BUILDING 44C UNDERGROUND STORAGE TANK REMOVAL REPORT ADDENDUM

MILITARY OCEAN TERMINAL (MOTBY) BAYONNE, NEW JERSEY

Prepared for

UNITED STATES ARMY CORPS OF ENGINEERS METRO AREA NEW YORK DISTRICT

Prepared by

RADIAN INTERNATIONAL
A DAMES & MOORE GROUP COMPANY

BETHESDA, MARYLAND

MARCH 31, 1999
USACE CONTRACT NO. DACA31-96-D-0026
DELIVERY ORDER NO. 0019
RADIAN PROJECT NO. 80003619

461509

Building 44c Underground Storage Tank Removal Report Addendum
Military Ocean Terminal (Motby)
Bayonne, New Jersey

Prepared for:
United States Army Corps Of Engineers
Metro Area New York District

Prepared by:
Radian International
7101 Wisconsin Avenue, Suite 700
Bethesda, Maryland 20814

Radian Project No.: 80003619

March 31, 1999

TABLE OF CONTENTS

INTRODUCTION **1-1**

1.1 SUMMARY OF ADDENDUM CONTENTS 1-1

RESTORATION ACTIVITIES **2-1**

2.1 BUILDING 44C FIRE HYDRANT INSTALLATION 2-1
2.2 BUILDING 44A EXTERIOR LIGHT 2-1
2.3 TANK AREA ASPHALT ROAD BASE 2-1

POST REMEDIATION SAMPLING **3-1**

3.1 CONFIRMATORY EXCAVATION BASE SAMPLES 3-1
3.2 CONFIRMATORY EXCAVATION SIDEWALL SAMPLES 3-2
3.3 CONFIRMATORY EXCAVATION GROUNDWATER SAMPLE 3-3

DISPOSITION OF WASTE STREAMS **4-1**

4.1 CERTIFICATES OF DESTRUCTION FOR CONTAMINATED SOIL 4-1
4.2 ANALYTICAL RESULTS FOR IDW WASTE CHARACTERIZATION 4-1
4.3 WASTE OIL AND WATER 4-1

TABLES

Table 6 Excavation Base Sample Summary
Table 7 Excavation Sidewall Sample Summary
Table 8 Confirmatory Excavation Groundwater Sample Summary
Table 9 IDW Record - Additional Results

FIGURES

Figure 6 Confirmatory Excavation Base Sample Locations
Figure 7 Confirmatory Excavation Sidewall and Groundwater Sample Locations

APPENDICES

Appendix O Asphalt Material Specification Data
Appendix P Analytical Reports
Appendix Q Certificates of Destruction for Contaminated Soil
Appendix R Test Pit Log for TP-B51
Appendix S Waste Fluid Shipping Order

LIST OF ACRONYMS

MOTBY	Military Ocean Terminal, Bayonne
Radian	Radian International LLC
SVOCs	Semi-Volatile Organic Compounds
TPH	Total Petroleum Hydrocarbons
USACE	United States Army Corps of Engineers
VOCs	Volatile Organic Compounds
WWTP	Wastewater Treatment Plant

1.0 INTRODUCTION

This Storage Tank Removal Report (addendum) has been prepared and developed by Radian International LLC (Radian) to partially fulfill the requirements of Contract No. DACA31-96-D-0026, Delivery Order No. 0019 for the U.S. Army Corps of Engineers (USACE), Metro Area New York District. This report completes documentation of remedial construction activities and compliance with applicable regulations. This Addendum supplements the "Building 44C Underground Storage Tank Removal Report, Military Ocean Terminal, Bayonne (MOTBY), Bayonne, New Jersey," dated 16 December 1998 (removal report), prepared by Radian International LLC.

1.1 Summary of Addendum Contents

Radian generated the removal report prior to completion of construction activities at the request of MOTBY and the USACE. Consequently, information necessary for complete documentation of the tank removal was not included in the removal report. Activities, documents, or results that complete the documentation are referenced to the removal report as follows:

- Excavation base soil confirmatory samples summary table and figure. The sample results were reported in the closure report, but will be presented again in the addendum in the main body of the text. These samples were referenced in section 4.6;
- Excavation sidewall soil confirmatory samples summary table and figure. These samples were referenced in section 4.6;
- Excavation groundwater confirmatory sample summary table and figure. This sample was referenced in section 4.6;
- Building 44C fire hydrant installation, referenced in section 4.10.3;
- Tank area asphalt road base construction, referenced in section 4.10.8;
- Certificates of destruction for contaminated soil, referenced in section 4.11.4.3;
- Analytical summary table and reports for contaminated soil disposal, referenced in section 4.11.4.3;
- Test pit log for TP-B51. This log was not included in the closure report, and was referenced in section 4.9. The test pit log is presented in Appendix R of this addendum.
- Disposal information for additional oil and water.

2.0 RESTORATION ACTIVITIES

The outstanding restoration activities that were not documented in the removal report are documented in this section. This section will expand on the bullet list presented in Section 1.1.

2.1 Building 44C Fire Hydrant Installation

A MOTBY subcontractor installed the fire hydrant adjacent to the northwest corner of Building 44C on 21 December 1998. The fire hydrant was connected to a branch line from the twelve-inch diameter water main. The valve box for the fire hydrant was installed at an elevation below the finish grade of the asphalt. A 9-1/2 inch PVC sleeve was placed around the valve box prior to paving to allow future access.

2.2 Building 44A Exterior Light

The Building 44A exterior light was removed to facilitate cofferdam installation and removal. During construction MOTBY needed components from the light fixture and removed it from the construction site. Kachmar Electric of Bayonne, New Jersey installed a new light fixture on 28 December 1999 in accordance to local and national electric codes.

2.3 Tank Area Asphalt Road Base

The tank area asphalt road base construction was performed between 19 January 1999 and 21 January 1999. The select fill (255.37 tons), asphalt binder coarse (251.27 tons), and topcoat (225.12 tons) were provided by Braen Stone Industries, Inc. of Haledon, NJ. Select fill used to backfill the excavation consisted of 1/2-inch quarry process aggregate. Material specification data for the binder and topcoat are provided in Appendix O.

The excavation was backfilled with select fill at a depth of six inches to raise the final subgrade elevation. The select fill was spread using a Caterpillar BG 225 B asphalt paver and compacted in place using a Caterpillar CB 534C vibratory drum roller. The select fill was sloped to allow drainage from the edges of surrounding building to existing stormwater sewer inlets.

The binder coarse was placed within the limits of the excavation. Miscellaneous pieces of loose asphalt and concrete were removed from the edges of the excavation. A tack coat was placed on all edges of existing asphalt and concrete. The binder was placed at a thickness of 2-1/2 to 4 inches utilizing the Caterpillar BG 225 B asphalt paver and compacted in place using the Caterpillar CB 534C vibratory drum roller.

The topcoat of asphalt was applied over the binder course and adjacent asphalt that had been disturbed throughout the construction process. The topcoat was placed from the north side of Building 44A northward to the railroad tracks, and westward from Building 44C to the western edge of the AST containment structure. Dirt and debris were removed from the existing asphalt surface prior to asphalt placement using a vacuum sweeper. A tack coat was applied over the binder coarse and existing asphalt. The topcoat was placed at a thickness of 1-1/2 inches utilizing the Caterpillar BG 225 B asphalt paver and compacted in place using the Caterpillar CB 534C vibratory drum roller. At existing appurtenances and edges of the topcoat the asphalt was feathered to form a smooth transition in surface elevation.

Six test pits, located in asphalt road base, were restored using 1-1/2 inches of topcoat. The subgrade was compacted, a tack coat applied at the edges of the pits, and topcoat applied. The six test pits restored are: TP-06, TP-07, TP-16, TP-15, TP-14, and TP-B51. Refer to Figure 3 of the Removal Report for locations.

3.0 POST REMEDIATION SAMPLING

Post remediation sample analytical results were not available at the time the removal report was generated. GPL Environmental Laboratories Inc. of Gaithersburg, Maryland provided analytical services.

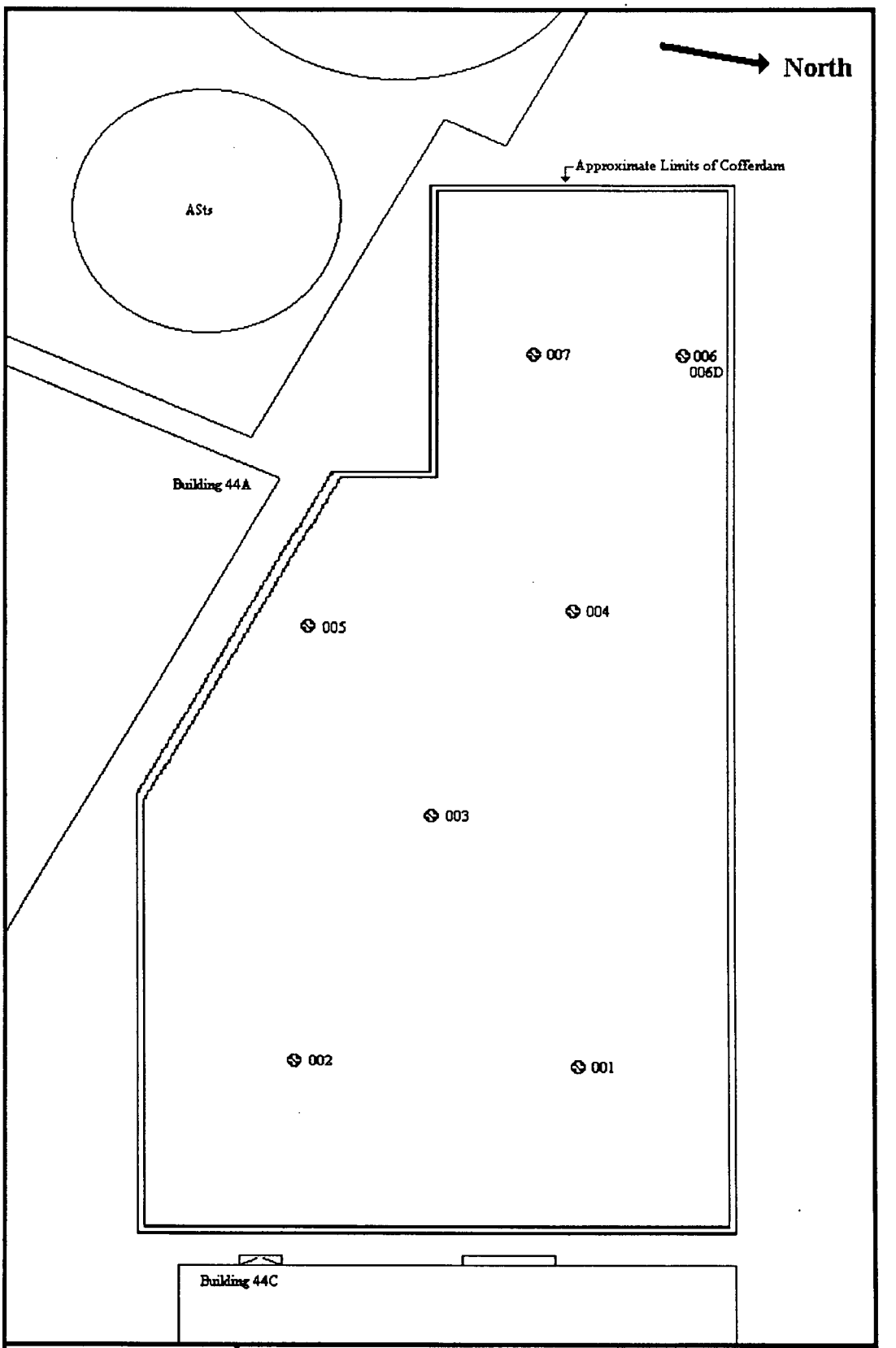
3.1 Confirmatory Excavation Base Samples

Seven base samples were collected from the excavation after the removal of all visually contaminated soil. Confirmatory excavation base samples were collected and analyzed in accordance with NJAC 7:26E. All sample results were less than the non-residential direct contact and impact to groundwater regulatory limits for each contaminant. The summary results for the samples are as follows:

Table 6 - Base Soil Confirmation Samples

Results in mg/kg Sample ID	MB-PRC-EXCAV BASE-001	MB-PRC-EXCAV BASE-002	MB-PRC-EXCAV BASE-003	MB-PRC-EXCAV BASE-004	MB-PRC-EXCAV BASE-005	MB-PRC-EXCAV BASE-006	MB-PRC-EXCAV BASE-006D	MB-PRC-EXCAV BASE-007
Sample Date	11/4/98	11/4/98	11/4/98	11/4/98	11/4/98	11/18/98	11/18/98	11/18/98
Naphthalene	<7.30	0.057 J	<0.430	<0.400	<7.80	0.890 JD	<0.400	<0.420
2-Methylnaphthalene	2.3 JD	0.280 J	<0.430	0.085 J	<7.80	3.40 JD	0.6900	<0.420
Acenaphthene	1.2 JD	<0.510	<0.430	<0.400	0.970 JD	<4.20	<0.400	<0.420
Flourene	<7.30	<0.510	<0.430	<0.400	0.980 JD	<4.20	<0.400	<0.420
Diethylphthalate	<7.30	<0.510	<0.430	<0.400	<7.80	<4.20	0.057 JB	<0.420
N-nitrosodiphenylamine	<7.30	<0.510	<0.430	<0.400	<7.80	3.10 JD	0.940	<0.420
Phenanthrene	5.8 JD	0.140 J	<0.430	0.110 J	5.50 JD	2.50 JD	0.720	<0.420
Anthracene	<7.30	<0.510	<0.430	<0.400	1.30 JD	0.570 JD	0.170 J	<0.420
Flouranthene	0.86 JD	<0.510	<0.430	<0.400	<7.80	<4.20	0.071 J	<0.420
Pyrene	3.5 JD	0.130 J	0.055 J	0.110 J	4.40 JD	1.60 JD	0.380 J	0.062 J
Benzo[a]anthracene	1.1 JD	<0.510	<0.430	<0.400	0.910 JD	<4.20	0.130 J	0.046 J
Chrysene	1.5 JD	<0.510	<0.430	<0.400	1.20 JD	0.610 JD	0.170 J	0.055 J
Bis(2-Ethylhexyl)phthalate	<7.30	0.053 J	<0.430	<0.400	<7.80	<4.20	<0.400	<0.420
Benzo[b]flouranthene	<7.30	<0.510	<0.430	<0.400	<7.80	<4.20	0.043	0.049 J
Benzo[k]flouranthene	<7.30	<0.510	<0.430	<0.400	<7.80	<4.20	<0.400	0.062 J
Benzo[a]pyrene	<7.30	<0.510	<0.430	<0.400	<7.80	<4.20	0.065	0.080 J
Indeno[1,2,3-cd]pyrene	<7.30	<0.510	<0.430	<0.400	<7.80	<4.20	<0.400	0.046JB
Benzo[g,h,I]perylene	<7.30	<0.510	<0.430	<0.400	<7.80	<4.20	0.044 JB	0.052 JB
TPH (mg/Kg)	6480	198	190	422	4410	57.1	70.2	32
% Solids	91	64.8	76.6	83.6	85.8	79.5	82.9	78.6

Analytical reports are presented in Appendix P of this addendum. Sample locations are indicated in Figure 6.



RADIAN INTERNATIONAL LLC

Excavation Base Sample Location			FIGURE 6
Building 44C Underground Storage Tank Removal	Military Ocean Terminal Bayonne, NJ		
Scale: N.T.S.	Project Number: 80003619	Date: 3/19/99	

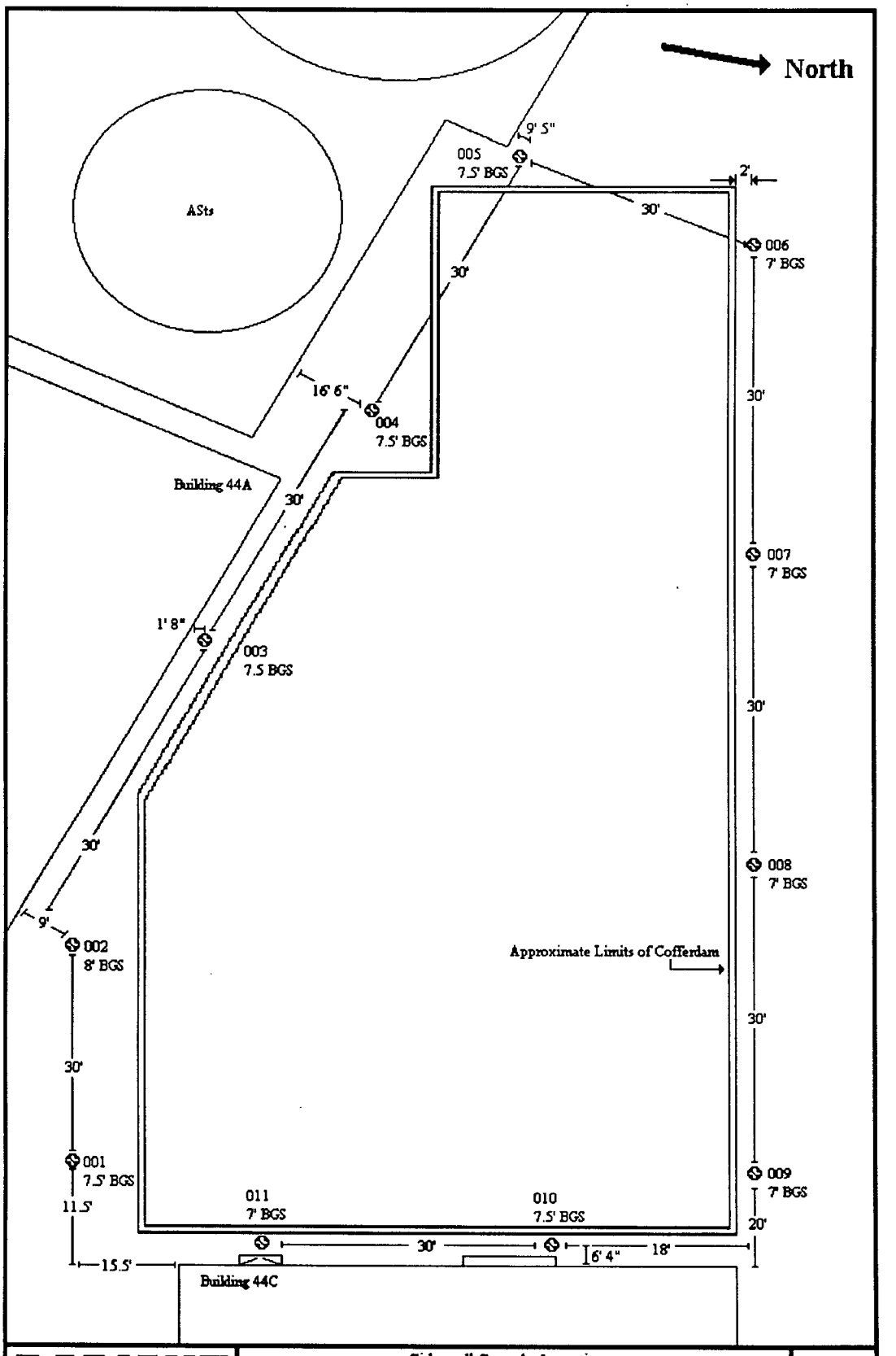
3.2 Confirmatory Excavation Sidewall Samples

Eleven sidewall samples were collected from the excavation sidewalls, through the sheetpiles. Confirmatory excavation sidewall samples were collected and analyzed in accordance with NJAC 7:26E. All sample results were less than the non-residential direct contact and impact to groundwater regulatory limits for each contaminant. Two samples exceeded the regulatory limit for TPH. The summary results for the samples are as follows:

Table 7 - Sidewall Soil Confirmation Samples

Results in mg/kg Sample ID	MB-PRC-Sidewall-001	MB-PRC-Sidewall-002	MB-PRC-Sidewall-003	MB-PRC-Sidewall-004	MB-PRC-Sidewall-005	MB-PRC-Sidewall-006	MB-PRC-Sidewall-007	MB-PRC-Sidewall-008	MB-PRC-Sidewall-009	MB-PRC-Sidewall-010	MB-PRC-Sidewall-011
Sample Date	12/14/98	12/14/98	12/14/98	12/14/98	12/14/98	12/14/98	12/14/98	12/14/98	12/14/98	12/14/98	12/14/98
Naphthalene	<3.90	<3.90	<7.80	<3.60	<19.0	<4.00	1.10 JD	<3.70	<3.70	<.370	<3.80
2-Methyl - naphthalene	<3.90	<3.90	0.810 JD	<3.60	<19.0	<4.00	3.30 JD	<3.70	<3.70	<.370	420 D
Acenaphthene	<3.90	<3.90	1.10 JD	<3.60	<19.0	2.00 JD	<3.80	<3.70	<3.70	<.370	<3.80
1,3-Dichloro - benzene	<3.90	<3.90	<7.80	<3.60	<19.0	<4.00	<3.80	<3.70	<3.70	<.370	1.40 JD
1,4-Dichloro - benzene	<3.90	<3.90	<7.80	<3.60	<19.0	<4.00	<3.80	<3.70	<3.70	<.370	2.50 JD
1,2,4-Trichloro - benzene	<3.90	<3.90	<7.80	<3.60	<19.0	<4.00	<3.80	<3.70	<3.70	<.370	0.520 JD
Phenanthrene	<3.90	<3.90	2.10 JD	<3.60	<19.0	<4.00	2.10 JD	0.430 JD	3.30 JD	<.370	3.70 JD
Flouranthene	<3.90	<3.90	<7.80	<3.60	4.30 JD	<4.00	<3.80	<3.70	<3.70	<.370	<3.80
Pyrene	0.430 JD	<3.90	1.40 JD	0.450 JD	<19.0	3.30 JD	1.00 JD	0.530 JD	3.10 JD	<.370	2.20 JD
Bis(2-Ethylhexyl) - phthalate	<3.90	<3.90	0.830 JD	<3.60	<19.0	<4.00	<3.80	<3.70	<3.70	<.370	<3.80
TPH (mg/Kg)	66.2	110	2960	346	10400	19800	256	1920	3860	55.0	6280
% Solids	85.2	84.7	85.6	91.8	88.5	83.8	86.8	91.4	88.8	88.9	88.0

Analytical reports are presented in Appendix P of this addendum. Sample locations are indicated in Figure 7.



RADIAN INTERNATIONAL LLC	Sidewall Sample Locations		FIGURE 7
	Building 44C Underground Storage Tank Removal	Military Ocean Terminal Bayonne, NJ	
	Scale: N.T.S.	Project Number: 80003619	Date: 3/19/99

3.3 Confirmatory Excavation Groundwater Sample

The confirmatory excavation groundwater sample was collected from a pit excavated on the hydraulically down gradient (north) side of the excavation at the perimeter of the Cofferdam, after the sheeting was removed. The sample results were less than the Class II-A groundwater quality criteria regulatory limits for each contaminant. The summary results for the samples are as follows:

Table 8 - Groundwater Confirmation Sample

Sample ID	MB-PRC-GWSAMP-001
Sample Date	12/22/98
Semivolatiles	
2-Methylnaphthalene	3 J
Phenanthrene	2 J
Volatiles	
Methylene Chloride	9 B
1,1-Dichloroethene	1 J
Chloroform	4 J
4-Methyl-2-pentanone	2 J

Analytical reports are presented in Appendix P of this addendum.

4.0 DISPOSITION OF WASTE STREAMS

Some of the waste stream disposal documentation was not available at the time the removal report was generated. This section will complete the required documentation.

4.1 Certificates of Destruction for Contaminated Soil

R3 Technologies of Morrisville, PA disposed of the contaminated soil from the excavation. Certificates of Destruction are presented in Appendix Q.

4.2 Analytical Results for IDW Waste Characterization

Additional analytical results for IDW waste characterization are presented in Table 9 of this addendum. Analytical reports are presented in Appendix P of this addendum.

4.3 Waste Oil and Water

Auchter Industrial Vac Service, Inc. of Linden, NJ removed the 694 gallons of fuel oil and water remaining from the electric manhole cleaning operation on 12 December 1998. The recovered fluid was transported to IPC of Wilmington, Delaware for recycling. The shipping order for the fluid is presented in Appendix S.

