

FILE COPY

24 August 2007  
ERM Reference: 0051545

Brian Monahan  
Conservation Administrator  
Wayland Conservation Commission  
Town Building  
Wayland, MA 01778



Re: Inspection Report #5: 13 - 24 August 2007,  
Transmittal of Analytical Data  
Former Raytheon Facility  
430 Boston Post Road  
DEP File No. 322-647

Dear Mr. Monahan:

Environmental Resources Management (ERM) is pleased to provide the Wayland Conservation Commission (Commission) with this Inspection Report for Northern Area Excavation activities at the Former Raytheon Facility at 430 Boston Post Road in Wayland, Massachusetts (Site). This report is submitted in accordance with the Order of Conditions for Massachusetts Department of Environmental Protection File Number 322-647 dated 8 August 2006. Additionally, this report contains analytical laboratory data corresponding with sample results received during the past 10 days.

#### *INSPECTION REPORT #5*

Special Conditions 31 and 32 of the Town of Wayland Wetlands and Water Resources Permit Chapter 194 (Chapter 194) and Special Conditions 47 and 49 of Attachment A to the Wetlands Protection Act Form 5 Order of Conditions (WPA) require that a registered Professional Engineer perform weekly inspections of the work activities and certify in bi-weekly reports that those activities are in compliance with the Order of Conditions. The following information summarizes work performed between 13 August and 24 August 2007.

### *Work Performed During Period*

On 13 August, an estimated 70 cubic yards of soil were removed from outside the excavation to provide access to the cofferdam for a long-reach excavator. The soil is staged in Stockpile G (Figure 1) abutting Stockpile A and will be replaced upon extraction of the sheet pile. Suitability for reuse was confirmed via samples collected on 15 August.

Excavation to 113 feet above mean sea level (asl) began on 13 August and concluded on 16 August. Soil from this depth, estimated 117 to 113 feet asl, was staged in Stockpile F from 13 to 15 August, Stockpile H on 15 August, and Stockpile I on 16 August. Waste characterization samples were collected from Stockpile F on 15 and 17 August, from Stockpile H on 20 August, and from Stockpile I on 21 August.

Excavation activities continued from 17 August to 22 August to 107 feet asl. On 22 August, soil was removed from two areas of the excavation to an approximate depth of 105 feet asl. These "potholes" were designed to remove soil identified by historical data to be likely above MCP Method 1 S-2 & GW-1 standards. Each pothole was generally shaped like an ellipse with the longitudinal axis running east-west. Material from these areas is staged in Stockpile J.

Once excavation activities had finished and potholes were completed, confirmatory samples were collected from the bottom of the excavation for comparison to S-2 & GW-1 standards.

Dewatering was conducted via crushed stone-lined sumps during excavation activities. To date, water removed from the excavation has been treated and stored in two large fractionation tanks. Water will not be discharged until analytical results meet the Remediation General Permit standards. Influent and effluent samples from the water treatment system were collected on 15, 17, and 23 August.

On 23 and 24 August the rubber mats used within the cofferdam were decontaminated using a pressure washer in the excavation and placed on polyethylene sheeting north of the cofferdam. The equipment rinse water was collected within the excavation and pumped through the on-Site water treatment system. Also on 23 August, samples were collected from a potential source of clean fill on the adjacent property currently under development. These samples were collected to satisfy the requirements of WPA Condition 52.

Members of the Commission and the public were on Site on 24 August to participate in a Public Involvement Plan (PIP) tour. Alicia Kabir

conducted the Professional Engineer's inspections on 15 and 24 August. No issues were identified during the Site visit.

In addition to the major activities detailed above, several other tasks were completed as required by the Order of Conditions:

- Daily inspections of the sedimentation controls have been performed. Records of these inspections are kept with the Daily Site Logs in Appendix B. Sufficient supplies of silt fence and straw bales are maintained on Site to allow for corrective action and maintenance activities per WPA Condition 50 and Chapter 194 Condition 42.
- Equipment is being refueled in accordance with the Refueling Plan provided in the Response to Order of Conditions as stipulated in WPA Condition 39 and the Amendment to Refueling Plan provided in Inspection Report #3. Sufficient spill containment supplies are maintained at the refueling area and near each piece of heavy equipment.

*Items Not in Conformance with Order of Conditions During Period*

- Items on Site were in conformance with the Order of Conditions during this reporting period.

**TRANSMITTAL OF ANALYTICAL DATA**

As required by Chapter 194 Condition 24 the analytical laboratory reports are attached as Appendix C. Laboratory reports include results from:

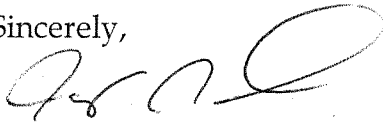
- Stockpile F collected on 15 and 17 August;
- Stockpile G collected on 15 August;
- Stockpile H collected on 20 August;
- Stockpiles I and J collected on 21 August;
- Potential clean fill collected on 23 August from adjacent property.
- Confirmation samples from the bottom of the excavation collected on 22, 27 and 28 August;

- Influent, effluent, fractionation tank, and flocculation tank samples collected from the water treatment system on 15, 17 and 23 August.

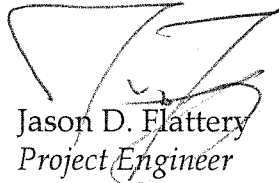
ERM will continue to comply with the Order of Conditions and will inform the Commission of any significant deviations of schedule or work plan.

If you have any questions or comments please contact the undersigned at (617) 646-7800.

Sincerely,



Jeremy J. Picard, P.G.  
*Senior Project Manager*



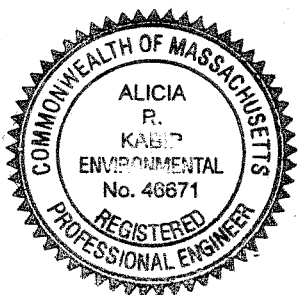
Jason D. Flattery  
*Project Engineer*

Enclosures:	Table 1	Clean Soil Characterization
	Figure 1	Stockpile Locations
	Appendix A	Site Photographs
	Appendix B	Daily Site Logs 13 - 24 August 2007
	Appendix C	Analytical Laboratory Reports

Cc: Louis Burkhardt, Raytheon Company  
Public Repositories  
Ben Gould, CMG Environmental



As required by WPA Conditions 47 and 49 and Chapter 194 Conditions 31 and 32, I certify based on my observations during Site visits on 15 and 24 August 2007 and conversations with ERM field representatives that, to the best of my knowledge, work (except for any exceptions noted above) has been conducted in accordance with the Order of Conditions for DEP File Number 322-647.



*Alicia Kabir*

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Alicia Kabir, P.E.  
Professional Engineer  
MA License #46671

## *Tables*

**Table 1**  
**Clean Fill Analytical Results**  
**Former Raytheon Facility**  
**Wayland, Massachusetts**

Parameter	Date Collected	Reportable Concentration RCS-1	MCP Method 1 Soil Standard S-2 & GW-1	Pre-Excavation Soil Conditions (average)	Clean Fill From Adjacent Property					
					CF-1 23-Aug-07	CF-2 23-Aug-07	CF-3 23-Aug-07	CF-4 23-Aug-07	CF-5 23-Aug-07	CF-6 23-Aug-07
<b>Volatile Organic Compounds (µg/kg)</b>										
Tetrachloroethene		1,000	1,000	816.7	< 4.6	< 4.8	< 4.8	< 4.6	< 4.8	< 5.0
Trichloroethene		300	300	<b>8,505</b>	< 4.6	< 4.8	< 4.8	< 4.6	< 4.8	< 5.0
cis-1,2-Dichloroethene		300	300	<b>522.9</b>	< 4.6	< 4.8	< 4.8	< 4.6	< 4.8	< 5.0
<b>Semi-Volatile Organic Compounds (µg/kg)</b>										
		NS	NS	ND	ND	ND	ND	ND	ND	ND
<b>Petroleum Hydrocarbons (mg/kg)</b>										
		200	200	ND*	ND	ND	ND	ND	ND	ND
<b>Polychlorinated Biphenyls (mg/kg)</b>										
		2	2	ND	ND	ND	ND	ND	ND	ND
<b>Metals (mg/kg)</b>										
Arsenic		20	20	5.3	6.4	6.3	5.5	5.4	6.0	5.8
Cadmium		2	30	ND	< 0.42	< 0.42	< 0.42	< 0.41	< 0.42	< 0.45
Chromium		30	200	16.0	10	9.5	8.1	8.6	9.1	11
Lead		300	300	5.5	7.4	4.0	3.1	3.4	6.5	4.7
Mercury		20	30	ND	< 0.08	< 0.08	< 0.08	< 0.08	< 0.09	< 0.09

Notes:

Only compounds with detectable results are tabulated.

µg/kg = Micrograms per kilogram (parts per billion [ppb]).

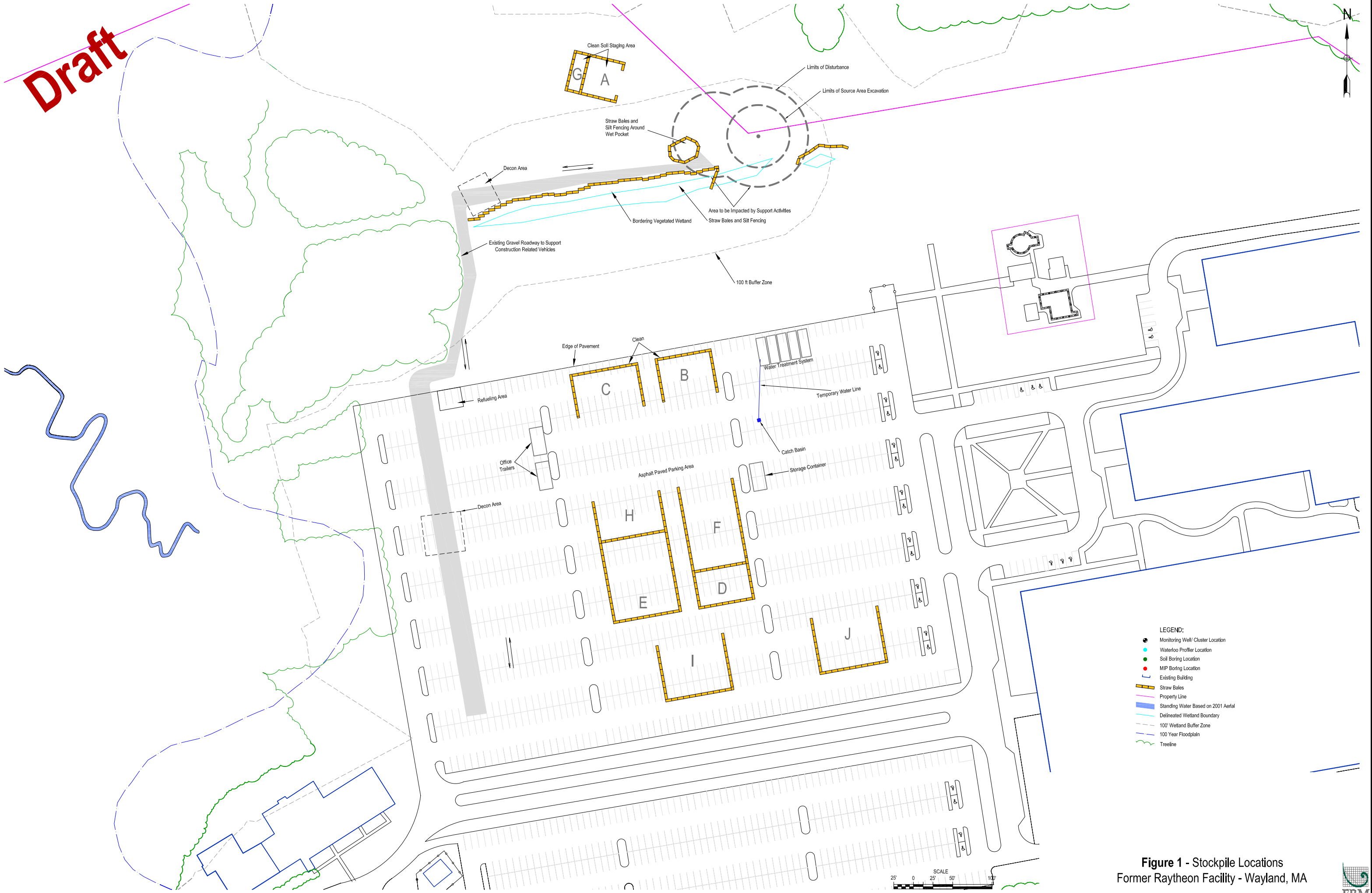
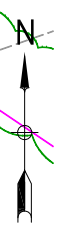
mg/kg = Milligrams per kilogram (parts per million [ppm]).

Values reported as Pre-Excavation Soil Conditions are averages from samples SB-515, SB-522, SB-522A, SB-528, SB-530A, & SB-534B

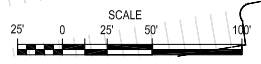
\* = Pre-Excavation Soil Conditions analyzed for extractable petroleum hydrocarbons.

## *Figures*

**Draft**



- LEGEND:**
- Monitoring Well/ Cluster Location
  - Waterloo Profiler Location
  - Soil Boring Location
  - MIP Boring Location
  - Existing Building
  - Straw Bales
  - Property Line
  - Standing Water Based on 2011 Aerial
  - Delineated Wetland Boundary
  - 100' Wetland Buffer Zone
  - 100 Year Floodplain
  - Tree Line



**Figure 1 - Stockpile Locations**  
Former Raytheon Facility - Wayland, MA



*Appendix A*  
*Site Photographs*



Photograph 1 – Excavation of Northeast Corner for Equipment Positioning



Photograph 2 – Beginning of Excavation to 107' asl, Installation of Sump





Photograph 3 – Transportation of Soil from Excavation



Photograph 4 – Transportation of Soil to Staging Area in Parking Lot





Photograph 5 – Excavation of Areas Likely Contaminated Below 107' asl



Photograph 6 – Pressure-Washing Tundra Mats in Preparation for Removal from Excavation

*Appendix B*  
*Daily Site Logs 13 August –*  
*24 August*

**DAILY SITE LOG**  
 Northern Area Excavation  
 Former Raytheon Facility  
 Wayland, Massachusetts



Date: 8/13/07

Start Time: 07:00

End Time: 16:00

Personnel

ERM: Bahaar Massihzadegan, Jeremy Picard, Jason Flattery, Holly Anzenberger, The Fleming, Miguel Singer, Lindsey Colburn, Ann McMenemy

Other Personnel: Chris Jones, Dick Syriac, Rick Margiardi, (MT), Abdelghani Zaim, Ivan Hockett (laborers), Bill McCarthy (operator)

Visitors: Frank Gardy (Congress Group)

Equipment On Site

Type	Make/Model	Number	Operating Co.
Lander	Komatsu WA 38D		MT
(3) Excavators	Caterpillar 307, 330, 345	- 51, 75	↓
Generator	MQ Power whisperwatt	16, 14	
Welder	Lincoln 250	29	
Water Treatment System		45	
Sweeper	Elgin Premier Pelican	-	

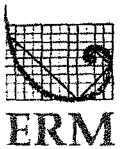
Describe Activities:

Begin excavating down 5 feet in cofferdam, and dig out area in northwest region outside of sheets to put excavator inside

**EROSION AND SEDIMENTATION CONTROL INSPECTION**

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts

Date: 8/13



Are silt fence, hay bails and wooden stakes intact?

YES

Have soils/sediment been deposited in any wetland areas?

NO

If yes, was it removed and how? Please describe below.

N/A

Is there evidence of erosion along access road?

NO

If yes, please describe below.

Please note any corrective actions taken.

N/A

Field Supervisor Name (Printed):

Bahaar Massizadegan

(Signature):

Bahaar Massizadegan

**DAILY SITE LOG**  
 Northern Area Excavation  
 Former Raytheon Facility  
 Wayland, Massachusetts



Date: 8/14/07  
 Start Time: 6:30

End Time: 16:30

Personnel

ERM: Bahar Masshaddegan, Jason Flattery, Joe Fering, Miguel Singer, Megan Mitchell, John Drabinski → WETLANDS WORK, SEPARATE HAS

Other Personnel: Chris Jones, Dirk Snydal, Rick Mongiardì (MT), Abdelghani Zaim, Ivan Hackett (labores), Bill McLaughlin (operator)

Visitors: Newton Trucking (ONE TRUCK) VAECA TRUCKING #77, Bill McLaughlin (CM) (Operating Engineers) BUSINESS AGENT, McLaughlin

Equipment On Site

Type	Make/Model	Number	Operating Co.
LOADER	KOMATSU WA380	-	MT
EXCAVATOR	CATERPILLAR 307, 330, & 345	- 51, 75	↓
GENERATOR	MO POWER WHISPERWATT	16, 14	
WELDER	LINCOLN 250	29	
WATER TREATMENT SYSTEM		45	
SWEeper	ELGIN PREMIER PELICAN	-	
DUMP TRUCK	MACK TRUCK 10-WHEELER	VAECA #77, TOMPKINS #7	NEWTON TRUCKING

Describe Activities:

MOVE MATERIAL FROM ELEV 117 TO 113 TO STOCKPILE F. LASTING (BM)  
Install sump pump.

**EROSION AND SEDIMENTATION CONTROL INSPECTION**

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts

Date: 8/14/07



Are silt fence, hay bails and wooden stakes intact?

YES

Have soils/sediment been deposited in any wetland areas?

NO

If yes, was it removed and how? Please describe below.

N/A

Is there evidence of erosion along access road?

NO

If yes, please describe below.

Please note any corrective actions taken.

N/A

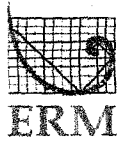
Field Supervisor Name (Printed):

Bahaar Massrhzadegan

(Signature):

Bahaar M

**DAILY SITE LOG**  
 Northern Area Excavation  
 Former Raytheon Facility  
 Wayland, Massachusetts



Date: 8/15/07  
 Start Time: 0600 End Time: 17:10

Personnel

ERM: JFLATTERY, BMASSIHZADEGAN, JPICARD, AKABIR  
HANZENBERGER and JFERRING for wetlands work  
Catherine Regan and Benoit Delhalle for site walk.

Other Personnel: MT: CJONES, RMANGIARDI, DSTRIC,  
UNION: IVAN HACKETT, A. ZAIM, BMcARTHUR  
NEWTON TRUCKING:

Visitors: Tony Pisanelli (MT), Jim Occhailini (Alpha)

Equipment On Site

Type	Make/Model	Number	Operating Co.
LOADER	KOMATSU WA380	-	MT
EXCAVATOR	CATERPILLAR 307, 330, 345	-	↓
GENERATOR	MO POWER WHISPER WATT	16, 14	
WELDER	LINCOLN 250	29	
WATER TREATMENT SYSTEM		45	
SWEeper	ELGIN PREMIER PELICAN	-	SCANLON
DUMP TRUCK	MAK TRUCK 10 WHEELER	VACCA #7, TOMPKINS	NEWTON TRUCKING

Describe Activities:

CONTINUE MOVING SOIL FROM ELV 117' TO 113' OUT OF PIT TO STOCKPILE F  
BUILD NEW STOCKPILE AREA (STOCKPILE H), Sampled Stockpile F and  
GI and water treatment system.

