soilfds	rend - e50 rem. Com. 1.26 colibrech - 1.02	DO - 2,		07/14/93

Soil Sampling Field	Data		
Client/Project Name: R.T. DEM Project Project Location: LinculnLace sit, Providence. S Sample #: TPG-4	ect#:96-454- ampling Locat	ion En Fie	vironmental Id Services
Sample Location Info			
Sample Data	Container	Quantity	Property
Date: 10'211-66 Time: 1200		Quantity 1	Preservative
Sampler: Weather:		(
ی Sampling Device: Auger / Core Sampler / Shovel / Split Spoon Trowel / Other <u>بلحمد م</u> Field decon: Yes / No / Dedicated	807	l	For DEN HIB.1
Type of Sample: Grab Composite / Other			
Description Data			1
Organic Vapor Reading: Instru	ument:		_
Sample Depth: Core	Length:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland Silfand Smct	, B Horizon, Outwash	n, Etc.)	
Munsell Color: <u>Black 11</u> Grain	Size:		
Sample Description Foreign Material:			
Appearance: petroleur, staire 2 and oolor			
Comments:			

Soil Sampling Field I	Data		
Client/Project Name: R.T. DEM Project	#:96-454.	4-1	
Project Location: Lincoln Lace site, Previcence Sar	npling Locati	on En	vironmental
Sample #: 707-7 70	est p.+7	Fie	Id Services
Sample Location Info	,		
O-repsect of-sand and silt			
Z-5- Walr			
3 - sand and gravel			
H-EOR			
Sample Data	Container	Quantity	Preservative
Date: 10.21.96 Time: 12.25 Sampler: 500 Weather:	202	ţ	-
Sampling Device: Auger / Core Sampler / Shovel / Split Spoon	803	1	PerDEM
Trowel / Other Field decon: Yes / No / Dedicated			
Type of Sample: Grab / Composite / Other			
Description Data	L I		
Organic Vapor Reading: Instrume	ent:		
Sample Depth: Core Le	ngth:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B $San! Fm_{i}$ Some Set 1:	Horizon, Outwash	n, Etc.)	
Munsell Color: <u>Block D</u> Grain Si	ze:		
Sample Description Foreign Material:			
Appearance:			
All and a second se			
Comments:			
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	4.		

Client/Project Name: Q.T. DE m Project Location: Line of Date Sit, Provident Sample 4: TPB-C Sample 5 Sample Location C - Desphalf 2- Sand and growe H- Wahr 6- EOS Sample Data Container Quantity Preservativ 6- EOS Sample Data Container Quantity Preservativ Date: 15-201-96 Time: 12:00 202 1 Sample Data Container Quantity Preservativ Date: 15-201-96 Time: 12:00 202 1 Sample Core Sampler / Shovel / Split Spoon Trowel / Other <u>Backhole</u> Field decon: Yes (No / Dedicated Type of Sample: Grap / Composite / Other Instrument: Sample Description Data Organic Vapor Reading: Instrument: Sample Depth: Core Length: Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B Horizon, Outwash, Etc.) Sample Description Foreign Material: Sample Description Foreign Material:	Soil Sampling Fiel	d Data		
Sample Location Info Q: - Signal and groue H- Walv 6-E0B Sample Data Date: IO-2019G Time: 1220 Sampler Ymm Weather: 20E Sampler Description Data 20E Organic Vapor Reading: Instrument: Core Length: Core Length: Sample Description: Sadiment / Soil Type (ex. Lacustrine, Wetland, B Horizon, Outwash, Etc.) Sample Description Foreign Material: Image: Core Material:	Client/Project Name: R.T. DEM Pro Project Location: Lincul phare site Providence	iject #:96-454 Sampling Locati		
Or - Asphalt 25- Sond 2 - Sand and groce H- Wahr 6-EOB Sample Data Date: 10-211-96 Time: 1220 Sampler 1002 Sampler: 1002 Sampler: 1002 Towel / Core Sampler / Shovel / Split Spoon Travel / Other 202 Field decon: Yes (No / Dedicated Type of Sample: Grap / Composite / Other Other Description Data Instrument: Organic Vapor Reading:		1051 P·I		
Date: 16-221-96 Time: 1220 Sampler: 1002 Weather: 202 1 Sampling Device: Auger / Core Sampler / Shovel / Split Spoon 202 1 Sampling Device: Auger / Core Sampler / Shovel / Split Spoon 202 1 Sampling Device: Auger / Core Sampler / Shovel / Split Spoon 202 1 Field decon: Yes / No / Dedicated 202 1 Type of Sample: Grab / Composite / Other 2 2 Other Other Instrument:	O- Asphald 25- Sand 2- Sandandgrove H- Wahr			
Sampler: Tm2 Weather: COE Sampling Device: Auger / Core Sampler / Shovel / Split Spoon Trawel / Other Backholl Field decon: Yes / No / Dedicated Field decon: Yes / No / Dedicated Type of Sample: Gran / Composite / Other Description Data Organic Vapor Reading: Instrument: Sample Depth: 2 Core Length: Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B Horizon, Outwash, Etc.) Sond F and Srith Munsell Color: Dackt yollowich Oroing C Grain Size:	Sample Data	Container	Quantity	Preservativ
Trowel / Other Backholl Field decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Other Description Data Organic Vapor Reading:		202	l	-
Type of Sample: Grab / Composite / Other Description Data Organic Vapor Reading: Organic Vapor Reading: Instrument: Sample Depth: Image: Core Length: Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B Horizon, Outwash, Etc.) Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B Horizon, Outwash, Etc.) Sample Description: Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B Horizon, Outwash, Etc.) Sample Description: Description Foreign Material:	Trawel / Other Backhol			
Other Description Data Organic Vapor Reading: Instrument: Sample Depth: Sample Depth: Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B Horizon, Outwash, Etc.) Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B Horizon, Outwash, Etc.) Sample Description: Description Sediment / Soil Type (ex. Lacustrine, Wetland, B Horizon, Outwash, Etc.) Sample Description Foreign Material:	Field decon: Yes (No / Dedicated			
Organic Vapor Reading:				
Sample Depth: 2 Core Length:	Description Data	1		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B Horizon, Outwash, Etc.) Sand F and Silk Munsell Color: <u>Dock yellowich Gronge</u> Sample Description Foreign Material: <u>eeu</u>	Organic Vapor Reading: Inst	rument:	<u> </u>	
Sand F and Sill Munsell Color: <u>Derkyellowich Gronge</u> Grain Size: Sample Description Foreign Material: <u>eeu</u>	Sample Depth: Cor	e Length:		
Sample Description Foreign Material:		id, B Horizon, Outwash	n, Etc.)	
	Munsell Color: Dorkypllowigh Grange Gra	in Size:		
Appearance:	Sample Description Foreign Material:			
	Appearance:			
	adfldsvc\efs\soilfds		revised	07/14/93
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Client/Project Name Project Location:	Soil Sampling R.T. DE M Incolntace sit, Previe PB - B	Project #: 96-	H <u>5 II-A-J</u> Location	Env	vironmental
Sample #: /	PS - 0 on Info	lest p.F	Ø		ld Services
Sample Data	1		tainer C	Quantity	Preservative
Date: <u>10.26</u> Sampler: <u>TM</u>			5	L	-
Sampling Device: Au	uger / Core Sampler / Shovel / Split S owel / Other	Spoon			-
Field decon: Yes / N		e			
Type of Sample; Gra	h Composite /				
Othe	r				
Description Da	ta				
Organic Vapor Readi	ng:	Instrument:	~	-	
Sample Depth:	8	Core Length:			
Sample Description:	Sand FGCone SICL		Outwash, Etc	c.)	
Munsell Color:	rk Yellowish orang +	Grain Size:		_	
	Foreign Material:				
Appearance: clea	n				
Comments:	Wahr Somb for 1 DO - 2-8	Field por	, Also	Collect	e d
1.0	20 - 2-8	0	a H	18-1 R	er DEM
	DO - 2-8 Ph - 6.62			<i>i</i> . v	er.
				- 114	5 .200
	Temp - 12-1	500	2	<u> 11 11 11 11 11 11 11 11 </u>	
	Temp - 12-1 cond - 470 col 1.02.	TPE	3- Wash	5,41	T, 1300