Table 6

Excavation Base Sample Summary

Base Soil Confirmation Record
MOTBY Tank Removal at Building 44C
Bayonne, NJ
Radian Project No 80003619
Results in mg/kg

Sample ID	Residential Direct Contact (mg/kg)	Non-Residential Direct Contact (mg/Kg)	Impact to Groundwater (mg/Kg)	MB-PRC-EXCAV BASE-001	MB-PRC-EXCAV BASE-002	MB-PRC-EXCAV BASE-003	MB-PRC-EXCAV BASE-004	MB-PRC-EXCAV BASE-005	MB-PRC-EXCAV BASE-006	MB-PRC-EXCAV BASE-006D	MB-PRC-EXCAV BASE-007
Sample Date				11/4/98	11/4/98	11/4/98	11/4/98	11/4/98	11/18/98	11/18/98	11/18/98
Naphthalene	230	4200	100	<7.30	0.057 J	<0.430	<0.400	<7.80	0.890 JD	<0.400	<0.420
2-Methylnaphthalene	NA	NA	NA	2.3 JD	0.280 J	<0.430	0.085 J	<7.80	3.40 JD	0.6900	<0.420
Acenaphthene	3400	10000	100	1.2 JD	<0.510	<0.430	<0.400	0.970 JD	<4.20	<0.400	<0.420
Flourene	2300	10000	100	<7.30	<0.510	<0.430	<0.400	0.980 JD	<4.20	<0.400	<0.420
Diethylphthalate	10000	10000	50	<7.30	<0.510	<0.430	<0.400	<7.80	<4.20	0.057 JB	<0.420
N-nitrosodiphenylamine	140	600	100	<7.30	<0.510	<0.430	<0.400	<7.80	3.10 JD	0.940	<0.420
Phenanthrene	NA	NA	NA	5.8 JD	0.140 J	<0.430	0.110 J	5.50 JD	2.50 JD	0.720	<0.420
Anthracene	10000	10000	100	<7.30	<0.510	<0.430	<0.400	1.30 JD	0.570 JD	0.170 J	<0.420
Flouranthene	2300	10000	100	0.86 JD	<0.510	<0.430	<0.400	<7.80	<4.20	0.071 J	<0.420
Pyrene	1700	10000	100	3.5 JD	0.130 J	0.055 J	0.110 J	4.40 JD	1.60 JD	0.380 J	0.062 J
Benzo[a]anthracene	0.9	4	500	1.1 JD	<0.510	<0.430	<0.400	0.910 JD	<4.20	0.130 J	0.046 J
Chrysene	9	40	500	1.5 JD	<0.510	<0.430	<0.400	1.20 JD	0.610 JD	0.170 J	0.055 J
Bis(2-Ethylhexyl)phthalate	49	210	100	<7.30	0.053 J	<0.430	<0.400	<7.80	<4.20	<0.400	<0.420
Benzo[b]flouranthene	0.9	4	50	<7.30	<0.510	<0.430	<0.400	<7.80	<4.20	0.043	0.049 J
Benzo[k]flouranthene	0.9	4	500	<7.30	<0.510	<0.430	<0.400	<7.80	<4.20	<0.400	0.062 J
Benzo[a]pyrene	0.66	0.66	100	<7.30	<0.510	<0.430	<0.400	<7.80	<4.20	0.065	0.080 J
Indeno[1,2,3-cd]pyrene	0.9	4	500	<7.30	<0.510	<0.430	<0.400	<7.80	<4.20	<0.400	0.046JB
Benzo[g,h,I]perylene	NA	NA	NA	<7.30	<0.510	<0.430	<0.400	<7.80	<4.20	0.044 JB	0.052 JB
TPH (mg/Kg)	NA	NA	NA	6480	198	190	422	4410	57.1	70.2	32
% Solids	NA	NA	NA	91	64.8	76.6	83.6	85.8	79.5	82.9	78.6

Table 7

Excavation Sidewall Sample Summary

Sidewall Soil Confirmation Record
MOTBY Tank Removal at Building 44C
Bayonne, NJ
Radian Project No 80003619
Results in mg/kg

Sample ID	Residential Direct Contact (mg/kg)	Non-Residential Direct Contact (mg/Kg)	Impact to Groundwater (mg/Kg)	MB-PRC-Sidewall-001	MB-PRC-Sidewall-002	MB-PRC-Sidewall-003	MB-PRC-Sidewall-004	MB-PRC-Sidewall-005	MB-PRC-Sidewall-006	MB-PRC-Sidewall-007	MB-PRC-Sidewall-008	MB-PRC-Sidewall-009
Sample Date				12/14/98	12/14/98	12/14/98	12/14/98	12/14/98	12/14/98	12/14/98	12/14/98	12/14/98
Naphthalene	230	4200	100	<3.90	<3.90	<7.80	<3.60	<19.0	<4.00	1.10 JD	<3.70	<3.70
2-Methylnaphthalene	NA	NA	NA	<3.90	<3.90	0.810 JD	<3.60	<19.0	<4.00	3.30 JD	<3.70	<3.70
Acenaphthene	3400	10000	100	<3.90	<3.90	1.10 JD	<3.60	<19.0	2.00 JD	<3.80	<3.70	<3.70
1,3-Dichlorobenzene	5100	1000	100	<3.90	<3.90	<7.80	<3.60	<19.0	<4.00	<3.80	<3.70	<3.70
1,4-Dichlorobenzene	570	10000	100	<3.90	<3.90	<7.80	<3.60	<19.0	<4.00	<3.80	<3.70	<3.70
1,2,4-Trichlorobenzene	68	1200	100	<3.90	<3.90	<7.80	<3.60	<19.0	<4.00	<3.80	<3.70	<3.70
Phenanthrene	NA	NA	NA	<3.90	<3.90	2.10 JD	<3.60	<19.0	<4.00	2.10 JD	0.430 JD	3.30 JD
Flouranthene	2300	10000	100	<3.90	<3.90	<7.80	<3.60	4.30 JD	<4.00	<3.80	<3.70	<3.70
Pyrene	1700	10000	100	0.430 JD	<3.90	1.40 JD	0.450 JD	<19.0	3.30 JD	1.00 JD	0.530 JD	3.10 JD
Bis(2-Ethylhexyl)phthalate	49	210	100	<3.90	<3.90	0.830 JD	<3.60	<19.0	<4.00	<3.80	<3.70	<3.70
TPH (mg/Kg)	NA	NA	NA	66.2	110	2960	346	10400	19800	256	1920	3860
% Solids	NA	NA	NA	85.2	84.7	85.6	91.8	88.5	83.8	86.8	91.4	88.8

Note: Regulatory limits taken from te NJDEP Guidance Document for the Remediation of Contaminated Soils, January 1998.

Sidewall Soil Confirmation Record
MOTBY Tank Removal at Building 44C
Bayonne, NJ
Radian Project No 80003619
Results in mg/kg

Sample ID	Residential Direct Contact (mg/kg)	Non-Residential Direct Contact (mg/Kg)	Impact to Groundwater (mg/Kg)	MB-PRC-Sidewall-010	MB-PRC-Sidewall-011
Sample Date				12/14/98	12/14/98
Naphthalene	230	4200	100	<.370	<3.80
2-Methylnaphthalene	NA	NA	NA	<.370	420 D
Acenaphthene	3400	10000	100	<.370	<3.80
1,3-Dichlorobenzene	5100	1000	100	<.370	1.40 JD
1,4-Dichlorobenzene	570	10000	100	<.370	2.50 JD
1,2,4-Trichlorobenzene	68	1200	100	<.370	0.520 JD
Phenanthrene	NA	NA	NA	<.370	3.70 JD
Flouranthene	2300	10000	100	<.370	<3.80
Pyrene	1700	10000	100	<.370	2.20 JD
Bis(2-Ethylhexyl)phthalate	49	210	100	<.370	<3.80
TPH (mg/Kg)	NA	NA	NA	55.0	6280
% Solids	NA	NA	NA	88.9	88.0

Note: Regulatory limits taken from te NJDEP Guidance Document for the Remediation of Contaminated Soils, January 1998.

Table 8

Confirmatory Excavation Groundwater Sample Summary

Groundwater Confirmation Record
MOTBY Tank Removal at Building 44C
Bayonne, NJ
Radian Project No 80003619

Results in µg/L

Sample ID	NJDEP Class-II-A Aquifer: Groundwater Quality Criteria (µg/L)	Practical Quantitation Levels (PQLs) (µg/L)	Higher of PQLs and Groundwater Quality Criteria (µg/L)	MB-PRC-GWSAMP-001
Sample Date				12/22/98
Semivolatiles				
2-Methylnaphthalene	NA	NA	NA	3 J
Phenanthrene	NA	10	NA	2 J
Volatiles				
Methylene Chloride	2	2	2	9 B
1,1-Dichloroethene	1	2	2	1 J
Chloroform	6	1	6	4 J
4-Methyl-2-pentanone	400	NA	400	2 J
2-Hexanone	NA	NA	NA	1 J

Table 9

IDW Record - Additional Results

IDW RECORD
MOTBY Tank Removal at Building 44C
Bayonne, NJ
Radian Project No 80003619

Sample ID	Residential Direct Contact (mg/kg)	Non-Residential Direct Contact (mg/Kg)	Impact to Groundwater (mg/Kg)	MB-IDW-SP03-001 (QUAD 1)	Flag	MB-IDW-SP03-001 (QUAD 2)	Flag	MB-IDW-SP03-001 (QUAD 3)	Flag	MB-IDW-SP03-001 (QUAD 4)	Flag
Sample Date				11/11/98		11/11/98		11/11/98		11/11/98	
Matrix				Soil		Soil		Soil		Soil	
Methylene Chloride (mg/Kg)	49	210	1	0.014	B	0.029	B	7	B	0.015	B
Carbon Disulfide (mg/Kg)	NA	NA	NA					0.009			
Toluene (mg/Kg)	1000	1000	500								
Chlorobenzene (mg/Kg)	37	680	1	0.015		0.020		0.009		0.006	
Ethylbenzene (mg/Kg)	1000	1000	100	0.005	J	0.008		0.002	J	0.002	J
Xylene (TOTAL) (mg/Kg)	410	1000	10	0.008		0.009		0.003	J	0.005	J
Chloroform (mg/Kg)				0.002	JB	0.002	JB	0.002	JB	0.002	JB
2-Butanone (mg/Kg)						0.009	JB	0.007	J		
Trichloroethene (mg/Kg)						0.002	J			0.002	J
Acetone(mg/Kg)											
% Solids	NA	NA	NA	89.2		88.6		87.8		83.4	
2-Methylnaphthalene (mg/Kg)	NA	NA	NA								
N-nitrosodiphenylamine (mg/Kg)	140	600	100								
Anthracene (mg/Kg)	10000	10000	100								
Flouranthene (mg/Kg)	2300	10000	100								
Pyrene (mg/Kg)	1700	10000	100								
Bis(2-Ethylhexyl)phthalate (mg/Kg)	49	210	100								
Acenaphthene (mg/Kg)											
Flourene (mg/Kg)											
Phenanthrene (mg/Kg)											
Benzo[a]anthracene (mg/Kg)											
Chrysene (mg/Kg)											
Benzo[a]pyrene (mg/Kg)											
GRO (mg/Kg)											
Aroclor 1254(mg/Kg)	NA	NA	NA								
Aroclor 1260 (mg/Kg)	NA	NA	NA								
DRO (mg/kg)	NA	NA	NA								
Flash Point (°C)	NA	NA	NA								
Mercury (mg/Kg)	14	270	NA								
Silver (mg/Kg)	110	4100	NA								
Aluminum (mg/Kg)	NA	NA	NA								
Arsenic (mg/Kg)	20	20	NA								
Barium (mg/Kg)	700	47000	NA								
Beryllium (mg/Kg)	1	1	NA								
Calcium (mg/Kg)	NA	NA	NA								
Cadmium (mg/Kg)	1	100	NA								
Cobalt (mg/Kg)	NA	NA	NA								
Chromium (mg/Kg)	NA	NA	NA								
Copper (mg/Kg)	600	600	NA								
Iron (mg/Kg)	NA	NA	NA								
Potassium (mg/Kg)	NA	NA	NA								
Magnesium (mg/Kg)	NA	NA	NA								

IDW RECORD
MOTBY Tank Removal at Building 44C
Bayonne, NJ
Radian Project No 80003619

Sample ID	Residential Direct Contact (mg/kg)	Non-Residential Direct Contact (mg/Kg)	Impact to Groundwater (mg/Kg)	MB-IDW-SP03-001 (QUAD 1)	Flag	MB-IDW-SP03-001 (QUAD 2)	Flag	MB-IDW-SP03-001 (QUAD 3)	Flag	MB-IDW-SP03-001 (QUAD 4)	Flag
Manganese (mg/Kg)	NA	NA	NA								
Sodium (mg/Kg)	NA	NA	NA								
Nickel (mg/Kg)	250	2400	NA								
Lead (mg/Kg)	400	600	NA								
Antimony (mg/Kg)	14	340	NA								
Selenium (mg/Kg)	63	3100	NA								
Thallium (mg/Kg)	2	2	NA								
Vanadium (mg/Kg)	370	7100	NA								
Zinc (mg/Kg)	1500	1500	NA								
Reactive Cyanide (mg/Kg)	NA	NA	NA								
Total Cyanide (mg/Kg)	1100	21000	NA								
Oil & Grease (mg/Kg)	NA	NA	NA								
pH (s.u.)	NA	NA	NA								
Reactive Sulfide (mg/L)	NA	NA	NA								
Percent Solids	NA	NA	NA								

IDW RECORD
MOTBY Tank Removal at Building 44C
Bayonne, NJ
Radian Project No 80003619

Sample ID	Residential Direct Contact (mg/kg)	Non-Residential Direct Contact (mg/Kg)	Impact to Groundwater (mg/Kg)	MB-IDW-SP04-001 (QUAD 1)	Flag	MB-IDW-SP04-001 (QUAD 2)	Flag	MB-IDW-SP04-001 (QUAD 3)	Flag	MB-IDW-SP04-001 (QUAD 4)	Flag
Sample Date				11/11/98		11/11/98		11/11/98		11/11/98	
Matrix				Soil		Soil		Soil		Soil	
Methylene Chloride (mg/Kg)	49	210	1	0.037	B	0.022	B	0.037	B	0.024	B
Carbon Disulfide (mg/Kg)	NA	NA	NA								
Toluene (mg/Kg)	1000	1000	500								
Chlorobenzene (mg/Kg)	37	680	1	0.010						0.013	
Ethylbenzene (mg/Kg)	1000	1000	100	0.002	J			0.003	J	0.003	J
Xylene (TOTAL) (mg/Kg)	410	1000	10	0.002	J			0.019		0.002	J
Chloroform (mg/Kg)				0.002	JB	0.002	JB	0.002	JB	0.002	JB
2-Butanone (mg/Kg)				0.008	JB	0.010	B	0.032	B		
Trichloroethene (mg/Kg)				0.002	J	0.001	J	0.002	J	0.001	J
Acetone(mg/Kg)								0.062			
% Solids	NA	NA	NA	89.4		93.8		91.3		89.3	
2-Methylnaphthalene (mg/Kg)	NA	NA	NA								
N-nitrosodiphenylamine (mg/Kg)	140	600	100								
Anthracene (mg/Kg)	10000	10000	100								
Flouranthene (mg/Kg)	2300	10000	100								
Pyrene (mg/Kg)	1700	10000	100								
Bis(2-Ethylhexyl)phthalate (mg/Kg)	49	210	100								
Acenaphthene (mg/Kg)											
Flourene (mg/Kg)											
Phenanthrene (mg/Kg)											
Benzo[a]anthracene (mg/Kg)											
Chrysene (mg/Kg)											
Benzo[a]pyrene (mg/Kg)											
GRO (mg/Kg)											
Aroclor 1254(mg/Kg)	NA	NA	NA								
Aroclor 1260 (mg/Kg)	NA	NA	NA								
DRO (mg/kg)	NA	NA	NA								
Flash Point (°C)	NA	NA	NA								
Mercury (mg/Kg)	14	270	NA								
Silver (mg/Kg)	110	4100	NA								
Aluminum (mg/Kg)	NA	NA	NA								
Arsenic (mg/Kg)	20	20	NA								
Barium (mg/Kg)	700	47000	NA								
Beryllium (mg/Kg)	1	1	NA								
Calcium (mg/Kg)	NA	NA	NA								
Cadmium (mg/Kg)	1	100	NA								
Cobalt (mg/Kg)	NA	NA	NA								
Chromium (mg/Kg)	NA	NA	NA								
Copper (mg/Kg)	600	600	NA								
Iron (mg/Kg)	NA	NA	NA								
Potassium (mg/Kg)	NA	NA	NA								
Magnesium (mg/Kg)	NA	NA	NA								

IDW RECORD
MOTBY Tank Removal at Building 44C
Bayonne, NJ
Radian Project No 80003619

Sample ID	Residential Direct Contact (mg/kg)	Non-Residential Direct Contact (mg/Kg)	Impact to Groundwater (mg/Kg)	MB-IDW-SP04-001 (QUAD 1)	Flag	MB-IDW-SP04-001 (QUAD 2)	Flag	MB-IDW-SP04-001 (QUAD 3)	Flag	MB-IDW-SP04-001 (QUAD 4)	Flag
Manganese (mg/Kg)	NA	NA	NA								
~~Sodium (mg/Kg)~~	~~NA~~	~~NA~~	~~NA~~								
Nickel (mg/Kg)	250	2400	NA								
Lead (mg/Kg)	400	600	NA								
Antimony (mg/Kg)	14	340	NA								
Selenium (mg/Kg)	63	3100	NA								
Thallium (mg/Kg)	2	2	NA								
Vanadium (mg/Kg)	370	7100	NA								
Zinc (mg/Kg)	1500	1500	NA								
Reactive Cyanide (mg/Kg)	NA	NA	NA								
Total Cyanide (mg/Kg)	1100	21000	NA								
Oil & Grease (mg/Kg)	NA	NA	NA								
pH (s.u.)	NA	NA	NA								
Reactive Sulfide (mg/L)	NA	NA	NA								
Percent Solids	NA	NA	NA								

IDW RECORD
MOTBY Tank Removal at Building 44C
Bayonne, NJ
Radian Project No 80003619

Sample ID	Residential Direct Contact (mg/kg)	Non-Residential Direct Contact (mg/Kg)	Impact to Groundwater (mg/Kg)	MB-IDW-TB 003	Flag	MB-IDW-SP03-001	Flag	MB-IDW-SP04-001	Flag
Sample Date				11/11/98		Lab Composite		Lab Composite	
Matrix				Aqueous		Soil		Soil	
Methylene Chloride (mg/Kg)	49	210	1	0.003	JB				
Carbon Disulfide (mg/Kg)	NA	NA	NA						
Toluene (mg/Kg)	1000	1000	500						
Chlorobenzene (mg/Kg)	37	680	1						
Ethylbenzene (mg/Kg)	1000	1000	100						
Xylene (TOTAL) (mg/Kg)	410	1000	10						
Chloroform (mg/Kg)									
2-Butanone (mg/Kg)									
Trichloroethene (mg/Kg)									
Acetone(mg/Kg)									
% Solids	NA	NA	NA						
2-Methylnaphthalene (mg/Kg)	NA	NA	NA			1.10	JD	0.620	JD
N-nitrosodiphenylamine (mg/Kg)	140	600	100			8.80	D	7.50	D
Anthracene (mg/Kg)	10000	10000	100			1.10	JD	0.730	JD
Flouranthene (mg/Kg)	2300	10000	100			0.760	JD	0.590	JD
Pyrene (mg/Kg)	1700	10000	100			3.50	D	2.1	JD
Bis(2-Ethylhexyl)phthalate (mg/Kg)	49	210	100						
Acenaphthene (mg/Kg)						1.50	JD	1.10	JD
Flourene (mg/Kg)						1.80	JD	1.50	JD
Phenanthrene (mg/Kg)						6.50	D	4.20	D
Benzo[a]anthracene (mg/Kg)						1.20	JD	0.680	JD
Chrysene (mg/Kg)						1.40	JD	1.20	JD
Benzo[a]pyrene (mg/Kg)						0.520	JD	0.400	JD
GRO (mg/Kg)						7.14		8.21	
Aroclor 1254(mg/Kg)	NA	NA	NA						
Aroclor 1260 (mg/Kg)	NA	NA	NA			0.460		20	
DRO (mg/kg)	NA	NA	NA			2032.2		3448.2	
Flash Point (°C)	NA	NA	NA			N		N	
Mercury (mg/Kg)	14	270	NA			0.06		0.04	
Silver (mg/Kg)	110	4100	NA			<0.46		<0.37	
Aluminum (mg/Kg)	NA	NA	NA			6,380		5,930	
Arsenic (mg/Kg)	20	20	NA			3.0		3.0	
Barium (mg/Kg)	700	47000	NA			32.7		37.2	
Beryllium (mg/Kg)	1	1	NA			<0.46		0.37	
Calcium (mg/Kg)	NA	NA	NA			11,100		19,900	
Cadmium (mg/Kg)	1	100	NA			<0.46		<0.37	
Cobalt (mg/Kg)	NA	NA	NA			4.8		4.3	
Chromium (mg/Kg)	NA	NA	NA			10.7		11.8	
Copper (mg/Kg)	600	600	NA			15.4		18.7	
Iron (mg/Kg)	NA	NA	NA			11,700		11,800	
Potassium (mg/Kg)	NA	NA	NA			1,530		1,230	
Magnesium (mg/Kg)	NA	NA	NA			2,680		2,530	

IDW RECORD
MOTBY Tank Removal at Building 44C
Bayonne, NJ
Radian Project No 80003619

Sample ID	Residential Direct Contact (mg/kg)	Non-Residential Direct Contact (mg/Kg)	Impact to Groundwater (mg/Kg)	MB-IDW-TB 003	Flag	MB-IDW-SP03-001	Flag	MB-IDW-SP04-001	Flag
Manganese (mg/Kg)	NA	NA	NA			146		149	
~~Sodium (mg/Kg)~~	~~NA~~	~~NA~~	~~NA~~			418		479	
Nickel (mg/Kg)	250	2400	NA			12.3		14.2	
Lead (mg/Kg)	400	600	NA			13.3		20.5	
Antimony (mg/Kg)	14	340	NA			<0.77		<0.62	
Selenium (mg/Kg)	63	3100	NA			<0.77		<0.62	
Thallium (mg/Kg)	2	2	NA			<1.5		<1.2	
Vanadium (mg/Kg)	370	7100	NA			18.1		38.9	
Zinc (mg/Kg)	1500	1500	NA			39.6		56.6	
Reactive Cyanide (mg/Kg)	NA	NA	NA			0.03		<0.24	
Total Cyanide (mg/Kg)	1100	21000	NA			0.71		0.26	
Oil & Grease (mg/Kg)	NA	NA	NA			609		702	
pH (s.u.)	NA	NA	NA			10		9.95	
Reactive Sulfide (mg/L)	NA	NA	NA			14		17.5	
Percent Solids	NA	NA	NA			89.8		92.5	

Appendix O
Asphalt Material Specification Data

NEW JERSEY DEPARTMENT OF TRANSPORTATION
PRODUCER'S ANALYSIS OF MATERIALS AND JOB MIX FORMULA
(FIVE POINT MARSHALL DESIGN)

DATE: 2/12/99

PRODUCER : STONE INDUSTRIES INC. PLANT LOCATION: HALEDON, N. J.
PROJECT: Military Ocean Terminal, Bayonne, N.J.
CONTRACTOR: Tarheels Enterprises / Amiral Const.
MIX NUMBER: 1-2 COURSE BASE BATCH SIZE (LBS.) 4,000 (KGMS.) 1814
VERIFICATION MARSHALL PLUG - LABORATORY SERIAL NO. R2B0042 RICE GM. 2.673

JOB MIX FORMULA

	%	POUNDS	Kgms.	COMPONENTS - PRODUCER AND LOCATION
BIN 5				
BIN 4	38.4	1536	697	STONE INDUSTRIES INC., HALEDON, N.J.
BIN 3	19.2	768	348	" " "
BIN 2	11.5	460	209	STONE INDUSTRIES INC., HALEDON, N.J.
BIN 1	24.9	996	452	STONE INDUSTRIES INC., HALEDON 40% VAN ORDEN SAND & GRAVEL, RINGWOOD, N. J. 60%
FILLER	1.9	76	34	BAGHOUSE FINES - STONE INDUSTRIES INC.
ASPHALT CEMENT	4.1	164	74	CHEVRON, PERTH AMBOY ; CITGO, PERTH AMBOY PG 64-22 / AC-20
FF BIN 1	NON PLASTIC		REQUIRED : NON - PLASTIC	

MARSHALL DESIGN	POUNDS	METRIC		REQUIREMENTS MINIMUM		MAXIMUM	
STABILITY (LBS.) (KN.)	3880	17.26		1500 (lbs.	6.7 (KN)		
FLOW (0.01IN.) (0.01 mm.)	11	11		6 (0.01IN.)	6 (0.25 mm)	18(0.01IN.)	18(0.25 mm)
AIR VOIDS (%)	4.01	4.01			3		5
VMA (%)	14.3	14.3			12		
VFA (%)	71.9	71.9			N/A		N/A
RICE GM	2.673	2.673					
LBS / SQ. YD / IN.	120.1	2.566	Kgms. / SQ M. / mm				

PREPARED BY	SUBMITTED BY
KENNETH ZADORA	
SIGNATURE: Kenneth Zadora	SIGNATURE: Kenneth Zadora
TITLE: DIRECTOR of QUALITY CONTROL	TITLE: DIRECTOR of QUALITY CONTROL
REPRESENTING (COMPANY): STONE INDUSTRIES INC.	REPRESENTING (COMPANY): STONE INDUSTRIES INC.