**EROSION AND SEDIMENTATION CONTROL INSPECTION**

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts

Date: 8/15/07



Are silt fence, hay bails and wooden stakes intact?

YES

Have soils/sediment been deposited in any wetland areas?

NO

If yes, was it removed and how? Please describe below.

N/A

Is there evidence of erosion along access road?

NO

If yes, please describe below.

Please note any corrective actions taken.

N/A

Field Supervisor Name (Printed):

Bahaar Massihzadegan

(Signature):

*Bahaar*



**DAILY SITE LOG**  
 Northern Area Excavation  
 Former Raytheon Facility  
 Wayland, Massachusetts



Date: 8/16/07  
 Start Time: 06:00 End Time: 1730

Personnel

ERM: Bahaar Massinzadegan, Joe Fraccio, Jason Flattery

Other Personnel: MT: C Jones, D Syriac, R Mongiardi  
Union: J Mackott, A Zaim, B McCarthy  
Newton Trucking One Truck

Visitors: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Equipment On Site

Type	Make/Model	Number	Operating Co.
Loader	Komatsu WA 38D	-	MT
Excavator	Caterpillar 307, 330, 345	- 51, 75	↓
Generator	MQ Power Whisperwatt	16, 14	
Welder	Lincoln 250	29	
Water Treatment System		45	
Sweeper	Elgin Premier Pelican	-	
Dump Truck	Mack Truck 10-wheeler	Vaca #77, Tompkins	Scanlon Newton Trucking

Describe Activities:

Continued excavation to 113' asl, all soil deposited at stockpile F.

**EROSION AND SEDIMENTATION CONTROL INSPECTION**

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts

Date: 8/16



Are silt fence, hay bails and wooden stakes intact?

YES

Have soils/sediment been deposited in any wetland areas?

NO

If yes, was it removed and how? Please describe below.

N/A

Is there evidence of erosion along access road?

NO

If yes, please describe below.

Please note any corrective actions taken.

N/A

Field Supervisor Name (Printed):

Bahaar Masshzedegen

(Signature):

*Bahaar Masshzedegen*

**DAILY SITE LOG**  
 Northern Area Excavation  
 Former Raytheon Facility  
 Wayland, Massachusetts



Date: 8/17/07  
 Start Time: 06:00 End Time: 1430

**Personnel**

ERM: Bahaar Massihzadegan, Jason Flattery

**Other Personnel:**

MT: C Jones, D Lynal, R Mangiardi  
Union: I Hackett, A Zaim, B McClathy  
Newton Trucking: 2 trucks

**Visitors:**

Taylor Oil, Aggregate Industries (3/4" stone delivery)

**Equipment On Site**

Type	Make/Model	Number	Operating Co.
Loader	Komatsu WA 380	-	MT
Excavator	Caterpillar 307, 330, 345	-	51, 75
Generator	MW Power Whisper watt	16, 14	
Welder	Lincoln 250	29	
Water Treatment System		45	
Sweeper	Elgin Premier Pelican	-	Scanton
(2) Dump Truck	Mack Truck 10-wheeler	Varia # 77, 78	Newton Trucking

**Describe Activities:**

Continued excavation to 113' asl, sampled stockpile  
F for VOCs High + Low, sampled entering and exiting  
water from flow tank.

**EROSION AND SEDIMENTATION CONTROL INSPECTION**

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts

Date: 8/17



Are silt fence, hay bails and wooden stakes intact?

YES

Have soils/sediment been deposited in any wetland areas?

NO

If yes, was it removed and how? Please describe below.

N/A

Is there evidence of erosion along access road?

NO

If yes, please describe below.

Please note any corrective actions taken.

N/A

Field Supervisor Name (Printed):

Bahaar Masrizadegan

(Signature):

Bahaar Masrizadegan

**DAILY SITE LOG**  
 Northern Area Excavation  
 Former Raytheon Facility  
 Wayland, Massachusetts



Date: 8/20/07  
 Start Time: 07:00 End Time: 17:00

Personnel

ERM: Banaar Massinzadegan, Jason Flattery  
LAUSSEY COLBURN

Other Personnel: MT: C Jones, D Syrial, R Margiardi  
Union: B McLarny, A Zaim, T Hackett  
Newton Trucking: R. Vacca

Visitors: AFFORDABLE JUNK REMOVAL (JASON SCHWABER)

Equipment On Site

Type	Make/Model	Number	Operating Co.
Loader	Komatsu WA380	-	MT
Excavator	Caterpillar 307, 330, 345	-	MT
Generator	Mir Power Whisperwatt	16, 14	MT
Welder	Lincoln 250	29	MT
Water Treatment System		45	MT
Sweeper	Elgin Premier Pelican	-	Slater
Dump Truck	Mack Truck 10-wheeler	Vaca #77	Newton Trucking

Describe Activities:

Continued excavation to 107'. Soil brought to stockpile J,  
collected soil stockpile samples from stockpile H.

**EROSION AND SEDIMENTATION CONTROL INSPECTION**

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts

Date: 8/20/07



Are silt fence, hay bails and wooden stakes intact?

YES

Have soils/sediment been deposited in any wetland areas?

NO

If yes, was it removed and how? Please describe below.

N/A

Is there evidence of erosion along access road?

NO

If yes, please describe below.

Please note any corrective actions taken.

N/A

Field Supervisor Name (Printed):

JASON FLATTERY

(Signature):

DAILY SITE LOG

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts



Date: 8/21/07  
Start Time: 06:30

End Time: 17:45

Personnel

ERM: Bahar Massinzadegan, Holly Anzenberger, John Drobinski

Other Personnel: MT: C Jones, D Syrac, R Mangiardi  
Union: B McCarthy, A Zaim, I Hackett, Joseph Muto  
Newton Trucking: R Valia

Visitors: Crushed stone delivery, Taylor Fuel Oil, Waste Management,  
Alpha Analytical, Scanlon sweeper operator

Equipment On Site

Type	Make/Model Operating Company	Number	Operating Co. Number
<u>Loader</u>	<u>Komatsu WA380</u>	<u>-</u>	<u>MT</u>
<u>Excavator</u>	<u>Caterpillar 307, 330, 345</u>	<u>-, 51, 75</u>	<u> </u>
<u>Generator</u>	<u>MID Power Whisper watt</u>	<u>16, 14</u>	<u> </u>
<u>Welder</u>	<u>Lincoln 250</u>	<u>29</u>	<u> </u>
<u>Water Treatment System</u>		<u>45</u>	<u>↓</u>
<u>Sweeper</u>	<u>Elgin Premier Pelican</u>	<u>-</u>	<u>Scanlon</u>
<u>Dump Truck</u>	<u>Mack Truck 10 Wheeler Vac #77</u>		<u>Newton Trucking</u>

Describe Activities:

Continued excavation to 107' asl. Soil brought to Stockpile  
J. Collected (6) stockpile samples from Stockpile I + J.

**EROSION AND SEDIMENTATION CONTROL INSPECTION**

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts

8/21/07



Are silt fence, hay bails and wooden stakes intact?

YES

Have soils/sediment been deposited in any wetland areas?

NO

If yes, was it removed and how? Please describe below.

N/A

Is there evidence of erosion along access road?

NO

If yes, please describe below.

Please note any corrective actions taken.

N/A

Field Supervisor Name (Printed):

Bahaar Massihzadegan

(Signature):



**DAILY SITE LOG**

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts



Date: 8/22/07  
Start Time: 06:30

End Time: 17:30

Personnel

ERM: Bahaar Massihzadegan, Jason Flattery,  
Ezra Benjamin, Jeremy Picard, John Drobinski  
JOHANNES MARK

Other Personnel: MT: C Jones, D Syriac, R Mangiardi, J Anthony  
Union: B McCarthy, A Zaim, I Hackett  
Newton Trucking: Re Vacca

Visitors: Alpha Analytical

Equipment On Site

Type	Make/Model <del>Operating Company</del>	#	Operating Co. Number
<u>Loader</u>	<u>Komatsu WA 380</u>	<u>-</u>	<u>MT</u>
<u>Excavator</u>	<u>Caterpillar 307, 330, 345</u>	<u>- 5, 75</u>	<u> </u>
<u>Generator</u>	<u>MA Power Whisper watt</u>	<u>16, 14</u>	<u> </u>
<u>Welder</u>	<u>Lincoln 250</u>	<u>29</u>	<u> </u>
<u>Water Treatment System</u>		<u>45</u>	<u>↓</u>
<u>Sweeper</u>	<u>Elgin Premier Pelican</u>	<u>-</u>	<u>Scaron</u>
<u>Dump Truck</u>	<u>Mack Truck 10-wheeler</u>	<u>Vacca #77</u>	<u>Newton Trucking</u>

Describe Activities:

Continued excavation to ~107' a.s.l, soil staged in stockpile J.

**EROSION AND SEDIMENTATION CONTROL INSPECTION**

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts

8/22/07



Are silt fence, hay bails and wooden stakes intact?

YES

Have soils/sediment been deposited in any wetland areas?

NO

If yes, was it removed and how? Please describe below.

N/A

Is there evidence of erosion along access road?

NO

If yes, please describe below.

Please note any corrective actions taken.

N/A

Field Supervisor Name (Printed):

JASON FLATTERY

(Signature):

[Handwritten Signature]

**DAILY SITE LOG**  
 Northern Area Excavation  
 Former Raytheon Facility  
 Wayland, Massachusetts



Date: 8/23/07  
 Start Time: 06:30 End Time: 16:00

Personnel

ERM: JF LATTERY, BM Masibzadegan, J Drobniski, Wetlands  
group - Lyndsey Colburn, Chuck Katuska, Megan  
Mitchell, Libby Riley

Other Personnel: MT: CHRIS JONES, DICK SURLAG, RICK MANGIARDI,  
Union: BILL MCCARTHY (OPERATOR), ABDELGHANI ZAIM, IVAN HACKETT,  
JOE MUTO

Visitors: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Equipment On Site

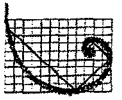
Type	MAKE/MODEL Operating Company	#	OPERATING CO. Number
<u>LOADER</u>	<u>WA 380 KOMATSU</u>	<u>-</u>	<u>MT</u>
<u>EXCAVATOR</u>	<u>CATERPILLAR 307, 330, 345</u>	<u>-51, 75</u>	↓
<u>GENERATOR</u>	<u>MQ POWER WHISPERMATT</u>	<u>16, 14</u>	
<u>WELDER</u>	<u>LINCOLN 250</u>	<u>29</u>	
<u>WATER TREATMENT SYSTEM</u>		<u>45</u>	
<u>SWEeper</u>	<u>ELGIN PREMIER PELICAN</u>	<u>-</u>	
<u>ADOPT TRUCK</u>	<u>Make To <sup>BM</sup></u>		

Describe Activities:

Power washed tundra mats inside of cofferdam, replaced  
poly and tarps on stockpiles that were ripped. Collected  
samples from fire hydrant and fractionation #4,  
and clean soil piles at a butting property for use as fill.

**EROSION AND SEDIMENTATION CONTROL INSPECTION**

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts



**ERM**

8/23/07

Are silt fence, hay bails and wooden stakes intact?

YES

Have soils/sediment been deposited in any wetland areas?

NO

If yes, was it removed and how? Please describe below.

N/A

Is there evidence of erosion along access road?

NO

If yes, please describe below.

Please note any corrective actions taken.

N/A

Field Supervisor Name (Printed):

Bahaar Mammadzadegan

(Signature):

Bahaar Mammadzadegan

**DAILY SITE LOG**

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts



Date: 8/24/07  
Start Time: 06:00

End Time: 14:00

Personnel

ERM: B Massinza, J Flattery, A Kabir, J Picard

Other Personnel:

MT: C Jones, D Sinae, R Mangiardi  
Union: B McElathy, A Zaim, J Hackett, J Muto

Visitors:

NES Rentals, Andrea Telford (MT), PIP Meeting  
Site walk participants, Roger Beckman (ConConn)

Equipment On Site

Type	Make/Model <del>Operating Company</del>	#	Operating Co. <del>Number</del>
<u>Loader</u>	<u>WA 380 Komatsu</u>		<u>MT</u>
<u>Excavator</u>	<u>Caterpillar 307, 330, 345</u>	<u>5, 7, 5</u>	↓
<u>Generator</u>	<u>MQ Power Whisper watt</u>	<u>16, 14</u>	
<u>Welder</u>	<u>Lincoln 250</u>	<u>29</u>	
<u>Water Treatment System</u>		<u>45</u>	
<u>Sweeper</u>	<u>Elgin Premier Pplican</u>		

Describe Activities:

Pressure washing tundra mats over cofferdam. PIP  
Site Walk

**EROSION AND SEDIMENTATION CONTROL INSPECTION**

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts



Are silt fence, hay bails and wooden stakes intact?

YES

Have soils/sediment been deposited in any wetland areas?

NO

If yes, was it removed and how? Please describe below.

N/A

Is there evidence of erosion along access road?

NO

If yes, please describe below.

Please note any corrective actions taken.

N/A

Field Supervisor Name (Printed):

Bahaar Massizadeh

(Signature):

[Handwritten Signature]

*Appendix C*  
*Analytical Laboratory Reports*

*Clean Fill Samples:*

*23 August*

*Stockpile Samples:*

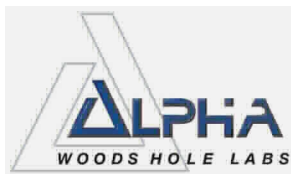
*15, 17, 20, 21 August*

*Excavation Limit Samples:*

*22, 27, 28 August*

*Water Treatment System*

*Samples: 15, 17, 23 August*



## ANALYTICAL REPORT

Lab Number: L0712214

Client: ERM-New England  
399 Boylston Street  
6th Floor  
Boston, MA 02116

ATTN: Jason Flattery

Project Name: NA SOIL EXCAVATION

Project Number: 0051545

Report Date: 08/27/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)





**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712214  
**Report Date:** 08/27/07

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>
L0712214-01	CF-1-20070823-01	RAYTHEON-WAYLAND
L0712214-02	CF-2-20070823-01	RAYTHEON-WAYLAND
L0712214-03	CF-3-20070823-01	RAYTHEON-WAYLAND
L0712214-04	CF-4-20070823-01	RAYTHEON-WAYLAND
L0712214-05	CF-5-20070823-01	RAYTHEON-WAYLAND
L0712214-06	CF-6-20070823-01	RAYTHEON-WAYLAND

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712214  
**Report Date:** 08/27/07

### MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

<b>An affirmative response to questions A, B, C &amp; D is required for "Presumptive Certainty" status</b>		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A
<b>A response to questions E and F is required for "Presumptive Certainty" status</b>		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO
<b>For any questions answered "No", please refer to the case narrative section on the following page(s).</b>		

Please note that sample matrix information is located in the Sample Results section of this report.



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712214  
**Report Date:** 08/27/07

### Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

#### MCP Related Narratives

##### Report Submission

The results for the analysis of Volatile Organics by Method 8260B will be reported under a separate cover. The analysis of Grain Size was performed at the Alpha Woods Hole Mansfield facility. The Grain Size results and test report from the Mansfield facility are included as an addendum.

##### Semivolatile Organics

In reference to question E:

The WG291639-2/-3 LCS/LCSD % recoveries for Aniline and 4-Chloroaniline and LCS % recovery for 3,3'-Dichlorobenzidine are below the individual acceptance criteria for the compounds, but within the overall method allowances.

##### Metals

The WG291896-2/-3 LCS/LCSD were not prepared using the SRM solid matrix as requested. The in-house standard spiking solution was utilized.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the method.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Title: Technical Director/Representative

Date: 08/27/07

# ORGANICS

# SEMIVOLATILES

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712214-01  
**Client ID:** CF-1-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 64,8270C  
**Analytical Date:** 08/24/07 14:24  
**Analyst:** AK  
**Percent Solids:** 95%

**Date Collected:** 08/23/07 09:15  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3545  
**Extraction Date:** 08/23/07 15:00

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Semivolatile Organics by MCP 8270C</b>					
Acenaphthene	ND		ug/kg	350	1
1,2,4-Trichlorobenzene	ND		ug/kg	350	1
Hexachlorobenzene	ND		ug/kg	350	1
Bis(2-chloroethyl)ether	ND		ug/kg	350	1
2-Chloronaphthalene	ND		ug/kg	350	1
1,2-Dichlorobenzene	ND		ug/kg	350	1
1,3-Dichlorobenzene	ND		ug/kg	350	1
1,4-Dichlorobenzene	ND		ug/kg	350	1
3,3'-Dichlorobenzidine	ND		ug/kg	700	1
2,4-Dinitrotoluene	ND		ug/kg	350	1
2,6-Dinitrotoluene	ND		ug/kg	350	1
Azobenzene	ND		ug/kg	350	1
Fluoranthene	ND		ug/kg	350	1
4-Bromophenyl phenyl ether	ND		ug/kg	350	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	350	1
Bis(2-chloroethoxy)methane	ND		ug/kg	350	1
Hexachlorobutadiene	ND		ug/kg	700	1
Hexachloroethane	ND		ug/kg	350	1
Isophorone	ND		ug/kg	350	1
Naphthalene	ND		ug/kg	350	1
Nitrobenzene	ND		ug/kg	350	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	700	1
Butyl benzyl phthalate	ND		ug/kg	350	1
Di-n-butylphthalate	ND		ug/kg	350	1
Di-n-octylphthalate	ND		ug/kg	350	1
Diethyl phthalate	ND		ug/kg	350	1
Dimethyl phthalate	ND		ug/kg	350	1
Benzo(a)anthracene	ND		ug/kg	350	1
Benzo(a)pyrene	ND		ug/kg	350	1
Benzo(b)fluoranthene	ND		ug/kg	350	1