Soil Sampling Field I	Data		
Project Location: Lincoln Lace. Sit. Pres conce Sar	#:96-4511- npling Locat est p.+ 9	ion Env	vironmen Id Servic
Sample Location Info			
0 - Asphaltr 25- Soiland demolition debris - Woo 5- Water, Sandand Gravel 8- 2018	od, metal.		t
Sample Data	Container	Quantity	Preservati
Date: <u>10-24-46</u> Time: <u>1400</u> Sampler: <u>TMR</u> Weather:	202	1	-
Sampling Device: Auger / Core Sampler / Shovel / Split Spcon Trowel / Other <u>Backho</u> e			a la su de la contra
Field decon: Yes / No / Dedicated Type of Sample: Grab/ Composite / Other			
Description Data			
Organic Vapor Reading:		ne	
Sample Depth: Core Le	ngth:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B sand F-m and Silf Sone cene excover Munsell Color: <u>moderabe Brown 57 RH/U</u> Grain Si	truchen de	brisin - metar	
Sample Description Foreign Material:			
Appearance:			
Comments:			
	dine ha	i an a	
		19 9	
		- 0 / W I	
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Soil Sampling				
Client/Project Name: R.T. DEM Project Location: Lincoln Lace. sit, Preu	Project #:	<u>96-454</u> - pling Locat		/ironmenta
Sample #: TP9-8)(est Pit 9	Fie	ld Service
Sample Location Info				
Sample Data		Container	Quantity	Preservativ
Date: <u>162211.96</u> Time: <u>1810</u> Sampler: <u>TWN</u> Weather:		202	L	-
		250mlp CFer E	3	the
Sampling Device: Auger / Core Sampler / Shovel / Spli Trowel / Other <u>Pacther</u>	t Spoon	C.For E	EM	
Field decon: Yes / No / Dedicated				0
Type of Sample: Grab Composite / Other				
Description Data		1		1
Organic Vapor Reading:	Instrumen	t:		
Sample Depth:	Core Leng	gth:		
Sample Description: Sediment / Soil Type (ex. Lacustrin Sand and Silt,	ne, Wetland, B H	orizon, Outwasł	n, Etc.)	
Munsell Color: B Moderale Yellowish B	N ^{WW N} Grain Size	::		
Sample Description Foreign Material:				
Appearance:				
Comments: Water Sample colle	ected from			
DO-6.4			slight	etroleum
cond550		S	heen	
cd1.02	200	Wookr,	1 Sat	ILLE
Taup - 14.5	1PT	NUCRET,	noter 1	-113
adfldsvclefslsoilfds ph - 7.33			revised	07/14/93
Yomcer - 1.26		1		
30 2710				

Soil Sampling Field Data Client/Project Name: Q.T. DE m Project # 96-454-444 Project Location: LincolnLace Sit, Providence Sampling Location Environm Sample #: TPIO 2 Environm Sample Location Info Container Quantity Press Or Soin Top Soin -1 Sond and growel $U = COCS$ Container Quantity Press Sample Data Container Quantity Press Date: IO 2 M 400 The Weather:	
Sample Location Info O: Sor rep So -1 \$65 - Sand and growed \$H - COB Sample Data Container Date: OZH'40 Time: HLO Sampler: DA Weather: Sampling Device: Auger / Core Sampler / Shovel / Split Spoon Trowel / Other/Hackhole Field decon: Yes / No / Dedicated Type of Sample Grab/ Composite /	
Or Sorr rep Sor -1 #5 - Sand and growel H - COS Sample Data Date:	IVICES
Date: M20 Time: 2 c 2 Sampler: Meather:	
Date:	ervative
Trowel / Other/ <u>Backboe</u> Field decon: Yes / No / Dedicated Type of Sampler Grab/ Composite / Other Description Data Organic Vapor Reading: Sample Depth: Sample Depth: Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B Horizon, Outwash, Etc.) Sand and St 1/4 Munsell Color: <u>Medium Gray</u> Grain Size:	-
Organic Vapor Reading: Sample Depth: Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B Horizon, Outwash, Etc.) Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B Horizon, Outwash, Etc.) Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B Horizon, Outwash, Etc.) Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B Horizon, Outwash, Etc.) Sand and St // Munsell Color: Medjum Gray Grain Size:	
Sample Depth: Core Length: Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B Horizon, Outwash, Etc.) Sand and St 1/_ Munsell Color: <u>Medium Gray</u> Grain Size:	
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B Horizon, Outwash, Etc.) Sand and St 14 Munsell Color: Medium Gray Grain Size:	
Sand and Silt Munsell Color: <u>Medium Gray</u> Grain Size:	
Sample Description Foreign Material:	
Appearance:	
Comments:	