COMPLIES	DATE	SIGNATURE OF PROJECT ENGINEER OR HIS DULY AUTHORIZED REPRESENTATIVE	FIRM NAME
DOES NOT COMPLY			

• BIN GRADATIONS

PRODUCER: STONE INDUSTRIES INC.
HALEDON, N.J.

TYPE MIX: 1-2

	BIN NO. %		BIN NO. 4 40 %		BIN NO. 3 20 %		BIN NO. 2 12 %		BIN NO. 1 26 %		FILLER 2.0 %		THEO. COMB.	SPECS.	
	% PASS	% BATCH	% PASS	% BATCH	% PASS	% BATCH	% PASS	% BATCH	% PASS	% BATCH	% PASS	% BATCH		MIN.	MAX.
2" (50.0mm)			100.0	40.0	100.0	20.0	100.0	12.0	100.0	26.0	100.0	2.0	100	100	
1-1/2" (37.5mm)			100.0	40.0	100.0	20.0	100.0	12.0	100.0	26.0	100.0	2.0	100	90	100
1" (25.0mm)			98.7	39.5	100.0	20.0	100.0	12.0	100.0	26.0	100.0	2.0	99	80	100
3/4" (19.0mm)															
1/2" (12.5mm)			16.2	6.5	100.0	20.0	100.0	12.0	100.0	26.0	100.0	2.0	66	50	85
3/8" (9.5mm)															
#4 (4.75mm)			3.3	1.3	9.8	2.0	59.5	7.2	100.0	26.0	100.0	2.0	38	25	60
#8 (2.36mm)			1.1	0.4	7.3	1.5	42.1	5.1	87.1	22.6	100.0	2.0	32	20	45
#16 (1.18mm)															
#30 (600um)															
#50 (300um)					3.4	0.7	12.4	1.5	31.9	8.3	100.0	2.0	12	8	30
#100 (150um)															
#200 (75um)					2.6	0.5	3.8	0.5	7.8	2.0	98.0	2.0	5.0	4	7.5
AC															

• STOCKPILE GRADATIONS

SIEVE SIZE	SIZE NO. RAP 20.6 %		SIZE NO. %		SIZE NO. 61.9 %		SIZE NO. 10 6 %		SIZE NO. SAND 10 %		FILLER 1.4 %		THEO. COMB.	SPECS.	
	% PASS	% BATCH	% PASS	% BATCH	% PASS	% BATCH	% PASS	% BATCH	% PASS	% BATCH	% PASS	% BATCH		MIN.	MAX.
2" (50.0mm)	100.0	20.6			100.0	61.9	100.0	6.0	100.0	10.0	100.0	1.4	100	100	
1-1/2" (37.5mm)	100.0	20.6			100.0	61.9	100.0	6.0	100.0	10.0	100.0	1.4	100	90	100
1" (25.0mm)	100.0	20.6			100.0	61.9	100.0	6.0	100.0	10.0	100.0	1.4	100	80	100
3/4" (19.0mm)															
1/2" (12.5mm)	100.0	20.6			65.4	40.5	100.0	6.0	100.0	10.0	100.0	1.4	78	50	85
3/8" (9.5mm)															
#4 (4.75mm)	73.7	15.6			21.4	13.2	100.0	6.0	99.1	9.9	100.0	1.4	46	25	60
#8 (2.36mm)	58.3	12.0			10.6	6.6	95.7	5.7	87.6	8.8	100.0	1.4	34	20	45
#16 (1.18mm)															
#30 (600um)															
#50 (300um)	21.2	4.4			4.2	2.6	36.9	2.2	22.1	2.2	100.0	1.4	13	8	30
#100 (150um)															
#200 (75um)	8.4	1.7			2.1	1.3	17.4	1.0	3.2	0.3	98.0	1.4	5.8	4	7.5
AC	4.9	1.0													
AC															

• ALL GRADATIONS ARE AVERAGE VALUES

PRODUCER : STONE INDUSTRIES INC.

PROJECT : Military Ocean Terminal, Bayonne, N.J.

CONTRACTOR : Tarkeel Enterprises / Amuer Con't.

MIX NUMBER 1-5 COURSE SURFACE BATCH SIZE (LBS.) 4.000 (KGMS.) 1814

VERIFICATION MARSHALL PLUG - LABORATORY SERIAL NO. R-2B0045 RICE GM 1.609

JOB MIX FORMULA					
	%	POUNDS	KGms.	COMPONENTS - PRODUCER AND LOCATION	
BIN 5					
BIN 4				STONE INDUSTRIES INC., HALEDON, N.J.	
BIN 3	32.7	1308	593	" " "	
BIN 2	22.0	880	399	STONE INDUSTRIES INC., HALEDON, N.J.	
BIN 1	38.1	1524	691	STONE INDUSTRIES INC., HALEDON 25% VAN ORDEN SAND & GRAVEL, RINGWOOD, N.J. 75%	
FILLER	1.7	68	31	BAGHOUSE FINES - STONE INDUSTRIES INC.	
ASPHALT CEMENT	5.5	220	100	CHEVRON, PERTH AMBOY ; CITGO, PERTH AMBOY	FG 64-22 / AC-20
[illegible] 1	NON PLASTIC		REQUIRED : NON - PLASTIC		

MARSHALL	DESIGN			REQUIREMENTS			
	POUNDS	METRIC		MINIMUM		MAXIMUM	
STABILITY (LBS.) (kN)	2870	12.77		1200 (lbs.	5.3 (kN)		
FLOW (0.01IN.) (0.01 mm.)	11	11		6 (0.01IN.)	6 (0.25 mm)	16 (0.01IN.)	16 (0.25 mm)
AIR VOIDS (%)	4.00	4.00		3		5	
VMA (%)	17.9	17.9		16			
VFA (%)	78.0	78.0		N/A		N/A	
RICE GM	2.609	2.609					
LBS. / SQ. YD / IN	117.2	2.505	Kgms. / SQ.M. / mm				

PREPARED BY	SUBMITTED BY
KENNETH ZADORA	
SIGNATURE Kenneth Zadora	SIGNATURE Kenneth Zadora
TITLE DIRECTOR of QUALITY CONTROL	TITLE DIRECTOR of QUALITY CONTROL
REPRESENTING (COMPANY) STONE INDUSTRIES INC	REPRESENTING (COMPANY) STONE INDUSTRIES INC.

COMPLIES	DATE	SIGNATURE OF PROJECT ENGINEER OR HIS DULY AUTHORIZED REPRESENTATIVE	FIRM NAME
[illegible]S NOT COMPLY			

FROM : PANASONIC TAD/FAX PHONE NO. : +559 5801 Feb. 12 1999 12:49AM P3

• BIN GRADATIONS

DUCER : STONE INDUSTRIES INC.
ATION : HALEDON, N.J.

TYPE MIX: 1-5

/E	BIN NO %		BIN NO. %		BIN NO. 3 34.5 %		BIN NO 2 23.5 %		BIN NO. 1 40.2 %		FILLER 1.8 %		THEO. COMB.	SPECS.	
	% PASS	% BATCH	% PASS	% BATCH	% PASS	% BATCH	% PASS	% BATCH	% PASS	% BATCH	% PASS	% BATCH		MIN.	MAX.
2" (50.0mm)															
1-1/2" (37.5mm)															
1" (25.0mm)															
3/4" (19.0mm)															
1/2" (12.5mm)					100.0	34.5	100.0	23.5	100.0	40.2	100.0	1.8	100	100	
3/8" (9.5mm)					78.1	26.9	100.0	23.5	100.0	40.2	100.0	1.8	92	80	100
#4 (4.75mm)					10.4	3.6	63.4	14.9	100.0	40.2	100.0	1.8	60	55	75
#8 (2.36mm)					2.6	0.9	27.8	6.5	87.1	35.0	100.0	1.8	44	30	55
#16 (1.18mm)							15.9	3.7	69.6	28.0	100.0	1.8	34	20	45
#30 (600um)							10.8	2.5	47.8	19.2	100.0	1.8	24	15	35
#50 (300um)							5.6	1.3	31.9	12.8	100.0	1.8	16	10	20
#100 (150um)															
#200 (75um)							3.8	0.9	7.8	3.1	95.0	1.8	5.8	4	8
AC															

• STOCKPILE GRADATIONS

SIEVE SIZE	SIZE NO. %		SIZE NO %		SIZE NO 38 %		SIZE NO. 10 10 %		SIZE NO. SAND 30.2 %		FILLER 1.8 %		THEO. COMB.	SPECS.	
	% PASS	% BATCH	% PASS	% BATCH	% PASS	% BATCH	% PASS	% BATCH	% PASS	% BATCH	% PASS	% BATCH		MIN.	MAX.
2" (50.0mm)															
1-1/2" (37.5mm)															
1" (25.0mm)															
3/4" (19.0mm)															
1/2" (12.5mm)					100.0	58.0	100.0	10.0	100.0	30.2	100.0	1.8	100	100	
3/8" (9.5mm)					86.2	50.0	100.0	10.0	100.0	30.2	100.0	1.8	92	80	100
#4 (4.75mm)					29.1	16.9	100.0	10.0	99.1	29.9	100.0	1.8	59	55	75
#8 (2.36mm)					8.3	4.8	95.7	9.6	87.0	26.5	100.0	1.8	43	30	55
#16 (1.18mm)					5.9	3.4	69.6	7.0	67.4	20.4	100.0	1.8	33	20	45
#30 (600um)					3.8	2.2	48.7	4.9	45.3	13.7	100.0	1.8	23	15	35
#50 (300um)					2.7	1.5	36.9	3.7	22.1	6.7	100.0	1.8	14	10	30
#100 (150um)															
#200 (75um)					[illegible]	1.0	17.6	1.7	2.2	0.7	98.0	1.8	5.2	4	8
AC															

• ALL GRADATIONS ARE AVERAGE VALUES

Appendix P
Analytical Reports

GP Work Order # 9811044

SAMPLE ANALYSIS REPORT

Prepared For:

RADIAN INTERNATIONAL
MILITARY OCEAN TERMINAL
BAYONNE, NJ 07002

RADIAN INT 80003619

Prepared By:

GPL Laboratories, LLLP
202 Perry Parkway
Gaithersburg, MD 20877

December 8, 1998

Yemane Yohannes, Laboratory Director

GPL LABORATORIES, LLLP
ANALYTICAL RESULTS

Project: RADIAN INT 80003619

RADIAN INTERNATIONAL
MILITARY OCEAN TERMINAL
BAYONNE, NJ 07002
Atten: KEITH DODRILL

GPL LABORATORIES, LLLP
202 Perry Parkway
Gaithersburg, MD 20877

Atten: Client Services
Phone: (301) 926-6802

Certified by:_____

SAMPLE IDENTIFICATION

GP ID	Client ID
9811044-01A	MB-PRC-EXCAV BASE-001
9811044-01B	
9811044-02A	MB-PRC-EXCAV BASE-002
9811044-02B	
9811044-03A	MB-PRC-EXCAV BASE-003
9811044-03B	
9811044-04A	MB-PRC-EXCAV BASE-004
9811044-04B	
9811044-05A	MB-PRC-EXCAV BASE-005
9811044-05B	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811044-01B
Client ID: MB-PRC-EXCAV BASE-001
Collected: 10/13/98
Dilution: 20

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 11/18/98
Prepared: 11/09/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	7300	
Phenol	BQL	7300	
2-Chlorophenol	BQL	7300	
1,3-Dichlorobenzene	BQL	7300	
1,4-Dichlorobenzene	BQL	7300	
1,2-Dichlorobenzene	BQL	7300	
2,2'-oxybis(1-chloropropane)	BQL	7300	
2-Methylphenol	BQL	7300	
Hexachloroethane	BQL	7300	
N-Nitroso-di-n-propylamine	BQL	7300	
4-Methylphenol	BQL	7300	
Nitrobenzene	BQL	7300	
Isophorone	BQL	7300	
2-Nitrophenol	BQL	7300	
2,4-Dimethylphenol	BQL	7300	
bis(2-Chloroethoxy)methane	BQL	7300	
2,4-Dichlorophenol	BQL	7300	
1,2,4-Trichlorobenzene	BQL	7300	
Naphthalene	BQL	7300	
4-Chloroaniline	BQL	7300	
Hexachlorobutadiene	BQL	7300	
4-Chloro-3-methylphenol	BQL	7300	
2-Methylnaphthalene	2300	7300	JD
Hexachlorocyclopentadiene	BQL	7300	
2,4,6-Trichlorophenol	BQL	7300	
2,4,5-Trichlorophenol	BQL	37000	
2-Chloronaphthalene	BQL	7300	
2-Nitroaniline	BQL	37000	
Acenaphthylene	BQL	7300	
Dimethylphthalate	BQL	7300	
2,6-Dinitrotoluene	BQL	7300	
Acenaphthene	1200	7300	JD

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811044-01B
Client ID: MB-PRC-EXCAV BASE-001
Collected: 10/13/98
Dilution: 20

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 11/18/98
Prepared: 11/09/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	37000	
2,4-Dinitrophenol	BQL	37000	
Dibenzofuran	BQL	7300	
2,4-Dinitrotoluene	BQL	7300	
4-Nitrophenol	BQL	37000	
Fluorene	BQL	7300	
4-Chlorophenyl-phenylether	BQL	7300	
Diethylphthalate	BQL	7300	
4-Nitroaniline	BQL	37000	
4,6-Dinitro-2-methylphenol	BQL	37000	
N-nitrosodiphenylamine	BQL	7300	
4-Bromophenyl-phenylether	BQL	7300	
Hexachlorobenzene	BQL	7300	
Pentachlorophenol	BQL	37000	
Phenanthrene	5800	7300	JD
Anthracene	BQL	7300	
Carbazole	BQL	7300	
di-n-Butylphthalate	BQL	7300	
Fluoranthene	860	7300	JD
Pyrene	3500	7300	JD
Butylbenzylphthalate	BQL	7300	
3,3'-Dichlorobenzidine	BQL	15000	
Benzo[a]anthracene	1100	7300	JD
Chrysene	1500	7300	JD
bis(2-Ethylhexyl)phthalate	BQL	7300	
di-n-Octylphthalate	BQL	7300	
Benzo[b]fluoranthene	BQL	7300	
Benzo[k]fluoranthene	BQL	7300	
Benzo[a]pyrene	BQL	7300	
Indeno[1,2,3-cd]pyrene	BQL	7300	
Dibenz[a,h]anthracene	BQL	7300	
Benzo[g,h,i]perylene	BQL	7300	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811044-02B
Client ID: MB-PRC-EXCAV BASE-002
Collected: 10/13/98
Dilution: 1

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 11/18/98
Prepared: 11/09/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	510	
Phenol	BQL	510	
2-Chlorophenol	BQL	510	
1,3-Dichlorobenzene	BQL	510	
1,4-Dichlorobenzene	BQL	510	
1,2-Dichlorobenzene	BQL	510	
2,2'-oxybis(1-chloropropane)	BQL	510	
2-Methylphenol	BQL	510	
Hexachloroethane	BQL	510	
N-Nitroso-di-n-propylamine	BQL	510	
4-Methylphenol	BQL	510	
Nitrobenzene	BQL	510	
Isophorone	BQL	510	
2-Nitrophenol	BQL	510	
2,4-Dimethylphenol	BQL	510	
bis(2-Chloroethoxy)methane	BQL	510	
2,4-Dichlorophenol	BQL	510	
1,2,4-Trichlorobenzene	BQL	510	
Naphthalene	57	510	J
4-Chloroaniline	BQL	510	
Hexachlorobutadiene	BQL	510	
4-Chloro-3-methylphenol	BQL	510	
2-Methylnaphthalene	280	510	J
Hexachlorocyclopentadiene	BQL	510	
2,4,6-Trichlorophenol	BQL	510	
2,4,5-Trichlorophenol	BQL	2600	
2-Chloronaphthalene	BQL	510	
2-Nitroaniline	BQL	2600	
Acenaphthylene	BQL	510	
Dimethylphthalate	BQL	510	
2,6-Dinitrotoluene	BQL	510	
Acenaphthene	BQL	510	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811044-02B
Client ID: MB-PRC-EXCAV BASE-002
Collected: 10/13/98
Dilution: 1

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 11/18/98
Prepared: 11/09/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	2600	
2,4-Dinitrophenol	BQL	2600	
Dibenzofuran	BQL	510	
2,4-Dinitrotoluene	BQL	510	
4-Nitrophenol	BQL	2600	
Fluorene	BQL	510	
4-Chlorophenyl-phenylether	BQL	510	
Diethylphthalate	BQL	510	
4-Nitroaniline	BQL	2600	
4,6-Dinitro-2-methylphenol	BQL	2600	
N-nitrosodiphenylamine	BQL	510	
4-Bromophenyl-phenylether	BQL	510	
Hexachlorobenzene	BQL	510	
Pentachlorophenol	BQL	2600	
Phenanthrene	140	510	J
Anthracene	BQL	510	
Carbazole	BQL	510	
di-n-Butylphthalate	BQL	510	
Fluoranthene	BQL	510	
Pyrene	130	510	J
Butylbenzylphthalate	BQL	510	
3,3'-Dichlorobenzidine	BQL	1000	
Benzo[a]anthracene	BQL	510	
Chrysene	BQL	510	
bis(2-Ethylhexyl)phthalate	53	510	J
di-n-Octylphthalate	BQL	510	
Benzo[b]fluoranthene	BQL	510	
Benzo[k]fluoranthene	BQL	510	
Benzo[a]pyrene	BQL	510	
Indeno[1,2,3-cd]pyrene	BQL	510	
Dibenz[a,h]anthracene	BQL	510	
Benzo[g,h,i]perylene	BQL	510	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811044-03B
Client ID: MB-PRC-EXCAV BASE-003
Collected: 10/13/98
Dilution: 1

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 11/18/98
Prepared: 11/09/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	430	
Phenol	BQL	430	
2-Chlorophenol	BQL	430	
1,3-Dichlorobenzene	BQL	430	
1,4-Dichlorobenzene	BQL	430	
1,2-Dichlorobenzene	BQL	430	
2,2'-oxybis(1-chloropropane)	BQL	430	
2-Methylphenol	BQL	430	
Hexachloroethane	BQL	430	
N-Nitroso-di-n-propylamine	BQL	430	
4-Methylphenol	BQL	430	
Nitrobenzene	BQL	430	
Isophorone	BQL	430	
2-Nitrophenol	BQL	430	
2,4-Dimethylphenol	BQL	430	
bis(2-Chloroethoxy)methane	BQL	430	
2,4-Dichlorophenol	BQL	430	
1,2,4-Trichlorobenzene	BQL	430	
Naphthalene	BQL	430	
4-Chloroaniline	BQL	430	
Hexachlorobutadiene	BQL	430	
4-Chloro-3-methylphenol	BQL	430	
2-Methylnaphthalene	BQL	430	
Hexachlorocyclopentadiene	BQL	430	
2,4,6-Trichlorophenol	BQL	430	
2,4,5-Trichlorophenol	BQL	2200	
2-Chloronaphthalene	BQL	430	
2-Nitroaniline	BQL	2200	
Acenaphthylene	BQL	430	
Dimethylphthalate	BQL	430	
2,6-Dinitrotoluene	BQL	430	
Acenaphthene	BQL	430	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811044-03B
Client ID: MB-PRC-EXCAV BASE-003
Collected: 10/13/98
Dilution: 1

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 11/18/98
Prepared: 11/09/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	2200	
2,4-Dinitrophenol	BQL	2200	
Dibenzofuran	BQL	430	
2,4-Dinitrotoluene	BQL	430	
4-Nitrophenol	BQL	2200	
Fluorene	BQL	430	
4-Chlorophenyl-phenylether	BQL	430	
Diethylphthalate	BQL	430	
4-Nitroaniline	BQL	2200	
4,6-Dinitro-2-methylphenol	BQL	2200	
N-nitrosodiphenylamine	BQL	430	
4-Bromophenyl-phenylether	BQL	430	
Hexachlorobenzene	BQL	430	
Pentachlorophenol	BQL	2200	
Phenanthrene	BQL	430	
Anthracene	BQL	430	
Carbazole	BQL	430	
di-n-Butylphthalate	BQL	430	
Fluoranthene	BQL	430	
Pyrene	55	430	J
Butylbenzylphthalate	BQL	430	
3,3'-Dichlorobenzidine	BQL	870	
Benzo[a]anthracene	BQL	430	
Chrysene	BQL	430	
bis(2-Ethylhexyl)phthalate	BQL	430	
di-n-Octylphthalate	BQL	430	
Benzo[b]fluoranthene	BQL	430	
Benzo[k]fluoranthene	BQL	430	
Benzo[a]pyrene	BQL	430	
Indeno[1,2,3-cd]pyrene	BQL	430	
Dibenz[a,h]anthracene	BQL	430	
Benzo[g,h,i]perylene	BQL	430	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811044-04B
Client ID: MB-PRC-EXCAV BASE-004
Collected: 10/13/98
Dilution: 1

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 11/18/98
Prepared: 11/09/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	400	
Phenol	BQL	400	
2-Chlorophenol	BQL	400	
1,3-Dichlorobenzene	BQL	400	
1,4-Dichlorobenzene	BQL	400	
1,2-Dichlorobenzene	BQL	400	
2,2'-oxybis(1-chloropropane)	BQL	400	
2-Methylphenol	BQL	400	
Hexachloroethane	BQL	400	
N-Nitroso-di-n-propylamine	BQL	400	
4-Methylphenol	BQL	400	
Nitrobenzene	BQL	400	
Isophorone	BQL	400	
2-Nitrophenol	BQL	400	
2,4-Dimethylphenol	BQL	400	
bis(2-Chloroethoxy)methane	BQL	400	
2,4-Dichlorophenol	BQL	400	
1,2,4-Trichlorobenzene	BQL	400	
Naphthalene	BQL	400	
4-Chloroaniline	BQL	400	
Hexachlorobutadiene	BQL	400	
4-Chloro-3-methylphenol	BQL	400	
2-Methylnaphthalene	85	400	J
Hexachlorocyclopentadiene	BQL	400	
2,4,6-Trichlorophenol	BQL	400	
2,4,5-Trichlorophenol	BQL	2000	
2-Chloronaphthalene	BQL	400	
2-Nitroaniline	BQL	2000	
Acenaphthylene	BQL	400	
Dimethylphthalate	BQL	400	
2,6-Dinitrotoluene	BQL	400	
Acenaphthene	BQL	400	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811044-04B
Client ID: MB-PRC-EXCAV BASE-004
Collected: 10/13/98
Dilution: 1

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 11/18/98
Prepared: 11/09/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	2000	
2,4-Dinitrophenol	BQL	2000	
Dibenzofuran	BQL	400	
2,4-Dinitrotoluene	BQL	400	
4-Nitrophenol	BQL	2000	
Fluorene	BQL	400	
4-Chlorophenyl-phenylether	BQL	400	
Diethylphthalate	BQL	400	
4-Nitroaniline	BQL	2000	
4,6-Dinitro-2-methylphenol	BQL	2000	
N-nitrosodiphenylamine	BQL	400	
4-Bromophenyl-phenylether	BQL	400	
Hexachlorobenzene	BQL	400	
Pentachlorophenol	BQL	2000	
Phenanthrene	110	400	J
Anthracene	BQL	400	
Carbazole	BQL	400	
di-n-Butylphthalate	BQL	400	
Fluoranthene	BQL	400	
Pyrene	110	400	J
Butylbenzylphthalate	BQL	400	
3,3'-Dichlorobenzidine	BQL	790	
Benzo[a]anthracene	BQL	400	
Chrysene	BQL	400	
bis(2-Ethylhexyl)phthalate	BQL	400	
di-n-Octylphthalate	BQL	400	
Benzo[b]fluoranthene	BQL	400	
Benzo[k]fluoranthene	BQL	400	
Benzo[a]pyrene	BQL	400	
Indeno[1,2,3-cd]pyrene	BQL	400	
Dibenz[a,h]anthracene	BQL	400	
Benzo[g,h,i]perylene	BQL	400	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811044-05B
Client ID: MB-PRC-EXCAV BASE-005
Collected: 10/13/98
Dilution: 20