Project Name: NA SOIL EXCAVATION

Lab Number: L0712214

Project Number: 0051545

Report Date: 08/27/07

## SAMPLE RESULTS

Lab ID: L0712214-01

Date Collected: 08/23/07 09:15

Client ID: CF-1-20070823-01

Date Received: 08/23/07

Sample Location: RAYTHEON-WAYLAND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Semivolatile Organics by MCP 8270C</b>					
Benzo(k)fluoranthene	ND		ug/kg	350	1
Chrysene	ND		ug/kg	350	1
Acenaphthylene	ND		ug/kg	350	1
Anthracene	ND		ug/kg	350	1
Benzo(ghi)perylene	ND		ug/kg	350	1
Fluorene	ND		ug/kg	350	1
Phenanthrene	ND		ug/kg	350	1
Dibenzo(a,h)anthracene	ND		ug/kg	350	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	350	1
Pyrene	ND		ug/kg	350	1
Aniline	ND		ug/kg	700	1
4-Chloroaniline	ND		ug/kg	350	1
Dibenzofuran	ND		ug/kg	350	1
2-Methylnaphthalene	ND		ug/kg	350	1
Acetophenone	ND		ug/kg	1400	1
2,4,6-Trichlorophenol	ND		ug/kg	350	1
2-Chlorophenol	ND		ug/kg	420	1
2,4-Dichlorophenol	ND		ug/kg	700	1
2,4-Dimethylphenol	ND		ug/kg	350	1
2-Nitrophenol	ND		ug/kg	1400	1
4-Nitrophenol	ND		ug/kg	700	1
2,4-Dinitrophenol	ND		ug/kg	1400	1
Pentachlorophenol	ND		ug/kg	1400	1
Phenol	ND		ug/kg	490	1
2-Methylphenol	ND		ug/kg	420	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	420	1
2,4,5-Trichlorophenol	ND		ug/kg	350	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		30-130
Phenol-d6	72		30-130
Nitrobenzene-d5	64		30-130
2-Fluorobiphenyl	53		30-130
2,4,6-Tribromophenol	60		30-130
4-Terphenyl-d14	92		30-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712214-02  
**Client ID:** CF-2-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 64,8270C  
**Analytical Date:** 08/24/07 14:46  
**Analyst:** AK  
**Percent Solids:** 95%

**Date Collected:** 08/23/07 09:20  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3545  
**Extraction Date:** 08/23/07 15:00

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Semivolatile Organics by MCP 8270C</b>					
Acenaphthene	ND		ug/kg	350	1
1,2,4-Trichlorobenzene	ND		ug/kg	350	1
Hexachlorobenzene	ND		ug/kg	350	1
Bis(2-chloroethyl)ether	ND		ug/kg	350	1
2-Chloronaphthalene	ND		ug/kg	350	1
1,2-Dichlorobenzene	ND		ug/kg	350	1
1,3-Dichlorobenzene	ND		ug/kg	350	1
1,4-Dichlorobenzene	ND		ug/kg	350	1
3,3'-Dichlorobenzidine	ND		ug/kg	700	1
2,4-Dinitrotoluene	ND		ug/kg	350	1
2,6-Dinitrotoluene	ND		ug/kg	350	1
Azobenzene	ND		ug/kg	350	1
Fluoranthene	ND		ug/kg	350	1
4-Bromophenyl phenyl ether	ND		ug/kg	350	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	350	1
Bis(2-chloroethoxy)methane	ND		ug/kg	350	1
Hexachlorobutadiene	ND		ug/kg	700	1
Hexachloroethane	ND		ug/kg	350	1
Isophorone	ND		ug/kg	350	1
Naphthalene	ND		ug/kg	350	1
Nitrobenzene	ND		ug/kg	350	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	700	1
Butyl benzyl phthalate	ND		ug/kg	350	1
Di-n-butylphthalate	ND		ug/kg	350	1
Di-n-octylphthalate	ND		ug/kg	350	1
Diethyl phthalate	ND		ug/kg	350	1
Dimethyl phthalate	ND		ug/kg	350	1
Benzo(a)anthracene	ND		ug/kg	350	1
Benzo(a)pyrene	ND		ug/kg	350	1
Benzo(b)fluoranthene	ND		ug/kg	350	1



Project Name: NA SOIL EXCAVATION

Lab Number: L0712214

Project Number: 0051545

Report Date: 08/27/07

## SAMPLE RESULTS

Lab ID: L0712214-02  
 Client ID: CF-2-20070823-01  
 Sample Location: RAYTHEON-WAYLAND

Date Collected: 08/23/07 09:20  
 Date Received: 08/23/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Semivolatile Organics by MCP 8270C</b>					
Benzo(k)fluoranthene	ND		ug/kg	350	1
Chrysene	ND		ug/kg	350	1
Acenaphthylene	ND		ug/kg	350	1
Anthracene	ND		ug/kg	350	1
Benzo(ghi)perylene	ND		ug/kg	350	1
Fluorene	ND		ug/kg	350	1
Phenanthrene	ND		ug/kg	350	1
Dibenzo(a,h)anthracene	ND		ug/kg	350	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	350	1
Pyrene	ND		ug/kg	350	1
Aniline	ND		ug/kg	700	1
4-Chloroaniline	ND		ug/kg	350	1
Dibenzofuran	ND		ug/kg	350	1
2-Methylnaphthalene	ND		ug/kg	350	1
Acetophenone	ND		ug/kg	1400	1
2,4,6-Trichlorophenol	ND		ug/kg	350	1
2-Chlorophenol	ND		ug/kg	420	1
2,4-Dichlorophenol	ND		ug/kg	700	1
2,4-Dimethylphenol	ND		ug/kg	350	1
2-Nitrophenol	ND		ug/kg	1400	1
4-Nitrophenol	ND		ug/kg	700	1
2,4-Dinitrophenol	ND		ug/kg	1400	1
Pentachlorophenol	ND		ug/kg	1400	1
Phenol	ND		ug/kg	490	1
2-Methylphenol	ND		ug/kg	420	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	420	1
2,4,5-Trichlorophenol	ND		ug/kg	350	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		30-130
Phenol-d6	83		30-130
Nitrobenzene-d5	69		30-130
2-Fluorobiphenyl	61		30-130
2,4,6-Tribromophenol	62		30-130
4-Terphenyl-d14	86		30-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712214-03  
**Client ID:** CF-3-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 64,8270C  
**Analytical Date:** 08/24/07 15:09  
**Analyst:** AK  
**Percent Solids:** 94%

**Date Collected:** 08/23/07 09:25  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3545  
**Extraction Date:** 08/23/07 15:00

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Semivolatile Organics by MCP 8270C</b>					
Acenaphthene	ND		ug/kg	350	1
1,2,4-Trichlorobenzene	ND		ug/kg	350	1
Hexachlorobenzene	ND		ug/kg	350	1
Bis(2-chloroethyl)ether	ND		ug/kg	350	1
2-Chloronaphthalene	ND		ug/kg	350	1
1,2-Dichlorobenzene	ND		ug/kg	350	1
1,3-Dichlorobenzene	ND		ug/kg	350	1
1,4-Dichlorobenzene	ND		ug/kg	350	1
3,3'-Dichlorobenzidine	ND		ug/kg	710	1
2,4-Dinitrotoluene	ND		ug/kg	350	1
2,6-Dinitrotoluene	ND		ug/kg	350	1
Azobenzene	ND		ug/kg	350	1
Fluoranthene	ND		ug/kg	350	1
4-Bromophenyl phenyl ether	ND		ug/kg	350	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	350	1
Bis(2-chloroethoxy)methane	ND		ug/kg	350	1
Hexachlorobutadiene	ND		ug/kg	710	1
Hexachloroethane	ND		ug/kg	350	1
Isophorone	ND		ug/kg	350	1
Naphthalene	ND		ug/kg	350	1
Nitrobenzene	ND		ug/kg	350	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	710	1
Butyl benzyl phthalate	ND		ug/kg	350	1
Di-n-butylphthalate	ND		ug/kg	350	1
Di-n-octylphthalate	ND		ug/kg	350	1
Diethyl phthalate	ND		ug/kg	350	1
Dimethyl phthalate	ND		ug/kg	350	1
Benzo(a)anthracene	ND		ug/kg	350	1
Benzo(a)pyrene	ND		ug/kg	350	1
Benzo(b)fluoranthene	ND		ug/kg	350	1

Project Name: NA SOIL EXCAVATION

Lab Number: L0712214

Project Number: 0051545

Report Date: 08/27/07

## SAMPLE RESULTS

Lab ID: L0712214-03  
 Client ID: CF-3-20070823-01  
 Sample Location: RAYTHEON-WAYLAND

Date Collected: 08/23/07 09:25  
 Date Received: 08/23/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Semivolatile Organics by MCP 8270C</b>					
Benzo(k)fluoranthene	ND		ug/kg	350	1
Chrysene	ND		ug/kg	350	1
Acenaphthylene	ND		ug/kg	350	1
Anthracene	ND		ug/kg	350	1
Benzo(ghi)perylene	ND		ug/kg	350	1
Fluorene	ND		ug/kg	350	1
Phenanthrene	ND		ug/kg	350	1
Dibenzo(a,h)anthracene	ND		ug/kg	350	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	350	1
Pyrene	ND		ug/kg	350	1
Aniline	ND		ug/kg	710	1
4-Chloroaniline	ND		ug/kg	350	1
Dibenzofuran	ND		ug/kg	350	1
2-Methylnaphthalene	ND		ug/kg	350	1
Acetophenone	ND		ug/kg	1400	1
2,4,6-Trichlorophenol	ND		ug/kg	350	1
2-Chlorophenol	ND		ug/kg	420	1
2,4-Dichlorophenol	ND		ug/kg	710	1
2,4-Dimethylphenol	ND		ug/kg	350	1
2-Nitrophenol	ND		ug/kg	1400	1
4-Nitrophenol	ND		ug/kg	710	1
2,4-Dinitrophenol	ND		ug/kg	1400	1
Pentachlorophenol	ND		ug/kg	1400	1
Phenol	ND		ug/kg	500	1
2-Methylphenol	ND		ug/kg	420	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	420	1
2,4,5-Trichlorophenol	ND		ug/kg	350	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		30-130
Phenol-d6	64		30-130
Nitrobenzene-d5	55		30-130
2-Fluorobiphenyl	50		30-130
2,4,6-Tribromophenol	62		30-130
4-Terphenyl-d14	87		30-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712214-04  
**Client ID:** CF-4-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 64,8270C  
**Analytical Date:** 08/24/07 15:32  
**Analyst:** AK  
**Percent Solids:** 95%

**Date Collected:** 08/23/07 09:30  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3545  
**Extraction Date:** 08/23/07 15:00

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Semivolatile Organics by MCP 8270C</b>					
Acenaphthene	ND		ug/kg	350	1
1,2,4-Trichlorobenzene	ND		ug/kg	350	1
Hexachlorobenzene	ND		ug/kg	350	1
Bis(2-chloroethyl)ether	ND		ug/kg	350	1
2-Chloronaphthalene	ND		ug/kg	350	1
1,2-Dichlorobenzene	ND		ug/kg	350	1
1,3-Dichlorobenzene	ND		ug/kg	350	1
1,4-Dichlorobenzene	ND		ug/kg	350	1
3,3'-Dichlorobenzidine	ND		ug/kg	700	1
2,4-Dinitrotoluene	ND		ug/kg	350	1
2,6-Dinitrotoluene	ND		ug/kg	350	1
Azobenzene	ND		ug/kg	350	1
Fluoranthene	ND		ug/kg	350	1
4-Bromophenyl phenyl ether	ND		ug/kg	350	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	350	1
Bis(2-chloroethoxy)methane	ND		ug/kg	350	1
Hexachlorobutadiene	ND		ug/kg	700	1
Hexachloroethane	ND		ug/kg	350	1
Isophorone	ND		ug/kg	350	1
Naphthalene	ND		ug/kg	350	1
Nitrobenzene	ND		ug/kg	350	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	700	1
Butyl benzyl phthalate	ND		ug/kg	350	1
Di-n-butylphthalate	ND		ug/kg	350	1
Di-n-octylphthalate	ND		ug/kg	350	1
Diethyl phthalate	ND		ug/kg	350	1
Dimethyl phthalate	ND		ug/kg	350	1
Benzo(a)anthracene	ND		ug/kg	350	1
Benzo(a)pyrene	ND		ug/kg	350	1
Benzo(b)fluoranthene	ND		ug/kg	350	1

Project Name: NA SOIL EXCAVATION

Lab Number: L0712214

Project Number: 0051545

Report Date: 08/27/07

## SAMPLE RESULTS

Lab ID: L0712214-04  
 Client ID: CF-4-20070823-01  
 Sample Location: RAYTHEON-WAYLAND

Date Collected: 08/23/07 09:30  
 Date Received: 08/23/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Semivolatile Organics by MCP 8270C</b>					
Benzo(k)fluoranthene	ND		ug/kg	350	1
Chrysene	ND		ug/kg	350	1
Acenaphthylene	ND		ug/kg	350	1
Anthracene	ND		ug/kg	350	1
Benzo(ghi)perylene	ND		ug/kg	350	1
Fluorene	ND		ug/kg	350	1
Phenanthrene	ND		ug/kg	350	1
Dibenzo(a,h)anthracene	ND		ug/kg	350	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	350	1
Pyrene	ND		ug/kg	350	1
Aniline	ND		ug/kg	700	1
4-Chloroaniline	ND		ug/kg	350	1
Dibenzofuran	ND		ug/kg	350	1
2-Methylnaphthalene	ND		ug/kg	350	1
Acetophenone	ND		ug/kg	1400	1
2,4,6-Trichlorophenol	ND		ug/kg	350	1
2-Chlorophenol	ND		ug/kg	420	1
2,4-Dichlorophenol	ND		ug/kg	700	1
2,4-Dimethylphenol	ND		ug/kg	350	1
2-Nitrophenol	ND		ug/kg	1400	1
4-Nitrophenol	ND		ug/kg	700	1
2,4-Dinitrophenol	ND		ug/kg	1400	1
Pentachlorophenol	ND		ug/kg	1400	1
Phenol	ND		ug/kg	490	1
2-Methylphenol	ND		ug/kg	420	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	420	1
2,4,5-Trichlorophenol	ND		ug/kg	350	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		30-130
Phenol-d6	66		30-130
Nitrobenzene-d5	55		30-130
2-Fluorobiphenyl	50		30-130
2,4,6-Tribromophenol	54		30-130
4-Terphenyl-d14	77		30-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712214-05  
**Client ID:** CF-5-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 64,8270C  
**Analytical Date:** 08/24/07 15:55  
**Analyst:** AK  
**Percent Solids:** 94%

**Date Collected:** 08/23/07 09:35  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3545  
**Extraction Date:** 08/23/07 15:00

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Semivolatile Organics by MCP 8270C</b>					
Acenaphthene	ND		ug/kg	350	1
1,2,4-Trichlorobenzene	ND		ug/kg	350	1
Hexachlorobenzene	ND		ug/kg	350	1
Bis(2-chloroethyl)ether	ND		ug/kg	350	1
2-Chloronaphthalene	ND		ug/kg	350	1
1,2-Dichlorobenzene	ND		ug/kg	350	1
1,3-Dichlorobenzene	ND		ug/kg	350	1
1,4-Dichlorobenzene	ND		ug/kg	350	1
3,3'-Dichlorobenzidine	ND		ug/kg	710	1
2,4-Dinitrotoluene	ND		ug/kg	350	1
2,6-Dinitrotoluene	ND		ug/kg	350	1
Azobenzene	ND		ug/kg	350	1
Fluoranthene	ND		ug/kg	350	1
4-Bromophenyl phenyl ether	ND		ug/kg	350	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	350	1
Bis(2-chloroethoxy)methane	ND		ug/kg	350	1
Hexachlorobutadiene	ND		ug/kg	710	1
Hexachloroethane	ND		ug/kg	350	1
Isophorone	ND		ug/kg	350	1
Naphthalene	ND		ug/kg	350	1
Nitrobenzene	ND		ug/kg	350	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	710	1
Butyl benzyl phthalate	ND		ug/kg	350	1
Di-n-butylphthalate	ND		ug/kg	350	1
Di-n-octylphthalate	ND		ug/kg	350	1
Diethyl phthalate	ND		ug/kg	350	1
Dimethyl phthalate	ND		ug/kg	350	1
Benzo(a)anthracene	ND		ug/kg	350	1
Benzo(a)pyrene	ND		ug/kg	350	1
Benzo(b)fluoranthene	ND		ug/kg	350	1

Project Name: NA SOIL EXCAVATION

Lab Number: L0712214

Project Number: 0051545

Report Date: 08/27/07

## SAMPLE RESULTS

Lab ID: L0712214-05  
 Client ID: CF-5-20070823-01  
 Sample Location: RAYTHEON-WAYLAND

Date Collected: 08/23/07 09:35  
 Date Received: 08/23/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Semivolatile Organics by MCP 8270C</b>					
Benzo(k)fluoranthene	ND		ug/kg	350	1
Chrysene	ND		ug/kg	350	1
Acenaphthylene	ND		ug/kg	350	1
Anthracene	ND		ug/kg	350	1
Benzo(ghi)perylene	ND		ug/kg	350	1
Fluorene	ND		ug/kg	350	1
Phenanthrene	ND		ug/kg	350	1
Dibenzo(a,h)anthracene	ND		ug/kg	350	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	350	1
Pyrene	ND		ug/kg	350	1
Aniline	ND		ug/kg	710	1
4-Chloroaniline	ND		ug/kg	350	1
Dibenzofuran	ND		ug/kg	350	1
2-Methylnaphthalene	ND		ug/kg	350	1
Acetophenone	ND		ug/kg	1400	1
2,4,6-Trichlorophenol	ND		ug/kg	350	1
2-Chlorophenol	ND		ug/kg	420	1
2,4-Dichlorophenol	ND		ug/kg	710	1
2,4-Dimethylphenol	ND		ug/kg	350	1
2-Nitrophenol	ND		ug/kg	1400	1
4-Nitrophenol	ND		ug/kg	710	1
2,4-Dinitrophenol	ND		ug/kg	1400	1
Pentachlorophenol	ND		ug/kg	1400	1
Phenol	ND		ug/kg	500	1
2-Methylphenol	ND		ug/kg	420	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	420	1
2,4,5-Trichlorophenol	ND		ug/kg	350	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		30-130
Phenol-d6	85		30-130
Nitrobenzene-d5	70		30-130
2-Fluorobiphenyl	65		30-130
2,4,6-Tribromophenol	67		30-130
4-Terphenyl-d14	85		30-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712214-06  
**Client ID:** CF-6-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 64,8270C  
**Analytical Date:** 08/24/07 16:17  
**Analyst:** AK  
**Percent Solids:** 88%

**Date Collected:** 08/23/07 09:40  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3545  
**Extraction Date:** 08/23/07 15:00