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revised 07/14/93

*

Project Location: Lincoln Lace Sit, Prec. Sample #: TPIO-H	Test	Pitlo	Fie	ld Servic
Sample Location Info				
Sample Data	Γ	Container	Quantity	Preservativ
Date: 10 2196 Time: 14210		202	1	
Sampler: Weather:		SOF	N	
Sampling Device: Auger / Core Sampler / Shovel / Split	Spoon 7	250mLP	Ĩ	HNOZ
Trowel / Other <u>Bachhee</u> / hanc Field decon: Yes / No / Dedicated	woolar	1		
\sim	Wa	ForDEr	h	
Type of Sample/ Grab / Composite /	1			ŝ.
Description Data				
		~		
Organic Vapor Reading:	Instrument:			
Sample Depth:U	Core Lengt	h:		
Sample Description: Sediment / Soil Type (ex. Lacustrin	e. Wetland, B Ho	rizon Outwash	Etc.)	
Sard-F-M, wit)	
Munsell Color: Pdeyelleuch Brown	Grain Size:			
Sample Description Foreign Material:				
Appearance:				
· · ·				
Comments: Water is det 3 Sat,	Leren w	when sam	de corlect	odut
		Steet		
ph- 6.84		> teer		in the Yes
Temp - 13.3	TPIC			1101-
DO- 2.9 (TPIC), Wate	1,3F	, 1445
cord- 600				

Project Location: Lincoln Lace. Sit, Preciona	oiect#: <u>96-4511-</u> Sampling Locat Test Pi+11	ioń Env	vironmenta Id Service
Sample Location Info	1		
0. Bricks and sold 1- weder B- K-Soil, sitti sand - oly			4
Sample Data	Container	Quantity	Preservative
Date: 10.24-86 Time: 1500	202		1
Sampler: Weather:		3	5
Sampling Device: Auger / Core Sampler / Shovel / Split Spoon	VOD		HALOS
Field decon: Yes (No) Dedicated	250 mL		Firben
Type of Sample: Grab / Composite / Other			
Description Data			
Organic Vapor Reading: Ins	trument:		
Sample Depth: Col	re Length:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetlar SrIH, Tr. Organic S	nd, B Horizon, Outwash	n. Etc.)	
Munsell Color: <u>Black N</u> , Gra	ain Size:		
Sample Description Foreign Material:	-		
Appearance: petrobun odor. This loc			
only one soil sample wa	es cellected	at this 1	location
Comments: This location appears	to be in	ach un	11.
Wabrwas at 1500t from			
Loople of feet was h	TAR SUSAC	- Ta	reset
	richs and .9	orbagi.	
- 1. Cours D	at @ H seit	- soi	2
to next soit appeared	()		
adildsvoleis/soilids Collected the soil appeared Collected the soil sample Cord-600 Ral-1.0 Cord-600 Ral-1.0 Cord-600 Ral-1.0 Cord-7.27 NO-2	Here	revised	07/14/93

Soil Sampling H Client/Project Name: R.T. DEM Project Location: LincolnLace. sit, Preciebre Sample #: TP12-7	Project #: 96-4511- sampling Locat	ion Env	vironmental Id Services
Sample Location Info			
0 - TOP Soil 25 - Bruhs and sard 2 - 64 ashlage water 235 - Sand and ground			÷
Sample Data	Container	Quantity	Preservative
Date: 1525 Sampler: 1992 Sampling Device: Auger / Core Sampler / Shovel / Split Sport Trowel / Other 1000 Field decon: Yes / No / Dedicated	202-	(
Type of Sample: Grab / Composite / Other			
Description Data	~		an a
Organic Vapor Reading:	Instrument:		
Sample Depth:	Core Length:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, W Sonct $F \subset$, Some S. #	Vetland, B Horizon, Outwash	α. Ξtc.)	
Munseil Color: MOd. y. Bra	Grain Size:	_	
Sample Description Foreign Material:			
Appearance: Fill from O.2 Sect, then a the water sand and	6" Ash layor grovel	and	
Comments:			

adfldsvc\efs\soilfds

Sample #: 7712-6	est patiz	Fie	ld Servi
Sample Location Info			
			i.
Sample Data	Container	Quantity	Preservat
Date: 10.24.46 Time: 1530	202		1-
Sampler: Weather:			
Sampling Device: Auger / Core Sampler (Shovel / Split Spoon			
Trowel/Other Backhee/hand			
Field decon: Yes / 10 Dedicated			
Type of Sample: (grab) Composite /			-
Ottrar			Day 1 - Share
Description Data			
Organic Vapor Reading:			
institution institution institution institution	nent:		
Sample Depth: Core Li	ength:	·	
		_	
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, E $Sand, FC$,	3 Horizon, Outwasr	1, ⊂(C.)	
Munsell Color: Dosta Yellowish Brown Grains			
Munsell Color: <u>Posta Yellowis</u> h 1310Wr Grain S	bize:		
Sample Description Foreign Material:			
Appearance:			
Comments: water alsity			
and the second	Sec. 20		
		1. 1. 1.	
	Section and the		
adfldsvc\efs\soilfds		raviead	07/14/93

Soil Sampling Field I	Data		
Client/Project Name: R.T. DEM Project Project Location: LinculnLace. sit, Providence Sar Sample #: TP13-8 Te	#:96-454- npling Locat	ion Env	vironmenta Id Service
Sample Location Info	51 /1/ 5		
Sample Data	Container	Quantity	Preservativ
Date: <u>10.25.46</u> Time: <u>07215</u> Sampler: <u>3773</u> Weather: <u>5775</u> Sampling Device: Auger / Core Sampler / Shovel / Split Spoon Trowel / Other <u>5786</u> Field decon: Yes / No / Dedicated	202	t	-
Type of Sample: Grab / Composite / Other			
Description Data			
Organic Vapor Reading: Instrume	ent:		
Sample Depth: Core Le	ngth:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B Sond & Scil, Ash & Sone (
Ol in del	ze:	/	
Sample Description Foreign Material:			
Appearance:			
pc- 1.8 cal. +	PIZ-Wat	8FT 1 8FT 1	2.
adfldsvclefslsoilfds Tenc 1.30 Cencl 650 SC - 860	a' ''	revised	07/14/93

Client/Project Name: R.T. DEM Project Location: LinculnLace. Sit, Providence St	^{ct #:} <i>96-454</i> . ampling Locat	A-j ion Env	vironmenta
	Test Pit 13	Fie	Id Service
Sample Location Info			
0.2FT- Sand and Grover	- G		
2-8) Stones and Demulitien Debris Burned wood, 8- Wates Block.	, plastic dru	ums, meta	tobing As
Wates · Block-			
Sample Data	Container	Quantity	Preservative
Date: 10.05.96 Time: 0730 Sampler:	207	l	-
Sampling Device: Auger / Core Sampler / Shovel / Split Spoon		*	
Field decon: Yes / No / Dedicated			
Type of Sample: Grab / Composite / Other			
Description Data			1
Organic Vapor Reading: Instrur	ment:		
Sample Depth: Core L	Length:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, Sand F. M. Sone Silt	B Horizon, Outwash	n, Etc.)	
Munsell Color: Dustry Vellowish Brown Grain	Size:		
Sample Description Foreign Material:			
Appearance: clean			