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 11/18/98
Prepared: 11/09/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	7800	
Phenol	BQL	7800	
2-Chlorophenol	BQL	7800	
1,3-Dichlorobenzene	BQL	7800	
1,4-Dichlorobenzene	BQL	7800	
1,2-Dichlorobenzene	BQL	7800	
2,2'-oxybis(1-chloropropane)	BQL	7800	
2-Methylphenol	BQL	7800	
Hexachloroethane	BQL	7800	
N-Nitroso-di-n-propylamine	BQL	7800	
4-Methylphenol	BQL	7800	
Nitrobenzene	BQL	7800	
Isophorone	BQL	7800	
2-Nitrophenol	BQL	7800	
2,4-Dimethylphenol	BQL	7800	
bis(2-Chloroethoxy)methane	BQL	7800	
2,4-Dichlorophenol	BQL	7800	
1,2,4-Trichlorobenzene	BQL	7800	
Naphthalene	BQL	7800	
4-Chloroaniline	BQL	7800	
Hexachlorobutadiene	BQL	7800	
4-Chloro-3-methylphenol	BQL	7800	
2-Methylnaphthalene	BQL	7800	
Hexachlorocyclopentadiene	BQL	7800	
2,4,6-Trichlorophenol	BQL	7800	
2,4,5-Trichlorophenol	BQL	39000	
2-Chloronaphthalene	BQL	7800	
2-Nitroaniline	BQL	39000	
Acenaphthylene	BQL	7800	
Dimethylphthalate	BQL	7800	
2,6-Dinitrotoluene	BQL	7800	
Acenaphthene	970	7800	JD

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811044-05B
Client ID: MB-PRC-EXCAV BASE-005
Collected: 10/13/98
Dilution: 20

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 11/18/98
Prepared: 11/09/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	39000	
2,4-Dinitrophenol	BQL	39000	
Dibenzofuran	BQL	7800	
2,4-Dinitrotoluene	BQL	7800	
4-Nitrophenol	BQL	39000	
Fluorene	980	7800	JD
4-Chlorophenyl-phenylether	BQL	7800	
Diethylphthalate	BQL	7800	
4-Nitroaniline	BQL	39000	
4,6-Dinitro-2-methylphenol	BQL	39000	
N-nitrosodiphenylamine	BQL	7800	
4-Bromophenyl-phenylether	BQL	7800	
Hexachlorobenzene	BQL	7800	
Pentachlorophenol	BQL	39000	
Phenanthrene	5500	7800	JD
Anthracene	1300	7800	JD
Carbazole	BQL	7800	
di-n-Butylphthalate	BQL	7800	
Fluoranthene	BQL	7800	
Pyrene	4400	7800	JD
Butylbenzylphthalate	BQL	7800	
3,3'-Dichlorobenzidine	BQL	16000	
Benzo[a]anthracene	910	7800	JD
Chrysene	1200	7800	JD
bis(2-Ethylhexyl)phthalate	BQL	7800	
di-n-Octylphthalate	BQL	7800	
Benzo[b]fluoranthene	BQL	7800	
Benzo[k]fluoranthene	BQL	7800	
Benzo[a]pyrene	BQL	7800	
Indeno[1,2,3-cd]pyrene	BQL	7800	
Dibenz[a,h]anthracene	BQL	7800	
Benzo[g,h,i]perylene	BQL	7800	

GPL LABORATORIES, LLLP
WET CHEMISTRY ANALYSIS RESULTS

GP ID: 9811044-01
Client ID: MB-PRC-EXCAV BASE-001

Matrix: SOIL
Collected: 10/13/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	90.8		%			11/24/98 DT
Total Petroleum Hydrocarbons	MCAWW 418.1	6480	539	mg/Kg	20		11/20/98 AS

GP ID: 9811044-02
Client ID: MB-PRC-EXCAV BASE-002

Matrix: SOIL
Collected: 10/13/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	64.8		%			11/24/98 DT
Total Petroleum Hydrocarbons	MCAWW 418.1	198	37.4	mg/Kg	1		11/20/98 AS

GP ID: 9811044-03
Client ID: MB-PRC-EXCAV BASE-003

Matrix: SOIL
Collected: 10/13/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	76.6		%			11/24/98 DT
Total Petroleum Hydrocarbons	MCAWW 418.1	190	31.1	mg/Kg	1		11/20/98 AS

GP ID: 9811044-04
Client ID: MB-PRC-EXCAV BASE-004

Matrix: SOIL
Collected: 10/13/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	83.6		%			11/24/98 DT
Total Petroleum Hydrocarbons	MCAWW 418.1	422	28.8	mg/Kg	1		11/20/98 AS

GP ID: 9811044-05
Client ID: MB-PRC-EXCAV BASE-005

Matrix: SOIL
Collected: 10/13/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	85.8		%			11/24/98 DT
Total Petroleum Hydrocarbons	MCAWW 418.1	4410	579	mg/Kg	20		11/20/98 AS

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference: _____

_____ of _____ Pgs.

Project: 80003619

Client: RADIAN INTERNATIONAL

Send Results To: KEITH DODRILL

Address: MILITARY OCEAN TERMINAL
BT169, BUILDING 44A
BAYONNE, NJ 07002

Phone: (201) 823-5818 / FAX (201) 823-5819

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	TPH METHOD 418.1	BDA METHOD 8270									CLIENT COMMENTS
Turnaround Time					14 DAY	14 DAY									
# of Containers					2oz	2oz									
Container Type					8oz	8oz									
Preservative Used					N/A	N/A									
Type of Analysis															Lab Cooler No.
MB-PRC-EXCAV BASE-001	11/3/96	1705	SOIL	KD	X	X									EXCAV BASE-001
MB-PRC-EXCAV BASE-002	11/3/96	1708	SOIL	KD	X	X									EXCAV BASE-002
MB-PRC EXCAV BASE-003	11/3/96	1715	SOIL	KD	X	X									EXCAV BASE-003
MB-PRC EXCAV BASE-004	11/4/96	0930	SOIL	KD	X	X									EXCAV BASE-004
MB-PRC EXCAV BASE-005	11/4/96	0940	SOIL	KD	X	X									EXCAV BASE-005

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	11/4/96 1930	FEDEX 804707108873		[signature]	11/5/96 2:30pm

Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:

Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp:
				4.1°C

G.P. W.O. _____

GT ENVIRONMENTAL SERVICES

SAMPLE RECEIPT CHECKLIST

[illegible]. No.		Carrier Name	[illegible]
Client Name	Radian International	Prepared (Logged In) By	SG / 11/5/98 (Initials / Date)
Date Received	11/5/98	Project	80003619
Time Received	9:50 AM	Site	
Received By	SG	VOA Holding Blank I.D. No.	

	YES	NO		YES	NO
Airbill/Manifest Present? No. 5047071088 73	✓		Trip Blanks Received? No. of Sets		✓
Shipping Container in Good Condition?	✓		VOA Vials Have Zero Headspace?	NR	
Custody Seals Present on Shipping Container? Condition: Good ____ Broken ____		✓	Preservatives Added to Sample?	NR	
Chain-of-Custody Present?	✓		pH Check Required? Performed By?	NR	
Chain-of-Custody Agrees with Sample Labels?	✓		Ice Present in Shipping Container?	✓	
[illegible]in-of-Custody Signed?	✓		Container# / Temperature		
Packing Present in Shipping Container? Type of Packing Bubble Wrap	✓		#1 / ~~4.1~~ 4.1°C		
Custody Seals on Sample Bottles? Condition: Good ____ Broken ____		✓	11/5/98		
Total Number of Sample Bottles 10					
Total Number of Samples 5					
Samples Intact?	✓		Project Manager Contacted? Name:		
Sufficient Sample Volume for Indicated Test?	✓		Date Contacted: 11/5/98		

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A.

COMMENTS:

Checklist Completed by [signature]

Date 11/5/98

GP Work Order # 9811194

SAMPLE ANALYSIS REPORT

Prepared For:

RADIAN INTERNATIONAL
MILITARY OCEAN TERMINAL
BAYONNE, NJ 07002

RADIAN INT 80003619

Prepared By:

GPL Laboratories, LLLP
202 Perry Parkway
Gaithersburg, MD 20877

December 9, 1998

Yemane Yohannes, Laboratory Director

GPL LABORATORIES, LLLP
ANALYTICAL RESULTS

Project: RADIAN INT 80003619

RADIAN INTERNATIONAL
MILITARY OCEAN TERMINAL
BAYONNE, NJ 07002
Atten: KEITH DODRILL

GPL LABORATORIES, LLLP
202 Perry Parkway
Gaithersburg, MD 20877

Atten: Client Services
Phone: (301) 926-6802

Certified by:_____

SAMPLE IDENTIFICATION

GP ID	Client ID
9811194-01A	MB-PRC-EXCAV BASE-006
9811194-01B	
9811194-02A	MB-PRC-EXCAV BASE-006D
9811194-02B	
9811194-03A	MB-PRC-EXCAV BASE-007
9811194-03B	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811194-01B
Client ID: MB-PRC-EXCAV BASE-006
Collected: 11/18/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 11/24/98
Prepared: 11/20/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	4200	
Phenol	BQL	4200	
2-Chlorophenol	BQL	4200	
1,3-Dichlorobenzene	BQL	4200	
1,4-Dichlorobenzene	BQL	4200	
1,2-Dichlorobenzene	BQL	4200	
2,2'-oxybis(1-chloropropane)	BQL	4200	
2-Methylphenol	BQL	4200	
Hexachloroethane	BQL	4200	
N-Nitroso-di-n-propylamine	BQL	4200	
4-Methylphenol	BQL	4200	
Nitrobenzene	BQL	4200	
Isophorone	BQL	4200	
2-Nitrophenol	BQL	4200	
2,4-Dimethylphenol	BQL	4200	
bis(2-Chloroethoxy)methane	BQL	4200	
2,4-Dichlorophenol	BQL	4200	
1,2,4-Trichlorobenzene	BQL	4200	
Naphthalene	890	4200	JD
4-Chloroaniline	BQL	4200	
Hexachlorobutadiene	BQL	4200	
4-Chloro-3-methylphenol	BQL	4200	
2-Methylnaphthalene	3400	4200	JD
Hexachlorocyclopentadiene	BQL	4200	
2,4,6-Trichlorophenol	BQL	4200	
2,4,5-Trichlorophenol	BQL	21000	
2-Chloronaphthalene	BQL	4200	
2-Nitroaniline	BQL	21000	
Acenaphthylene	BQL	4200	
Dimethylphthalate	BQL	4200	
2,6-Dinitrotoluene	BQL	4200	
Acenaphthene	BQL	4200	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811194-01B
Client ID: MB-PRC-EXCAV BASE-006
Collected: 11/18/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 11/24/98
Prepared: 11/20/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	21000	
2,4-Dinitrophenol	BQL	21000	
Dibenzofuran	BQL	4200	
2,4-Dinitrotoluene	BQL	4200	
4-Nitrophenol	BQL	21000	
Fluorene	BQL	4200	
4-Chlorophenyl-phenylether	BQL	4200	
Diethylphthalate	BQL	4200	
4-Nitroaniline	BQL	21000	
4,6-Dinitro-2-methylphenol	BQL	21000	
N-nitrosodiphenylamine	3100	4200	JD
4-Bromophenyl-phenylether	BQL	4200	
Hexachlorobenzene	BQL	4200	
Pentachlorophenol	BQL	21000	
Phenanthrene	2500	4200	JD
Anthracene	570	4200	JD
Carbazole	BQL	4200	
di-n-Butylphthalate	BQL	4200	
Fluoranthene	BQL	4200	
Pyrene	1600	4200	JD
Butylbenzylphthalate	BQL	4200	
3,3'-Dichlorobenzidine	BQL	8400	
Benzo[a]anthracene	BQL	4200	
Chrysene	610	4200	JD
bis(2-Ethylhexyl)phthalate	BQL	4200	
di-n-Octylphthalate	BQL	4200	
Benzo[b]fluoranthene	BQL	4200	
Benzo[k]fluoranthene	BQL	4200	
Benzo[a]pyrene	BQL	4200	
Indeno[1,2,3-cd]pyrene	BQL	4200	
Dibenz[a,h]anthracene	BQL	4200	
Benzo[g,h,i]perylene	BQL	4200	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811194-02B
Client ID: MB-PRC-EXCAV BASE-006D
Collected: 11/18/98
Dilution: 1

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 11/24/98
Prepared: 11/20/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	400	
Phenol	BQL	400	
2-Chlorophenol	BQL	400	
1,3-Dichlorobenzene	BQL	400	
1,4-Dichlorobenzene	BQL	400	
1,2-Dichlorobenzene	BQL	400	
2,2'-oxybis(1-chloropropane)	BQL	400	
2-Methylphenol	BQL	400	
Hexachloroethane	BQL	400	
N-Nitroso-di-n-propylamine	BQL	400	
4-Methylphenol	BQL	400	
Nitrobenzene	BQL	400	
Isophorone	BQL	400	
2-Nitrophenol	BQL	400	
2,4-Dimethylphenol	BQL	400	
bis(2-Chloroethoxy)methane	BQL	400	
2,4-Dichlorophenol	BQL	400	
1,2,4-Trichlorobenzene	BQL	400	
Naphthalene	BQL	400	
4-Chloroaniline	BQL	400	
Hexachlorobutadiene	BQL	400	
4-Chloro-3-methylphenol	BQL	400	
2-Methylnaphthalene	690	400	
Hexachlorocyclopentadiene	BQL	400	
2,4,6-Trichlorophenol	BQL	400	
2,4,5-Trichlorophenol	BQL	2000	
2-Chloronaphthalene	BQL	400	
2-Nitroaniline	BQL	2000	
Acenaphthylene	BQL	400	
Dimethylphthalate	BQL	400	
2,6-Dinitrotoluene	BQL	400	
Acenaphthene	120	400	J

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811194-02B
Client ID: MB-PRC-EXCAV BASE-006D
Collected: 11/18/98
Dilution: 1

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 11/24/98
Prepared: 11/20/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	2000	
2,4-Dinitrophenol	BQL	2000	
Dibenzofuran	BQL	400	
2,4-Dinitrotoluene	BQL	400	
4-Nitrophenol	BQL	2000	
Fluorene	BQL	400	
4-Chlorophenyl-phenylether	BQL	400	
Diethylphthalate	57	400	JB
4-Nitroaniline	BQL	2000	
4,6-Dinitro-2-methylphenol	BQL	2000	
N-nitrosodiphenylamine	940	400	
4-Bromophenyl-phenylether	BQL	400	
Hexachlorobenzene	BQL	400	
Pentachlorophenol	BQL	2000	
Phenanthrene	720	400	
Anthracene	170	400	J
Carbazole	BQL	400	
di-n-Butylphthalate	BQL	400	
Fluoranthene	71	400	J
Pyrene	380	400	J
Butylbenzylphthalate	BQL	400	
3,3'-Dichlorobenzidine	BQL	800	
Benzo[a]anthracene	130	400	J
Chrysene	170	400	J
bis(2-Ethylhexyl)phthalate	BQL	400	
di-n-Octylphthalate	BQL	400	
Benzo[b]fluoranthene	43	400	J
Benzo[k]fluoranthene	BQL	400	
Benzo[a]pyrene	65	400	J
Indeno[1,2,3-cd]pyrene	BQL	400	
Dibenz[a,h]anthracene	BQL	400	
Benzo[g,h,i]perylene	44	400	JB

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811194-03B
Client ID: MB-PRC-EXCAV BASE-007
Collected: 11/18/98
Dilution: 1

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 11/24/98
Prepared: 11/20/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	420	
Phenol	BQL	420	
2-Chlorophenol	BQL	420	
1,3-Dichlorobenzene	BQL	420	
1,4-Dichlorobenzene	BQL	420	
1,2-Dichlorobenzene	BQL	420	
2,2'-oxybis(1-chloropropane)	BQL	420	
2-Methylphenol	BQL	420	
Hexachloroethane	BQL	420	
N-Nitroso-di-n-propylamine	BQL	420	
4-Methylphenol	BQL	420	
Nitrobenzene	BQL	420	
Isophorone	BQL	420	
2-Nitrophenol	BQL	420	
2,4-Dimethylphenol	BQL	420	
bis(2-Chloroethoxy)methane	BQL	420	
2,4-Dichlorophenol	BQL	420	
1,2,4-Trichlorobenzene	BQL	420	
Naphthalene	BQL	420	
4-Chloroaniline	BQL	420	
Hexachlorobutadiene	BQL	420	
4-Chloro-3-methylphenol	BQL	420	
2-Methylnaphthalene	BQL	420	
Hexachlorocyclopentadiene	BQL	420	
2,4,6-Trichlorophenol	BQL	420	
2,4,5-Trichlorophenol	BQL	2100	
2-Chloronaphthalene	BQL	420	
2-Nitroaniline	BQL	2100	
Acenaphthylene	BQL	420	
Dimethylphthalate	BQL	420	
2,6-Dinitrotoluene	BQL	420	
Acenaphthene	BQL	420	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811194-03B
Client ID: MB-PRC-EXCAV BASE-007
Collected: 11/18/98
Dilution: 1

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 11/24/98
Prepared: 11/20/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	2100	
2,4-Dinitrophenol	BQL	2100	
Dibenzofuran	BQL	420	
2,4-Dinitrotoluene	BQL	420	
4-Nitrophenol	BQL	2100	
Fluorene	BQL	420	
4-Chlorophenyl-phenylether	BQL	420	
Diethylphthalate	BQL	420	
4-Nitroaniline	BQL	2100	
4,6-Dinitro-2-methylphenol	BQL	2100	
N-nitrosodiphenylamine	BQL	420	
4-Bromophenyl-phenylether	BQL	420	
Hexachlorobenzene	BQL	420	
Pentachlorophenol	BQL	2100	
Phenanthrene	BQL	420	
Anthracene	BQL	420	
Carbazole	BQL	420	
di-n-Butylphthalate	BQL	420	
Fluoranthene	BQL	420	
Pyrene	62	420	J
Butylbenzylphthalate	BQL	420	
3,3'-Dichlorobenzidine	BQL	840	
Benzo[a]anthracene	46	420	J
Chrysene	55	420	J
bis(2-Ethylhexyl)phthalate	BQL	420	
di-n-Octylphthalate	BQL	420	
Benzo[b]fluoranthene	49	420	J
Benzo[k]fluoranthene	62	420	J
Benzo[a]pyrene	80	420	J
Indeno[1,2,3-cd]pyrene	46	420	JB
Dibenz[a,h]anthracene	BQL	420	
Benzo[g,h,i]perylene	52	420	JB

GPL LABORATORIES, LLLP
WET CHEMISTRY ANALYSIS RESULTS

GP ID: 9811194-01
Client ID: MB-PRC-EXCAV BASE-006

Matrix: SOIL
Collected: 11/18/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Total Petroleum Hydrocarbons	MCAWW 418.1	57.1	31.1	mg/Kg	1	11/23/98	11/25/98 AS
Percent Solids	MCAWW 160.3	79.5		%			11/25/98 DT

GP ID: 9811194-02
Client ID: MB-PRC-EXCAV BASE-0060

Matrix: SOIL
Collected: 11/18/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Total Petroleum Hydrocarbons	MCAWW 418.1	70.2	29.9	mg/Kg	1	11/23/98	11/25/98 AS
Percent Solids	MCAWW 160.3	82.9		%			11/25/98 DT

GP ID: 9811194-03
Client ID: MB-PRC-EXCAV BASE-007

Matrix: SOIL
Collected: 11/18/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Total Petroleum Hydrocarbons	MCAWW 418.1	32.0	31.7	mg/Kg	1	11/23/98	11/25/98 AS
Percent Solids	MCAWW 160.3	78.6		%			11/25/98 DT

GPL Laboratories, LLLP

Possible notes and definitions for this report:

BQL	= Below Quantitation Limit
J	= Value is less than the reporting limits but greater than zero
P	= Indicates that there is greater than 25% difference for detected pesticide/Aroclor results between the two GC columns
B	= Indicates that the compound was found in the associated blank
E	= Indicates that the concentration exceeded the calibration range of the instrument
U	= Indicates that the compound was analyzed for but not detected, number indicates the reporting limit
D	= Indicates that the compound was found in an analysis at a secondary dilution factor
*	= Value obtained from a 1:5 dilution
+	= Value obtained from a 1:10 dilution
#	= Value obtained from a 1:20 dilution
=	= Value obtained from a 1:25 dilution
^	= Value obtained from a 1:50 dilution
~	= Value obtained from a 1:100 dilution
!	= Value obtained from a 1:250 dilution
@	= Value obtained from a 1:125 dilution (medium level)
$	= Value obtained from a 1:500 dilution
&	= Value obtained from a 1:1000 dilution
N	= Flashpoint not observed; heated to specified limit
R	= Flammable at room temperature
TNTC	= Too numerous to count
B.P.	= Detection limit taken from boiling point
F.F.	= Sample gave off flammable fumes

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference: _____

1 of 1 Pgs.

Project: 80003619
Client: RADIAN INTERNATIONAL
Send Results To: KEITH DODRILL
Address: MILITARY OCEAN TERMINAL RT 169 BLD 414A
BAYONNE NEW JERSEY 07002
Phone: (201) 823-5818

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	TPH METHOD 418.1	BTEX METHOD 8270C									CLIENT COMMENTS
Turnaround Time					14DAY	14DAY									
# of Containers					2ea	2ea									
Container Type					8oz	8oz									
Preservative Used					N/A	N/A									
Type of Analysis															Lab Cooler No.
MB-PRC-EXCAVBASE-006	11-18-98	1700	SOIL	KD	1	1									EAST SIDE OF WEST PORTION
MB-PRC EXCAVBASE-006D	11-18-98	1705	SOIL	KD	1	1									WEST PORTION
MB-PRC EXCAVBASE-007	11-18-98	1710	SOIL	KD	1	1									WEST SIDE OF WEST PORTION

Relinquished By	Date/Time	Received By	Relinquished By	Received for Laboratory By	Date/Time
[signature]	11-18-98 1500	FEDEX: 808550809467		[signature]	11/19/98 1:30PM

Relinquished By	Date/Time	Received By	Date/Time	Shipper	Airbill No.

Relinquished By	Date/Time	Received By	Lab Comments	Temp
				4.1°C

G.P. W.O. _____

GP ENVIRONMENTAL SERVICES

SAMPLE RECEIPT CHECKLIST

W.O. No. 9811194

Client Name Radian Int

Date Received 11/19/98

Time Received 9:35 AM

Received By Sw

Carrier Name Fed Ex

Prepared (Logged In) By Sw 11/19/98
Initials Date

Project 70003619

Site

VOA Holding Blank I.D. No.

	YES	NO
Airbill/Manifest Present? No. 8075507 0 9467	✓	
Shipping Container in Good Condition?	✓	
Custody Seals Present on Shipping Container? Condition: Good ✓ Broken	✓	
Chain-of-Custody Present?	✓	
Chain-of-Custody Agrees with Sample Labels?	✓	
Chain-of-Custody Signed?	✓	
Packing Present in Shipping Container? Type of Packing [illegible]	✓	
Custody Seals on Sample Bottles? Condition: Good Broken		✓
Total Number of Sample Bottles 6		
Total Number of Samples 3		
Samples Intact?	✓	
Sufficient Sample Volume for Indicated Test?	✓	

	YES	NO
Trip Blanks Received? No. of Sets		✓
VOA Vials Have Zero Headspace?	NR	
Preservatives Added to Sample?	NR	
pH Check Required? Performed By?	NR	
Ice Present in Shipping Container?	✓	

Container#	Temperature
#1	4.1°C

11/19/98

Project Manager Contacted?
Name: Paul Ioannides
Date Contacted: 11/19/98

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A.