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Semivolatile Organics by MCP 8270C</b>					
Acenaphthene	ND		ug/kg	380	1
1,2,4-Trichlorobenzene	ND		ug/kg	380	1
Hexachlorobenzene	ND		ug/kg	380	1
Bis(2-chloroethyl)ether	ND		ug/kg	380	1
2-Chloronaphthalene	ND		ug/kg	380	1
1,2-Dichlorobenzene	ND		ug/kg	380	1
1,3-Dichlorobenzene	ND		ug/kg	380	1
1,4-Dichlorobenzene	ND		ug/kg	380	1
3,3'-Dichlorobenzidine	ND		ug/kg	760	1
2,4-Dinitrotoluene	ND		ug/kg	380	1
2,6-Dinitrotoluene	ND		ug/kg	380	1
Azobenzene	ND		ug/kg	380	1
Fluoranthene	ND		ug/kg	380	1
4-Bromophenyl phenyl ether	ND		ug/kg	380	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	380	1
Bis(2-chloroethoxy)methane	ND		ug/kg	380	1
Hexachlorobutadiene	ND		ug/kg	760	1
Hexachloroethane	ND		ug/kg	380	1
Isophorone	ND		ug/kg	380	1
Naphthalene	ND		ug/kg	380	1
Nitrobenzene	ND		ug/kg	380	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	760	1
Butyl benzyl phthalate	ND		ug/kg	380	1
Di-n-butylphthalate	ND		ug/kg	380	1
Di-n-octylphthalate	ND		ug/kg	380	1
Diethyl phthalate	ND		ug/kg	380	1
Dimethyl phthalate	ND		ug/kg	380	1
Benzo(a)anthracene	ND		ug/kg	380	1
Benzo(a)pyrene	ND		ug/kg	380	1
Benzo(b)fluoranthene	ND		ug/kg	380	1



Project Name: NA SOIL EXCAVATION

Lab Number: L0712214

Project Number: 0051545

Report Date: 08/27/07

## SAMPLE RESULTS

Lab ID: L0712214-06  
 Client ID: CF-6-20070823-01  
 Sample Location: RAYTHEON-WAYLAND

Date Collected: 08/23/07 09:40  
 Date Received: 08/23/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Semivolatile Organics by MCP 8270C</b>					
Benzo(k)fluoranthene	ND		ug/kg	380	1
Chrysene	ND		ug/kg	380	1
Acenaphthylene	ND		ug/kg	380	1
Anthracene	ND		ug/kg	380	1
Benzo(ghi)perylene	ND		ug/kg	380	1
Fluorene	ND		ug/kg	380	1
Phenanthrene	ND		ug/kg	380	1
Dibenzo(a,h)anthracene	ND		ug/kg	380	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	380	1
Pyrene	ND		ug/kg	380	1
Aniline	ND		ug/kg	760	1
4-Chloroaniline	ND		ug/kg	380	1
Dibenzofuran	ND		ug/kg	380	1
2-Methylnaphthalene	ND		ug/kg	380	1
Acetophenone	ND		ug/kg	1500	1
2,4,6-Trichlorophenol	ND		ug/kg	380	1
2-Chlorophenol	ND		ug/kg	450	1
2,4-Dichlorophenol	ND		ug/kg	760	1
2,4-Dimethylphenol	ND		ug/kg	380	1
2-Nitrophenol	ND		ug/kg	1500	1
4-Nitrophenol	ND		ug/kg	760	1
2,4-Dinitrophenol	ND		ug/kg	1500	1
Pentachlorophenol	ND		ug/kg	1500	1
Phenol	ND		ug/kg	530	1
2-Methylphenol	ND		ug/kg	450	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	450	1
2,4,5-Trichlorophenol	ND		ug/kg	380	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		30-130
Phenol-d6	71		30-130
Nitrobenzene-d5	60		30-130
2-Fluorobiphenyl	51		30-130
2,4,6-Tribromophenol	48		30-130
4-Terphenyl-d14	68		30-130

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712214  
**Report Date:** 08/27/07

**Method Blank Analysis  
Batch Quality Control**

**Analytical Method:** 64,8270C  
**Analytical Date:** 08/24/07 13:12  
**Analyst:** AK

**Extraction Method:** EPA 3545  
**Extraction Date:** 08/23/07 15:00

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by MCP 8270C for sample(s): 01-06 Batch: WG291639-1				
Acenaphthene	ND		ug/kg	330
1,2,4-Trichlorobenzene	ND		ug/kg	330
Hexachlorobenzene	ND		ug/kg	330
Bis(2-chloroethyl)ether	ND		ug/kg	330
2-Chloronaphthalene	ND		ug/kg	330
1,2-Dichlorobenzene	ND		ug/kg	330
1,3-Dichlorobenzene	ND		ug/kg	330
1,4-Dichlorobenzene	ND		ug/kg	330
3,3'-Dichlorobenzidine	ND		ug/kg	670
2,4-Dinitrotoluene	ND		ug/kg	330
2,6-Dinitrotoluene	ND		ug/kg	330
Azobenzene	ND		ug/kg	330
Fluoranthene	ND		ug/kg	330
4-Bromophenyl phenyl ether	ND		ug/kg	330
Bis(2-chloroisopropyl)ether	ND		ug/kg	330
Bis(2-chloroethoxy)methane	ND		ug/kg	330
Hexachlorobutadiene	ND		ug/kg	670
Hexachloroethane	ND		ug/kg	330
Isophorone	ND		ug/kg	330
Naphthalene	ND		ug/kg	330
Nitrobenzene	ND		ug/kg	330
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	670
Butyl benzyl phthalate	ND		ug/kg	330
Di-n-butylphthalate	ND		ug/kg	330
Di-n-octylphthalate	ND		ug/kg	330
Diethyl phthalate	ND		ug/kg	330
Dimethyl phthalate	ND		ug/kg	330
Benzo(a)anthracene	ND		ug/kg	330
Benzo(a)pyrene	ND		ug/kg	330
Benzo(b)fluoranthene	ND		ug/kg	330
Benzo(k)fluoranthene	ND		ug/kg	330



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712214  
**Report Date:** 08/27/07

**Method Blank Analysis  
Batch Quality Control**

**Analytical Method:** 64,8270C  
**Analytical Date:** 08/24/07 13:12  
**Analyst:** AK

**Extraction Method:** EPA 3545  
**Extraction Date:** 08/23/07 15:00

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by MCP 8270C for sample(s): 01-06 Batch: WG291639-1				
Chrysene	ND		ug/kg	330
Acenaphthylene	ND		ug/kg	330
Anthracene	ND		ug/kg	330
Benzo(ghi)perylene	ND		ug/kg	330
Fluorene	ND		ug/kg	330
Phenanthrene	ND		ug/kg	330
Dibenzo(a,h)anthracene	ND		ug/kg	330
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	330
Pyrene	ND		ug/kg	330
Aniline	ND		ug/kg	670
4-Chloroaniline	ND		ug/kg	330
Dibenzofuran	ND		ug/kg	330
2-Methylnaphthalene	ND		ug/kg	330
Acetophenone	ND		ug/kg	1300
2,4,6-Trichlorophenol	ND		ug/kg	330
2-Chlorophenol	ND		ug/kg	400
2,4-Dichlorophenol	ND		ug/kg	670
2,4-Dimethylphenol	ND		ug/kg	330
2-Nitrophenol	ND		ug/kg	1300
4-Nitrophenol	ND		ug/kg	670
2,4-Dinitrophenol	ND		ug/kg	1300
Pentachlorophenol	ND		ug/kg	1300
Phenol	ND		ug/kg	470
2-Methylphenol	ND		ug/kg	400
3-Methylphenol/4-Methylphenol	ND		ug/kg	400
2,4,5-Trichlorophenol	ND		ug/kg	330

**Project Name:** NA SOIL EXCAVATION

**Lab Number:** L0712214

**Project Number:** 0051545

**Report Date:** 08/27/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 64,8270C  
Analytical Date: 08/24/07 13:12  
Analyst: AK

Extraction Method: EPA 3545  
Extraction Date: 08/23/07 15:00

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by MCP 8270C for sample(s): 01-06 Batch: WG291639-1				

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		30-130
Phenol-d6	69		30-130
Nitrobenzene-d5	58		30-130
2-Fluorobiphenyl	49		30-130
2,4,6-Tribromophenol	58		30-130
4-Terphenyl-d14	83		30-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Lab Number:** L0712214

**Project Number:** 0051545

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Semivolatile Organics by MCP 8270C Associated sample(s): 01-06 Batch: WG291639-2 WG291639-3					
Acenaphthene	66	64	40-140	3	30
1,2,4-Trichlorobenzene	52	52	40-140	0	30
Hexachlorobenzene	73	69	40-140	6	30
Bis(2-chloroethyl)ether	60	57	40-140	5	30
2-Chloronaphthalene	65	59	40-140	10	30
1,2-Dichlorobenzene	49	48	40-140	2	30
1,3-Dichlorobenzene	46	49	40-140	6	30
1,4-Dichlorobenzene	50	48	40-140	4	30
3,3'-Dichlorobenzidine	39	41	40-140	5	30
2,4-Dinitrotoluene	83	83	40-140	0	30
2,6-Dinitrotoluene	76	84	40-140	10	30
Azobenzene	78	82	40-140	5	30
Fluoranthene	82	85	40-140	4	30
4-Bromophenyl phenyl ether	76	72	40-140	5	30
Bis(2-chloroisopropyl)ether	54	56	40-140	4	30
Bis(2-chloroethoxy)methane	58	58	40-140	0	30
Hexachlorobutadiene	52	48	40-140	8	30
Hexachloroethane	48	50	40-140	4	30
Isophorone	59	55	40-140	7	30
Naphthalene	51	51	40-140	0	30
Nitrobenzene	66	53	40-140	22	30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Lab Number:** L0712214

**Project Number:** 0051545

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Semivolatile Organics by MCP 8270C Associated sample(s): 01-06 Batch: WG291639-2 WG291639-3					
Bis(2-Ethylhexyl)phthalate	90	95	40-140	5	30
Butyl benzyl phthalate	87	89	40-140	2	30
Di-n-butylphthalate	88	90	40-140	2	30
Di-n-octylphthalate	96	97	40-140	1	30
Diethyl phthalate	74	75	40-140	1	30
Dimethyl phthalate	76	78	40-140	3	30
Benzo(a)anthracene	81	80	40-140	1	30
Benzo(a)pyrene	84	87	40-140	4	30
Benzo(b)fluoranthene	84	86	40-140	2	30
Benzo(k)fluoranthene	71	73	40-140	3	30
Chrysene	78	79	40-140	1	30
Acenaphthylene	64	62	40-140	3	30
Anthracene	77	79	40-140	3	30
Benzo(ghi)perylene	78	82	40-140	5	30
Fluorene	74	76	40-140	3	30
Phenanthrene	72	79	40-140	9	30
Dibenzo(a,h)anthracene	80	81	40-140	1	30
Indeno(1,2,3-cd)Pyrene	84	86	40-140	2	30
Pyrene	79	81	40-140	3	30
Aniline	<b>28</b>	<b>29</b>	40-140	4	30
4-Chloroaniline	<b>35</b>	<b>39</b>	40-140	11	30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712214

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Semivolatile Organics by MCP 8270C Associated sample(s): 01-06 Batch: WG291639-2 WG291639-3					
Dibenzofuran	68	62	40-140	9	30
2-Methylnaphthalene	55	53	40-140	4	30
Acetophenone	56	56	40-140	0	30
2,4,6-Trichlorophenol	66	61	30-130	8	30
2-Chlorophenol	51	48	30-130	6	30
2,4-Dichlorophenol	60	56	30-130	7	30
2,4-Dimethylphenol	50	43	30-130	15	30
2-Nitrophenol	54	50	30-130	8	30
4-Nitrophenol	80	76	30-130	5	30
2,4-Dinitrophenol	50	46	30-130	8	30
Pentachlorophenol	58	66	30-130	13	30
Phenol	56	55	30-130	2	30
2-Methylphenol	51	49	30-130	4	30
3-Methylphenol/4-Methylphenol	54	57	30-130	5	30
2,4,5-Trichlorophenol	58	61	30-130	5	30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712214

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
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Semivolatile Organics by MCP 8270C Associated sample(s): 01-06 Batch: WG291639-2 WG291639-3

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		47		30-130
Phenol-d6	66		65		30-130
Nitrobenzene-d5	59		55		30-130
2-Fluorobiphenyl	57		53		30-130
2,4,6-Tribromophenol	59		66		30-130
4-Terphenyl-d14	77		81		30-130



# PETROLEUM HYDROCARBONS

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712214-01  
**Client ID:** CF-1-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 1,8015B(M)  
**Analytical Date:** 08/24/07 12:15  
**Analyst:** MF  
**Percent Solids:** 95%

**Date Collected:** 08/23/07 09:15  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3545  
**Extraction Date:** 08/23/07 15:10

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Petroleum Hydrocarbons by GC-DRO</b>					
Diesel Range Organics	ND		ug/kg	35000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	56		40-140

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712214-02  
**Client ID:** CF-2-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 1,8015B(M)  
**Analytical Date:** 08/24/07 12:57  
**Analyst:** MF  
**Percent Solids:** 95%

**Date Collected:** 08/23/07 09:20  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3545  
**Extraction Date:** 08/23/07 15:10

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Petroleum Hydrocarbons by GC-DRO</b>					
Diesel Range Organics	ND		ug/kg	35000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	72		40-140

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712214-03  
**Client ID:** CF-3-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 1,8015B(M)  
**Analytical Date:** 08/24/07 13:19  
**Analyst:** MF  
**Percent Solids:** 94%

**Date Collected:** 08/23/07 09:25  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3545  
**Extraction Date:** 08/23/07 15:10

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Petroleum Hydrocarbons by GC-DRO</b>					
Diesel Range Organics	ND		ug/kg	35000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	67		40-140

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712214-04  
**Client ID:** CF-4-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 1,8015B(M)  
**Analytical Date:** 08/24/07 14:02  
**Analyst:** MF  
**Percent Solids:** 95%

**Date Collected:** 08/23/07 09:30  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3545  
**Extraction Date:** 08/23/07 15:10

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Petroleum Hydrocarbons by GC-DRO</b>					
Diesel Range Organics	ND		ug/kg	35000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	85		40-140

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712214-05  
**Client ID:** CF-5-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 1,8015B(M)  
**Analytical Date:** 08/24/07 14:24  
**Analyst:** MF  
**Percent Solids:** 94%

**Date Collected:** 08/23/07 09:35  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3545  
**Extraction Date:** 08/23/07 15:10

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Petroleum Hydrocarbons by GC-DRO</b>					
Diesel Range Organics	ND		ug/kg	35000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	90		40-140

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712214-06  
**Client ID:** CF-6-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 1,8015B(M)  
**Analytical Date:** 08/24/07 15:07  
**Analyst:** MF  
**Percent Solids:** 88%

**Date Collected:** 08/23/07 09:40  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3545  
**Extraction Date:** 08/23/07 15:10

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Petroleum Hydrocarbons by GC-DRO</b>					
Diesel Range Organics	ND		ug/kg	38000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	80		40-140

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712214  
**Report Date:** 08/27/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8015B(M)  
Analytical Date: 08/24/07 10:53  
Analyst: MF

Extraction Method: EPA 3545  
Extraction Date: 08/23/07 15:10

Parameter	Result	Qualifier	Units	RDL
Petroleum Hydrocarbons by GC-DRO for sample(s): 01-06 Batch: WG291640-1				
Diesel Range Organics	ND		ug/kg	33000

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	94		40-140



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Lab Number:** L0712214

**Project Number:** 0051545

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Petroleum Hydrocarbons by GC-DRO Associated sample(s): 01-06 Batch: WG291640-2					
Diesel Range Organics	88	-	40-140	-	

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	96				40-140

## Lab Duplicate Analysis

Batch Quality Control

Project Name: NA SOIL EXCAVATION

Project Number: 0051545

Lab Number: L0712214

Report Date: 08/27/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Petroleum Hydrocarbons by GC-DRO Associated sample(s): 01-06 QC Batch ID: WG291640-3 QC Sample: L0712214-01 Client ID: CF-1-20070823-01					
Diesel Range Organics	ND	ND	ug/kg	NC	40

Surrogate	%Recovery Qualifier	%Recovery Qualifier	Acceptance Criteria
o-Terphenyl	56	80	40-140

# PCBS

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712214-01  
**Client ID:** CF-1-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 64,8082  
**Analytical Date:** 08/24/07 14:37  
**Analyst:** AK  
**Percent Solids:** 95%

**Date Collected:** 08/23/07 09:15  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 08/23/07 18:40  
 08/24/07  
**Cleanup Date1:**

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Polychlorinated Biphenyls by MCP 8082</b>					
Aroclor 1016	ND		ug/kg	35.1	1
Aroclor 1221	ND		ug/kg	35.1	1
Aroclor 1232	ND		ug/kg	35.1	1
Aroclor 1242	ND		ug/kg	35.1	1
Aroclor 1248	ND		ug/kg	35.1	1
Aroclor 1254	ND		ug/kg	35.1	1
Aroclor 1260	ND		ug/kg	35.1	1
Aroclor 1262	ND		ug/kg	35.1	1
Aroclor 1268	ND		ug/kg	35.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	56		30-150	B

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712214-02  
**Client ID:** CF-2-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 64,8082  
**Analytical Date:** 08/24/07 15:06  
**Analyst:** AK  
**Percent Solids:** 95%

**Date Collected:** 08/23/07 09:20  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 08/23/07 18:40  
 08/24/07  
**Cleanup Date1:**

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Polychlorinated Biphenyls by MCP 8082</b>					
Aroclor 1016	ND		ug/kg	35.1	1
Aroclor 1221	ND		ug/kg	35.1	1
Aroclor 1232	ND		ug/kg	35.1	1
Aroclor 1242	ND		ug/kg	35.1	1
Aroclor 1248	ND		ug/kg	35.1	1
Aroclor 1254	ND		ug/kg	35.1	1
Aroclor 1260	ND		ug/kg	35.1	1
Aroclor 1262	ND		ug/kg	35.1	1
Aroclor 1268	ND		ug/kg	35.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	65		30-150	B

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712214-03  
**Client ID:** CF-3-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 64,8082  
**Analytical Date:** 08/24/07 15:34  
**Analyst:** AK  
**Percent Solids:** 94%

**Date Collected:** 08/23/07 09:25  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 08/23/07 18:40  
 08/24/07  
**Cleanup Date1:**

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Polychlorinated Biphenyls by MCP 8082</b>					
Aroclor 1016	ND		ug/kg	35.5	1
Aroclor 1221	ND		ug/kg	35.5	1
Aroclor 1232	ND		ug/kg	35.5	1
Aroclor 1242	ND		ug/kg	35.5	1
Aroclor 1248	ND		ug/kg	35.5	1
Aroclor 1254	ND		ug/kg	35.5	1
Aroclor 1260	ND		ug/kg	35.5	1
Aroclor 1262	ND		ug/kg	35.5	1
Aroclor 1268	ND		ug/kg	35.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	69		30-150	B

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712214-04  
**Client ID:** CF-4-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 64,8082  
**Analytical Date:** 08/24/07 16:03  
**Analyst:** AK  
**Percent Solids:** 95%

**Date Collected:** 08/23/07 09:30  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 08/23/07 18:40  
 08/24/07  
**Cleanup Date1:**

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Polychlorinated Biphenyls by MCP 8082</b>					
Aroclor 1016	ND		ug/kg	35.1	1
Aroclor 1221	ND		ug/kg	35.1	1
Aroclor 1232	ND		ug/kg	35.1	1
Aroclor 1242	ND		ug/kg	35.1	1
Aroclor 1248	ND		ug/kg	35.1	1
Aroclor 1254	ND		ug/kg	35.1	1
Aroclor 1260	ND		ug/kg	35.1	1
Aroclor 1262	ND		ug/kg	35.1	1
Aroclor 1268	ND		ug/kg	35.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	67		30-150	B