Soil Sampling Field	Data		
Client/Project Name: R.T. DEM Project Project Location: Lincoln Lace. sit, Precisione Sal Sample #: TPIN-2 Tee		ion Env	vironment Id Service
Sample Location Info			
0-Z Bricks and stores and ashes 2.25 - Asphalt Surface 2.5.8 Sardand Gravel 6- Native Soil 5- Water - Brown	1 Burned d	emolition	Edebrig
Sample Data	Container	Quantity	Preservativ
Date: 10:25:96 Time: 06:00 Sampler: TYM2 Weather:	202		1
Other Description Data			
	ent:UUM	2	
2	ngth:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B Sittand QStes	Horizon. Outwash	ι, Ξtc.)	
Munsell Color: <u>medium Gray</u> Grain Si	ze:		
Sample Description Foreign Material:			
Appearance:			
Comments:			

Client/Project Name: R.T. DEM Project Project Location: Lincoln Lace sit, Precidence Sa Sample #: TPIH-8	est Pit 14	Fiel	d Service
Sample Location Info			
Sample Data			1
Date: 10. 25.46 Time: 0815	Container	Quantity	Preservative
Sampler: Weather:	505	C	-
Sampling Device: Auger / Core Sampler / Shovel / Split Spoon	Nacual	com.	
Trowel / Other	Nocuat	- Jum	
Field decon: Yes / No / Dedicated			
Type of Sample: Grab / Composite /			
Other			1
Description Data	1		******
		~	
Drganic Vapor Reading: Instrum	nent: <u>NON</u>	2	
Sample Depth:C Core L	ength:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, i	B Horizon Outwash	Etc.)	
Sand, FC. Some sil h		, =(0.)	
Aunsell Color: Mochrade Y. Brown Grains	Size:		
Sample Description Foreign Material:			
Appearance:			
Comments:			
ph - 7.59 1 NO Wa	bersample.	Collectiv	, G
Tem - 15.2	and the second	Sec. mail in	2
	inoter. Of	3-20-0-	-
Cond - 500 - Oul	~ / ~	F C	0580
po - 4.6 (TPIN-	1 8 F	The second s	
	/ 8F		

Project #: 96-454	tion En - Fie	vironmental Id Services machine
Z		
Container	Quantity	Preservative
206	(
	1	
Core Length: ne, Wetland, B Horizon, Outwas (Garbarge n Grain Size:	h, Etc.)	
	Uncline Sampling Loca Test p.T 113 Gess bothy plostic ect Soil IA Container 202 plit Spoon Instrument: Gom Core Length: Total Time, Wetland, B Horizon, Outwas Total Ge	Project #: $Q_{S-HS} J_{J-A-J}$ Sampling Location $T = T$ p. $T H_{S-}$ Field Gess bothy plastic purching ect soil Instrument: $Gom 2Core Length:rine, Wetland, B Horizon, Outwash, Etc.)T = Gould Container (Com 2)Grain Size:$

ł,

Client/Project Name: R.T. DEM Project Location: LincolnLace Sit, Providence Sa	Data 1 <i>#:96-454-</i>	4-1	Second Second 2
Project Location: Lincolnhace. sik, Previcence Sa	mpling Locati	on Env	vironmental
Sample #: $\gamma p_{15} - 8$ Te	ST PIT15	Fie	ld Services
Sample Location Info			
Sample Data	Container	Quantity	Preservative
Date: 10.25.96 Time: 0850	202	1	
Sampler: Weather:	206	t	-
Sampling Device: Auger / Core Sampler / Shovel / Split Spoon			
Trowel / Other			
Field decon: Yes / No / Dedicated			
Type of Sample: Grab / Composite /			
Other			
Description Data			
Organic Vapor Reading:	nent: <u>OUM</u>	2	
Sample Depth: <u>5</u> Core L	ength:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, E Sand, Some Sill, Tr-Gord	B Horizon, Outwash	, Etc.)	
Munsell Color: DOSKy Yellowish Brown Grains	Size:		
Sample Description Foreign Material:			
Appearance:			
Comments: No water was encount I will collet a recra 8 05 the reen 8 worder.	ered down soil s	ample,	Feet
of the RCENS worder.			

Soil Sampling	Field Da	ta		
Client/Project Name: R.T. DEM Project Location: LinculnLace. sik, Preud Sample #: TP16 - 7	Project #: 9	? <u>6-45-11-</u> ling Locat	ion Env	ironmental d Services
Sample Location Info		1.1.70		
0- Asphat 5- Sand and Silt-Fill 2. Concret pod extends por # Water 2.5- Sand + Grovel, littlisch U - Water	H ge 16 Inte	Ωγ ca U eU	ton-meybe	overtank
Sample Data		Container	Quantity	Preservative
Date: <u>10.25.96</u> Time: <u>0920</u> Sampler: <u>Smp2</u> Weather: Sampling Device: Auger / Core Sampler / Shovel / Split	: Spoon	202 Vo cua	1 Ju Sample	
Field decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other				
Description Data				
Organic Vapor Reading:	Instrument:	OUMI	42	
Sample Depth:	Core Length	1:		
Sample Description: Sediment / Soil Type (ex. Lacustrin Sand, Fix and sitt (Fi		izon, Outwash	n, Etc.)	
Munsell Color: Light Brown 54 n5/6	Grain Size:			
Sample Description Foreign Material:				
Appearance:				
Comments: Could hot see any	nect of	the od	acout O	57-

revised 07/14/93

4

Soil Sampling Fiel Client/Project Name: R.T. DEM Project Location: Lincoln Lace sit, Previdence Sample #: TP16-5	d Data oject #:96-454- Sampling Locat Test P.+16	<u>A-j</u> ion En Fie	vironmental Id Services
Sample Location Info			
	•		-
Sample Data	Container	Quantity	Preservative
Date: 10.25.96 Time: 0930 Sampler: Tmg Weather:	- 205	t	-
Sampling Device: Auger / Core Sampler / Shovel / Split Spoon Trowel / Other Field decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other			÷
Description Data			1
Organic Vapor Reading: Ins	trument: <u>OUM</u>	2	
Sample Depth: Co	re Length:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetlar $Sand, F-C$	nd, B Horizon, Outwash	n, Etc.)	
Munsell Color: Mod. ypllowish Bider Gra	ain Size:		
Sample Description Foreign Material:	-		
Appearance: Clean			
Comments: soil sample was collecte + le water, because we a	ed at 5 fee	t, Jost	below