COMMENTS:

Checklist Completed by [signature]

Date 11/19/98

GP Work Order # 9812118

SAMPLE ANALYSIS REPORT

Prepared For:

RADIAN INTERNATIONAL
MILITARY OCEAN TERMINAL
BAYONNE, NJ 07002

MOYBY 80003619

Prepared By:

GPL Laboratories, LLLP
202 Perry Parkway
Gaithersburg, MD 20877

February 1, 1999

Yemane Yohannes, Laboratory Director

GPL LABORATORIES, LLLP
ANALYTICAL RESULTS

Project: MOYBY 80003619

RADIAN INTERNATIONAL
MILITARY OCEAN TERMINAL
BAYONNE, NJ 07002
Atten: KEITH DODRILL

GPL LABORATORIES, LLLP
202 Perry Parkway
Gaithersburg, MD 20877

Atten: Client Services
Phone: (301) 926-6802

Certified by: _____

SAMPLE IDENTIFICATION

GP ID	Client ID
9812118-01A	MB-PRC-SIDEWALL-001
9812118-02A	MB-PRC-SIDEWALL-002
9812118-03A	MB-PRC-SIDEWALL-003
9812118-04A	MB-PRC-SIDEWALL-004
9812118-05A	MB-PRC-SIDEWALL-005
9812118-06A	MB-PRC-SIDEWALL-006
9812118-07A	MB-PRC-SIDEWALL-007
9812118-08A	MB-PRC-SIDEWALL-008
9812118-09A	MB-PRC-SIDEWALL-009
9812118-10A	MB-PRC-SIDEWALL-010
9812118-11A	MB-PRC-SIDEWALL-011

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-01A
Client ID: MB-PRC-SIDEWALL-001
Collected: 12/14/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: AK
Analyzed: 01/04/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	3900	
Phenol	BQL	3900	
2-Chlorophenol	BQL	3900	
1,3-Dichlorobenzene	BQL	3900	
1,4-Dichlorobenzene	BQL	3900	
1,2-Dichlorobenzene	BQL	3900	
2,2'-oxybis(1-chloropropane)	BQL	3900	
2-Methylphenol	BQL	3900	
Hexachloroethane	BQL	3900	
N-Nitroso-di-n-propylamine	BQL	3900	
4-Methylphenol	BQL	3900	
Nitrobenzene	BQL	3900	
Isophorone	BQL	3900	
2-Nitrophenol	BQL	3900	
2,4-Dimethylphenol	BQL	3900	
bis(2-Chloroethoxy)methane	BQL	3900	
2,4-Dichlorophenol	BQL	3900	
1,2,4-Trichlorobenzene	BQL	3900	
Naphthalene	BQL	3900	
4-Chloroaniline	BQL	3900	
Hexachlorobutadiene	BQL	3900	
4-Chloro-3-methylphenol	BQL	3900	
2-Methylnaphthalene	BQL	3900	
Hexachlorocyclopentadiene	BQL	3900	
2,4,6-Trichlorophenol	BQL	3900	
2,4,5-Trichlorophenol	BQL	20000	
2-Chloronaphthalene	BQL	3900	
2-Nitroaniline	BQL	20000	
Acenaphthylene	BQL	3900	
Dimethylphthalate	BQL	3900	
2,6-Dinitrotoluene	BQL	3900	
Acenaphthene	BQL	3900	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-01A
Client ID: MB-PRC-SIDEWALL-001
Collected: 12/14/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: AK
Analyzed: 01/04/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	20000	
2,4-Dinitrophenol	BQL	20000	
Dibenzofuran	BQL	3900	
2,4-Dinitrotoluene	BQL	3900	
4-Nitrophenol	BQL	20000	
Fluorene	BQL	3900	
4-Chlorophenyl-phenylether	BQL	3900	
Diethylphthalate	BQL	3900	
4-Nitroaniline	BQL	20000	
4,6-Dinitro-2-methylphenol	BQL	20000	
N-nitrosodiphenylamine	BQL	3900	
4-Bromophenyl-phenylether	BQL	3900	
Hexachlorobenzene	BQL	3900	
Pentachlorophenol	BQL	20000	
Phenanthrene	BQL	3900	
Anthracene	BQL	3900	
Carbazole	BQL	3900	
di-n-Butylphthalate	BQL	3900	
Fluoranthene	BQL	3900	
Pyrene	430	3900	JD
Butylbenzylphthalate	BQL	3900	
3,3'-Dichlorobenzidine	BQL	7800	
Benzo[a]anthracene	BQL	3900	
Chrysene	BQL	3900	
bis(2-Ethylhexyl)phthalate	BQL	3900	
di-n-Octylphthalate	BQL	3900	
Benzo[b]fluoranthene	BQL	3900	
Benzo[k]fluoranthene	BQL	3900	
Benzo[a]pyrene	BQL	3900	
Indeno[1,2,3-cd]pyrene	BQL	3900	
Dibenz[a,h]anthracene	BQL	3900	
Benzo[g,h,i]perylene	BQL	3900	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-02A
Client ID: MB-PRC-SIDEWALL-002
Collected: 12/14/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: AK
Analyzed: 01/04/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	3900	
Phenol	BQL	3900	
2-Chlorophenol	BQL	3900	
1,3-Dichlorobenzene	BQL	3900	
1,4-Dichlorobenzene	BQL	3900	
1,2-Dichlorobenzene	BQL	3900	
2,2'-oxybis(1-chloropropane)	BQL	3900	
2-Methylphenol	BQL	3900	
Hexachloroethane	BQL	3900	
N-Nitroso-di-n-propylamine	BQL	3900	
4-Methylphenol	BQL	3900	
Nitrobenzene	BQL	3900	
Isophorone	BQL	3900	
2-Nitrophenol	BQL	3900	
2,4-Dimethylphenol	BQL	3900	
bis(2-Chloroethoxy)methane	BQL	3900	
2,4-Dichlorophenol	BQL	3900	
1,2,4-Trichlorobenzene	BQL	3900	
Naphthalene	BQL	3900	
4-Chloroaniline	BQL	3900	
Hexachlorobutadiene	BQL	3900	
4-Chloro-3-methylphenol	BQL	3900	
2-Methylnaphthalene	BQL	3900	
Hexachlorocyclopentadiene	BQL	3900	
2,4,6-Trichlorophenol	BQL	3900	
2,4,5-Trichlorophenol	BQL	20000	
2-Chloronaphthalene	BQL	3900	
2-Nitroaniline	BQL	20000	
Acenaphthylene	BQL	3900	
Dimethylphthalate	BQL	3900	
2,6-Dinitrotoluene	BQL	3900	
Acenaphthene	BQL	3900	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-02A
Client ID: MB-PRC-SIDEWALL-002
Collected: 12/14/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: AK
Analyzed: 01/04/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	20000	
2,4-Dinitrophenol	BQL	20000	
Dibenzofuran	BQL	3900	
2,4-Dinitrotoluene	BQL	3900	
4-Nitrophenol	BQL	20000	
Fluorene	BQL	3900	
4-Chlorophenyl-phenylether	BQL	3900	
Diethylphthalate	BQL	3900	
4-Nitroaniline	BQL	20000	
4,6-Dinitro-2-methylphenol	BQL	20000	
N-nitrosodiphenylamine	BQL	3900	
4-Bromophenyl-phenylether	BQL	3900	
Hexachlorobenzene	BQL	3900	
Pentachlorophenol	BQL	20000	
Phenanthrene	BQL	3900	
Anthracene	BQL	3900	
Carbazole	BQL	3900	
di-n-Butylphthalate	BQL	3900	
Fluoranthene	BQL	3900	
Pyrene	BQL	3900	
Butylbenzylphthalate	BQL	3900	
3,3'-Dichlorobenzidine	BQL	7800	
Benzo[a]anthracene	BQL	3900	
Chrysene	BQL	3900	
bis(2-Ethylhexyl)phthalate	BQL	3900	
di-n-Octylphthalate	BQL	3900	
Benzo[b]fluoranthene	BQL	3900	
Benzo[k]fluoranthene	BQL	3900	
Benzo[a]pyrene	BQL	3900	
Indeno[1,2,3-cd]pyrene	BQL	3900	
Dibenz[a,h]anthracene	BQL	3900	
Benzo[g,h,i]perylene	BQL	3900	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-03A
Client ID: MB-PRC-SIDEWALL-003
Collected: 12/14/98
Dilution: 20

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 01/11/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	7800	
Phenol	BQL	7800	
2-Chlorophenol	BQL	7800	
1,3-Dichlorobenzene	BQL	7800	
1,4-Dichlorobenzene	BQL	7800	
1,2-Dichlorobenzene	BQL	7800	
2,2'-oxybis(1-chloropropane)	BQL	7800	
2-Methylphenol	BQL	7800	
Hexachloroethane	BQL	7800	
N-Nitroso-di-n-propylamine	BQL	7800	
4-Methylphenol	BQL	7800	
Nitrobenzene	BQL	7800	
Isophorone	BQL	7800	
2-Nitrophenol	BQL	7800	
2,4-Dimethylphenol	BQL	7800	
bis(2-Chloroethoxy)methane	BQL	7800	
2,4-Dichlorophenol	BQL	7800	
1,2,4-Trichlorobenzene	BQL	7800	
Naphthalene	BQL	7800	
4-Chloroaniline	BQL	7800	
Hexachlorobutadiene	BQL	7800	
4-Chloro-3-methylphenol	BQL	7800	
2-Methylnaphthalene	810	7800	JD
Hexachlorocyclopentadiene	BQL	7800	
2,4,6-Trichlorophenol	BQL	7800	
2,4,5-Trichlorophenol	BQL	39000	
2-Chloronaphthalene	BQL	7800	
2-Nitroaniline	BQL	39000	
Acenaphthylene	BQL	7800	
Dimethylphthalate	BQL	7800	
2,6-Dinitrotoluene	BQL	7800	
Acenaphthene	1100	7800	JD

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-03A
Client ID: MB-PRC-SIDEWALL-003
Collected: 12/14/98
Dilution: 20

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 01/11/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	39000	
2,4-Dinitrophenol	BQL	39000	
Dibenzofuran	BQL	7800	
2,4-Dinitrotoluene	BQL	7800	
4-Nitrophenol	BQL	39000	
Fluorene	BQL	7800	
4-Chlorophenyl-phenylether	BQL	7800	
Diethylphthalate	BQL	7800	
4-Nitroaniline	BQL	39000	
4,6-Dinitro-2-methylphenol	BQL	39000	
N-nitrosodiphenylamine	BQL	7800	
4-Bromophenyl-phenylether	BQL	7800	
Hexachlorobenzene	BQL	7800	
Pentachlorophenol	BQL	39000	
Phenanthrene	2100	7800	JD
Anthracene	BQL	7800	
Carbazole	BQL	7800	
di-n-Butylphthalate	BQL	7800	
Fluoranthene	BQL	7800	
Pyrene	1400	7800	JD
Butylbenzylphthalate	BQL	7800	
3,3'-Dichlorobenzidine	BQL	16000	
Benzo[a]anthracene	BQL	7800	
Chrysene	BQL	7800	
bis(2-Ethylhexyl)phthalate	830	7800	JD
di-n-Octylphthalate	BQL	7800	
Benzo[b]fluoranthene	BQL	7800	
Benzo[k]fluoranthene	BQL	7800	
Benzo[a]pyrene	BQL	7800	
Indeno[1,2,3-cd]pyrene	BQL	7800	
Dibenz[a,h]anthracene	BQL	7800	
Benzo[g,h,i]perylene	BQL	7800	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-04A
Client ID: MB-PRC-SIDEWALL-004
Collected: 12/14/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: AK
Analyzed: 01/04/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	3600	
Phenol	BQL	3600	
2-Chlorophenol	BQL	3600	
1,3-Dichlorobenzene	BQL	3600	
1,4-Dichlorobenzene	BQL	3600	
1,2-Dichlorobenzene	BQL	3600	
2,2'-oxybis(1-chloropropane)	BQL	3600	
2-Methylphenol	BQL	3600	
Hexachloroethane	BQL	3600	
N-Nitroso-di-n-propylamine	BQL	3600	
4-Methylphenol	BQL	3600	
Nitrobenzene	BQL	3600	
Isophorone	BQL	3600	
2-Nitrophenol	BQL	3600	
2,4-Dimethylphenol	BQL	3600	
bis(2-Chloroethoxy)methane	BQL	3600	
2,4-Dichlorophenol	BQL	3600	
1,2,4-Trichlorobenzene	BQL	3600	
Naphthalene	BQL	3600	
4-Chloroaniline	BQL	3600	
Hexachlorobutadiene	BQL	3600	
4-Chloro-3-methylphenol	BQL	3600	
2-Methylnaphthalene	BQL	3600	
Hexachlorocyclopentadiene	BQL	3600	
2,4,6-Trichlorophenol	BQL	3600	
2,4,5-Trichlorophenol	BQL	18000	
2-Chloronaphthalene	BQL	3600	
2-Nitroaniline	BQL	18000	
Acenaphthylene	BQL	3600	
Dimethylphthalate	BQL	3600	
2,6-Dinitrotoluene	BQL	3600	
Acenaphthene	BQL	3600	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-04A
Client ID: MB-PRC-SIDEWALL-004
Collected: 12/14/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: AK
Analyzed: 01/04/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	18000	
2,4-Dinitrophenol	BQL	18000	
Dibenzofuran	BQL	3600	
2,4-Dinitrotoluene	BQL	3600	
4-Nitrophenol	BQL	18000	
Fluorene	BQL	3600	
4-Chlorophenyl-phenylether	BQL	3600	
Diethylphthalate	BQL	3600	
4-Nitroaniline	BQL	18000	
4,6-Dinitro-2-methylphenol	BQL	18000	
N-nitrosodiphenylamine	BQL	3600	
4-Bromophenyl-phenylether	BQL	3600	
Hexachlorobenzene	BQL	3600	
Pentachlorophenol	BQL	18000	
Phenanthrene	BQL	3600	
Anthracene	BQL	3600	
Carbazole	BQL	3600	
di-n-Butylphthalate	BQL	3600	
Fluoranthene	BQL	3600	
Pyrene	450	3600	JD
Butylbenzylphthalate	BQL	3600	
3,3'-Dichlorobenzidine	BQL	7200	
Benzo[a]anthracene	BQL	3600	
Chrysene	BQL	3600	
bis(2-Ethylhexyl)phthalate	BQL	3600	
di-n-Octylphthalate	BQL	3600	
Benzo[b]fluoranthene	BQL	3600	
Benzo[k]fluoranthene	BQL	3600	
Benzo[a]pyrene	BQL	3600	
Indeno[1,2,3-cd]pyrene	BQL	3600	
Dibenz[a,h]anthracene	BQL	3600	
Benzo[g,h,i]perylene	BQL	3600	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-05A
Client ID: MB-PRC-SIDEWALL-005
Collected: 12/14/98
Dilution: 50

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 01/11/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	19000	
Phenol	BQL	19000	
2-Chlorophenol	BQL	19000	
1,3-Dichlorobenzene	BQL	19000	
1,4-Dichlorobenzene	BQL	19000	
1,2-Dichlorobenzene	BQL	19000	
2,2'-oxybis(1-chloropropane)	BQL	19000	
2-Methylphenol	BQL	19000	
Hexachloroethane	BQL	19000	
N-Nitroso-di-n-propylamine	BQL	19000	
4-Methylphenol	BQL	19000	
Nitrobenzene	BQL	19000	
Isophorone	BQL	19000	
2-Nitrophenol	BQL	19000	
2,4-Dimethylphenol	BQL	19000	
bis(2-Chloroethoxy)methane	BQL	19000	
2,4-Dichlorophenol	BQL	19000	
1,2,4-Trichlorobenzene	BQL	19000	
Naphthalene	BQL	19000	
4-Chloroaniline	BQL	19000	
Hexachlorobutadiene	BQL	19000	
4-Chloro-3-methylphenol	BQL	19000	
2-Methylnaphthalene	BQL	19000	
Hexachlorocyclopentadiene	BQL	19000	
2,4,6-Trichlorophenol	BQL	19000	
2,4,5-Trichlorophenol	BQL	95000	
2-Chloronaphthalene	BQL	19000	
2-Nitroaniline	BQL	95000	
Acenaphthylene	BQL	19000	
Dimethylphthalate	BQL	19000	
2,6-Dinitrotoluene	BQL	19000	
Acenaphthene	BQL	19000	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-05A
Client ID: MB-PRC-SIDEWALL-005
Collected: 12/14/98
Dilution: 50

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 01/11/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	95000	
2,4-Dinitrophenol	BQL	95000	
Dibenzofuran	BQL	19000	
2,4-Dinitrotoluene	BQL	19000	
4-Nitrophenol	BQL	95000	
Fluorene	BQL	19000	
4-Chlorophenyl-phenylether	BQL	19000	
Diethylphthalate	BQL	19000	
4-Nitroaniline	BQL	95000	
4,6-Dinitro-2-methylphenol	BQL	95000	
N-nitrosodiphenylamine	BQL	19000	
4-Bromophenyl-phenylether	BQL	19000	
Hexachlorobenzene	BQL	19000	
Pentachlorophenol	BQL	95000	
Phenanthrene	BQL	19000	
Anthracene	BQL	19000	
Carbazole	BQL	19000	
di-n-Butylphthalate	BQL	19000	
Fluoranthene	BQL	19000	
Pyrene	4300	19000	JD
Butylbenzylphthalate	BQL	19000	
3,3'-Dichlorobenzidine	BQL	38000	
Benzo[a]anthracene	BQL	19000	
Chrysene	BQL	19000	
bis(2-Ethylhexyl)phthalate	BQL	19000	
di-n-Octylphthalate	BQL	19000	
Benzo[b]fluoranthene	BQL	19000	
Benzo[k]fluoranthene	BQL	19000	
Benzo[a]pyrene	BQL	19000	
Indeno[1,2,3-cd]pyrene	BQL	19000	
Dibenz[a,h]anthracene	BQL	19000	
Benzo[g,h,i]perylene	BQL	19000	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-06A
Client ID: MB-PRC-SIDEWALL-006
Collected: 12/14/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: AK
Analyzed: 01/04/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	4000	
Phenol	BQL	4000	
2-Chlorophenol	BQL	4000	
1,3-Dichlorobenzene	BQL	4000	
1,4-Dichlorobenzene	BQL	4000	
1,2-Dichlorobenzene	BQL	4000	
2,2'-oxybis(1-chloropropane)	BQL	4000	
2-Methylphenol	BQL	4000	
Hexachloroethane	BQL	4000	
N-Nitroso-di-n-propylamine	BQL	4000	
4-Methylphenol	BQL	4000	
Nitrobenzene	BQL	4000	
Isophorone	BQL	4000	
2-Nitrophenol	BQL	4000	
2,4-Dimethylphenol	BQL	4000	
bis(2-Chloroethoxy)methane	BQL	4000	
2,4-Dichlorophenol	BQL	4000	
1,2,4-Trichlorobenzene	BQL	4000	
Naphthalene	BQL	4000	
4-Chloroaniline	BQL	4000	
Hexachlorobutadiene	BQL	4000	
4-Chloro-3-methylphenol	BQL	4000	
2-Methylnaphthalene	BQL	4000	
Hexachlorocyclopentadiene	BQL	4000	
2,4,6-Trichlorophenol	BQL	4000	
2,4,5-Trichlorophenol	BQL	20000	
2-Chloronaphthalene	BQL	4000	
2-Nitroaniline	BQL	20000	
Acenaphthylene	BQL	4000	
Dimethylphthalate	BQL	4000	
2,6-Dinitrotoluene	BQL	4000	
Acenaphthene	2000	4000	JD

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-06A
Client ID: MB-PRC-SIDEWALL-006
Collected: 12/14/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: AK
Analyzed: 01/04/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	20000	
2,4-Dinitrophenol	BQL	20000	
Dibenzofuran	BQL	4000	
2,4-Dinitrotoluene	BQL	4000	
4-Nitrophenol	BQL	20000	
Fluorene	BQL	4000	
4-Chlorophenyl-phenylether	BQL	4000	
Diethylphthalate	BQL	4000	
4-Nitroaniline	BQL	20000	
4,6-Dinitro-2-methylphenol	BQL	20000	
N-nitrosodiphenylamine	BQL	4000	
4-Bromophenyl-phenylether	BQL	4000	
Hexachlorobenzene	BQL	4000	
Pentachlorophenol	BQL	20000	
Phenanthrene	BQL	4000	
Anthracene	BQL	4000	
Carbazole	BQL	4000	
di-n-Butylphthalate	BQL	4000	
Fluoranthene	BQL	4000	
Pyrene	3300	4000	JD
Butylbenzylphthalate	BQL	4000	
3,3'-Dichlorobenzidine	BQL	7900	
Benzo[a]anthracene	BQL	4000	
Chrysene	BQL	4000	
bis(2-Ethylhexyl)phthalate	BQL	4000	
di-n-Octylphthalate	BQL	4000	
Benzo[b]fluoranthene	BQL	4000	
Benzo[k]fluoranthene	BQL	4000	
Benzo[a]pyrene	BQL	4000	
Indeno[1,2,3-cd]pyrene	BQL	4000	
Dibenz[a,h]anthracene	BQL	4000	
Benzo[g,h,i]perylene	BQL	4000	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-07A
Client ID: MB-PRC-SIDEWALL-007
Collected: 12/14/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: AK
Analyzed: 01/12/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	3800	
Phenol	BQL	3800	
2-Chlorophenol	BQL	3800	
1,3-Dichlorobenzene	BQL	3800	
1,4-Dichlorobenzene	BQL	3800	
1,2-Dichlorobenzene	BQL	3800	
2,2'-oxybis(1-chloropropane)	BQL	3800	
2-Methylphenol	BQL	3800	
Hexachloroethane	BQL	3800	
N-Nitroso-di-n-propylamine	BQL	3800	
4-Methylphenol	BQL	3800	
Nitrobenzene	BQL	3800	
Isophorone	BQL	3800	
2-Nitrophenol	BQL	3800	
2,4-Dimethylphenol	BQL	3800	
bis(2-Chloroethoxy)methane	BQL	3800	
2,4-Dichlorophenol	BQL	3800	
1,2,4-Trichlorobenzene	BQL	3800	
Naphthalene	1100	3800	JD
4-Chloroaniline	BQL	3800	
Hexachlorobutadiene	BQL	3800	
4-Chloro-3-methylphenol	BQL	3800	
2-Methylnaphthalene	3300	3800	JD
Hexachlorocyclopentadiene	BQL	3800	
2,4,6-Trichlorophenol	BQL	3800	
2,4,5-Trichlorophenol	BQL	19000	
2-Chloronaphthalene	BQL	3800	
2-Nitroaniline	BQL	19000	
Acenaphthylene	BQL	3800	
Dimethylphthalate	BQL	3800	
2,6-Dinitrotoluene	BQL	3800	
Acenaphthene	BQL	3800	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-07A
Client ID: MB-PRC-SIDEWALL-007
Collected: 12/14/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: AK
Analyzed: 01/12/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	19000	
2,4-Dinitrophenol	BQL	19000	
Dibenzofuran	BQL	3800	
2,4-Dinitrotoluene	BQL	3800	
4-Nitrophenol	BQL	19000	
Fluorene	BQL	3800	
4-Chlorophenyl-phenylether	BQL	3800	
Diethylphthalate	BQL	3800	
4-Nitroaniline	BQL	19000	
4,6-Dinitro-2-methylphenol	BQL	19000	
N-nitrosodiphenylamine	BQL	3800	
4-Bromophenyl-phenylether	BQL	3800	
Hexachlorobenzene	BQL	3800	
Pentachlorophenol	BQL	19000	
Phenanthrene	2100	3800	JD
Anthracene	BQL	3800	
Carbazole	BQL	3800	
di-n-Butylphthalate	BQL	3800	
Fluoranthene	BQL	3800	
Pyrene	1000	3800	JD
Butylbenzylphthalate	BQL	3800	
3,3'-Dichlorobenzidine	BQL	7600	
Benzo[a]anthracene	BQL	3800	
Chrysene	BQL	3800	
bis(2-Ethylhexyl)phthalate	BQL	3800	
di-n-Octylphthalate	BQL	3800	
Benzo[b]fluoranthene	BQL	3800	
Benzo[k]fluoranthene	BQL	3800	
Benzo[a]pyrene	BQL	3800	
Indeno[1,2,3-cd]pyrene	BQL	3800	
Dibenz[a,h]anthracene	BQL	3800	
Benzo[g,h,i]perylene	BQL	3800	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-08A
Client ID: MB-PRC-SIDEWALL-008
Collected: 12/14/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: AK
Analyzed: 01/12/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	3700	
Phenol	BQL	3700	
2-Chlorophenol	BQL	3700	
1,3-Dichlorobenzene	BQL	3700	
1,4-Dichlorobenzene	BQL	3700	
1,2-Dichlorobenzene	BQL	3700	
2,2'-oxybis(1-chloropropane)	BQL	3700	
2-Methylphenol	BQL	3700	
Hexachloroethane	BQL	3700	
N-Nitroso-di-n-propylamine	BQL	3700	
4-Methylphenol	BQL	3700	
Nitrobenzene	BQL	3700	
Isophorone	BQL	3700	
2-Nitrophenol	BQL	3700	
2,4-Dimethylphenol	BQL	3700	
bis(2-Chloroethoxy)methane	BQL	3700	
2,4-Dichlorophenol	BQL	3700	
1,2,4-Trichlorobenzene	BQL	3700	
Naphthalene	BQL	3700	
4-Chloroaniline	BQL	3700	
Hexachlorobutadiene	BQL	3700	
4-Chloro-3-methylphenol	BQL	3700	
2-Methylnaphthalene	BQL	3700	
Hexachlorocyclopentadiene	BQL	3700	
2,4,6-Trichlorophenol	BQL	3700	
2,4,5-Trichlorophenol	BQL	18000	
2-Chloronaphthalene	BQL	3700	
2-Nitroaniline	BQL	18000	
Acenaphthylene	BQL	3700	
Dimethylphthalate	BQL	3700	
2,6-Dinitrotoluene	BQL	3700	
Acenaphthene	BQL	3700	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-08A
Client ID: MB-PRC-SIDEWALL-008
Collected: 12/14/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: AK
Analyzed: 01/12/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	18000	
2,4-Dinitrophenol	BQL	18000	
Dibenzofuran	BQL	3700	
2,4-Dinitrotoluene	BQL	3700	
4-Nitrophenol	BQL	18000	
Fluorene	BQL	3700	
4-Chlorophenyl-phenylether	BQL	3700	
Diethylphthalate	BQL	3700	
4-Nitroaniline	BQL	18000	
4,6-Dinitro-2-methylphenol	BQL	18000	
N-nitrosodiphenylamine	BQL	3700	
4-Bromophenyl-phenylether	BQL	3700	
Hexachlorobenzene	BQL	3700	
Pentachlorophenol	BQL	18000	
Phenanthrene	430	3700	JD
Anthracene	BQL	3700	
Carbazole	BQL	3700	
di-n-Butylphthalate	BQL	3700	
Fluoranthene	BQL	3700	
Pyrene	530	3700	JD
Butylbenzylphthalate	BQL	3700	
3,3'-Dichlorobenzidine	BQL	7400	
Benzo[a]anthracene	BQL	3700	
Chrysene	BQL	3700	
bis(2-Ethylhexyl)phthalate	BQL	3700	
di-n-Octylphthalate	BQL	3700	
Benzo[b]fluoranthene	BQL	3700	
Benzo[k]fluoranthene	BQL	3700	
Benzo[a]pyrene	BQL	3700	
Indeno[1,2,3-cd]pyrene	BQL	3700	
Dibenz[a,h]anthracene	BQL	3700	
Benzo[g,h,i]perylene	BQL	3700	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-09A
Client ID: MB-PRC-SIDEWALL-009
Collected: 12/14/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: AK
Analyzed: 01/04/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	3700	
Phenol	BQL	3700	
2-Chlorophenol	BQL	3700	
1,3-Dichlorobenzene	BQL	3700	
1,4-Dichlorobenzene	BQL	3700	
1,2-Dichlorobenzene	BQL	3700	
2,2'-oxybis(1-chloropropane)	BQL	3700	
2-Methylphenol	BQL	3700	
Hexachloroethane	BQL	3700	
N-Nitroso-di-n-propylamine	BQL	3700	
4-Methylphenol	BQL	3700	
Nitrobenzene	BQL	3700	
Isophorone	BQL	3700	
2-Nitrophenol	BQL	3700	
2,4-Dimethylphenol	BQL	3700	
bis(2-Chloroethoxy)methane	BQL	3700	
2,4-Dichlorophenol	BQL	3700	
1,2,4-Trichlorobenzene	BQL	3700	
Naphthalene	BQL	3700	
4-Chloroaniline	BQL	3700	
Hexachlorobutadiene	BQL	3700	
4-Chloro-3-methylphenol	BQL	3700	
2-Methylnaphthalene	BQL	3700	
Hexachlorocyclopentadiene	BQL	3700	
2,4,6-Trichlorophenol	BQL	3700	
2,4,5-Trichlorophenol	BQL	19000	
2-Chloronaphthalene	BQL	3700	
2-Nitroaniline	BQL	19000	
Acenaphthylene	BQL	3700	
Dimethylphthalate	BQL	3700	
2,6-Dinitrotoluene	BQL	3700	
Acenaphthene	BQL	3700	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-09A
Client ID: MB-PRC-SIDEWALL-009
Collected: 12/14/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: AK
Analyzed: 01/04/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	19000	
2,4-Dinitrophenol	BQL	19000	
Dibenzofuran	BQL	3700	
2,4-Dinitrotoluene	BQL	3700	
4-Nitrophenol	BQL	19000	
Fluorene	BQL	3700	
4-Chlorophenyl-phenylether	BQL	3700	
Diethylphthalate	BQL	3700	
4-Nitroaniline	BQL	19000	
4,6-Dinitro-2-methylphenol	BQL	19000	
N-nitrosodiphenylamine	BQL	3700	
4-Bromophenyl-phenylether	BQL	3700	
Hexachlorobenzene	BQL	3700	
Pentachlorophenol	BQL	19000	
Phenanthrene	3300	3700	JD
Anthracene	BQL	3700	
Carbazole	BQL	3700	
di-n-Butylphthalate	BQL	3700	
Fluoranthene	BQL	3700	
Pyrene	3100	3700	JD
Butylbenzylphthalate	BQL	3700	
3,3'-Dichlorobenzidine	BQL	7500	
Benzo[a]anthracene	BQL	3700	
Chrysene	BQL	3700	
bis(2-Ethylhexyl)phthalate	BQL	3700	
di-n-Octylphthalate	BQL	3700	
Benzo[b]fluoranthene	BQL	3700	
Benzo[k]fluoranthene	BQL	3700	
Benzo[a]pyrene	BQL	3700	
Indeno[1,2,3-cd]pyrene	BQL	3700	
Dibenz[a,h]anthracene	BQL	3700	
Benzo[g,h,i]perylene	BQL	3700	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-10A
Client ID: MB-PRC-SIDEWALL-010
Collected: 12/14/98
Dilution: 1