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712214-05  
**Client ID:** CF-5-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 64,8082  
**Analytical Date:** 08/24/07 16:32  
**Analyst:** AK  
**Percent Solids:** 94%

**Date Collected:** 08/23/07 09:35  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 08/23/07 18:40  
 08/24/07  
**Cleanup Date1:**

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Polychlorinated Biphenyls by MCP 8082</b>					
Aroclor 1016	ND		ug/kg	35.5	1
Aroclor 1221	ND		ug/kg	35.5	1
Aroclor 1232	ND		ug/kg	35.5	1
Aroclor 1242	ND		ug/kg	35.5	1
Aroclor 1248	ND		ug/kg	35.5	1
Aroclor 1254	ND		ug/kg	35.5	1
Aroclor 1260	ND		ug/kg	35.5	1
Aroclor 1262	ND		ug/kg	35.5	1
Aroclor 1268	ND		ug/kg	35.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	69		30-150	B



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712214-06  
**Client ID:** CF-6-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 64,8082  
**Analytical Date:** 08/24/07 17:00  
**Analyst:** AK  
**Percent Solids:** 88%

**Date Collected:** 08/23/07 09:40  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 08/23/07 18:40  
 08/24/07  
**Cleanup Date1:**

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Polychlorinated Biphenyls by MCP 8082</b>					
Aroclor 1016	ND		ug/kg	37.9	1
Aroclor 1221	ND		ug/kg	37.9	1
Aroclor 1232	ND		ug/kg	37.9	1
Aroclor 1242	ND		ug/kg	37.9	1
Aroclor 1248	ND		ug/kg	37.9	1
Aroclor 1254	ND		ug/kg	37.9	1
Aroclor 1260	ND		ug/kg	37.9	1
Aroclor 1262	ND		ug/kg	37.9	1
Aroclor 1268	ND		ug/kg	37.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	55		30-150	B

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712214  
**Report Date:** 08/27/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 64,8082  
Analytical Date: 08/24/07 17:29  
Analyst: AK

Extraction Method: EPA 3546  
Extraction Date: 08/23/07 09:30  
Cleanup Method1: EPA 3665A  
Cleanup Date1: 08/24/07

Parameter	Result	Qualifier	Units	RDL
Polychlorinated Biphenyls by MCP 8082 for sample(s): 01-06 Batch: WG291571-1				
Aroclor 1016	ND		ug/kg	33.3
Aroclor 1221	ND		ug/kg	33.3
Aroclor 1232	ND		ug/kg	33.3
Aroclor 1242	ND		ug/kg	33.3
Aroclor 1248	ND		ug/kg	33.3
Aroclor 1254	ND		ug/kg	33.3
Aroclor 1260	ND		ug/kg	33.3
Aroclor 1262	ND		ug/kg	33.3
Aroclor 1268	ND		ug/kg	33.3

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	70		30-150	B

## Lab Control Sample Analysis

Batch Quality Control

Project Name: NA SOIL EXCAVATION

Project Number: 0051545

Lab Number: L0712214

Report Date: 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Polychlorinated Biphenyls by MCP 8082 Associated sample(s): 01-06 Batch: WG291571-2 WG291571-3					
Aroclor 1016	90	84	40-140	7	30
Aroclor 1260	102	100	40-140	2	30

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		81		30-150	A
Decachlorobiphenyl	85		81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		70		30-150	B
Decachlorobiphenyl	69		66		30-150	B

# METALS

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712214-01

Date Collected: 08/23/07 09:15

Client ID: CF-1-20070823-01

Date Received: 08/23/07

Sample Location: RAYTHEON-WAYLAND

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals by MCP 6000/7000 series</b>										
Arsenic, Total	6.4		mg/kg	0.42	1	08/26/07 10:50	08/27/07 11:10	EPA 3050B	60,6010B	MG
Cadmium, Total	ND		mg/kg	0.42	1	08/26/07 10:50	08/27/07 11:10	EPA 3050B	60,6010B	MG
Chromium, Total	10		mg/kg	0.42	1	08/26/07 10:50	08/27/07 11:10	EPA 3050B	60,6010B	MG
Lead, Total	7.4		mg/kg	2.1	1	08/26/07 10:50	08/27/07 11:10	EPA 3050B	60,6010B	MG
Mercury, Total	ND		mg/kg	0.08	1	08/23/07 17:30	08/24/07 14:30	EPA 7471A	64,7471A	RC



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712214-02

Date Collected: 08/23/07 09:20

Client ID: CF-2-20070823-01

Date Received: 08/23/07

Sample Location: RAYTHEON-WAYLAND

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals by MCP 6000/7000 series</b>										
Arsenic, Total	6.3		mg/kg	0.42	1	08/26/07 10:50	08/27/07 11:16	EPA 3050B	60,6010B	MG
Cadmium, Total	ND		mg/kg	0.42	1	08/26/07 10:50	08/27/07 11:16	EPA 3050B	60,6010B	MG
Chromium, Total	9.5		mg/kg	0.42	1	08/26/07 10:50	08/27/07 11:16	EPA 3050B	60,6010B	MG
Lead, Total	4.0		mg/kg	2.1	1	08/26/07 10:50	08/27/07 11:16	EPA 3050B	60,6010B	MG
Mercury, Total	ND		mg/kg	0.08	1	08/23/07 17:30	08/24/07 14:32	EPA 7471A	64,7471A	RC



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712214  
**Report Date:** 08/27/07

**SAMPLE RESULTS**

Lab ID: L0712214-03  
 Client ID: CF-3-20070823-01  
 Sample Location: RAYTHEON-WAYLAND  
 Matrix: Soil  
 Percent Solids: 94%

Date Collected: 08/23/07 09:25  
 Date Received: 08/23/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals by MCP 6000/7000 series</b>										
Arsenic, Total	5.5		mg/kg	0.42	1	08/26/07 10:50	08/27/07 11:19	EPA 3050B	60,6010B	MG
Cadmium, Total	ND		mg/kg	0.42	1	08/26/07 10:50	08/27/07 11:19	EPA 3050B	60,6010B	MG
Chromium, Total	8.1		mg/kg	0.42	1	08/26/07 10:50	08/27/07 11:19	EPA 3050B	60,6010B	MG
Lead, Total	3.1		mg/kg	2.1	1	08/26/07 10:50	08/27/07 11:19	EPA 3050B	60,6010B	MG
Mercury, Total	ND		mg/kg	0.08	1	08/23/07 17:30	08/24/07 14:34	EPA 7471A	64,7471A	RC



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712214-04

Date Collected: 08/23/07 09:30

Client ID: CF-4-20070823-01

Date Received: 08/23/07

Sample Location: RAYTHEON-WAYLAND

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals by MCP 6000/7000 series</b>										
Arsenic, Total	5.4		mg/kg	0.41	1	08/26/07 10:50	08/27/07 11:22	EPA 3050B	60,6010B	MG
Cadmium, Total	ND		mg/kg	0.41	1	08/26/07 10:50	08/27/07 11:22	EPA 3050B	60,6010B	MG
Chromium, Total	8.6		mg/kg	0.41	1	08/26/07 10:50	08/27/07 11:22	EPA 3050B	60,6010B	MG
Lead, Total	3.4		mg/kg	2.1	1	08/26/07 10:50	08/27/07 11:22	EPA 3050B	60,6010B	MG
Mercury, Total	ND		mg/kg	0.08	1	08/23/07 17:30	08/24/07 14:36	EPA 7471A	64,7471A	RC





**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712214  
**Report Date:** 08/27/07

**SAMPLE RESULTS**

Lab ID: L0712214-05  
 Client ID: CF-5-20070823-01  
 Sample Location: RAYTHEON-WAYLAND  
 Matrix: Soil  
 Percent Solids: 94%

Date Collected: 08/23/07 09:35  
 Date Received: 08/23/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals by MCP 6000/7000 series</b>										
Arsenic, Total	6.0		mg/kg	0.42	1	08/26/07 10:50	08/27/07 11:24	EPA 3050B	60,6010B	MG
Cadmium, Total	ND		mg/kg	0.42	1	08/26/07 10:50	08/27/07 11:24	EPA 3050B	60,6010B	MG
Chromium, Total	9.1		mg/kg	0.42	1	08/26/07 10:50	08/27/07 11:24	EPA 3050B	60,6010B	MG
Lead, Total	6.5		mg/kg	2.1	1	08/26/07 10:50	08/27/07 11:24	EPA 3050B	60,6010B	MG
Mercury, Total	ND		mg/kg	0.09	1	08/23/07 17:30	08/24/07 14:38	EPA 7471A	64,7471A	RC



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712214**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712214-06

Date Collected: 08/23/07 09:40

Client ID: CF-6-20070823-01

Date Received: 08/23/07

Sample Location: RAYTHEON-WAYLAND

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals by MCP 6000/7000 series</b>										
Arsenic, Total	5.8		mg/kg	0.45	1	08/26/07 10:50	08/27/07 11:27	EPA 3050B	60,6010B	MG
Cadmium, Total	ND		mg/kg	0.45	1	08/26/07 10:50	08/27/07 11:27	EPA 3050B	60,6010B	MG
Chromium, Total	11		mg/kg	0.45	1	08/26/07 10:50	08/27/07 11:27	EPA 3050B	60,6010B	MG
Lead, Total	4.7		mg/kg	2.2	1	08/26/07 10:50	08/27/07 11:27	EPA 3050B	60,6010B	MG
Mercury, Total	ND		mg/kg	0.09	1	08/23/07 17:30	08/24/07 14:43	EPA 7471A	64,7471A	RC



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712214  
**Report Date:** 08/27/07

### Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals by MCP 6000/7000 series for sample(s): 01-06 Batch: WG291660-1								
Mercury, Total	ND	mg/kg	0.08	1	08/23/07 17:30	08/24/07 14:25	64,7471A	RC

#### Prep Information

Digestion Method: EPA 7471A

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals by MCP 6000/7000 series for sample(s): 01-06 Batch: WG291896-1								
Arsenic, Total	ND	mg/kg	0.40	1	08/26/07 10:50	08/27/07 10:53	60,6010B	MG
Cadmium, Total	ND	mg/kg	0.40	1	08/26/07 10:50	08/27/07 10:53	60,6010B	MG
Chromium, Total	ND	mg/kg	0.40	1	08/26/07 10:50	08/27/07 10:53	60,6010B	MG
Lead, Total	ND	mg/kg	2.0	1	08/26/07 10:50	08/27/07 10:53	60,6010B	MG

#### Prep Information

Digestion Method: EPA 3050B

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712214

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals by MCP 6000/7000 series Associated sample(s): 01-06 Batch: WG291660-2 WG291660-3					
Mercury, Total	102	97	75-125	5	30
Total Metals by MCP 6000/7000 series Associated sample(s): 01-06 Batch: WG291896-2 WG291896-3					
Arsenic, Total	102	105	75-125	3	30
Cadmium, Total	103	104	75-125	1	30
Chromium, Total	97	99	75-125	2	30
Lead, Total	98	99	75-125	1	30

# **INORGANICS & MISCELLANEOUS**

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712214  
**Report Date:** 08/27/07

### SAMPLE RESULTS

Lab ID: L0712214-01  
 Client ID: CF-1-20070823-01  
 Sample Location: RAYTHEON-WAYLAND  
 Matrix: Soil

Date Collected: 08/23/07 09:15  
 Date Received: 08/23/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	95		%	0.10	1	-	08/23/07 21:10	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712214  
**Report Date:** 08/27/07

### SAMPLE RESULTS

Lab ID: L0712214-02  
 Client ID: CF-2-20070823-01  
 Sample Location: RAYTHEON-WAYLAND  
 Matrix: Soil

Date Collected: 08/23/07 09:20  
 Date Received: 08/23/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	95		%	0.10	1	-	08/23/07 21:10	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712214  
**Report Date:** 08/27/07

### SAMPLE RESULTS

Lab ID: L0712214-03  
 Client ID: CF-3-20070823-01  
 Sample Location: RAYTHEON-WAYLAND  
 Matrix: Soil

Date Collected: 08/23/07 09:25  
 Date Received: 08/23/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	94		%	0.10	1	-	08/23/07 21:10	30,2540G	NM





**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712214  
**Report Date:** 08/27/07

### SAMPLE RESULTS

**Lab ID:** L0712214-04  
**Client ID:** CF-4-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/23/07 09:30  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	95		%	0.10	1	-	08/23/07 21:10	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712214  
**Report Date:** 08/27/07

### SAMPLE RESULTS

**Lab ID:** L0712214-05  
**Client ID:** CF-5-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/23/07 09:35  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	94		%	0.10	1	-	08/23/07 21:10	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712214  
**Report Date:** 08/27/07

### SAMPLE RESULTS

**Lab ID:** L0712214-06  
**Client ID:** CF-6-20070823-01  
**Sample Location:** RAYTHEON-WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/23/07 09:40  
**Date Received:** 08/23/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	88		%	0.10	1	-	08/23/07 21:10	30,2540G	NM



**Lab Duplicate Analysis**  
Batch Quality Control

Project Name: NA SOIL EXCAVATION

Project Number: 0051545

Lab Number: L0712214

Report Date: 08/27/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Associated sample(s): 01-06 QC Batch ID: WG291681-1 QC Sample: L0712214-01 Client ID: CF-1-20070823-01					
Solids, Total	95	95	%	0	20

Project Name: NA SOIL EXCAVATION

Lab Number: L0712214

Project Number: 0051545

Report Date: 08/27/07

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

## Cooler Information

Cooler	Custody Seal
A	Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0712214-01A	Amber 250ml unpreserved	A	N/A	2C	Y	Absent	MCP-8082-04,MCP-8270-04,TPH-DRO
L0712214-01B	Amber 250ml unpreserved	A	N/A	2C	Y	Absent	MCP-7471T,MCP-AS-6010T,MCP-CD-6010T,MCP-CR-6010T,MCP-PB-6010T,TS
L0712214-02A	Amber 250ml unpreserved	A	N/A	2C	Y	Absent	MCP-8082-04,MCP-8270-04,TPH-DRO
L0712214-02B	Amber 250ml unpreserved	A	N/A	2C	Y	Absent	MCP-7471T,MCP-AS-6010T,MCP-CD-6010T,MCP-CR-6010T,MCP-PB-6010T,TS
L0712214-02C	Amber 250ml unpreserved	A	N/A	2C	Y	Absent	SUB-MAN-GRAIN/SIEVE
L0712214-03A	Amber 250ml unpreserved	A	N/A	2C	Y	Absent	MCP-8082-04,MCP-8270-04,TPH-DRO
L0712214-03B	Amber 250ml unpreserved	A	N/A	2C	Y	Absent	MCP-7471T,MCP-AS-6010T,MCP-CD-6010T,MCP-CR-6010T,MCP-PB-6010T,TS
L0712214-04A	Amber 250ml unpreserved	A	N/A	2C	Y	Absent	MCP-8082-04,MCP-8270-04,TPH-DRO
L0712214-04B	Amber 250ml unpreserved	A	N/A	2C	Y	Absent	MCP-7471T,MCP-AS-6010T,MCP-CD-6010T,MCP-CR-6010T,MCP-PB-6010T,TS
L0712214-04V	Amber 250ml unpreserved	A	N/A	2C	Y	Absent	SUB-MAN-GRAIN/SIEVE
L0712214-05A	Amber 250ml unpreserved	A	N/A	2C	Y	Absent	MCP-8082-04,MCP-8270-04,TPH-DRO
L0712214-05B	Amber 250ml unpreserved	A	N/A	2C	Y	Absent	MCP-7471T,MCP-AS-6010T,MCP-CD-6010T,MCP-CR-6010T,MCP-PB-6010T,TS
L0712214-06A	Amber 250ml unpreserved	A	N/A	2C	Y	Absent	MCP-8082-04,MCP-8270-04,TPH-DRO
L0712214-06B	Amber 250ml unpreserved	A	N/A	2C	Y	Absent	MCP-7471T,MCP-AS-6010T,MCP-CD-6010T,MCP-CR-6010T,MCP-PB-6010T,TS
L0712214-06C	Amber 250ml unpreserved	A	N/A	2C	Y	Absent	SUB-MAN-GRAIN/SIEVE

## Container Comments

L0712214-01A	Temp Probe
L0712214-01B	Temp Probe
L0712214-02A	Temp Probe
L0712214-02B	Temp Probe
L0712214-02C	Temp Probe

**Project Name:** NA SOIL EXCAVATION**Project Number:** 0051545**Lab Number:** L0712214**Report Date:** 08/27/07**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>pH</b>	<b>Temp</b>	<b>Pres</b>	<b>Seal</b>	<b>Analysis</b>
---------------------	-----------------------	---------------	-----------	-------------	-------------	-------------	-----------------

**Container Comments**

L0712214-03A	Temp Probe
L0712214-03B	Temp Probe
L0712214-04A	Temp Probe
L0712214-04B	Temp Probe
L0712214-04V	Temp Probe
L0712214-05A	Temp Probe
L0712214-05B	Temp Probe
L0712214-06A	Temp Probe
L0712214-06B	Temp Probe
L0712214-06C	Temp Probe

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712214  
**Report Date:** 08/27/07

## GLOSSARY

### Acronyms

- EPA - Environmental Protection Agency.  
 LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.  
 LCSD- Laboratory Control Sample Duplicate: Refer to LCS.  
 MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.  
 MSD - Matrix Spike Sample Duplicate: Refer to MS.  
 NA - Not Applicable.  
 NI - Not Ignitable.  
 NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.  
 ND - Not detected at the reported detection limit for the sample.  
 RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.  
 RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

### Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712214  
**Report Date:** 08/27/07

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.
- 64 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). August 2004.

## LIMITATION OF LIABILITIES

Alpha Woods Hole Labs performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.





08270716:46

# CHAIN OF CUSTODY PAGE 1 OF 1

Date Rec'd in Lab: 8/23/07

ALPHA Job #: 10712214



WESTBORO, MA RAYNHAM, MA  
 TEL: 508-898-9220 TEL: 508-822-9300  
 FAX: 508-898-9193 FAX: 508-822-3288

### Project Information

Project Name: NA SOIL EXCAVATION

Project Location: RAYTHEON - WAYLAND

Project #: 0051545

Project Manager: JASON FLATTERY

ALPHA Quote #:

### Turn-Around Time

Standard  RUSH (only confirmed if pre-approved!) 8/27

Date Due: 24 hr Time:

### Client Information

Client: ERM - BOSTON

Address: 399 BOYLSTON ST 6<sup>TH</sup> FLOOR

BOSTON, MA 02116

Phone: (617) 646-7800

Fax: (617) 267-6447

Email: jason.flattery@erm.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

### Report Information - Data Deliverables

FAX  EMAIL  
 ADEx  Add'l Deliverables

### Billing Information

Same as Client info PO #:

### Regulatory Requirements/Report Limits

State/Fed Program: MA MCP Criteria: UNLIMED LANDFILL REUSE CRITERIA  
 MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

Yes  No Are MCP Analytical Methods Required?  
 Yes  No Are CT RCP (Reasonable Confidence Protocols) Required?