Project Location: Lincoln Lace Sit, Providence S	ect#:96-454- ampling Locat	ioń Env	vironmenta
Sample #: 7017-2	Test P.+17	Fiel	d Service
Sample Location Info			
O- Asphalt 25 - Sand and Gravel 1,146 sith. 2- Concribe Party 1 light gray fith layor 2. organic Gilt layor 2.5 sand and grevel 3. Silt layor with roots H. S	14.	ken cor	-water
Sample Data	Container	Quantity	Preservativ
Date: 10.25-96 Time: 0.940 Sampler: TMB Weather:	805	1	-
Sampling Device: Auger / Core Sampler / Shovel / Split Spoon Trowel / Other Field decon: Yes / No / Dedicated	Ferdi	Ams	
Type of Sample: Grab / Composite / Other			
Description Data		1	1
Organic Vapor Reading: Instru	ument: <u>OUM s</u>	42	
Sample Depth: Core	Length:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland Silt- organized TY. Sand and ye	, B Horizon, Outwash oeナタ、	n, Etc.)	
Munsell Color: <u>Black W1</u> Grain	ı Size:		
Sample Description Foreign Material:			
Appearance:			
Comments:			
		- *	
adfldsvc\efs\soilfds		revised	07/14/93

Data		
#: <i>96-454-</i> npling Locat チ <i>D</i> .+ / フ	ion Env Fie	vironmental Id Services
Container	Quantity	Preservative
202	l l	For DEM HIS-1
UOA	S	-
Horizon, Outwash	o, Etc.)	
ze:		
0417;-wat	er, Hos	FT, 1000
<i></i>	revised	07/14/93
	Container 202 802 00 00 00 00 00 00 00 00 00	$\frac{1}{2} \frac{96 - 45 \mu \cdot A - \mu}{17}$ Env Fie $\frac{1}{2} \frac{02}{2} \frac{1}{1}$ $\frac{2}{8} \frac{02}{2} \frac{1}{1}$ $\frac{1}{8} \frac{02}{2} \frac{1}{1}$ $\frac{1}{2} \frac{0}{2} \frac{1}{2} \frac{1}{1}$ $\frac{1}{2} \frac{1}{2} \frac{1}$

Soil Sampling Client/Project Name: R.I. DEM Project Location: Lincoln Lace. sit, Previe Sample #: TP18-Z Sample Location Info O- Sand and Silf-Black S- Railwood fies I- Sardard Silf Black Z- Sand, Brown 3. Sand, Silfard grovel 3.5 - Walter and Orl, Floating 5 - EOB	Project #: <u>conc</u> Samj	96-454- oling Locat 37 P.+13	ion Env	vironmental Id Services
Sample Data		Container	Quantity	Preservative
Date: <u>10 - 25 96</u> Time: <u>1050</u> Sampler: <u>Tm2</u> Weather: <u></u> Sampling Device: Auger / Core Sampler / Shovel / Split S Trowel / Other <u></u> Field decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other <u></u>		505	l.	
Description Data		1		11
Organic Vapor Reading:	Instrument	: Oum	#2	
Sample Depth:	Core Leng	th:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Suband F. Sancl	, Wetland, B Ho	orizon, Outwash	, Etc.)	
Munsell Color: Dosky yellowish Brown	Grain Size			
Sample Description Foreign Material:				
Appearance: Clean ?				Ŧ
Comments:				

Client/Project Name:	R.J. DEM Pr incolntace sit, Previdence	oject #: 96-454.	41	A SUGAR
Project Location:	incolnhace sit, Previdence	Sampling Locati	on En	vironmenta
	P184	JOST PIT18	Fie	Id Service
Sample Location	on Info			
Camala Data				1
Sample Data		Container	Quantity	Preservative
	2 <u>5-9</u> 0 Time: <u>1030</u> TM2 Weather:	705	Ļ	-
	-	503	l	ForDEN
	ger / Core Sampler / Shovel / Split Spoon	VOA	3	_
Field decon: Yes / No	owel / Other	00,	5	
				1
Type of Sample: Grat	o / Composite /			
ouie				
Description Da	ta			1
Organic Vapor Readin	ng: <u>22</u> Ins	strument: <u>Oom</u>	2	
Sample Depth:	t	ore Length:		
Sample Description: 5	Sediment / Soil Type (ex. Lacustrine, Wetla	nd, B Horizon, Outwash	, Etc.)	
	Sand, F-Cilitte Sich - Oil	Saturaled		
ND 1	a k 111			
Munsell Color: <u>2/</u>	<u>accol</u> Gr.	ain Size:		
Sample Description F	oreign Material:			
		_		
Appearance: Walk	ers black with Floceting	preduct		
Comments:	ph - 6.83			
	cend - 650	TP18-W	10 tor, 30	5FT,103
4.4.4	Temp- 15.7			
				-
Et al.	PC - 2.8			
	calb-1.01			
adfldsvc\efs\soilfds	Femc - 1-22		revised	07/14/93
adfldsvc\efs\soilfds	Temc - 1-22 SC - 810	4*	revised	07/14/93

Soil Sampling Field	Data		
Client/Project Name: R.T. DEM Project Project Location: LincolnLace. site, Previcture. St	ct #: 96-454.	ioń En	vironmental Id Services
Sample Location Info			
0-Sut Ashison Black. 1. Sand-Brown 3. Sand and grovel N Weder-With Floating Black Oil 5-EOB.			
Sample Data	Container	Quantity	Preservative
Date: <u>10.2598</u> Time: <u>1/OO</u> Sampler: <u>TMB</u> Weather: Sampling Device: Auger / Core Sampler / Shovel / Split Spoon Trowel / Other Field decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other	202	1	
Description Data			1
Organic Vapor Reading:O Instru	ment:		
Sample Depth: Core I	Length:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, Somel, F-M. Munsell Color: <u>light Grey</u> Grain Sample Description Foreign Material: Appearance:	B Horizon, Outwash Size:		
Comments: We hat a concrete pad de stated location, we made d/d towards the river (worth), four pod and degos dog down	souncet 1 c followed the nd the ed	foot oct e pad 15 ge od t	the Sect