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: AK
Analyzed: 01/05/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	370	
Phenol	BQL	370	
2-Chlorophenol	BQL	370	
1,3-Dichlorobenzene	BQL	370	
1,4-Dichlorobenzene	BQL	370	
1,2-Dichlorobenzene	BQL	370	
2,2'-oxybis(1-chloropropane)	BQL	370	
2-Methylphenol	BQL	370	
Hexachloroethane	BQL	370	
N-Nitroso-di-n-propylamine	BQL	370	
4-Methylphenol	BQL	370	
Nitrobenzene	BQL	370	
Isophorone	BQL	370	
2-Nitrophenol	BQL	370	
2,4-Dimethylphenol	BQL	370	
bis(2-Chloroethoxy)methane	BQL	370	
2,4-Dichlorophenol	BQL	370	
1,2,4-Trichlorobenzene	BQL	370	
Naphthalene	BQL	370	
4-Chloroaniline	BQL	370	
Hexachlorobutadiene	BQL	370	
4-Chloro-3-methylphenol	BQL	370	
2-Methylnaphthalene	BQL	370	
Hexachlorocyclopentadiene	BQL	370	
2,4,6-Trichlorophenol	BQL	370	
2,4,5-Trichlorophenol	BQL	1900	
2-Chloronaphthalene	BQL	370	
2-Nitroaniline	BQL	1900	
Acenaphthylene	BQL	370	
Dimethylphthalate	BQL	370	
2,6-Dinitrotoluene	BQL	370	
Acenaphthene	BQL	370	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-10A
Client ID: MB-PRC-SIDEWALL-010
Collected: 12/14/98
Dilution: 1

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: AK
Analyzed: 01/05/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	1900	
2,4-Dinitrophenol	BQL	1900	
Dibenzofuran	BQL	370	
2,4-Dinitrotoluene	BQL	370	
4-Nitrophenol	BQL	1900	
Fluorene	BQL	370	
4-Chlorophenyl-phenylether	BQL	370	
Diethylphthalate	BQL	370	
4-Nitroaniline	BQL	1900	
4,6-Dinitro-2-methylphenol	BQL	1900	
N-nitrosodiphenylamine	BQL	370	
4-Bromophenyl-phenylether	BQL	370	
Hexachlorobenzene	BQL	370	
Pentachlorophenol	BQL	1900	
Phenanthrene	BQL	370	
Anthracene	BQL	370	
Carbazole	BQL	370	
di-n-Butylphthalate	BQL	370	
Fluoranthene	BQL	370	
Pyrene	BQL	370	
Butylbenzylphthalate	BQL	370	
3,3'-Dichlorobenzidine	BQL	750	
Benzo[a]anthracene	BQL	370	
Chrysene	BQL	370	
bis(2-Ethylhexyl)phthalate	BQL	370	
di-n-Octylphthalate	BQL	370	
Benzo[b]fluoranthene	BQL	370	
Benzo[k]fluoranthene	BQL	370	
Benzo[a]pyrene	BQL	370	
Indeno[1,2,3-cd]pyrene	BQL	370	
Dibenz[a,h]anthracene	BQL	370	
Benzo[g,h,i]perylene	BQL	370	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-11A
Client ID: MB-PRC-SIDEWALL-011
Collected: 12/14/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: AK
Analyzed: 01/05/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	3800	
Phenol	BQL	3800	
2-Chlorophenol	BQL	3800	
1,3-Dichlorobenzene	1400	3800	JD
1,4-Dichlorobenzene	2500	3800	JD
1,2-Dichlorobenzene	BQL	3800	
2,2'-oxybis(1-chloropropane)	BQL	3800	
2-Methylphenol	BQL	3800	
Hexachloroethane	BQL	3800	
N-Nitroso-di-n-propylamine	BQL	3800	
4-Methylphenol	BQL	3800	
Nitrobenzene	BQL	3800	
Isophorone	BQL	3800	
2-Nitrophenol	BQL	3800	
2,4-Dimethylphenol	BQL	3800	
bis(2-Chloroethoxy)methane	BQL	3800	
2,4-Dichlorophenol	BQL	3800	
1,2,4-Trichlorobenzene	520	3800	JD
Naphthalene	BQL	3800	
4-Chloroaniline	BQL	3800	
Hexachlorobutadiene	BQL	3800	
4-Chloro-3-methylphenol	BQL	3800	
2-Methylnaphthalene	420000	3800	D
Hexachlorocyclopentadiene	BQL	3800	
2,4,6-Trichlorophenol	BQL	3800	
2,4,5-Trichlorophenol	BQL	19000	
2-Chloronaphthalene	BQL	3800	
2-Nitroaniline	BQL	19000	
Acenaphthylene	BQL	3800	
Dimethylphthalate	BQL	3800	
2,6-Dinitrotoluene	BQL	3800	
Acenaphthene	BQL	3800	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812118-11A
Client ID: MB-PRC-SIDEWALL-011
Collected: 12/14/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: AK
Analyzed: 01/05/99
Prepared: 12/21/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	19000	
2,4-Dinitrophenol	BQL	19000	
Dibenzofuran	BQL	3800	
2,4-Dinitrotoluene	BQL	3800	
4-Nitrophenol	BQL	19000	
Fluorene	BQL	3800	
4-Chlorophenyl-phenylether	BQL	3800	
Diethylphthalate	BQL	3800	
4-Nitroaniline	BQL	19000	
4,6-Dinitro-2-methylphenol	BQL	19000	
N-nitrosodiphenylamine	BQL	3800	
4-Bromophenyl-phenylether	BQL	3800	
Hexachlorobenzene	BQL	3800	
Pentachlorophenol	BQL	19000	
Phenanthrene	3700	3800	JD
Anthracene	BQL	3800	
Carbazole	BQL	3800	
di-n-Butylphthalate	BQL	3800	
Fluoranthene	BQL	3800	
Pyrene	2200	3800	JD
Butylbenzylphthalate	BQL	3800	
3,3'-Dichlorobenzidine	BQL	7500	
Benzo[a]anthracene	BQL	3800	
Chrysene	BQL	3800	
bis(2-Ethylhexyl)phthalate	BQL	3800	
di-n-Octylphthalate	BQL	3800	
Benzo[b]fluoranthene	BQL	3800	
Benzo[k]fluoranthene	BQL	3800	
Benzo[a]pyrene	BQL	3800	
Indeno[1,2,3-cd]pyrene	BQL	3800	
Dibenz[a,h]anthracene	BQL	3800	
Benzo[g,h,i]perylene	BQL	3800	

GPL LABORATORIES, LLLP
WET CHEMISTRY ANALYSIS RESULTS

GP ID: 9812118-01
Client ID: MB-PRC-SIDEWALL-001

Matrix: SOIL
Collected: 12/14/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	85.2		%			12/16/98 DT
Total Petroleum Hydrocarbons	MCAWW 418.1	66.2	57.3	mg/Kg	1	01/06/99	01/06/99 AS

GP ID: 9812118-02
Client ID: MB-PRC-SIDEWALL-002

Matrix: SOIL
Collected: 12/14/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	84.7		%			12/16/98 DT
Total Petroleum Hydrocarbons	MCAWW 418.1	110	30.3	mg/Kg	1	01/06/99	01/06/99 AS

GP ID: 9812118-03
Client ID: MB-PRC-SIDEWALL-003

Matrix: SOIL
Collected: 12/14/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	85.6		%			12/16/98 DT
Total Petroleum Hydrocarbons	MCAWW 418.1	2960	562	mg/Kg	10	01/06/99	01/06/99 AS

GP ID: 9812118-04
Client ID: MB-PRC-SIDEWALL-004

Matrix: SOIL
Collected: 12/14/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	91.8		%			12/16/98 DT
Total Petroleum Hydrocarbons	MCAWW 418.1	346	52.8	mg/Kg	1	01/06/99	01/06/99 AS

GP ID: 9812118-05
Client ID: MB-PRC-SIDEWALL-005

Matrix: SOIL
Collected: 12/14/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	88.5		%			12/16/98 DT
Total Petroleum Hydrocarbons	MCAWW 418.1	10400	1130	mg/Kg	40	01/06/99	01/06/99 AS

GPL LABORATORIES, LLLP
WET CHEMISTRY ANALYSIS RESULTS

GP ID: 9812118-06
Client ID: MB-PRC-SIDEWALL-006

Matrix: SOIL
Collected: 12/14/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	83.8		%			12/16/98 DT
Total Petroleum Hydrocarbons	MCAWW 418.1	19800	2980	mg/Kg	50	01/06/99	01/06/99 AS

GP ID: 9812118-07
Client ID: MB-PRC-SIDEWALL-007

Matrix: SOIL
Collected: 12/14/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	86.8		%			12/16/98 DT
Total Petroleum Hydrocarbons	MCAWW 418.1	256	57.5	mg/Kg	2	01/06/99	01/06/99 AS

GP ID: 9812118-08
Client ID: MB-PRC-SIDEWALL-008

Matrix: SOIL
Collected: 12/14/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	91.4		%			12/16/98 DT
Total Petroleum Hydrocarbons	MCAWW 418.1	1920	531	mg/Kg	20	01/06/99	01/06/99 AS

GP ID: 9812118-09
Client ID: MB-PRC-SIDEWALL-009

Matrix: SOIL
Collected: 12/14/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	88.8		%			12/16/98 DT
Total Petroleum Hydrocarbons	MCAWW 418.1	3860	548	mg/Kg	10	01/06/99	01/06/99 AS

GP ID: 9812118-10
Client ID: MB-PRC-SIDEWALL-010

Matrix: SOIL
Collected: 12/14/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	88.9		%			12/16/98 DT
Total Petroleum Hydrocarbons	MCAWW 418.1	55.0	27.8	mg/Kg	1	01/06/99	01/06/99 AS

GPL LABORATORIES, LLLP
WET CHEMISTRY ANALYSIS RESULTS

GP ID: 9812118-11
Client ID: MB-PRC-SIDEWALL-011

Matrix: SOIL
Collected: 12/14/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	88.0		%			12/16/98 DT
Total Petroleum Hydrocarbons	MCAWW 418.1	6280	694	mg/Kg	25	01/06/99	01/06/99 AS

GPL LABORATORIES, LLLP

Possible notes and definitions for this report:

BQL	= Below Quantitation Limit
J	= Value is less than the reporting limits but greater than zero
P	= Indicates that there is greater than 25% difference for detected pesticide/Aroclor results between the two GC columns
B	= Indicates that the compound was found in the associated blank
E	= Indicates that the concentration exceeded the calibration range of the instrument
U	= Indicates that the compound was analyzed for but not detected, number indicates the detection limit
D	= Indicates that the compound was found in an analysis at a secondary dilution factor
*	= Value obtained from a 1:5 dilution
+	= Value obtained from a 1:10 dilution
#	= Value obtained from a 1:20 dilution
=	= Value obtained from a 1:25 dilution
^	= Value obtained from a 1:50 dilution
~	= Value obtained from a 1:100 dilution
!	= Value obtained from a 1:250 dilution
@	= Value obtained from a 1:125 dilution (medium level)
$	= Value obtained from a 1:500 dilution
&	= Value obtained from a 1:1000 dilution
N	= Flashpoint not observed; heated to specified limit
R	= Flammable at room temperature
TNTC	= Too numerous to count
B.P.	= Detection limit taken from boiling point
F.F.	= Sample gave off flammable fumes

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference: _____

1 of 1 Pgs.

Project: MOTBY 80003609
Client: RADIAN INT.
Send Results To: LOUIS HARDEK
Address: MILLITARY OCEAN TERMINAL BT169 BLDG. 44A BAYONNE NJ. 07002
Phone: 201-823-5818

Turnaround Time	14 DAY	
# of Containers	11	11
Container Type	8 oz	8 oz
Preservative Used	N/A	N/A
Type of Analysis	TPH METHOD 418.1	BNA METHOD 8270C

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	Lab Cooler No.	CLIENT COMMENTS
MB-PRL SIDEWALL 001	12-14-98	10:00	SOIL	D.D.		SIDEWALL
MB-PRL SIDEWALL 002	↓	↓	↓	↓		SAMPLES @
MB-PRL SIDEWALL 003						30'
MB-PRL SIDEWALL 004						
MB-PRL SIDEWALL 005						
MB-PRL SIDEWALL 006						
MB-PRL SIDEWALL 007						
MB-PRL SIDEWALL 008						
MB-PRL SIDEWALL 009						
MB-PRL SIDEWALL 010						
MB-PRL SIDEWALL 011						

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	12-14-98 1700	FEDEX 8010437665031		[signature]	12/15/98 [illegible]

Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:

Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp:
				4.1°C

G.P. W.O. _____

GT ENVIRONMENTAL SERVICES

SAMPLE RECEIPT CHECKLIST

[illegible]D. No.	9812118	Carrier Name	Fed Ex
Client Name	Radian NJ	Prepared (Logged In) By	SG 12/15/98 (Initials Date)
Date Received	12/15/98	Project	MOTBY 8003619
Time Received	10:05 AM	Site	
Received By	SG	VOA Holding Blank I.D. No.	

	YES	NO		YES	NO
Airbill/Manifest Present? No. 806437665633 1	✓		Trip Blanks Received? No. of Sets	N/A	
Shipping Container in Good Condition?	✓		VOA Vials Have Zero Headspace?	N/A	
Custody Seals Present on Shipping Container? Condition: Good ____ Broken ____		✓	Preservatives Added to Sample?	N/A	
Chain-of-Custody Present?	✓		pH Check Required? Performed By?	N/A	
Chain-of-Custody Agrees with Sample Labels?	✓		Ice Present in Shipping Container?	✓	
[illegible]in-of-Custody Signed?	✓		Container# / Temperature		
Packing Present in Shipping Container? Type of Packing Bubble wrap	✓		#1 / 4.1°C		
Custody Seals on Sample Bottles? Condition: Good ____ Broken ____		✓	12/15/98		
Total Number of Sample Bottles 11					
Total Number of Samples 11					
Samples Intact?	✓		Project Manager Contacted? Name: ____ Date Contacted: ____		
Sufficient Sample Volume for Indicated Test?	✓				

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A.

COMMENTS: Sample MB PRC-sidewall-010 broken in shipping.

Checklist Completed by [signature]

Date 12/15/98

GP Work Order # 9812177

SAMPLE ANALYSIS REPORT

Prepared For:

RADIAN INTERNATIONAL
MILITARY OCEAN TERMINAL
BAYONNE, NJ 07002

MOTBY #80003619

Prepared By:

GPL Laboratories, LLLP
202 Perry Parkway
Gaithersburg, MD 20877

January 18, 1999

Yemane Yohannes, Laboratory Director

GPL LABORATORIES, LLLP
ANALYTICAL RESULTS

Project: MOTBY #80003619

RADIAN INTERNATIONAL
MILITARY OCEAN TERMINAL
BAYONNE, NJ 07002
Atten: KEITH DODRILL

GPL LABORATORIES, LLLP
202 Perry Parkway
Gaithersburg, MD 20877

Atten: Client Services
Phone: (301) 926-6802

Certified by: P.J.

SAMPLE IDENTIFICATION

GP ID	Client ID
9812177-01A	MB-WFP WWTPPOST 001
9812177-02A	MB-PRC GWSAMP 001
9812177-02B	
9812177-02C	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812177-02C
Client ID: MB-PRC GWSAMP 001
Collected: 12/22/98
Dilution: 1

Matrix: WATER
Method: SW846 8270C
Units: ug/L

Analyst: MN
Analyzed: 01/11/99
Prepared: 12/24/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	12	
Phenol	BQL	12	
2-Chlorophenol	BQL	12	
1,3-Dichlorobenzene	BQL	12	
1,4-Dichlorobenzene	BQL	12	
1,2-Dichlorobenzene	BQL	12	
2,2'-oxybis(1-chloropropane)	BQL	12	
2-Methylphenol	BQL	12	
Hexachloroethane	BQL	12	
N-Nitroso-di-n-propylamine	BQL	12	
4-Methylphenol	BQL	12	
Nitrobenzene	BQL	12	
Isophorone	BQL	12	
2-Nitrophenol	BQL	12	
2,4-Dimethylphenol	BQL	12	
bis(2-Chloroethoxy)methane	BQL	12	
2,4-Dichlorophenol	BQL	12	
1,2,4-Trichlorobenzene	BQL	12	
Naphthalene	BQL	12	
4-Chloroaniline	BQL	12	
Hexachlorobutadiene	BQL	12	
4-Chloro-3-methylphenol	BQL	12	
2-Methylnaphthalene	3	12	J
Hexachlorocyclopentadiene	BQL	12	
2,4,6-Trichlorophenol	BQL	12	
2,4,5-Trichlorophenol	BQL	62	
2-Chloronaphthalene	BQL	12	
2-Nitroaniline	BQL	62	
Acenaphthylene	BQL	12	
Dimethylphthalate	BQL	12	
2,6-Dinitrotoluene	BQL	12	
Acenaphthene	BQL	12	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812177-02C
Client ID: MB-PRC GWSAMP 001
Collected: 12/22/98
Dilution: 1

Matrix: WATER
Method: SW846 8270C
Units: ug/L

Analyst: MN
Analyzed: 01/11/99
Prepared: 12/24/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	62	
2,4-Dinitrophenol	BQL	62	
Dibenzofuran	BQL	12	
2,4-Dinitrotoluene	BQL	12	
4-Nitrophenol	BQL	62	
Fluorene	BQL	12	
4-Chlorophenyl-phenylether	BQL	12	
Diethylphthalate	BQL	12	
4-Nitroaniline	BQL	62	
4,6-Dinitro-2-methylphenol	BQL	62	
N-nitrosodiphenylamine	BQL	12	
4-Bromophenyl-phenylether	BQL	12	
Hexachlorobenzene	BQL	12	
Pentachlorophenol	BQL	62	
Phenanthrene	2	12	J
Anthracene	BQL	12	
Carbazole	BQL	12	
di-n-Butylphthalate	BQL	12	
Fluoranthene	BQL	12	
Pyrene	BQL	12	
Butylbenzylphthalate	BQL	12	
3,3'-Dichlorobenzidine	BQL	25	
Benzo[a]anthracene	BQL	12	
Chrysene	BQL	12	
bis(2-Ethylhexyl)phthalate	BQL	12	
di-n-Octylphthalate	BQL	12	
Benzo[b]fluoranthene	BQL	12	
Benzo[k]fluoranthene	BQL	12	
Benzo[a]pyrene	BQL	12	
Indeno[1,2,3-cd]pyrene	BQL	12	
Dibenz[a,h]anthracene	BQL	12	
Benzo[g,h,i]perylene	BQL	12	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9812177-02A
Client ID: MB-PRC GWSAMP 001
Collected: 12/22/98
Dilution: 1

Matrix: WATER
Method: SW846 8260B
Units: ug/L

Analyst: WF
Analyzed: 12/29/98
Prepared:

VOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
Chloromethane	BQL	10	
Bromomethane	BQL	10	
Vinyl chloride	BQL	10	
Chloroethane	BQL	10	
Methylene chloride	9	5	B
Acetone	BQL	10	
Carbon Disulfide	BQL	5	
1,1-Dichloroethene	1	5	J
1,1-Dichloroethane	BQL	5	
1,2-Dichloroethene(total)	BQL	5	
Chloroform	4	5	J
1,2-Dichloroethane	BQL	5	
2-Butanone	BQL	10	
1,1,1-Trichloroethane	BQL	5	
Carbon tetrachloride	BQL	5	
Bromodichloromethane	BQL	5	
1,2-Dichloropropane	BQL	5	
cis-1,3-Dichloropropene	BQL	5	
Trichloroethene	BQL	5	
Benzene	BQL	5	
Dibromochloromethane	BQL	5	
trans-1,3-Dichloropropene	BQL	5	
1,1,2-Trichloroethane	BQL	5	
Bromoform	BQL	5	
4-Methyl-2-pentanone	2	10	J
2-Hexanone	1	10	J
Tetrachloroethene	BQL	5	
1,1,2,2-Tetrachloroethane	BQL	5	
Toluene	BQL	5	
Chlorobenzene	BQL	5	
Ethylbenzene	BQL	5	
Styrene	BQL	5	
Xylene (total)	BQL	5	

GPL LABORATORIES, LLLP

Possible notes and definitions for this report:

BQL = Below Quantitation Limit

J = Value is less than the reporting limits but greater than zero

P = Indicates that there is greater than 25% difference for detected pesticide/Aroclor results between the two GC columns

B = Indicates that the compound was found in the associated blank

E = Indicates that the concentration exceeded the calibration range of the instrument

U = Indicates that the compound was analyzed for but not detected, number indicates the detection limit

D = Indicates that the compound was found in an analysis at a secondary dilution factor

***** = Value obtained from a 1:5 dilution

+ = Value obtained from a 1:10 dilution

= Value obtained from a 1:20 dilution

= = Value obtained from a 1:25 dilution

^ = Value obtained from a 1:50 dilution

~ = Value obtained from a 1:100 dilution

! = Value obtained from a 1:250 dilution

@ = Value obtained from a 1:125 dilution (medium level)

$ = Value obtained from a 1:500 dilution

& = Value obtained from a 1:1000 dilution

N = Flashpoint not observed; heated to specified limit

R = Flammable at room temperature

TNTC = Too numerous to count

B.P. = Detection limit taken from boiling point

F.F. = Sample gave off flammable fumes

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference _____

_____ of _____ Pgs.

Project: MOTBY # 80003619
Client RADIAN INT
Send Results To: MILITARY OCEAN TERMINAL
Address: RT169, BLDG. 44A
BAYONNE NJ 07002
Phone: 201-823-5818

Turnaround Time	48 HR	48 HR	48 HR	48 HR
# of Containers	1	1	2	2
Container Type	l	l	40 ML	l
Preservative Used			LH	
Type of Analysis	OIL/GREASE MET. 413.1	TPH MET. 418.1	VOC +10 MET. 8260	B/N+15 MET. 8270

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	OIL/GREASE MET. 413.1	TPH MET. 418.1	VOC +10 MET. 8260	B/N+15 MET. 8270							Lab Cooler No.	CLIENT COMMENTS
MB-WFP WWTPPOST 001	12-22-98	1010	WATER	DB	X	X										
MB-PRC GWSAMP 001	12-22-98	1030	WATER	JH			X									
MB-PRC GWSAMP 001	12-22-98	1030	WATER	JH												

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
J. Hurl	12-22-98 1700	FED EX #806437665610		C. Lyons	12/23/98 11:45 A

Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:

Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp:
				2.6

G.P. W.O. 93.12.77

ENVIRONMENTAL SERVICES

SAMPLE RECEIPT CHECKLIST

W.O. No.	9[illegible]-177	Carrier Name	Fed
Client Name	RADIAN NJ	Prepared (Logged In) By	Initials: [illegible] Date: 12/23/98
Date Received	12/23/98	Project	Motor # 8000 36.9
Time Received	11:45 a	Site	
Received By	Lyons	VOA Holding Blank I.D. No.	