**ANALYSIS**

VOCs (HIGH) 8260  
 VOCs (Low) 8260  
 TOTAL SOLIDS  
 PCBs SVOCs TPH  
 TRCRA 5 AS, Cd, Cr  
 GRAIN SIZE

(JDF)

**SAMPLE HANDLING**

Filtration  
 Done  
 Not needed  
 Lab to do Preservation  
 Lab to do

(Please specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS						TOTAL # BOTTLES	
		Date	Time			VOCs (HIGH) 8260	VOCs (Low) 8260	TOTAL SOLIDS	PCBs SVOCs TPH	TRCRA 5 AS, Cd, Cr	GRAIN SIZE		
12214-01	CF-1-20070823-01	8/23/07	9:15	S	JDF	X	X	X	X	X			5
-02	CF-2-20070823-01		9:20			X	X	X	X	X			6
-03	CF-3-20070823-01		9:25			X	X	X	X	X			5
-04	CF-4-20070823-01		9:30			X	X	X	X	X			6
-05	CF-5-20070823-01		9:35			X	X	X	X	X			5
-06	CF-6-20070823-01		9:40			X	X	X	X	X			6
-07	DUP-001-20070823-01		24:00			X	X	X					3
	TB-001-20070823-01	8/22/07	14:15	TB Water	DS	X							1

PLEASE ANSWER QUESTIONS ABOVE!

Container Type: V Y P A A A  
 Preservative: H<sub>2</sub>O H<sub>2</sub>O N/A N/A N/A N/A

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By: [Signature] Date/Time: 8/23/07 12:50  
 Received By: J. Branch Date/Time: 8/23/07 13:30  
 [Signature] Date/Time: 8/23/07 13:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.



## ANALYTICAL REPORT

**Prepared for:**

**Alpha Woods Hole Labs - Westborough  
8 Walkup Drive  
Westborough, MA 01581**

**Project:** L0712214 - ERM  
**ETR:** 0708201  
**Report Date:** August 24, 2007

**Certifications and Accreditations**

**Massachusetts M-MA030  
Connecticut PH-0141  
New Hampshire 2206  
Rhode Island LAO00289  
New Jersey MA015  
Maine MA0030  
New York 11627  
Louisiana 03090  
Florida E87814  
Pennsylvania 68-02089  
Army Corps of Engineers  
Department of the Navy**

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# CASE NARRATIVE

## Alpha Woods Hole Labs

**ETR: 0708201**  
**Project: L0712214-ERM**

All analyses were performed according to Alpha Woods Hole Labs quality assurance program and documented Standard Operating Procedures (SOPs). The analytical results contained in this report were performed within holding time, and with appropriate quality control measures, except where noted. A summary of all state and federal accreditations is provided within this report. Blank correction of results is not performed in the laboratory for any parameter.

The enclosed results of analyses are representative of the samples as received by the laboratory. Alpha Woods Hole Labs makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Alpha Woods Hole Labs. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Nancy J. Rose Title: Project Manager Date: 8/24/07

*i*

*O:\Report\NARTEMP\2007\ALPHA\0708201.doc*

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*Alpha Woods Hole Labs, 320 Forbes Blvd., Mansfield, MA 02048, 508-822-9300*

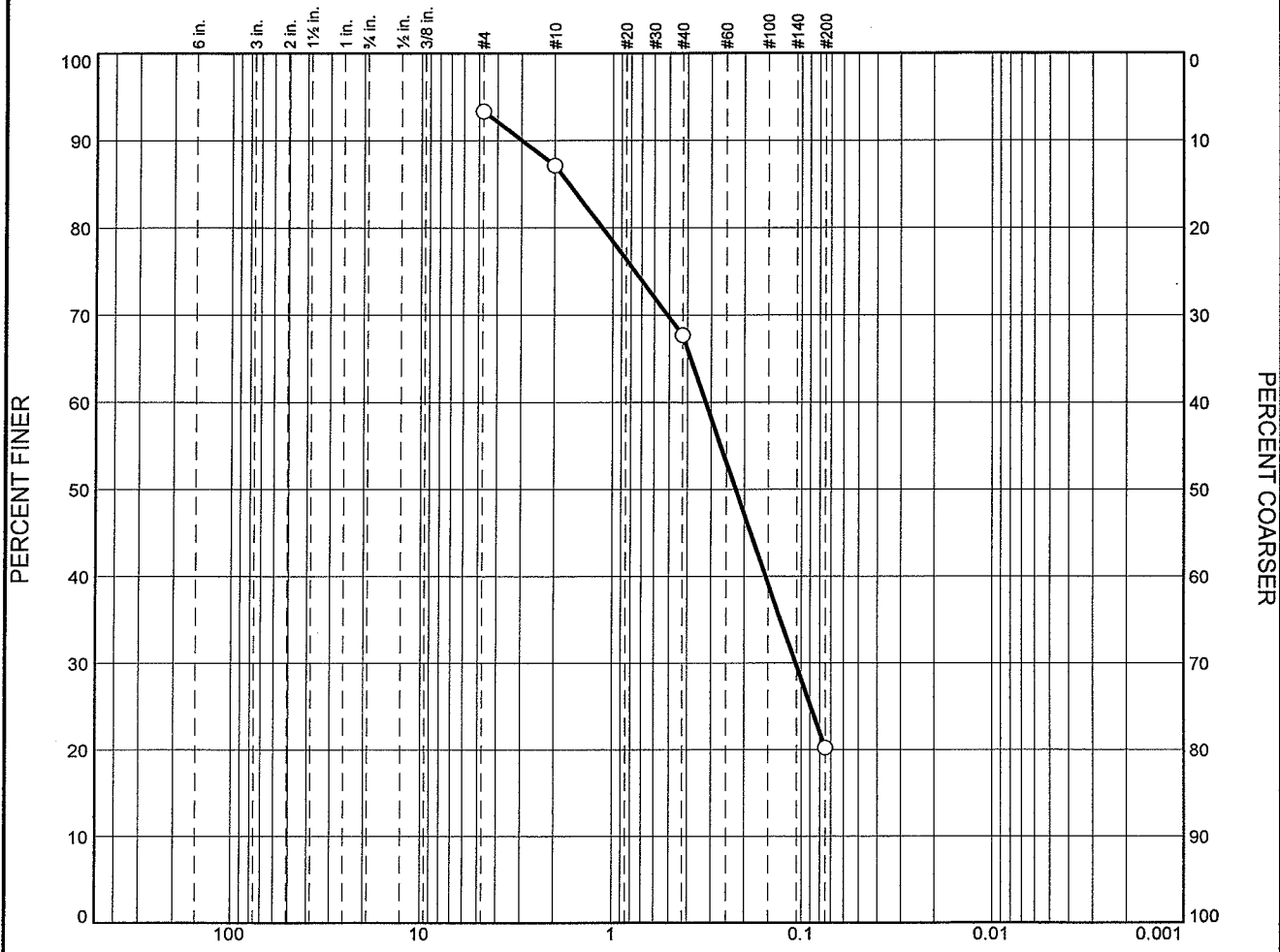
**Sample ID Cross Reference**

Client: **Alpha Woods Hole Labs - Westborough**  
Project: **L0712214 - ERM**

Lab Code: **MA00030**  
ETR: **0708201**

<b>Lab Sample ID</b>	<b>Client Sample ID</b>
<u>0708201-01</u>	<u>CF-2-20070823-01</u>
<u>0708201-02</u>	<u>CF-4-20070823-01</u>
<u>0708201-03</u>	<u>CF-6-20070823-01</u>

# Particle Size Distribution Report



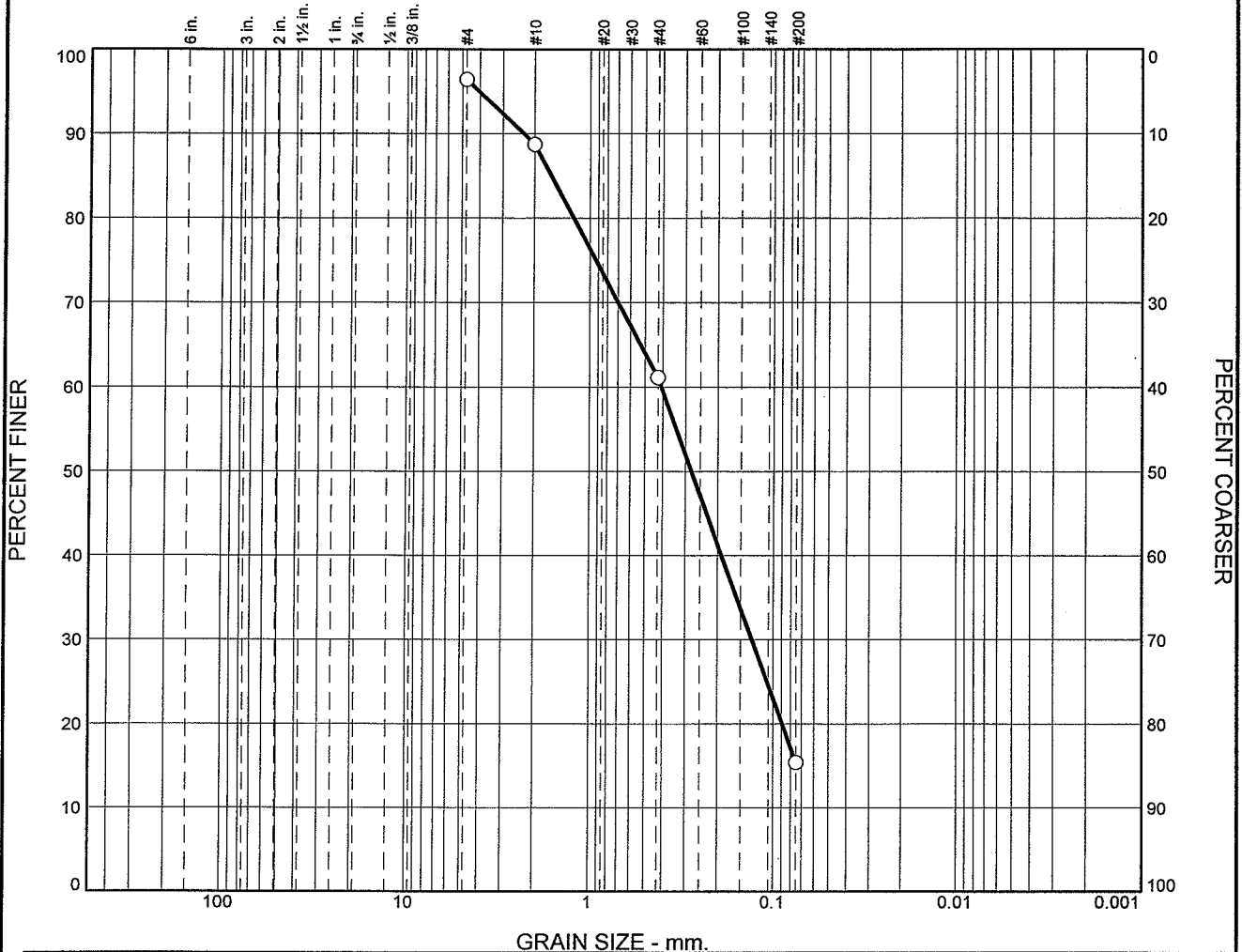
GRAIN SIZE - mm.

	% Cobbles	% Gravel		% Sand			% Fines			
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay		
<input type="radio"/>				6.2	19.4	47.5	20.2			
<input checked="" type="checkbox"/>	LL	PL	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
<input type="radio"/>			1.6870	0.3209	0.2227	0.1073				

Material Description	USCS	AASHTO
<input type="radio"/>	SM	A-2-4(0)

<p><b>Project No.</b> 0708201    <b>Client:</b> Alpha</p> <p><b>Project:</b> L0712214 - ERM</p> <p><input type="radio"/> <b>Source of Sample:</b> CF-2-20070823-01    <b>Sample Number:</b> 0708201-01</p>	<p><b>Remarks:</b></p>
<p><b>ALPHA WOODS HOLE LABS</b></p> <p><b>Raynham, MA</b></p>	<p><b>Project</b></p>

# Particle Size Distribution Report



GRAIN SIZE - mm.

	% Cobbles		% Gravel		% Sand			% Fines		
			Coarse	Fine	Coarse	Medium	Fine	Silt	Clay	
○					7.7	27.6	45.7	15.4		
⊗	LL	PL	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
○			1.6226	0.4069	0.2785	0.1304				
<b>Material Description</b>								<b>USCS</b>	<b>AASHTO</b>	
○								SM	A-2-4(0)	

**Project No.** 0708201      **Client:** Alpha  
**Project:** L0712214 - ERM  
  
 ○ **Source of Sample:** CF-4-20070823-01      **Sample Number:** 0708201-02

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**ALPHA WOODS HOLE LABS**

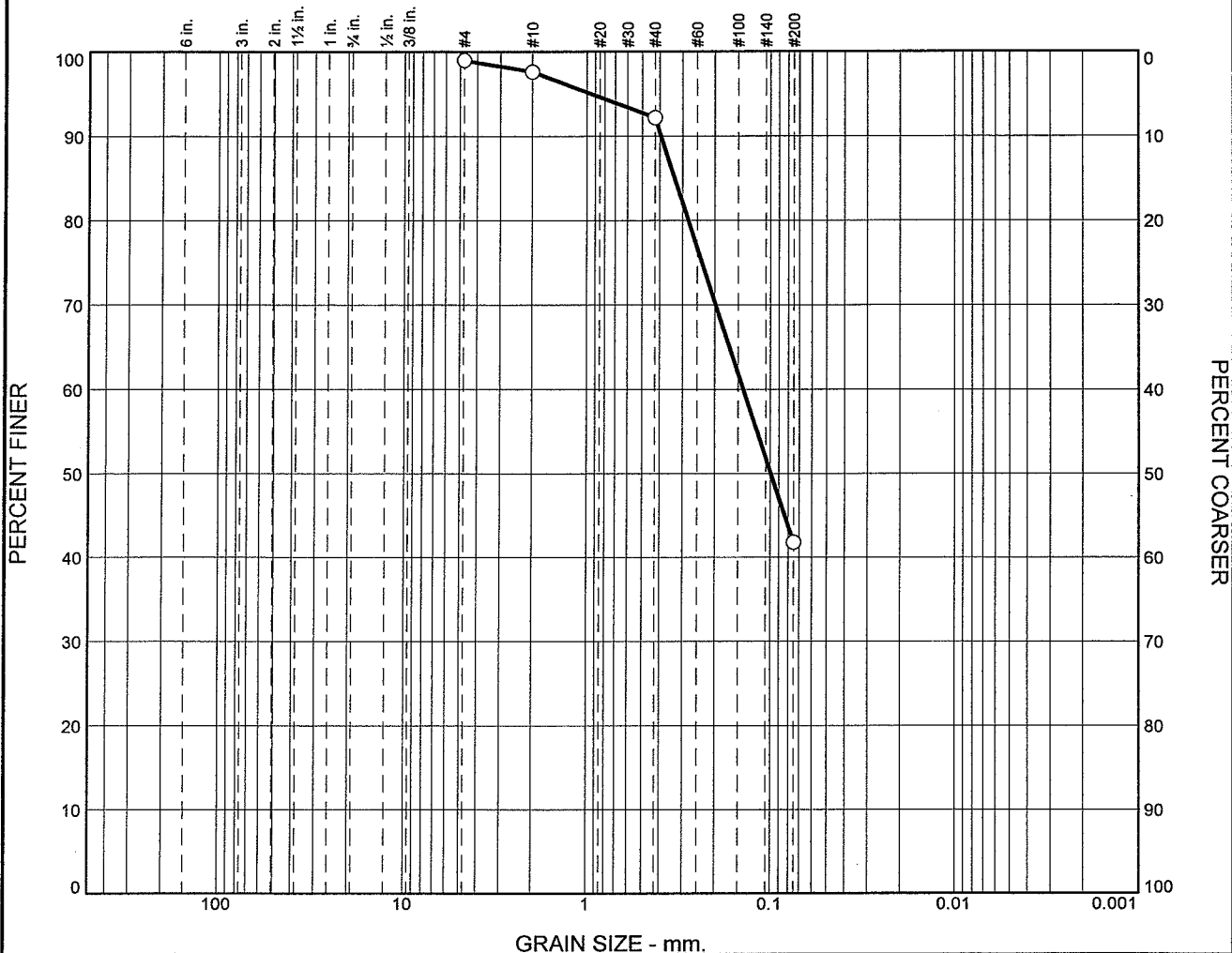
**Raynham, MA**

**Remarks:**

**Project**

# Particle Size Distribution Report



	% Cobbles		% Gravel		% Sand			% Fines		
			Coarse	Fine	Coarse	Medium	Fine	Silt	Clay	
○					1.4	5.4	50.4	41.8		
⊗	LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
○			0.3321	0.1403	0.0994					
○	Material Description							USCS	AASHTO	
○								SM	A-4(0)	

Project No. 0708201      Client: Alpha Project: L0712214 - ERM  ○ Source of Sample: CF-6-20070823-01      Sample Number: 0708201-03	Remarks:
<b>ALPHA WOODS HOLE LABS</b>  Raynham, MA	Project



# CHAIN OF CUSTODY

PAGE 1 OF 1

WESTBORO, MA TEL: 508-898-9220  
 RAYNHAM, MA TEL: 508-822-9300  
 FAX: 508-898-9193 FAX: 508-822-3288

Date Rec'd in Lab: 8/23/07

ALPHA Job #: 10712214

### Client Information

Client: ERM - BOSTON  
 Address: 399 BOYLSTON ST 6<sup>TH</sup> FLOOR  
BOSTON, MA 02116  
 Phone: (617) 646-7800  
 Fax: (617) 267-6447  
 Email: jason.flattery@erm.com  
 These samples have been previously analyzed by Alpha

### Project Information

Project Name: NA SOIL EXCAVATION  
 Project Location: RAYTHEON - WAYLAND  
 Project #: 0051545  
 Project Manager: JASON FLATTERY  
 ALPHA Quote #:

### Turn-Around Time

Standard  RUSH (only confirmed if pre-approved!)  
 Date Due: 24 hr Time:

### Report Information - Data Deliverables

FAX  EMAIL  
 ADEX  Add'l Deliverables

### Billing Information

Same as Client info PO #:

### Regulatory Requirements/Report Limits

State / Fed Program: MA MCP Criteria: UNLINED LANDFILL REUSE CRITERIA  
**MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS**

Yes  No Are MCP Analytical Methods Required?  
 Yes  No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS	LAB USE ONLY	OTHER PROJECT SPECIFIC REQUIREMENTS/COMMENTS/DETECTION LIMITS	TOTAL # BOTTLES
VOCs (HIGH) 8260			5
VOCs (Low) 8260			6
TOTAL SOLIDS			5
PCBS, SVOCs, TPH			6
TRCPRA 5, 45, Cd, Cr			5
GRAIN SIZE			6
			3
			1

**SAMPLE HANDLING**  
 Filtration  
 Done  
 Not needed  
 Lab to do  
 Preservation  
 Lab to do  
 (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials							Sample Specific Comments	
		Date	Time										
<u>12214-01</u>	<u>CF-1-20070823-01</u>	<u>8/23/07</u>	<u>9:15</u>	<u>S</u>	<u>JDF</u>	X	X	X	X	X			5
<u>-02</u>	<u>CF-2-20070823-01</u>		<u>9:20</u>			X	X	X	X	X			6
<u>-03</u>	<u>CF-3-20070823-01</u>		<u>9:25</u>			X	X	X	X	X			5
<u>-04</u>	<u>CF-4-20070823-01</u>		<u>9:30</u>			X	X	X	X	X			6
<u>-05</u>	<u>CF-5-20070823-01</u>		<u>9:35</u>			X	X	X	X	X			5
<u>-06</u>	<u>CF-6-20070823-01</u>		<u>9:40</u>			X	X	X	X	X			6
<u>-07</u>	<u>DUP-001-20070823-01</u>		<u>24:00</u>			X	X	X					6
	<u>TR-001-20070823-01</u>	<u>8/22/07</u>	<u>14:15</u>	<u>TR WATER</u>	<u>DS</u>	X							3

PLEASE ANSWER QUESTIONS ABOVE!