Client/Project Name: R.J. DEM Project Project Location: Lincolnhace sik, Previcence Sal	mpling Locat	ion En	vironmer
Sample #: 7 P/9 - 4 Te	est p.+ 19	Fie	ld Servi
Sample Location Info			
Sample Data	Container	Quantity	Preservat
Date: 10.25.96 Time: 11.05	202	1	_
Sampler: Weather:	1204	3	-
Sampling Device: Auger / Core Sampler / Shovel / Split Spoon	U		
Trowel / Other Field decon: Yes / No / Dedicated	8		
Type of Sample: Grab / Composite /			
Other			
Description Data			1
Organic Vapor Reading: Instrum	ent: <u>OUM</u> t	+2	
Sample Depth: Core Le	ength:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B	Horizon, Outwash	, Etc.)	
Sand, F-C, Oilstained			
here and the trans			
Munsell Color: Meduce Yellowish Brown Grain Si Black M	ize:		
Sample Description Foreign Material:			
Appearance: Orky, Me Oil amenes to Clasting	on the wate	1. sor (
Appearance: Only, The Oil oppears to floating bebauth water level is not	orly		
	1.		
Comments: ph - 7.14 cend - 800 7010	9-water,	HFT, 1	115
Temp - 16.0			
	- ·		
	× 1		
0.0 2.8			
D.O. = 2rO Cal.6 - 1.01 adfldsvclefslsoilfds Tempc - 1.2]			

Soil Sampling Field Client/Project Name: R.T. DEM Proj Project Location: Linculn Lace sit, Previdence Sample #: TP20-2 Sample Location Info O - Sand, Astes, Railrood Hiss, - Bla 2 · Sand and sit. Brown 3 · Sand and sit. Brown 5 · Water, with Floating produce EOB-5 Feel-	ect #:96-454- Sampling Locat TestP+20 ech	1-j ion En Fie	vironmental Id Services
Sample Data	Container	Quantity	Preservative
Date: 10-25-96 Time: 1/30 Sampler: TM2 Weather:	203	l	
Description Data	l		
	d, B Horizon, Outwash	·	
Munsell Color: <u>Drech JJ</u> Grain Sample Description Foreign Material:	n Size:		
Appearance:			
Comments:			
		<u>*</u>	

$\operatorname{SdIIIDIE} \pi$.	R.I. DEM Projec inculntace.sik, Previcence. Sa 20-4 Te	mpling Locat		vironmenta Id Service
Sample Locati		<u>-5' p /</u>		
Sample Data		Container	Quantity	Preservative
Date: 10:25 Sampler:	<u>96</u> Time: <u>1200</u> W_ Weather:	207	l	_
	<u></u>	VO4	3	-
the second se	ger / Core Sampler / Shovel / Split Spoon	250m2p	1	Ferber PPM
Field decon: Yes / N	wel / Other			PPM
	·			
Type of Sample: Grat				
Othe		_		
Description Da				1
Organic Vapor Readi	ıg: <u>O</u> Instrun	nent: <u>OUM</u>	<u># (</u>	
Sample Depth:	- Core L	ength:		
Sample Description: 5	Sediment / Soil Type (ex. Lacustrine, Wetland, i Sond, PC, Some S, U,	B Horizon, Outwash	n, Etc.)	
	some site,			
	(a. 1. 2)			
in the state of the state of the state of the	devoce Brown and haptory Grains	Size:		
Munsell Color: mo	a 1			
	preign Material:			
Sample Description F	oreign Material:			
Sample Description F	- 1" Flocetmy product			
Sample Description F				
Sample Description F	- 1" Floating product	5020-11	10,0 2,1	
Sample Description F Appearance: O^{i}/g	- 1" Floating product	7P20-W.	eter, 3.6	5FT, 121
Sample Description F Appearance: O^{i}/g	- 1" Floating product	7820-W.	eter; 3.6	5FT, 121
Sample Description F Appearance: O^{i}/g	- 1" Floating product Ph - 7.05 Temp - 15.5	7820-Wa	eler, 3.6	TFT, 121
Sample Description F Appearance: O^{i}/g	- 1" Floating product Ph - 7.05 Temp - 15.5 D.O - H.1	7820-W.	eler, 3.6	5FT, 121
Sample Description F Appearance: O^{i}/g	- 1" Floating product Ph - 7.05 Temp - 15.5 D.O - H.I Cord - 1000	7820-W.	eter; 3.6	5FT, 121
Sample Description F Appearance: O^{i}/g	- 1" Floating product Ph - 7.05 Temp - 15.5 D.O - H.I Cord - 1000	7820-Wa		,
Sample Description F Appearance: 0:/y Comments:	- 1" Floating product Ph - 7.05 Temp - 15.5 D.O - H.1	TP20-W.		07/14/93

Soil Sampling Field I			
Client/Project Name: C.T. DEM Project	#:96-4511-		vironment
Project Location: LincolnLace. sik, Previcence. Sar Sample #: TPZ1-2	STD. + 21	Fie	ld Service
Sample Location Info	31		
O' - Bricks, store, wood, Demektion	· Debris	metal >	Talana
H' - Water, with Floeding product	, ,		Jr
Sample Data	Container	Quantity	Preservati
Date: 10:25-96 Time: 1215	202	1	
Sampler: Weather:			_
Sampling Device: Auger / Core Sampler / Shovel / Split Spoon			
Field decon: Yes / No / Dedicated			
Type of Sampla: Grab / Composite /			
Type of Sample: Grab / Composite / Other			
Description Data			1
Organic Vapor Reading: Instrume	ent: <u>OUM</u>	2	
Sample Depth: Core Le	ngth:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B $Sand, Fre_r$	Horizon, Outwash	n, Etc.)	
Munsell Color: 1-4htclus grey Grain Si	ze:		
Sample Description Foreign Material:			
Appearance:			
Comments:			
	<i>a</i> .		
	· · ·		
adfldsvc\efs\soilfds		revised	07/14/93
	4		

Soil Sampling Field I	Data		
Client/Project Name: R.T. DEM Project Project Location: LinculnLace sik, Previcence. San Sample #: TD21-4 Tes	npling Locati	on Env	vironmental Id Services
Sample Location Info	+ RHZ 1		iu Services
Cample Eccation mic			
			-
Sample Data	Container	Quantity	Preservative
Date: 10.26-96 Time: 1220	202	1	-
Sampler: Weather:	202	3	
Sampling Device: Auger / Core Sampler / Shovel / Split Spoon			
Field decon: Yes / No / Dedicated	-		
Type of Sample: Grab / Composite / Other			
Description Data	1		
Organic Vapor Reading: Instrume	ent: Oum	2	
Sample Depth: Core Ler	ngth:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, B	Horizon, Outwash	, Etc.)	
Munsell Color: <u>Blach UI, McO. yellowsh</u> Br Grain Siz			
	28	_	
Sample Description Foreign Material:		1. S	1
Appearance: water sample collected nSect, he	ad 1" Float.	m prook	iet
Comments: ob - 6.84	7244	0 11 10	
Temp - 16.5 (TF	21-Wate	', A FI	11240
D.0 - 2.8			
conel - 1300			
Calib - 1.01		19 1	
adfldsvc/efs/soilfds $VerpCr = 1.19$ Se = 1.580		revised	07/14/93