	YES	NO
Airbill/Manifest Present? No. 806937C656	X	
Shipping Container in Good Condition?	X	
Custody Seals Present on Shipping Container? Condition: Good X Broken ____	X	
Chain-of-Custody Present?	X	
Chain-of-Custody Agrees with Sample Labels?	X	
Chain-of-Custody Signed?	X	
Packing Present in Shipping Container? Type of Packing Bubble Wrap	X	
Custody Seals on Sample Bottles? Condition: Good ____ Broken ____		X
Total Number of Sample Bottles 4		
Total Number of Samples 2		
Samples Intact?		X
Sufficient Sample Volume for Indicated Test?		X

	YES	NO
Trip Blanks Received? No. of Sets ____		X
VOA Vials Have Zero Headspace?	X	
Preservatives Added to Sample?	X	
pH Check Required? Performed By? Lyons	X	
Ice Present in Shipping Container?	X	(cubed)

Container#	Temperature
#1	26

12/23/98

Project Manager Contacted?
Name: [illegible]
Date Contacted: 12/23/98

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A.

COMMENTS: 413.1 FOR (MB-WFPWWT/POST 001) BROKEN BEFORE ARRIVAL.
1 OF 2 8270 FOR (MB-PRC GWSAMP001) BROKEN BEFORE ARRIVAL.

Checklist Completed by [illegible]

Date 12/23/98

GP Work Order # 9811113

SAMPLE ANALYSIS REPORT

Prepared For:

RADIAN INTERNATIONAL
MILITARY OCEAN TERMINAL
BAYONNE, NJ 07002

RADIAN INT 80003619

Prepared By:

GPL Laboratories, LLLP
202 Perry Parkway
Gaithersburg, MD 20877

January 6, 1999

Yemane Yohannes, Laboratory Director

GPL LABORATORIES, LLLP
ANALYTICAL RESULTS

Project: RADIAN INT 80003619

RADIAN INTERNATIONAL
MILITARY OCEAN TERMINAL
BAYONNE, NJ 07002
Atten: KEITH DODRILL

GPL LABORATORIES, LLLP
202 Perry Parkway
Gaithersburg, MD 20877

Atten: Client Services
Phone: (301) 926-6802

Certified by: P.I.

SAMPLE IDENTIFICATION

GP ID	Client ID
9811113-01A	MB-IDW-SP03-001 QUAD 1
9811113-02A	MB-IDW-SP03-001 QUAD 2
9811113-03A	MB-IDW-SP03-001 QUAD 3
9811113-04A	MB-IDW-SP03-001 QUAD 4
9811113-05A	MB-IDW-SP03-001 COMPOSITE
9811113-05B	
9811113-06A	MB-IDW-SP04-001 QUAD 1
9811113-07A	MB-IDW-SP04-001 QUAD 2
9811113-08A	MB-IDW-SP04-001 QUAD 3
9811113-09A	MB-IDW-SP04-001 QUAD 4
9811113-10A	MB-IDW-SP04-001 COMPOSITE
9811113-10B	
9811113-11A	MB-IDW-TB-003
9811113-11B	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811113-05A
Client ID: MB-IDW-SP03-001 COMPOSITE
Collected: 11/11/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 11/23/98
Prepared: 11/20/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	3300	
Phenol	BQL	3300	
2-Chlorophenol	BQL	3300	
1,3-Dichlorobenzene	BQL	3300	
1,4-Dichlorobenzene	BQL	3300	
1,2-Dichlorobenzene	BQL	3300	
2,2'-oxybis(1-chloropropane)	BQL	3300	
2-Methylphenol	BQL	3300	
Hexachloroethane	BQL	3300	
N-Nitroso-di-n-propylamine	BQL	3300	
4-Methylphenol	BQL	3300	
Nitrobenzene	BQL	3300	
Isophorone	BQL	3300	
2-Nitrophenol	BQL	3300	
2,4-Dimethylphenol	BQL	3300	
bis(2-Chloroethoxy)methane	BQL	3300	
2,4-Dichlorophenol	BQL	3300	
1,2,4-Trichlorobenzene	BQL	3300	
Naphthalene	BQL	3300	
4-Chloroaniline	BQL	3300	
Hexachlorobutadiene	BQL	3300	
4-Chloro-3-methylphenol	BQL	3300	
2-Methylnaphthalene	1100	3300	JD
Hexachlorocyclopentadiene	BQL	3300	
2,4,6-Trichlorophenol	BQL	3300	
2,4,5-Trichlorophenol	BQL	17000	
2-Chloronaphthalene	BQL	3300	
2-Nitroaniline	BQL	17000	
Acenaphthylene	BQL	3300	
Dimethylphthalate	BQL	3300	
2,6-Dinitrotoluene	BQL	3300	
Acenaphthene	1500	3300	JD

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811113-05A
Client ID: MB-IDW-SP03-001 COMPOSITE
Collected: 11/11/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 11/23/98
Prepared: 11/20/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	17000	
2,4-Dinitrophenol	BQL	17000	
Dibenzofuran	BQL	3300	
2,4-Dinitrotoluene	BQL	3300	
4-Nitrophenol	BQL	17000	
Fluorene	1800	3300	JD
4-Chlorophenyl-phenylether	BQL	3300	
Diethylphthalate	BQL	3300	
4-Nitroaniline	BQL	17000	
4,6-Dinitro-2-methylphenol	BQL	16000	
N-nitrosodiphenylamine	8800	3300	D
4-Bromophenyl-phenylether	BQL	3300	
Hexachlorobenzene	BQL	3300	
Pentachlorophenol	BQL	17000	
Phenanthrene	6500	3300	D
Anthracene	1100	3300	JD
Carbazole	BQL	3300	
di-n-Butylphthalate	BQL	3300	
Fluoranthene	760	3300	JD
Pyrene	3500	3300	D
Butylbenzylphthalate	BQL	3300	
3,3'-Dichlorobenzidine	BQL	6700	
Benzo[a]anthracene	1200	3300	JD
Chrysene	1400	3300	JD
bis(2-Ethylhexyl)phthalate	BQL	3300	
di-n-Octylphthalate	BQL	3300	
Benzo[b]fluoranthene	BQL	3300	
Benzo[k]fluoranthene	BQL	3300	
Benzo[a]pyrene	520	3300	JD
Indeno[1,2,3-cd]pyrene	BQL	3300	
Dibenz[a,h]anthracene	BQL	3300	
Benzo[g,h,i]perylene	BQL	3300	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811113-10A
Client ID: MB-IDW-SP04-001 COMPOSITE
Collected: 11/11/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 11/23/98
Prepared: 11/20/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
bis(2-Chloroethyl)ether	BQL	3300	
Phenol	BQL	3300	
2-Chlorophenol	BQL	3300	
1,3-Dichlorobenzene	BQL	3300	
1,4-Dichlorobenzene	BQL	3300	
1,2-Dichlorobenzene	BQL	3300	
2,2'-oxybis(1-chloropropane)	BQL	3300	
2-Methylphenol	BQL	3300	
Hexachloroethane	BQL	3300	
N-Nitroso-di-n-propylamine	BQL	3300	
4-Methylphenol	BQL	3300	
Nitrobenzene	BQL	3300	
Isophorone	BQL	3300	
2-Nitrophenol	BQL	3300	
2,4-Dimethylphenol	BQL	3300	
bis(2-Chloroethoxy)methane	BQL	3300	
2,4-Dichlorophenol	BQL	3300	
1,2,4-Trichlorobenzene	BQL	3300	
Naphthalene	BQL	3300	
4-Chloroaniline	BQL	3300	
Hexachlorobutadiene	BQL	3300	
4-Chloro-3-methylphenol	BQL	3300	
2-Methylnaphthalene	620	3300	JD
Hexachlorocyclopentadiene	BQL	3300	
2,4,6-Trichlorophenol	BQL	3300	
2,4,5-Trichlorophenol	BQL	17000	
2-Chloronaphthalene	BQL	3300	
2-Nitroaniline	BQL	17000	
Acenaphthylene	BQL	3300	
Dimethylphthalate	BQL	3300	
2,6-Dinitrotoluene	BQL	3300	
Acenaphthene	1100	3300	JD

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811113-10A
Client ID: MB-IDW-SP04-001 COMPOSITE
Collected: 11/11/98
Dilution: 10

Matrix: SOIL
Method: SW846 8270C
Units: ug/Kg

Analyst: MN
Analyzed: 11/23/98
Prepared: 11/20/98

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
3-Nitroaniline	BQL	17000	
2,4-Dinitrophenol	BQL	17000	
Dibenzofuran	BQL	3300	
2,4-Dinitrotoluene	BQL	3300	
4-Nitrophenol	BQL	17000	
Fluorene	1500	3300	JD
4-Chlorophenyl-phenylether	BQL	3300	
Diethylphthalate	BQL	3300	
4-Nitroaniline	BQL	17000	
4,6-Dinitro-2-methylphenol	BQL	17000	
N-nitrosodiphenylamine	7500	3300	D
4-Bromophenyl-phenylether	BQL	3300	
Hexachlorobenzene	BQL	3300	
Pentachlorophenol	BQL	17000	
Phenanthrene	4200	3300	D
Anthracene	730	3300	JD
Carbazole	BQL	3300	
di-n-Butylphthalate	BQL	3300	
Fluoranthene	590	3300	JD
Pyrene	2100	3300	JD
Butylbenzylphthalate	BQL	3300	
3,3'-Dichlorobenzidine	BQL	6700	
Benzo[a]anthracene	680	3300	JD
Chrysene	1200	3300	JD
bis(2-Ethylhexyl)phthalate	BQL	3300	
di-n-Octylphthalate	BQL	3300	
Benzo[b]fluoranthene	BQL	3300	
Benzo[k]fluoranthene	BQL	3300	
Benzo[a]pyrene	400	3300	JD
Indeno[1,2,3-cd]pyrene	BQL	3300	
Dibenz[a,h]anthracene	BQL	3300	
Benzo[g,h,i]perylene	BQL	3300	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811113-01A
Client ID: MB-IDW-SP03-001 QUAD 1
Collected: 11/11/98
Dilution: 1

Matrix: SOIL
Method: SW846 8260B
Units: ug/Kg

Analyst: CD
Analyzed: 11/24/98
Prepared:

VOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
Chloromethane	BQL	10	
Bromomethane	BQL	10	
Vinyl chloride	BQL	10	
Chloroethane	BQL	10	
Methylene chloride	14	5	B
Acetone	BQL	10	
Carbon Disulfide	BQL	5	
1,1-Dichloroethene	BQL	5	
1,1-Dichloroethane	BQL	5	
1,2-Dichloroethene(total)	BQL	5	
Chloroform	2	5	JB
1,2-Dichloroethane	BQL	5	
2-Butanone	BQL	10	
1,1,1-Trichloroethane	BQL	5	
Carbon tetrachloride	BQL	5	
Bromodichloromethane	BQL	5	
1,2-Dichloropropane	BQL	5	
cis-1,3-Dichloropropene	BQL	5	
Trichloroethene	BQL	5	
Benzene	BQL	5	
Dibromochloromethane	BQL	5	
trans-1,3-Dichloropropene	BQL	5	
1,1,2-Trichloroethane	BQL	5	
Bromoform	BQL	5	
4-Methyl-2-pentanone	BQL	10	
2-Hexanone	BQL	10	
Tetrachloroethene	BQL	5	
1,1,2,2-Tetrachloroethane	BQL	5	
Toluene	BQL	5	
Chlorobenzene	15	5	
Ethylbenzene	5	5	J
Styrene	BQL	5	
Xylene (total)	8	5	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811113-02A
Client ID: MB-IDW-SP03-001 QUAD 2
Collected: 11/11/98
Dilution: 1

Matrix: SOIL
Method: SW846 8260B
Units: ug/Kg

Analyst: WF
Analyzed: 11/24/98
Prepared:

VOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
Chloromethane	BQL	10	
Bromomethane	BQL	10	
Vinyl chloride	BQL	10	
Chloroethane	BQL	10	
Methylene chloride	29	5	B
Acetone	BQL	10	
Carbon Disulfide	BQL	5	
1,1-Dichloroethene	BQL	5	
1,1-Dichloroethane	BQL	5	
1,2-Dichloroethene(total)	BQL	5	
Chloroform	2	5	JB
1,2-Dichloroethane	BQL	5	
2-Butanone	9	10	JB
1,1,1-Trichloroethane	BQL	5	
Carbon tetrachloride	BQL	5	
Bromodichloromethane	BQL	5	
1,2-Dichloropropane	BQL	5	
cis-1,3-Dichloropropene	BQL	5	
Trichloroethene	2	5	J
Benzene	BQL	5	
Dibromochloromethane	BQL	5	
trans-1,3-Dichloropropene	BQL	5	
1,1,2-Trichloroethane	BQL	5	
Bromoform	BQL	5	
4-Methyl-2-pentanone	BQL	10	
2-Hexanone	BQL	10	
Tetrachloroethene	BQL	5	
1,1,2,2-Tetrachloroethane	BQL	5	
Toluene	BQL	5	
Chlorobenzene	20	5	
Ethylbenzene	8	5	
Styrene	BQL	5	
Xylene (total)	9	5	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811113-03A
Client ID: MB-IDW-SP03-001 QUAD 3
Collected: 11/11/98
Dilution: 1

Matrix: SOIL
Method: SW846 8260B
Units: ug/Kg

Analyst: CD
Analyzed: 11/24/98
Prepared:

VOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
Chloromethane	BQL	10	
Bromomethane	BQL	10	
Vinyl chloride	BQL	10	
Chloroethane	BQL	10	
Methylene chloride	7	5	B
Acetone	BQL	10	
Carbon Disulfide	9	5	
1,1-Dichloroethene	BQL	5	
1,1-Dichloroethane	BQL	5	
1,2-Dichloroethene(total)	BQL	5	
Chloroform	2	5	JB
1,2-Dichloroethane	BQL	5	
2-Butanone	7	10	J
1,1,1-Trichloroethane	BQL	5	
Carbon tetrachloride	BQL	5	
Bromodichloromethane	BQL	5	
1,2-Dichloropropane	BQL	5	
cis-1,3-Dichloropropene	BQL	5	
Trichloroethene	BQL	5	
Benzene	BQL	5	
Dibromochloromethane	BQL	5	
trans-1,3-Dichloropropene	BQL	5	
1,1,2-Trichloroethane	BQL	5	
Bromoform	BQL	5	
4-Methyl-2-pentanone	BQL	10	
2-Hexanone	BQL	10	
Tetrachloroethene	BQL	5	
1,1,2,2-Tetrachloroethane	BQL	5	
Toluene	BQL	5	
Chlorobenzene	9	5	
Ethylbenzene	2	5	J
Styrene	BQL	5	
Xylene (total)	3	5	J

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811113-04A
Client ID: MB-IDW-SP03-001 QUAD 4
Collected: 11/11/98
Dilution: 1

Matrix: SOIL
Method: SW846 8260B
Units: ug/Kg

Analyst: CD
Analyzed: 11/24/98
Prepared:

VOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
Chloromethane	BQL	10	
Bromomethane	BQL	10	
Vinyl chloride	BQL	10	
Chloroethane	BQL	10	
Methylene chloride	15	5	B
Acetone	BQL	10	
Carbon Disulfide	BQL	5	
1,1-Dichloroethene	BQL	5	
1,1-Dichloroethane	BQL	5	
1,2-Dichloroethene(total)	BQL	5	
Chloroform	2	5	JB
1,2-Dichloroethane	BQL	5	
2-Butanone	BQL	10	
1,1,1-Trichloroethane	BQL	5	
Carbon tetrachloride	BQL	5	
Bromodichloromethane	BQL	5	
1,2-Dichloropropane	BQL	5	
cis-1,3-Dichloropropene	BQL	5	
Trichloroethene	2	5	J
Benzene	BQL	5	
Dibromochloromethane	BQL	5	
trans-1,3-Dichloropropene	BQL	5	
1,1,2-Trichloroethane	BQL	5	
Bromoform	BQL	5	
4-Methyl-2-pentanone	BQL	10	
2-Hexanone	BQL	10	
Tetrachloroethene	BQL	5	
1,1,2,2-Tetrachloroethane	BQL	5	
Toluene	BQL	5	
Chlorobenzene	6	5	
Ethylbenzene	2	5	J
Styrene	BQL	5	
Xylene (total)	5	5	J

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811113-05
Client ID: MB-IDW-SP03-001 COMPOSITE

Matrix: SOIL
Collected: 11/11/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
GRO	8015AM,5030A	7.14	0.56	mg/Kg	5		11/28/98 RHC

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811113-06A
Client ID: MB-IDW-SP04-001 QUAD 1
Collected: 11/11/98
Dilution: 1

Matrix: SOIL
Method: SW846 8260B
Units: ug/Kg

Analyst: WF
Analyzed: 11/24/98
Prepared:

VOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
Chloromethane	BQL	10	
Bromomethane	BQL	10	
Vinyl chloride	BQL	10	
Chloroethane	BQL	10	
Methylene chloride	37	5	B
Acetone	BQL	10	
Carbon Disulfide	BQL	5	
1,1-Dichloroethene	BQL	5	
1,1-Dichloroethane	BQL	5	
1,2-Dichloroethene(total)	BQL	5	
Chloroform	2	5	JB
1,2-Dichloroethane	BQL	5	
2-Butanone	8	10	JB
1,1,1-Trichloroethane	BQL	5	
Carbon tetrachloride	BQL	5	
Bromodichloromethane	BQL	5	
1,2-Dichloropropane	BQL	5	
cis-1,3-Dichloropropene	BQL	5	
Trichloroethene	2	5	J
Benzene	BQL	5	
Dibromochloromethane	BQL	5	
trans-1,3-Dichloropropene	BQL	5	
1,1,2-Trichloroethane	BQL	5	
Bromoform	BQL	5	
4-Methyl-2-pentanone	BQL	10	
2-Hexanone	BQL	10	
Tetrachloroethene	BQL	5	
1,1,2,2-Tetrachloroethane	BQL	5	
Toluene	BQL	5	
Chlorobenzene	10	5	
Ethylbenzene	2	5	J
Styrene	BQL	5	
Xylene (total)	2	5	J

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811113-07A
Client ID: MB-IDW-SP04-001 QUAD 2
Collected: 11/11/98
Dilution: 1

Matrix: SOIL
Method: SW846 8260B
Units: ug/Kg

Analyst: WF
Analyzed: 11/24/98
Prepared:

VOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
Chloromethane	BQL	10	
Bromomethane	BQL	10	
Vinyl chloride	BQL	10	
Chloroethane	BQL	10	
Methylene chloride	22	5	B
Acetone	BQL	10	
Carbon Disulfide	BQL	5	
1,1-Dichloroethene	BQL	5	
1,1-Dichloroethane	BQL	5	
1,2-Dichloroethene(total)	BQL	5	
Chloroform	2	5	JB
1,2-Dichloroethane	BQL	5	
2-Butanone	10	10	B
1,1,1-Trichloroethane	BQL	5	
Carbon tetrachloride	BQL	5	
Bromodichloromethane	BQL	5	
1,2-Dichloropropane	BQL	5	
cis-1,3-Dichloropropene	BQL	5	
Trichloroethene	1	5	J
Benzene	BQL	5	
Dibromochloromethane	BQL	5	
trans-1,3-Dichloropropene	BQL	5	
1,1,2-Trichloroethane	BQL	5	
Bromoform	BQL	5	
4-Methyl-2-pentanone	BQL	10	
2-Hexanone	BQL	10	
Tetrachloroethene	BQL	5	
1,1,2,2-Tetrachloroethane	BQL	5	
Toluene	BQL	5	
Chlorobenzene	BQL	5	
Ethylbenzene	BQL	5	
Styrene	BQL	5	
Xylene (total)	BQL	5	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811113-08A
Client ID: MB-IDW-SP04-001 QUAD 3
Collected: 11/11/98
Dilution: 1

Matrix: SOIL
Method: SW846 8260B
Units: ug/Kg

Analyst: WF
Analyzed: 11/24/98
Prepared:

VOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
Chloromethane	BQL	10	
Bromomethane	BQL	10	
Vinyl chloride	BQL	10	
Chloroethane	BQL	10	
Methylene chloride	37	5	B
Acetone	62	10	
Carbon Disulfide	BQL	5	
1,1-Dichloroethene	BQL	5	
1,1-Dichloroethane	BQL	5	
1,2-Dichloroethene(total)	BQL	5	
Chloroform	2	5	JB
1,2-Dichloroethane	BQL	5	
2-Butanone	32	10	B
1,1,1-Trichloroethane	BQL	5	
Carbon tetrachloride	BQL	5	
Bromodichloromethane	BQL	5	
1,2-Dichloropropane	BQL	5	
cis-1,3-Dichloropropene	BQL	5	
Trichloroethene	2	5	J
Benzene	BQL	5	
Dibromochloromethane	BQL	5	
trans-1,3-Dichloropropene	BQL	5	
1,1,2-Trichloroethane	BQL	5	
Bromoform	BQL	5	
4-Methyl-2-pentanone	BQL	10	
2-Hexanone	BQL	10	
Tetrachloroethene	BQL	5	
1,1,2,2-Tetrachloroethane	BQL	5	
Toluene	BQL	5	
Chlorobenzene	BQL	5	
Ethylbenzene	3	5	J
Styrene	BQL	5	
Xylene (total)	19	5	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811113-09A
Client ID: MB-IDW-SP04-001 QUAD 4
Collected: 11/11/98
Dilution: 1