## IS YOUR PROJECT MA MCP or CT RCP?

Container Type	<u>V</u>	<u>V</u>	<u>P</u>	<u>A</u>	<u>A</u>	<u>A</u>	
Preservative	<u>H2O</u>	<u>H2O</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	
Relinquished By:	<u>[Signature]</u>	Date/Time	<u>8/23/07 12:50</u>	Received By:	<u>[Signature]</u>	Date/Time	<u>8/22/07 12:50</u>
			<u>8/23 1330</u>				<u>8/23/07 1330</u>

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

TOTAL # BOTTLES

0827074646





### Sample Receipt Checklist

Client: <u>ALPHA</u>	Receipt Date: <u>8/23/07</u>
Project: <u>0708001</u>	Log-in Date: <u>↓</u>
ETR #: <u>0708201</u>	Inspection by: <u>W</u> Login by: <u>W</u>

**ALL SECTIONS BELOW MUST BE COMPLETED**

	Comments / Notes
Were samples shipped?    Yes, FedEx / UPS / Other: _____ <u>No</u> , WHG Courier pick-up / Hand delivered	Sample storage refrigerator #: <u>F1</u>
Is bill of lading retained?    Yes, Tracking #: _____ No, Unavailable / <u>NA</u>	Sample storage freezer #: _____
Number of coolers received for this project delivery: <u>1</u>	
Indicate cooler temperature upon opening (if multiple coolers, record <u>all</u> temps): <b>Note:</b> If <u>all</u> coolers are 2-6°C, use one checklist, if NOT, use separate checklists and note <u>all</u> samples received <u>above</u> 6°C. <b>Cooler 1:</b> Temperature(s) taken from: <u>3°</u> IR Gun, <u>3°</u> Temp. Blank, / NA	Cooler 2: _____      Cooler 3: _____ Cooler 4: _____      Cooler 5: _____ Cooler 6: _____      Cooler 7: _____ More: _____
Were samples received on ice? <u>Yes</u> / No	
Chain-of-Custody present? <u>Yes</u> / No Complete? <u>Yes</u> / No	
Custody seals present on Cooler?      Yes / <u>No</u> on Bottles?      Yes / <u>No</u> Intact?      Yes / No / <u>NA</u>	
<b>Note:</b> Affix custody seals to back of this page.	
Were sample containers intact? <u>Yes</u> / No      - If No, list samples: →	
Did VOA/VPH waters contain headspace (>5mm)? Yes / No / <u>NA</u> If Yes, list samples: →	
Were 5035 VOA soils, or VPH soils, covered with MeOH?    Yes / No / <u>NA</u> If No, list samples: →	
Was a sufficient amount of sample received for each test indicated on the COC? <u>Yes</u> / No      If No, list samples: →	
If chemical preservation is appropriate - Were samples field preserved?      Yes / No / <u>NA</u> <input type="checkbox"/> C=HCl <input type="checkbox"/> M=MeOH <input type="checkbox"/> S=H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> H=NaOH <input type="checkbox"/> N=HNO <sub>3</sub> <input type="checkbox"/> Other: _____ <input type="checkbox"/> U= Unknown	Chemical preservation OK for ALL samples?      Yes / No / <u>N/A</u>
Preservation (pH) verified at lab for EVERY bottle? (Not: VOA / VPH / Sulfide) YES: <2    or    >12 (CN)    or    NO <u>NA</u> If No, why?:	If No, list samples below:
Were samples received within hold time? <u>Yes</u> / No      If No, list samples: →	
Discrepancy between samples rec'd & COC ?    Yes / <u>No</u> If Yes, list samples: →	
Was the Project Manager notified of any other problems?    Yes / No / NA	
Project Manager Acknowledgement: <u>NAL</u> Date: <u>8/24/07</u>	Please use back for any additional notes!

# Alpha Analytical Labs Sample Delivery Group Form

Laboratory Job No. LO712214

SDG Reviewer J

Client: ERM

Date/Time: 8/23/07 13:30

### Preliminary Review

1. Samples Delivered via:

- Alpha Courier
- Client
- Express Mail
- Other \_\_\_\_\_

2. Chain of Custody:

- Present
- Absent

3. Custody Seal:

- Absent
- Present/Intact
- Present/Broken

3. All Containers Accounted for:

- Yes
- No

4. Samples received:

- Intact
- Extra: \_\_\_\_\_

Broken      Sample IDs : \_\_\_\_\_

Leaking      Sample IDs : \_\_\_\_\_

5. Temperature Blank:

- Present
- Absent
- Temperature (in Celsius):
- 2 - 6 Celsius degrees
- Other 1.6°C

Is the ice (n blue ice) present?       Yes      Cooler Temp: 2°C TP

No \*

### Secondary Review

1. Do the sample(s) labels and Chain of Custody agree?

- Yes
- No \*

2. Are the samples in appropriate containers?

- Yes
- No \*

3. Are the samples properly preserved?

- Yes
- No \*      Initial pH= N/A Soln      Preserved In-House w/ \_\_\_\_\_

4. Are the samples within holding times?

- Yes
- No \*

\* Contact client and attach the phone log

## Certificate/Approval Program Summary



Method numbers assume the most recent EPA revisions. For a complete listing of analytes for the referenced methods please contact your Alpha Woods Hole Lab Project Manager or the Quality Assurance Manager.

**Connecticut Department of Public Health** Certificate/Lab ID : PH-0141 - *Wastewater* (General Chemistry: EPA 120.1, 150.1, 160.1, 160.2, 180.1, 300.0, 310.1, 335.2, 365.2; Metals: 200.8, 245.1; Organics: 608, 624, 625, ETPH) *Solid Waste/Soil* (General Chemistry: 1010, 9010/9014, 9045, 9060; Metals: 6020, 7470, 7471; Organics: 8081, 8082, 8260, 8270, ETPH).

**Florida Department of Health** Certificate/Lab ID : E87814 - Primary NELAP Accreditation Authority for Air & Emissions. Secondary NELAP Accreditation for Wastewater and Solid & Hazardous Waste. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 335.2, 365.2, SM2320B, SM2340B, SM2540G, SM4500NH3; Metals: 245.1; Organics: 608, 624, 625). *Solid and Hazardous Waste* (General Chemistry: 9010/9014, 9045, 9050, 9056, 9065, Reactivity 7.3; Metals: 6020, 7470, 7471; Organics: 8081, 8082, 8260, 8270). *Air & Emissions* (Organics: EPA TO-15).

**Louisiana Department of Environmental Quality** Certificate/Lab ID : 03090 - Primary NELAP Accrediting Authority for Wastewater, Solid & Hazardous Waste. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 9010/9014, 9056, SM2540G; Metals: 200.8, 245.1, 6020; Organics: 608, 624, 625, 8015-DRO/GRO, 8081, 8082, 8260, 8270). *Solid and Hazardous Waste* (General Chemistry: 1010, 1311, 9010/9014, 9040, 9045, 9056, 9060, Reactivity 7.3; Metals: 6020, 7196, 7470, 7471; Organics: 8015-DRO/GRO, 8081, 8082, 8260, 8270).

**Maine Department of Human Services** Certificate/Lab ID : MA0030 - *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 160.1/SM2540C, 160.2/SM2540D, 300.0, 310.1/SM2320B, 335.2, 365.2; Metals: EPA 245.1; Organics: 608, 624)

**Massachusetts Department of Environmental Protection** Certificate/Lab ID: M-MA030 - *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 300.0, 310.1/SM2320B, 335.2, 365.2; Metals: EPA 245.1; Organics: EPA 608, 624).

**New Hampshire Department of Environmental Services** Certificate/Lab ID: 2206 - Secondary NELAP Accreditation. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, SM2540G; Metals: 200.8, 245.4; Organics: 608, 624, 625).

**New Jersey Department of Environmental Protection** Certificate/Lab ID : MA015 - Secondary NELAP Accreditation. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 376.2, 9010/9014, 9056, SM2540G; Metals: 200.8, 245.1 6020; Organics: 608, 624, 625, 8081, 8082, 8260, 8270). *Solid & Hazardous Waste* (General Chemistry: EPA 1010, 1311, 9010/9014, 9040, 9045, 9056, 9060; Metals: 6020, 7196, 7470, 7471; Organics: 8015-DRO/GRO, 8081, 8082, 8260, 8270). *Air & Emissions* (Organics: EPA TO-15).

**New York Department of Health** Certificate/Lab ID : 11627 - Secondary NELAP Accreditation. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 300.0, 310.1/SM2320B, 365.2, 376.2; Metals: 245.1; Organics: 608, 624, 625). *Solid and Hazardous Waste* (General Chemistry: EPA 1010, 1311; : 245.1; 6020, 7041; Organics: 8081, 8082, 8260, 8270). *Air & Emissions* (Organics: EPA TO-15).

**Rhode Island Department of Health** Certificate/Lab ID : LAO00289 - Chemistry: *Organic and Inorganic in Non-Poratable Water, Wastewater/Sewage and Soil* (Refer to LADEQ and MADEP certificates for method numbers.)

**Pennsylvania Department of Environmental Protection** Certificate/Lab ID : 68-02089 - Registered laboratory

**U.S. Army Corps of Engineers**

**Department of the Navy**



## ANALYTICAL REPORT

Lab Number:	L0712366
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	NA SOIL EXCAVATION
Project Number:	0051545
Report Date:	08/28/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712366  
**Report Date:** 08/28/07

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>
L0712366-01	EL-CD23-2-20070827-01	RAYTHEON WAYLAND
L0712366-02	EL-DE1-2-20070827-01	RAYTHEON WAYLAND

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712366  
**Report Date:** 08/28/07

### MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

<b>An affirmative response to questions A, B, C &amp; D is required for "Presumptive Certainty" status</b>		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A
<b>A response to questions E and F is required for "Presumptive Certainty" status</b>		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	YES
<b>For any questions answered "No", please refer to the case narrative section on the following page(s).</b>		

Please note that sample matrix information is located in the Sample Results section of this report.



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712366  
**Report Date:** 08/28/07

### Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

#### MCP Related Narratives

##### Volatile Organics - Low

L0712366-01 was processed against a calibration curve that utilized a quadratic fit for 2,2-Dichloropropane.

In reference to question E:

The WG292073-1/-2 LCS/LCSD % recoveries for Dichlorodifluoromethane and the LCS % recovery for 2,2-Dichloropropane are below, the individual acceptance criteria for the compounds, but within the overall method allowances. These are all difficult analytes.

##### Volatile Organics - High

L0712366-02 was processed against a calibration curve that utilized a quadratic fit for 2,2-Dichloropropane.

In reference to question E:

The WG292074-1/-2 LCS/LCSD % recoveries for Dichlorodifluoromethane and the LCS % recovery for 2,2-Dichloropropane are below, the individual acceptance criteria for the compounds, but within the overall method allowances. These are all difficult analytes.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Title: Technical Director/Representative

Date: 08/28/07



# ORGANICS

# VOLATILES

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712366**Project Number:** 0051545**Report Date:** 08/28/07**SAMPLE RESULTS**

**Lab ID:** L0712366-01  
**Client ID:** EL-CD23-2-20070827-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Analytical Method:** 60,8260B  
**Analytical Date:** 08/28/07 10:48  
**Analyst:** GK  
**Percent Solids:** 79%

**Date Collected:** 08/27/07 12:10  
**Date Received:** 08/27/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	12	1
1,1-Dichloroethane	ND		ug/kg	1.7	1
Chloroform	ND		ug/kg	1.7	1
Carbon tetrachloride	ND		ug/kg	1.2	1
1,2-Dichloropropane	ND		ug/kg	4.0	1
Dibromochloromethane	ND		ug/kg	1.2	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	1
Tetrachloroethene	ND		ug/kg	1.2	1
Chlorobenzene	ND		ug/kg	1.2	1
Trichlorofluoromethane	ND		ug/kg	5.8	1
1,2-Dichloroethane	ND		ug/kg	1.2	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	1
Bromodichloromethane	ND		ug/kg	1.2	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	1
1,1-Dichloropropene	ND		ug/kg	5.8	1
Bromoform	ND		ug/kg	4.6	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	1
Benzene	ND		ug/kg	1.2	1
Toluene	ND		ug/kg	1.7	1
Ethylbenzene	ND		ug/kg	1.2	1
Chloromethane	ND		ug/kg	5.8	1
Bromomethane	ND		ug/kg	2.3	1
Vinyl chloride	ND		ug/kg	2.3	1
Chloroethane	ND		ug/kg	2.3	1
1,1-Dichloroethene	ND		ug/kg	1.2	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	1
Trichloroethene	ND		ug/kg	1.2	1
1,2-Dichlorobenzene	ND		ug/kg	5.8	1
1,3-Dichlorobenzene	ND		ug/kg	5.8	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712366**Project Number:** 0051545**Report Date:** 08/28/07**SAMPLE RESULTS**

Lab ID: L0712366-01  
 Client ID: EL-CD23-2-20070827-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/27/07 12:10  
 Date Received: 08/27/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	5.8	1
Methyl tert butyl ether	ND		ug/kg	2.3	1
p/m-Xylene	ND		ug/kg	2.3	1
o-Xylene	ND		ug/kg	2.3	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	1
Dibromomethane	ND		ug/kg	12	1
1,2,3-Trichloropropane	ND		ug/kg	12	1
Styrene	ND		ug/kg	2.3	1
Dichlorodifluoromethane	ND		ug/kg	12	1
Acetone	ND		ug/kg	12	1
Carbon disulfide	ND		ug/kg	58	1
2-Butanone	ND		ug/kg	12	1
4-Methyl-2-pentanone	ND		ug/kg	12	1
2-Hexanone	ND		ug/kg	12	1
Bromochloromethane	ND		ug/kg	5.8	1
Tetrahydrofuran	ND		ug/kg	23	1
2,2-Dichloropropane	ND		ug/kg	5.8	1
1,2-Dibromoethane	ND		ug/kg	4.6	1
1,3-Dichloropropane	ND		ug/kg	5.8	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	1
Bromobenzene	ND		ug/kg	5.8	1
n-Butylbenzene	ND		ug/kg	1.2	1
sec-Butylbenzene	ND		ug/kg	1.2	1
tert-Butylbenzene	ND		ug/kg	5.8	1
o-Chlorotoluene	ND		ug/kg	5.8	1
p-Chlorotoluene	ND		ug/kg	5.8	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	1
Hexachlorobutadiene	ND		ug/kg	5.8	1
Isopropylbenzene	ND		ug/kg	1.2	1
p-Isopropyltoluene	ND		ug/kg	1.2	1
Naphthalene	ND		ug/kg	5.8	1
n-Propylbenzene	ND		ug/kg	1.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.8	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.8	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.8	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.8	1
Ethyl ether	ND		ug/kg	5.8	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712366**Project Number:** 0051545**Report Date:** 08/28/07**SAMPLE RESULTS**

Lab ID: L0712366-01

Date Collected: 08/27/07 12:10

Client ID: EL-CD23-2-20070827-01

Date Received: 08/27/07

Sample Location: RAYTHEON WAYLAND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Isopropyl Ether	ND		ug/kg	4.6	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.6	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.6	1
1,4-Dioxane	ND		ug/kg	580	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	96		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712366**Project Number:** 0051545**Report Date:** 08/28/07**SAMPLE RESULTS**

Lab ID: L0712366-02  
 Client ID: EL-DE1-2-20070827-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil  
 Analytical Method: 60,8260B  
 Analytical Date: 08/28/07 11:24  
 Analyst: BT  
 Percent Solids: 76%

Date Collected: 08/27/07 12:12  
 Date Received: 08/27/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Methylene chloride	ND		ug/kg	810	1
1,1-Dichloroethane	ND		ug/kg	120	1
Chloroform	ND		ug/kg	120	1
Carbon tetrachloride	ND		ug/kg	81	1
1,2-Dichloropropane	ND		ug/kg	280	1
Dibromochloromethane	ND		ug/kg	81	1
1,1,2-Trichloroethane	ND		ug/kg	120	1
Tetrachloroethene	ND		ug/kg	81	1
Chlorobenzene	ND		ug/kg	81	1
Trichlorofluoromethane	ND		ug/kg	400	1
1,2-Dichloroethane	ND		ug/kg	81	1
1,1,1-Trichloroethane	ND		ug/kg	81	1
Bromodichloromethane	ND		ug/kg	81	1
trans-1,3-Dichloropropene	ND		ug/kg	81	1
cis-1,3-Dichloropropene	ND		ug/kg	81	1
1,1-Dichloropropene	ND		ug/kg	400	1
Bromoform	ND		ug/kg	320	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	81	1
Benzene	ND		ug/kg	81	1
Toluene	ND		ug/kg	120	1
Ethylbenzene	ND		ug/kg	81	1
Chloromethane	ND		ug/kg	400	1
Bromomethane	ND		ug/kg	160	1
Vinyl chloride	ND		ug/kg	160	1
Chloroethane	ND		ug/kg	160	1
1,1-Dichloroethene	ND		ug/kg	81	1
trans-1,2-Dichloroethene	ND		ug/kg	120	1
Trichloroethene	570		ug/kg	81	1
1,2-Dichlorobenzene	ND		ug/kg	400	1
1,3-Dichlorobenzene	ND		ug/kg	400	1