Client/Project Name: RT DE Project	t#:96-4511	AI	
Project Location: Lincula Lace St Portugene Sa	mpling Locat	ion Env	vironment
Client/Project Name: R.T. DEM Project Project Location: Lincoln Lace sik, Previdence Sa Sample #: SS-Q = 1.5	55-01	Fie	Id Servic
Sample Location Info			
Sample Data	Castoiner	Quantin	[
Date: 10/25/96 Time: 10:15	Container	Quantity	Preservati
Sampler: <u>KO</u> Weather: <u>sun 60</u>	202	I	none
Sampling Device: Auger / Core Sampler / Shovel / Split Spoon	802	l	none
Trowel / Other			
Field decon: Yes / No / Dedicated			
Type of Sample: Grab/ Composite /			
Other			
Description Data			1
Organic Vapor Reading: MA Instrum	an C		
	nent:		
Sample Depth: 1.5 Seet Core Le	ength:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, E	B Horizon, Outwash	. Etc.)	
	Contraction of the		
Munsell Color: Grain S	Size:		
Sample Description Foreign Material:			
Appearance:			
Comments:			
		-	
		A	
adfldsvc\efs\soilfds		revised	07/14/93

Soil Sampling Field Client/Project Name: R.T. DEM Project Location: LincolnLace sit, Previdence. Sa Sample #: SS-02-1,5	Data t #:96-4541- Impling Locat	A-j ion En	vironmenta
Sample Location Info	55-02		ld Service:
Commiss Data			-
Sample Data Date: 10/25/96 Time: /0:47	Container	Quantity	Preservative
Date: 10/25/96 Time: 10:47 Sampler: K0 Weather: Sample: 60°	202	I	
Sampling Device: Auger / Core Sampler / Shovel / Split Spoon Trowel / Other Field decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other	802	1	
Description Data	1		1
Organic Vapor Reading: Instrum	ient:		
Sample Depth: Core Le	ength:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, E	3 Horizon, Outwash	, Etc.)	
Munsell Color: Grain S	lize:		
Sample Description Foreign Material:			
Appearance:			
Comments:			

Soil Sampling Field Client/Project Name: R.T. DE M Proj Project Location: LinculnLace sit, Previdence Sample #: SS-03-1.5 Sample Location Info	1 Data ect #:96-454 Sampling Locat SS-03	A-J Ion En Fie	vironmental Id Services
Sample Data	Container	Quantity	Preservative
Date: <u>10/25/16</u> Sampler: <u>VD</u> Weather: <u>Survey</u> 60 Sampling Device: Auger / Core Sampler / Shove) / Split Spoon Trowel / Other Field decon: Yes / No / Dedicated	207	1	
Type of Sample: Grab/ Composite / Other Description Data			
	ument:		
15	Length:		
Munsell Color: Grain	1 Size:		
Sample Description Foreign Material:			
Appearance:			
Comments:			

a: -

Soil Sampling Field Client/Project Name: R.T. DEM Project Location: Linculn Lace. site, Previcting. Sample #: 55-04-15	Data ect #: <u>96-454-</u> ampling Locat SS-04	ion En	vironmental Id Services
Sample Location Info	<u> </u>		
Sample Data	Container	Quantity	Preservative
Date: 10/25/16 Time: 1100 Sampler: 100 Weather: 5000000000000000000000000000000000000	202 802	l l	
Trowel / Other Field decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other			
Description Data			
Organic Vapor Reading: Instru	ment:		
Sample Depth: Core	Length:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland,	B Horizon, Outwash	i, Etc.)	
Munsell Color: Grain	Size:		
Sample Description Foreign Material:			
Appearance:			
Comments:			

Soil Sampling	Field Data		
Client/Project Name: R.J. DEM Project Location: LinculnLace. sik, Previde Sample #: SS-05-1.5	Project #:96-46 Sampling Lou SS-OS	2 <u>1-A-1</u> cation En Fie	vironmental eld Services
Sample Location Info			
Sample Data	Containe	er Quantity	Preservative
Date: <u>10[25]94</u> Time: <u>11:05</u> Sampler: <u>KO</u> Weather: <u>Suranged</u> Sampling Device: Auger / Core Sampler (Shovel/) Split Sp		2 1	
Field decon: Yes / No / Dedicated			
Type of Sample: Grap / Composite / Other			
Description Data			
Organic Vapor Reading:	Instrument:		
Sample Depth:	Core Length:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, V	Wetland, B Horizon, Outv	vash, Etc.)	
Munsell Color:	Grain Size:		
Sample Description Foreign Material:			
Appearance:			
Comments:			
		*	

Project Location: LincolnLace. sik, Providence. Sa Sample #: SS-06-1.5	SS = 06	En En	vironmen Id Servio
Sample Location Info			id beivit
Sample Data	Container	Quantity	Preservat
Date: 10/25/46 Time: 1107		1	
Date: 10/2 s/46 Time: 110 7 Sampler: KD Weather: Sampler: 60°	207	1	
Sampling Device: Auger / Core Sampler / Shovel / Split Spoon	807	1	
Trowel / Other			
Field decon: Yes / No / Pedicated			1 .
Type of Sample: Grab Composite /			
Other			
Description Data			
Organic Vapor Reading: Instrum	ient:		
Sample Depth: Core Le	ength:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, E	B Horizon, Outwash	, Etc.)	
Munsell Color: Grain S	ize:		
Sample Description Foreign Material:			
Appearance:			
Comments:			
		a l	
	•		
adfldsvc\efs\soilfds		revised	07/14/93

Soil Sampling Field Client/Project Name: R.T. DEM Project Location: Lincoln Lace Sik, Providence Sample #: SS-07-1.5	t#:96-454- mpling Locat	A-j ion En Fie	vironmental Id Services
Sample Location Info			
Sample Data	Container	Quantity	Preservative
Date: 16/25/96 Time: 11/2 Sampler: K8 Weather: Summer: 60°		Quantity	Fleservative
Sampling Device: Auger / Core Sampler / Shovel / Split Spoon Trowel / Other Field decon: Yes / No / Dedicated Type of Sample: Grad / Composite / Other	202		
Description Data			1
Organic Vapor Reading: Instrum	ent:		
Sample Depth: Core Le	ength:		
Sample Description: Sediment / Soil Type (ex. Lacustrine, Wetland, E	B Horizon, Outwash	, Etc.)	
Munsell Color: Grain S	ize:		
Sample Description Foreign Material:			
Appearance:			
Comments:			
		1	