Matrix: SOIL
Method: SW846 8260B
Units: ug/Kg

Analyst: WF
Analyzed: 11/24/98
Prepared:

VOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
Chloromethane	BQL	10	
Bromomethane	BQL	10	
Vinyl chloride	BQL	10	
Chloroethane	BQL	10	
Methylene chloride	24	5	B
Acetone	BQL	10	
Carbon Disulfide	BQL	5	
1,1-Dichloroethene	BQL	5	
1,1-Dichloroethane	BQL	5	
1,2-Dichloroethene(total)	BQL	5	
Chloroform	2	5	JB
1,2-Dichloroethane	BQL	5	
2-Butanone	BQL	10	
1,1,1-Trichloroethane	BQL	5	
Carbon tetrachloride	BQL	5	
Bromodichloromethane	BQL	5	
1,2-Dichloropropane	BQL	5	
cis-1,3-Dichloropropene	BQL	5	
Trichloroethene	1	5	J
Benzene	BQL	5	
Dibromochloromethane	BQL	5	
trans-1,3-Dichloropropene	BQL	5	
1,1,2-Trichloroethane	BQL	5	
Bromoform	BQL	5	
4-Methyl-2-pentanone	BQL	10	
2-Hexanone	BQL	10	
Tetrachloroethene	BQL	5	
1,1,2,2-Tetrachloroethane	BQL	5	
Toluene	BQL	5	
Chlorobenzene	13	5	
Ethylbenzene	3	5	J
Styrene	BQL	5	
Xylene (total)	2	5	J

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811113-10
Client ID: MB-IDW-SP04-001 COMPOSITE

Matrix: SOIL
Collected: 11/11/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
GRO	8015AM,5030A	8.21	0.54	mg/Kg	5		11/28/98 RHC

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811113-11A
Client ID: MB-IDW-TB-003
Collected: 11/11/98
Dilution: 1

Matrix: WATER
Method: SW846 8260B
Units: ug/L

Analyst: CD
Analyzed: 11/25/98
Prepared:

VOLATILE TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
Chloromethane	BQL	10	
Bromomethane	BQL	10	
Vinyl chloride	BQL	10	
Chloroethane	BQL	10	
Methylene chloride	3	5	JB
Acetone	BQL	10	
Carbon Disulfide	BQL	5	
1,1-Dichloroethene	BQL	5	
1,1-Dichloroethane	BQL	5	
1,2-Dichloroethene(total)	BQL	5	
Chloroform	BQL	5	
1,2-Dichloroethane	BQL	5	
2-Butanone	BQL	10	
1,1,1-Trichloroethane	BQL	5	
Carbon tetrachloride	BQL	5	
Bromodichloromethane	BQL	5	
1,2-Dichloropropane	BQL	5	
cis-1,3-Dichloropropene	BQL	5	
Trichloroethene	BQL	5	
Benzene	BQL	5	
Dibromochloromethane	BQL	5	
trans-1,3-Dichloropropene	BQL	5	
1,1,2-Trichloroethane	BQL	5	
Bromoform	BQL	5	
4-Methyl-2-pentanone	BQL	10	
2-Hexanone	BQL	10	
Tetrachloroethene	BQL	5	
1,1,2,2-Tetrachloroethane	BQL	5	
Toluene	BQL	5	
Chlorobenzene	BQL	5	
Ethylbenzene	BQL	5	
Styrene	BQL	5	
Xylene (total)	BQL	5	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811113-05A
Client ID: MB-IDW-SP03-001 COMPOSITE
Collected: 11/11/98
Dilution: 1

Matrix: SOIL
Method: SW846 8082
Units: ug/Kg

Analyst: ALE
Analyzed: 11/24/98
Prepared: 11/23/98

GC TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
Aroclor 1016	BQL	19	
Aroclor 1221	BQL	19	
Aroclor 1232	BQL	19	
Aroclor 1242	BQL	19	
Aroclor 1248	BQL	38	
Aroclor 1254	BQL	38	
Aroclor 1260	460	38	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811113-05
Client ID: MB-IDW-SP03-001 COMPOSITE

Matrix: SOIL
Collected: 11/11/98

Parameter	Method	Result		Rep.Lim.	Units	Dil.	Prepared	Analyzed By
DRO	CAL LUFT	2032.2		37.9	mg/Kg	20	11/23/98	11/24/98 ABC
Flash point	SW846 1010		N	100	DEG. C			11/23/98 MG

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811113-10A
Client ID: MB-IDW-SP04-001 COMPOSITE
Collected: 11/11/98
Dilution: 40

Matrix: SOIL
Method: SW846 8082
Units: ug/Kg

Analyst: ALE
Analyzed: 11/24/98
Prepared: 11/23/98

GC TARGET COMPOUNDS

Parameter	Result	Rep.Lim.	Qualifier
Aroclor 1016	BQL	740	
Aroclor 1221	BQL	740	
Aroclor 1232	BQL	740	
Aroclor 1242	BQL	740	
Aroclor 1248	BQL	1500	
Aroclor 1254	BQL	1500	
Aroclor 1260	20000	1500	

GPL LABORATORIES, LLLP
ORGANIC ANALYSIS RESULTS

GP ID: 9811113-10 Matrix: SOIL
Client ID: MB-IDW-SP04-001 COMPOSITE Collected: 11/11/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
DRO	CAL LUFT	3448.2	183.8	mg/Kg	100	11/23/98	11/24/98 ABC
Flash point	SW846 1010	N	100	DEG. C			11/23/98 MG

GPL LABORATORIES, LLLP
METALS ANALYSIS RESULTS

GP ID: 9811113-05 Matrix: SOIL
Client ID: MB-IDW-SP03-001 COMPOSITE Collected: 11/11/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Mercury	SW846 7471	0.06	0.03	mg/Kg	1	11/23/98	11/24/98 LCM
Silver	SW846 6010	BQL	0.46	mg/Kg	2	11/18/98	11/19/98 DDH
Aluminum	SW846 6010	6380	31.0	mg/Kg	2	11/18/98	11/19/98 DDH
Arsenic	SW846 6010	3.0	0.77	mg/Kg	2	11/18/98	11/19/98 DDH
Barium	SW846 6010	32.7	1.5	mg/Kg	2	11/18/98	11/19/98 DDH
Beryllium	SW846 6010	BQL	0.46	mg/Kg	2	11/18/98	11/19/98 DDH
Calcium	SW846 6010	11100	155	mg/Kg	2	11/18/98	11/19/98 DDH
Cadmium	SW846 6010	BQL	0.46	mg/Kg	2	11/18/98	11/19/98 DDH
Cobalt	SW846 6010	4.8	0.77	mg/Kg	2	11/18/98	11/19/98 DDH
Chromium	SW846 6010	10.7	0.77	mg/Kg	2	11/18/98	11/19/98 DDH
Copper	SW846 6010	15.4	0.77	mg/Kg	2	11/18/98	11/19/98 DDH
Iron	SW846 6010	11700	15.5	mg/Kg	2	11/18/98	11/19/98 DDH
Potassium	SW846 6010	1530	77.4	mg/Kg	2	11/18/98	11/19/98 DDH
Magnesium	SW846 6010	2680	77.4	mg/Kg	2	11/18/98	11/19/98 DDH
Manganese	SW846 6010	146	0.77	mg/Kg	2	11/18/98	11/19/98 DDH
Sodium	SW846 6010	418	77.4	mg/Kg	2	11/18/98	11/19/98 DDH
Nickel	SW846 6010	12.3	0.77	mg/Kg	2	11/18/98	11/19/98 DDH
Lead	SW846 6010	13.3	0.46	mg/Kg	2	11/18/98	11/19/98 DDH
Antimony	SW846 6010	BQL	0.77	mg/Kg	2	11/18/98	11/19/98 DDH
Selenium	SW846 6010	BQL	0.77	mg/Kg	2	11/18/98	11/19/98 DDH
Thallium	SW846 6010	BQL	1.5	mg/Kg	2	11/18/98	11/19/98 DDH
Vanadium	SW846 6010	18.1	0.77	mg/Kg	2	11/18/98	11/19/98 DDH
Zinc	SW846 6010	39.6	1.5	mg/Kg	2	11/18/98	11/19/98 DDH

GPL LABORATORIES, LLLP
METALS ANALYSIS RESULTS

GP ID: 9811113-10 Matrix: SOIL
Client ID: MB-IDW-SP04-001 COMPOSITE Collected: 11/11/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Mercury	SW846 7471	0.04	0.03	mg/Kg	1	11/23/98	11/24/98 LCM
Silver	SW846 6010	BQL	0.37	mg/Kg	2	11/18/98	11/19/98 DDH
Aluminum	SW846 6010	5930	24.8	mg/Kg	2	11/18/98	11/19/98 DDH
Arsenic	SW846 6010	3.0	0.62	mg/Kg	2	11/18/98	11/19/98 DDH
Barium	SW846 6010	37.2	1.2	mg/Kg	2	11/18/98	11/19/98 DDH
Beryllium	SW846 6010	0.37	0.37	mg/Kg	2	11/18/98	11/19/98 DDH
Calcium	SW846 6010	19900	124	mg/Kg	2	11/18/98	11/19/98 DDH
Cadmium	SW846 6010	BQL	0.37	mg/Kg	2	11/18/98	11/19/98 DDH
Cobalt	SW846 6010	4.3	0.62	mg/Kg	2	11/18/98	11/19/98 DDH
Chromium	SW846 6010	11.8	0.62	mg/Kg	2	11/18/98	11/19/98 DDH
Copper	SW846 6010	18.7	0.62	mg/Kg	2	11/18/98	11/19/98 DDH
Iron	SW846 6010	11800	12.4	mg/Kg	2	11/18/98	11/19/98 DDH
Potassium	SW846 6010	1230	62.1	mg/Kg	2	11/18/98	11/19/98 DDH
Magnesium	SW846 6010	2530	62.1	mg/Kg	2	11/18/98	11/19/98 DDH
Manganese	SW846 6010	149	0.62	mg/Kg	2	11/18/98	11/19/98 DDH
Sodium	SW846 6010	479	62.1	mg/Kg	2	11/18/98	11/19/98 DDH
Nickel	SW846 6010	14.2	0.62	mg/Kg	2	11/18/98	11/19/98 DDH
Lead	SW846 6010	20.5	0.37	mg/Kg	2	11/18/98	11/19/98 DDH
Antimony	SW846 6010	BQL	0.62	mg/Kg	2	11/18/98	11/19/98 DDH
Selenium	SW846 6010	BQL	0.62	mg/Kg	2	11/18/98	11/19/98 DDH
Thallium	SW846 6010	BQL	1.2	mg/Kg	2	11/18/98	11/19/98 DDH
Vanadium	SW846 6010	38.9	0.62	mg/Kg	2	11/18/98	11/19/98 DDH
Zinc	SW846 6010	56.6	1.2	mg/Kg	2	11/18/98	11/19/98 DDH

GPL LABORATORIES, LLLP
WET CHEMISTRY ANALYSIS RESULTS

GP ID: 9811113-01 Matrix: SOIL
Client ID: MB-IDW-SP03-001 QUAD 1 Collected: 11/11/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	89.2		%			11/30/98 DT

GP ID: 9811113-02 Matrix: SOIL
Client ID: MB-IDW-SP03-001 QUAD 2 Collected: 11/11/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	88.6		%			11/30/98 DT

GP ID: 9811113-03 Matrix: SOIL
Client ID: MB-IDW-SP03-001 QUAD 3 Collected: 11/11/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	87.8		%			11/30/98 DT

GP ID: 9811113-04 Matrix: SOIL
Client ID: MB-IDW-SP03-001 QUAD 4 Collected: 11/11/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	83.4		%			11/30/98 DT

GP ID: 9811113-05 Matrix: SOIL
Client ID: MB-IDW-SP03-001 COMPOSITE Collected: 11/11/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Reactive Cyanide	SW846 7.3.3	0.030	0.024	mg/Kg	1	11/19/98	11/21/98 SN
Total Cyanide	SW846 9010A	0.710	0.22	mg/Kg	1		11/21/98 SN
Oil and Grease, Gravimetric	MCAWW 413.1	609	27.6	mg/Kg	1	11/25/98	11/25/98 AS
pH	SW846 9045C	10.0	0.010	pH	1		11/20/98 JH
Reactive Sulfide	SW846 7.3.4	14.0	9.60	mg/Kg	1	11/18/98	11/18/98 SC
Percent Solids	MCAWW 160.3	89.8		%			11/30/98 DT

GPL LABORATORIES, LLLP
WET CHEMISTRY ANALYSIS RESULTS

GP ID: 9811113-06 Matrix: SOIL
Client ID: MB-IDW-SP04-001 QUAD 1 Collected: 11/11/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	89.4		%			11/30/98 DT

GP ID: 9811113-07 Matrix: SOIL
Client ID: MB-IDW-SP04-001 QUAD 2 Collected: 11/11/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	93.8		%			11/30/98 DT

GP ID: 9811113-08 Matrix: SOIL
Client ID: MB-IDW-SP04-001 QUAD 3 Collected: 11/11/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	91.3		%			11/30/98 DT

GP ID: 9811113-09 Matrix: SOIL
Client ID: MB-IDW-SP04-001 QUAD 4 Collected: 11/11/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	89.3		%			11/30/98 DT

GP ID: 9811113-10 Matrix: SOIL
Client ID: MB-IDW-SP04-001 COMPOSITE Collected: 11/11/98

Parameter	Method	Result	Rep.Lim.	Units	Dil.	Prepared	Analyzed By
Reactive Cyanide	SW846 7.3.3	BQL	0.024	mg/Kg	1	11/19/98	11/21/98 SN
Total Cyanide	SW846 9010A	0.260	0.25	mg/Kg	1		11/21/98 SN
Oil and Grease, Gravimetric	MCAWW 413.1	702	26.5	mg/Kg	1	11/25/98	11/25/98 AS
pH	SW846 9045C	9.95	0.010	pH	1		11/20/98 JH
Reactive Sulfide	SW846 7.3.4	17.5	9.60	mg/Kg	1	11/18/98	11/18/98 SC
Percent Solids	MCAWW 160.3	92.5		%			11/30/98 DT

GPL Laboratories, LLLP

Possible notes and definitions for this report:

BQL = Below Quantitation Limit

J = Value is less than the reporting limits but greater than zero

P = Indicates that there is greater than 25% difference for detected pesticide/Aroclor results between the two GC columns

B = Indicates that the compound was found in the associated blank

E = Indicates that the concentration exceeded the calibration range of the instrument

U = Indicates that the compound was analyzed for but not detected, number indicates the reporting limit

D = Indicates that the compound was found in an analysis at a secondary dilution factor

• = Value obtained from a 1:5 dilution

+ = Value obtained from a 1:10 dilution

= Value obtained from a 1:20 dilution

= = Value obtained from a 1:25 dilution

^ = Value obtained from a 1:50 dilution

~ = Value obtained from a 1:100 dilution

! = Value obtained from a 1:250 dilution

@ = Value obtained from a 1:125 dilution (medium level)

$ = Value obtained from a 1:500 dilution

& = Value obtained from a 1:1000 dilution

N = Flashpoint not observed; heated to specified limit

R = Flammable at room temperature

TNTC = Too numerous to count

B.P. = Detection limit taken from boiling point

F.F. = Sample gave off flammable fumes

GP ENVIRONMENTAL SERVICES, INC.

TCL VOC - GRAB
All others - composite in lab
16 total sample containers

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference _____

_____ of _____ Pgs.

Project: 80003619
Client: RADIAN INTERNATIONAL
Send Results To: KEITH DODRILL
Address: MILITARY OCEAN TERMINAL RT 169 BLD 44A
BAYONNE, NJ 07002
Phone: (201)

Turnaround Time	14 day									
# of Containers	8	8	—	8	—	—	—	—	—	—
Container Type	4oz	8oz	8oz	8oz	8oz	8oz	8oz	8oz	8oz	8oz
Preservative Used	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Type of Analysis	TCL VOC METHOD 8260B	TCL SVOC METHOD 8270C	OIL & GREASE METHOD 413.1	TAL METALS & CN 6010, 7000, 9012	TPH DRO/GRO METHOD 8015	CORROSIVITY METHOD 9045	IGNITABILITY METHOD 1010	PCBS METHOD 8082	REACTIVE CN REACTIVE SULFIDE 9012/376.1	Lab Cooler No.

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	TCL VOC METHOD 8260B	TCL SVOC METHOD 8270C	OIL & GREASE METHOD 413.1	TAL METALS & CN 6010, 7000, 9012	TPH DRO/GRO METHOD 8015	CORROSIVITY METHOD 9045	IGNITABILITY METHOD 1010	PCBS METHOD 8082	REACTIVE CN REACTIVE SULFIDE 9012/376.1		CLIENT COMMENTS
MB-IDW-SP03-001	11/11/98	1330-1342	SOIL	KD/LH	4	4	4	4	4	4	4	4	4		RUN VOCs
MB-IDW-SP04-001	11/11/98	1345-1350	SOIL	KD/LH	4	4	4	4	4	4	4	4	4		AS SEPERATE GRAB SAMPLES
MB-IDW-TB-003	LAB	LAB	WATER	LAB	2										ALL OTHER ANALYSIS TO BE DONE ON A LAB PREPARED COMPOSITE SAMPLE

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	11/11/98 1900	Fed ex 804707108840		C Lyon	11/12/98 0930

Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:

Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp:
				4.6

G.P. W.O. 97.11.113

GP ENVIRONMENTAL SERVICES

SAMPLE RECEIPT CHECKLIST

[illegible]. No.	97-11-113	Carrier Name	FEDEX
Client Name	RADIAN-NJ	Prepared (Logged In) By	Y (Initials) 11/12/97 (Date)
Date Received	11/12/97	Project	8000 3619
Time Received	08:55	Site	
Received By	[illegible]	VOA Holding Blank I.D. No.	

	YES	NO
Airbill/Manifest Present? No. 204707 1-8090	X	—
Shipping Container in Good Condition?	X	—
Custody Seals Present on Shipping Container? Condition: Good X Broken ____	X	—
Chain-of-Custody Present?	X	—
Chain-of-Custody Agrees with Sample Labels?	X	—
Chain-of-Custody Signed?	X	—
Packing Present in Shipping Container? Type of Packing Bags/Box/Bubble Wrap	X	—
Custody Seals on Sample Bottles? Condition: Good ____ Broken ____	—	X
Total Number of Sample Bottles 18		
Total Number of Samples 3		
Samples Intact?	X	—
Sufficient Sample Volume for Indicated Test?	X	—

	YES	NO
Trip Blanks Received? No. of Sets 1 set	X	—
VOA Vials Have Zero Headspace?	—	X
Preservatives Added to Sample?	—	X
pH Check Required? Performed By? ____	—	X
Ice Present in Shipping Container?	X	(Cubed)

Container#	Temperature
#1	4.6

Project Manager Contacted?
Name: Joanne Edes
Date Contacted: 11/12/97

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A.

COMMENTS: ____

Checklist Completed by Y

Date 11/12/97

Appendix Q
Certificates of Destruction for Contaminated Soil

R3 technologies

R3 Technologies, Inc.
7 Steel Road East
Morrisville, PA 19067-0847
Phone: 215.428.1700
Toll Free: 800.762.3649
Fax: 215.428.1704

February 18, 1999

CERTIFICATE OF DESTRUCTION

We certify that *1339.84* tons (received on 11/23/98 thru 11/25/98) of non-hazardous contaminated soil/aggregate generated by *MILITARY OCEAN TERMINAL - BLDG44C* and delivered by *RADIAN INTERNATIONAL LLC.* identified as Lot # *RAD9811020A6* has been processed in accordance with PADEP Permit # 301254. This soil/aggregate now meets Level A Standards as established by Pennsylvania Department of Environmental Protection Cleanup Standards issued October 18, 1991. Following is the analysis of the soil/aggregate as obtained by API GC/ FID-PID method.

Analysis

Total Petroleum Hydrocarbons .....< 10.00 ppm

BTEX

Benzene .....< 0.01 ppm

Toluene .....< 0.02 ppm

Ethyl Benzene .....< 0.02 ppm

Xylenes.....< 0.07 ppm

Joseph Romeo

Chemist

R3 technologies

R3 Technologies, Inc.
7 Steel Road East
Morrisville, PA 19067-0847
Phone: 215.428.1700
Toll Free: 800.762.3649
Fax: 215.428.1704

February 18, 1999

CERTIFICATE OF DESTRUCTION

We certify that *1114.79* tons (received on 12/1/98 thru 12/4/98) of non-hazardous contaminated soil/aggregate generated by *MILITARY OCEAN TERMINAL - BLDG44C* and delivered by *RADIAN INTERNATIONAL LLC.* identified as Lot # *RAD981102OA6* has been processed in accordance with PADEP Permit # 301254. This soil/aggregate now meets Level A Standards as established by Pennsylvania Department of Environmental Protection Cleanup Standards issued October 18, 1991. Following is the analysis of the soil/aggregate as obtained by API GC/ FID-PID method.

Analysis

Total Petroleum Hydrocarbons .....< 10.00 ppm

BTEX

Benzene .....< 0.01 ppm

Toluene .....< 0.02 ppm

Ethyl Benzene .....< 0.02 ppm

Xylenes.....< 0.07 ppm

Joseph Romeo

Chemist

Appendix R
Test Pit Log for TP-B51

RADIAN INTERNATIONAL

TEST PIT NO. TP-B51 PAGE OF

PROJECT NAME Motby Tank Removal PROJECT NO. 80003619

LOCATION Bayonne, NJ GEOLOGIST D. Diehl

BY DD

DATE 12-11-98

EXCAVATION CONTRACTOR Radian

EXCAVATION START DATE 12-11-98 EXCAVTION COMPLETION DATE 12-11-98

CHK BY

DATE

SURFACE ELEVATION

DEPTH FEET	SAMPLE NO.	LITHOLOGIC CLASSIFICATION	PROFILE	STATIC WATER LEVEL (FT)	PID READING	DEPTH (FEET)	OBSERVATIONS/ REMARKS
		Asphalt					
2		Black cinders with Interbedded Layers of Fine to Medium Brown Sand					
	SS-1	3ft Brown Fine to Medium Sand, Trace Gravel	SP		0 PPM		
4				▼ 4.5			
	SS-2				0 PPM		Heavy Fuel Oil Stain in Soil. Medium Organic Sheen on Groundwater Surface
6	SS-3				0 PPM		
7.5		Total Depth = 7.5 Ft.					

ADDITIONAL REMARKS

Location: East of the Extreme South East Corner of Building 45, between building and Railroad.

FILE:\FORMS\GEOLOGY\TP-1

Appendix S
Waste Fluid Shipping Order

THIS SHIPPING ORDER must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. 0840[illegible]

(Carrier) AUCHTER INDUSTRIAL VAC SERVICE, INC. 4801 S. WOOD AVE. - LINDEN, NJ 07036 SCAC. _____ Carrier's No. _____

Received, subject to the classifications and tariffs in effect on the date of this Bill of Lading:

at _____, date 12-9-98 from _____

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix D to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee for purposes of notification only.)

TO: IPC
Consignee 505 SOUTH MARKET STREET
Street WILMINGTON, DE Zip 19801
Destination

FROM: MILITARY OCEAN TERMINAL / RADIAN INT'L
Shipper ROUTE 169
Street BAYONNE, NEW JERSEY Zip 07002
Origin

Route: TRUCK

Delivering Carrier AUCHTER INDUSTRIAL VAC SERVICE | Trailer Initial/Number 110/218 | U.S. DOT Hazmat Reg. Number

Pkgs	HM	Description of articles, special marks, and exceptions	Hazard Class	I.D. Number	Packing Group	Weight	Class or rate	Labels required	Check column
1		CARGO TANK PETROLEUM MIXTURE LIQUID N.O.S. NON-REGULATED MATERIAL	N/A	N/A	N/A	694	GAL		
		RECEIVED BY _____							

Remit C.O.D. to:
Address:
City: State: Zip:

COD AMT: $

Charges Advanced $

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of consignor)

C. O. D. FEE:
Prepaid ☐
Collect ☐ $

FREIGHT CHARGES
☐ Prepaid ☐ Collect

"If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight". Note. – where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Per [signature]

PLACARDS REQUIRED: NONE

PLACARDS SUPPLIED: ☐ YES ☒ NO - FURNISHED BY CARRIER

DRIVER'S SIGNATURE: [signature]

SHIPPER: MILITARY OCEAN TERMINAL

CARRIER: AUCHTER INDUSTRIAL VAC SERVICE, INC.