Client/Project Name: R.Y. DEM	Project #:	- FO
Project Location: Lincon Lace + Brai	J Well ID	Environmental
Sample #:	Sar-1	Field Services

Special Instructions:

Sample Data	Container	Quantity	Preservative
Date:	VOZ	3	-
Stagnant / Dry / Other			
Filtered in Field?: No / @Vehicle Method of Filtration: Pressure / Vacuum / Syringe Pump ID # Filter ID # Field Decon: Filter / Tubing / Other Appearance:			
Comments:			

Field Parameters

Parameter	Instrument ID#	Value	Note: SC	calcula	ation t	based on (ter	mp)	at time of Se	C me	easurement.
рН	2	8.25]							
Temp	xxxxxxxxxxxxxx	15-5	(Temp)C	orr Fact	tor x	Calib Factor	x	Conductivity	/ =	Spec. Cond.
Spec. Cond.	2 xx	(XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	(-)	-	х	1502	x	550	=	560
Dissolved Ox	y 2	6.7								

Comments:

Surface Water Field	ld Data		-FO
	oject #:		Jees on Fill
Project Location: Lucolin bacet Braid	<u>Well ID</u>	Eht	ANONMENTAL
Sample #:	Sa.4	Fie	Id Services
Sample Location Info			
Special Instructions:			
Sample Data	Container	Quantity	Preservative
Date: 10/25/44 Time: 12:30			Preservative
Date: 15/25/44 Time: 12:30 Sampler: Weather:	Container VOA	Quantity 3	Preservative
Date: 10/2 Time: 12:30 Sampler: Weather:			Preservative
Date: 10/25/44 Time: 12:30 Sampler: Weather:			Preservative
Date: 10/20/44/4 Time: 12/30 Sampler: Weather: 12/30 Estimated Flow Rate (GPM)			Preservative

Field Parameters

Parameter	Instrument ID#	Value	Note: SC ca	alculatio	n t	ased on (ter	np)	at time of SC	me	asurement.
рН	2	6.5								
Temp	xxxxxxxxxxxxx	14.5	(Temp)Corr	Factor	x	Calib Factor	x	Conductivity	=	Spec. Cond.
Spec. Cond.	2	xxxxxxxxxxxx	(\neg)	-	x	1-02	х	470	=	480
Dissolved Oxy	1 2 1	50								

Comments:

Surface Water Fie	ld Data		150
	oject #:		
Project Location: Lncdn Lace + Brand	Well ID	Eh	Vironmental
Sample #:	SWIZ	Fie	Id Services
Sample Location Info			
Special Instructions:			
	Container	Quantity	Preservative
Date: 10/25/14 Time: 12/15		Quantity	Preservative
Sampler: Weather:	Container VO-J	Quantity	Preservative
Date: Time: Sampler: Weather: Estimated Flow Rate (GPM)		Quantity	Preservative
Date: Time: Sampler: Weather:		Quantity	Preservative
Date: 10 12590 Time: 12 15 Sampler: Weather: 12 15 Estimated Flow Rate (GPM)		Quantity	Preservative
Date: 10 12 5 10 0 Time: 12 12 Sampler: Weather:		Quantity	Preservative
Date: 10 12590 Time: 12 15 Sampler: Weather: 12 15 Estimated Flow Rate (GPM)		Quantity	Preservative
Date: 10/25/99 Time: 12/15 Sampler: Weather: 12/15 Estimated Flow Rate (GPM)		Quantity	Preservative
Date: 10/25/99 Time: 12/15 Sampler: Weather: 12/15 Estimated Flow Rate (GPM)		Quantity	Preservative

Field Parameters

Parameter	Instrument ID#	Value	Note: S	C calc	ulation	based or	n (terr	p)	at time of SC	C m	easurement.
pН	7	6.81									
Temp	XXXXXXXXXXXXXXX	14.3	(Temp)	Corr Fa	actor x	Calib F	actor	х	Conductivity	=	Spec. Cond.
Spec. Cond.	2	xxxxxxxxxxxxx	(-)	-	- x	1-0	7	х	HOO	=	H08
Dissolved Oxy	y 2	4.5							1.5		

41

Comments:

Surface Water Fi	ield Data	-	-50
Client/Project Name: Lincoln hace and braid Project Location: Providence N-I	Project #: Well ID	Eĥ	JISS O'NEIL
Sample #:	SW.Z	Fie	Id Services
Sample Location Info			
Special Instructions:			
Sample Data	Container	Quantity	Preservative
Date: 10125194 Time: 12100 Sampler: Weather:	Vot	3	-
Estimated Flow Rate (GPM)			-
Stagnant / Dry / Other Filtered in Field?: No / @Vehicle Method of Filtration: Pressure / Vacuum / Syringe Pump ID # Field Decon: Filter / Tubing / Other			
Appearance:			
Comments:			
	1		
Field Desematers			1
Field Parameters	and the second second second second		

Parameter	Instrument ID#	Value	Note: SC	calculatio	on t	based on (ter	np)	at time of SC	me	easurement.
рН	7	7.89								
Temp	xxxxxxxxxxxxxx	15-0	(Temp)Co	rr Factor	х	Calib Factor	x	Conductivity	=	Spec. Cond.
Spec. Cond.	6	xxxxxxxxxxxxx	(-)	-	x	1-02	х	620	=	630
Dissolved Oxy		4.2						-		2010/01/02/02

Comments:

чř.,

Client/Project Name: R.T. DEM Project Location: LincolnLace. sik, Pr Sample #: TPEL-22	Sampling Loc	ation En	vironmenta ald Service
Sample Location Info	+P1		ing bornos
6'Demountion dubris, which it-of & Ash wood & debris 1'14, 24 pip	1. norte, wood 180B		
Sample Data	Container	Quantity	Preservativ
Date: <u>10-21-96</u> Time: <u>09 11 5</u> Sampler: <u>D·H</u> Weather:	202	ł	-
Sampling Device: Auger / Core Sampler / Shovel / Trowel / Other <u>Huld</u> Field decon: Yes / No Dedicated	Split Spoon		
Type of Sample: Grab / Composite / Other			
Description Data			
Organic Vapor Reading:	Instrument:		
Sample Depth:	Core Length:		
Sample Description: Sediment / Soil Type (ex. Lacu San I. ash .	istrine, Wetland, B Horizon, Outwa	ash, Etc.)	
Munsell Color: <u>Black UI</u>	Grain Size:		
Sample Description Foreign Material: <u>Constra</u>	<u>octry debr.</u> s		
Appearance:			
Comments:			
		1	
	5	5.0	