Project Name: NA SOIL EXCAVATION

Lab Number: L0712366

Project Number: 0051545

Report Date: 08/28/07

## SAMPLE RESULTS

Lab ID: L0712366-02  
 Client ID: EL-DE1-2-20070827-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/27/07 12:12  
 Date Received: 08/27/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
1,4-Dichlorobenzene	ND		ug/kg	400	1
Methyl tert butyl ether	ND		ug/kg	160	1
p/m-Xylene	ND		ug/kg	160	1
o-Xylene	ND		ug/kg	160	1
cis-1,2-Dichloroethene	ND		ug/kg	81	1
Dibromomethane	ND		ug/kg	810	1
1,2,3-Trichloropropane	ND		ug/kg	810	1
Styrene	ND		ug/kg	160	1
Dichlorodifluoromethane	ND		ug/kg	810	1
Acetone	ND		ug/kg	810	1
Carbon disulfide	ND		ug/kg	4000	1
2-Butanone	ND		ug/kg	810	1
4-Methyl-2-pentanone	ND		ug/kg	810	1
2-Hexanone	ND		ug/kg	810	1
Bromochloromethane	ND		ug/kg	400	1
Tetrahydrofuran	ND		ug/kg	1600	1
2,2-Dichloropropane	ND		ug/kg	400	1
1,2-Dibromoethane	ND		ug/kg	320	1
1,3-Dichloropropane	ND		ug/kg	400	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	81	1
Bromobenzene	ND		ug/kg	400	1
n-Butylbenzene	ND		ug/kg	81	1
sec-Butylbenzene	ND		ug/kg	81	1
tert-Butylbenzene	ND		ug/kg	400	1
o-Chlorotoluene	ND		ug/kg	400	1
p-Chlorotoluene	ND		ug/kg	400	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	400	1
Hexachlorobutadiene	ND		ug/kg	400	1
Isopropylbenzene	ND		ug/kg	81	1
p-Isopropyltoluene	ND		ug/kg	81	1
Naphthalene	ND		ug/kg	400	1
n-Propylbenzene	ND		ug/kg	81	1
1,2,3-Trichlorobenzene	ND		ug/kg	400	1
1,2,4-Trichlorobenzene	ND		ug/kg	400	1
1,3,5-Trimethylbenzene	ND		ug/kg	400	1
1,2,4-Trimethylbenzene	ND		ug/kg	400	1
Ethyl ether	ND		ug/kg	400	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712366**Project Number:** 0051545**Report Date:** 08/28/07**SAMPLE RESULTS**

Lab ID: L0712366-02  
 Client ID: EL-DE1-2-20070827-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/27/07 12:12  
 Date Received: 08/27/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Isopropyl Ether	ND		ug/kg	320	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	320	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	320	1
1,4-Dioxane	ND		ug/kg	40000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	88		70-130



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712366  
**Report Date:** 08/28/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/28/07 10:12  
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 01 Batch: WG292073-3				
Methylene chloride	ND		ug/kg	10
1,1-Dichloroethane	ND		ug/kg	1.5
Chloroform	ND		ug/kg	1.5
Carbon tetrachloride	ND		ug/kg	1.0
1,2-Dichloropropane	ND		ug/kg	3.5
Dibromochloromethane	ND		ug/kg	1.0
1,1,2-Trichloroethane	ND		ug/kg	1.5
Tetrachloroethene	ND		ug/kg	1.0
Chlorobenzene	ND		ug/kg	1.0
Trichlorofluoromethane	ND		ug/kg	5.0
1,2-Dichloroethane	ND		ug/kg	1.0
1,1,1-Trichloroethane	ND		ug/kg	1.0
Bromodichloromethane	ND		ug/kg	1.0
trans-1,3-Dichloropropene	ND		ug/kg	1.0
cis-1,3-Dichloropropene	ND		ug/kg	1.0
1,1-Dichloropropene	ND		ug/kg	5.0
Bromoform	ND		ug/kg	4.0
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0
Benzene	ND		ug/kg	1.0
Toluene	ND		ug/kg	1.5
Ethylbenzene	ND		ug/kg	1.0
Chloromethane	ND		ug/kg	5.0
Bromomethane	ND		ug/kg	2.0
Vinyl chloride	ND		ug/kg	2.0
Chloroethane	ND		ug/kg	2.0
1,1-Dichloroethene	ND		ug/kg	1.0
trans-1,2-Dichloroethene	ND		ug/kg	1.5
Trichloroethene	ND		ug/kg	1.0
1,2-Dichlorobenzene	ND		ug/kg	5.0
1,3-Dichlorobenzene	ND		ug/kg	5.0
1,4-Dichlorobenzene	ND		ug/kg	5.0

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712366  
**Report Date:** 08/28/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/28/07 10:12  
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 01 Batch: WG292073-3				
Methyl tert butyl ether	ND		ug/kg	2.0
p/m-Xylene	ND		ug/kg	2.0
o-Xylene	ND		ug/kg	2.0
cis-1,2-Dichloroethene	ND		ug/kg	1.0
Dibromomethane	ND		ug/kg	10
1,2,3-Trichloropropane	ND		ug/kg	10
Styrene	ND		ug/kg	2.0
Dichlorodifluoromethane	ND		ug/kg	10
Acetone	ND		ug/kg	10
Carbon disulfide	ND		ug/kg	50
2-Butanone	ND		ug/kg	10
4-Methyl-2-pentanone	ND		ug/kg	10
2-Hexanone	ND		ug/kg	10
Bromochloromethane	ND		ug/kg	5.0
Tetrahydrofuran	ND		ug/kg	20
2,2-Dichloropropane	ND		ug/kg	5.0
1,2-Dibromoethane	ND		ug/kg	4.0
1,3-Dichloropropane	ND		ug/kg	5.0
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0
Bromobenzene	ND		ug/kg	5.0
n-Butylbenzene	ND		ug/kg	1.0
sec-Butylbenzene	ND		ug/kg	1.0
tert-Butylbenzene	ND		ug/kg	5.0
o-Chlorotoluene	ND		ug/kg	5.0
p-Chlorotoluene	ND		ug/kg	5.0
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0
Hexachlorobutadiene	ND		ug/kg	5.0
Isopropylbenzene	ND		ug/kg	1.0
p-Isopropyltoluene	ND		ug/kg	1.0
Naphthalene	ND		ug/kg	5.0
n-Propylbenzene	ND		ug/kg	1.0

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712366  
**Report Date:** 08/28/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/28/07 10:12  
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 01 Batch: WG292073-3				
1,2,3-Trichlorobenzene	ND		ug/kg	5.0
1,2,4-Trichlorobenzene	ND		ug/kg	5.0
1,3,5-Trimethylbenzene	ND		ug/kg	5.0
1,2,4-Trimethylbenzene	ND		ug/kg	5.0
Ethyl ether	ND		ug/kg	5.0
Isopropyl Ether	ND		ug/kg	4.0
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0
1,4-Dioxane	ND		ug/kg	500

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	91		70-130

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712366  
**Report Date:** 08/28/07

**Method Blank Analysis  
Batch Quality Control**

**Analytical Method:** 60,8260B  
**Analytical Date:** 08/28/07 10:12  
**Analyst:** BT

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 02 Batch: WG292074-3				
Methylene chloride	ND		ug/kg	500
1,1-Dichloroethane	ND		ug/kg	75
Chloroform	ND		ug/kg	75
Carbon tetrachloride	ND		ug/kg	50
1,2-Dichloropropane	ND		ug/kg	180
Dibromochloromethane	ND		ug/kg	50
1,1,2-Trichloroethane	ND		ug/kg	75
Tetrachloroethene	ND		ug/kg	50
Chlorobenzene	ND		ug/kg	50
Trichlorofluoromethane	ND		ug/kg	250
1,2-Dichloroethane	ND		ug/kg	50
1,1,1-Trichloroethane	ND		ug/kg	50
Bromodichloromethane	ND		ug/kg	50
trans-1,3-Dichloropropene	ND		ug/kg	50
cis-1,3-Dichloropropene	ND		ug/kg	50
1,1-Dichloropropene	ND		ug/kg	250
Bromoform	ND		ug/kg	200
1,1,2,2-Tetrachloroethane	ND		ug/kg	50
Benzene	ND		ug/kg	50
Toluene	ND		ug/kg	75
Ethylbenzene	ND		ug/kg	50
Chloromethane	ND		ug/kg	250
Bromomethane	ND		ug/kg	100
Vinyl chloride	ND		ug/kg	100
Chloroethane	ND		ug/kg	100
1,1-Dichloroethene	ND		ug/kg	50
trans-1,2-Dichloroethene	ND		ug/kg	75
Trichloroethene	ND		ug/kg	50
1,2-Dichlorobenzene	ND		ug/kg	250
1,3-Dichlorobenzene	ND		ug/kg	250
1,4-Dichlorobenzene	ND		ug/kg	250

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712366  
**Report Date:** 08/28/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/28/07 10:12  
Analyst: BT

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 02 Batch: WG292074-3				
Methyl tert butyl ether	ND		ug/kg	100
p/m-Xylene	ND		ug/kg	100
o-Xylene	ND		ug/kg	100
cis-1,2-Dichloroethene	ND		ug/kg	50
Dibromomethane	ND		ug/kg	500
1,2,3-Trichloropropane	ND		ug/kg	500
Styrene	ND		ug/kg	100
Dichlorodifluoromethane	ND		ug/kg	500
Acetone	ND		ug/kg	500
Carbon disulfide	ND		ug/kg	2500
2-Butanone	ND		ug/kg	500
4-Methyl-2-pentanone	ND		ug/kg	500
2-Hexanone	ND		ug/kg	500
Bromochloromethane	ND		ug/kg	250
Tetrahydrofuran	ND		ug/kg	1000
2,2-Dichloropropane	ND		ug/kg	250
1,2-Dibromoethane	ND		ug/kg	200
1,3-Dichloropropane	ND		ug/kg	250
1,1,1,2-Tetrachloroethane	ND		ug/kg	50
Bromobenzene	ND		ug/kg	250
n-Butylbenzene	ND		ug/kg	50
sec-Butylbenzene	ND		ug/kg	50
tert-Butylbenzene	ND		ug/kg	250
o-Chlorotoluene	ND		ug/kg	250
p-Chlorotoluene	ND		ug/kg	250
1,2-Dibromo-3-chloropropane	ND		ug/kg	250
Hexachlorobutadiene	ND		ug/kg	250
Isopropylbenzene	ND		ug/kg	50
p-Isopropyltoluene	ND		ug/kg	50
Naphthalene	ND		ug/kg	250
n-Propylbenzene	ND		ug/kg	50

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712366  
**Report Date:** 08/28/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/28/07 10:12  
Analyst: BT

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 02 Batch: WG292074-3				
1,2,3-Trichlorobenzene	ND		ug/kg	250
1,2,4-Trichlorobenzene	ND		ug/kg	250
1,3,5-Trimethylbenzene	ND		ug/kg	250
1,2,4-Trimethylbenzene	ND		ug/kg	250
Ethyl ether	ND		ug/kg	250
Isopropyl Ether	ND		ug/kg	200
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200
Tertiary-Amyl Methyl Ether	ND		ug/kg	200
1,4-Dioxane	ND		ug/kg	25000

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	91		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Lab Number:** L0712366

**Project Number:** 0051545

**Report Date:** 08/28/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 01 Batch: WG292073-1 WG292073-2					
Methylene chloride	90	88	70-130	2	25
1,1-Dichloroethane	99	100	70-130	1	25
Chloroform	101	102	70-130	1	25
Carbon tetrachloride	94	100	70-130	6	25
1,2-Dichloropropane	102	103	70-130	1	25
Dibromochloromethane	93	98	70-130	5	25
1,1,2-Trichloroethane	102	105	70-130	3	25
Tetrachloroethene	114	112	70-130	2	25
Chlorobenzene	105	105	70-130	0	25
Trichlorofluoromethane	99	97	70-130	2	25
1,2-Dichloroethane	97	100	70-130	3	25
1,1,1-Trichloroethane	99	100	70-130	1	25
Bromodichloromethane	97	101	70-130	4	25
trans-1,3-Dichloropropene	90	96	70-130	6	25
cis-1,3-Dichloropropene	90	95	70-130	5	25
1,1-Dichloropropene	102	102	70-130	0	25
Bromoform	88	99	70-130	12	50
1,1,2,2-Tetrachloroethane	94	104	70-130	10	25
Benzene	102	101	70-130	1	25
Toluene	105	104	70-130	1	25
Ethylbenzene	108	108	70-130	0	25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Lab Number:** L0712366

**Project Number:** 0051545

**Report Date:** 08/28/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 01 Batch: WG292073-1 WG292073-2					
Chloromethane	83	82	70-130	1	50
Bromomethane	106	108	70-130	2	50
Vinyl chloride	89	90	70-130	1	25
Chloroethane	115	114	70-130	1	25
1,1-Dichloroethene	102	100	70-130	2	25
trans-1,2-Dichloroethene	104	104	70-130	0	25
Trichloroethene	103	102	70-130	1	25
1,2-Dichlorobenzene	104	108	70-130	4	25
1,3-Dichlorobenzene	107	108	70-130	1	25
1,4-Dichlorobenzene	103	108	70-130	5	25
Methyl tert butyl ether	82	88	70-130	7	25
p/m-Xylene	110	109	70-130	1	25
o-Xylene	108	108	70-130	0	25
cis-1,2-Dichloroethene	107	105	70-130	2	25
Dibromomethane	101	103	70-130	2	25
1,2,3-Trichloropropane	102	112	70-130	9	25
Styrene	105	105	70-130	0	25
Dichlorodifluoromethane	53	51	70-130	4	50
Acetone	78	79	70-130	1	50
Carbon disulfide	84	83	70-130	1	25
2-Butanone	79	89	70-130	12	50



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Lab Number:** L0712366

**Project Number:** 0051545

**Report Date:** 08/28/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 01 Batch: WG292073-1 WG292073-2					
4-Methyl-2-pentanone	92	100	70-130	8	50
2-Hexanone	86	95	70-130	10	50
Bromochloromethane	99	99	70-130	0	25
Tetrahydrofuran	81	90	70-130	11	25
2,2-Dichloropropane	63	79	70-130	23	50
1,2-Dibromoethane	106	109	70-130	3	25
1,3-Dichloropropane	108	109	70-130	1	25
1,1,1,2-Tetrachloroethane	103	106	70-130	3	25
Bromobenzene	107	112	70-130	5	25
n-Butylbenzene	84	86	70-130	2	25
sec-Butylbenzene	111	113	70-130	2	25
tert-Butylbenzene	108	113	70-130	5	25
o-Chlorotoluene	104	107	70-130	3	25
p-Chlorotoluene	105	108	70-130	3	25
1,2-Dibromo-3-chloropropane	82	91	70-130	10	50
Hexachlorobutadiene	104	105	70-130	1	25
Isopropylbenzene	116	121	70-130	4	25
p-Isopropyltoluene	115	116	70-130	1	25
Naphthalene	100	107	70-130	7	25
n-Propylbenzene	106	109	70-130	3	25
1,2,3-Trichlorobenzene	102	110	70-130	8	25

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Lab Number:** L0712366

**Project Number:** 0051545

**Report Date:** 08/28/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 01 Batch: WG292073-1 WG292073-2					
1,2,4-Trichlorobenzene	102	107	70-130	5	25
1,3,5-Trimethylbenzene	104	108	70-130	4	25
1,2,4-Trimethylbenzene	108	109	70-130	1	25
Ethyl ether	108	112	70-130	4	25
Isopropyl Ether	99	99	70-130	0	25
Ethyl-Tert-Butyl-Ether	88	94	70-130	7	25
Tertiary-Amyl Methyl Ether	89	95	70-130	7	25
1,4-Dioxane	88	96	70-130	9	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88	89	70-130
Toluene-d8	99	98	70-130
4-Bromofluorobenzene	95	99	70-130
Dibromofluoromethane	94	95	70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712366

**Report Date:** 08/28/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 02 Batch: WG292074-1 WG292074-2					
Methylene chloride	90	88	70-130	2	25
1,1-Dichloroethane	99	100	70-130	1	25
Chloroform	101	102	70-130	1	25
Carbon tetrachloride	94	100	70-130	6	25
1,2-Dichloropropane	102	103	70-130	1	25
Dibromochloromethane	93	98	70-130	5	25
1,1,2-Trichloroethane	102	105	70-130	3	25
Tetrachloroethene	114	112	70-130	2	25
Chlorobenzene	105	105	70-130	0	25
Trichlorofluoromethane	99	97	70-130	2	25
1,2-Dichloroethane	97	100	70-130	3	25
1,1,1-Trichloroethane	99	100	70-130	1	25
Bromodichloromethane	97	101	70-130	4	25
trans-1,3-Dichloropropene	90	96	70-130	6	25
cis-1,3-Dichloropropene	90	95	70-130	5	25
1,1-Dichloropropene	102	102	70-130	0	25
Bromoform	88	99	70-130	12	50
1,1,2,2-Tetrachloroethane	94	104	70-130	10	25
Benzene	102	101	70-130	1	25
Toluene	105	104	70-130	1	25
Ethylbenzene	108	108	70-130	0	25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Lab Number:** L0712366

**Project Number:** 0051545

**Report Date:** 08/28/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 02 Batch: WG292074-1 WG292074-2					
Chloromethane	83	82	70-130	1	50
Bromomethane	106	108	70-130	2	50
Vinyl chloride	89	90	70-130	1	25
Chloroethane	115	114	70-130	1	25
1,1-Dichloroethene	102	100	70-130	2	25
trans-1,2-Dichloroethene	104	104	70-130	0	25
Trichloroethene	103	102	70-130	1	25
1,2-Dichlorobenzene	104	108	70-130	4	25
1,3-Dichlorobenzene	107	108	70-130	1	25
1,4-Dichlorobenzene	103	108	70-130	5	25
Methyl tert butyl ether	82	88	70-130	7	25
p/m-Xylene	110	109	70-130	1	25
o-Xylene	108	108	70-130	0	25
cis-1,2-Dichloroethene	107	105	70-130	2	25
Dibromomethane	101	103	70-130	2	25
1,2,3-Trichloropropane	102	112	70-130	9	25
Styrene	105	105	70-130	0	25
Dichlorodifluoromethane	53	51	70-130	4	50
Acetone	78	79	70-130	1	50
Carbon disulfide	84	83	70-130	1	25
2-Butanone	79	89	70-130	12	50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Lab Number:** L0712366

**Project Number:** 0051545

**Report Date:** 08/28/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 02 Batch: WG292074-1 WG292074-2					
4-Methyl-2-pentanone	92	100	70-130	8	50
2-Hexanone	86	95	70-130	10	50
Bromochloromethane	99	99	70-130	0	25
Tetrahydrofuran	81	90	70-130	11	25
2,2-Dichloropropane	63	79	70-130	23	50
1,2-Dibromoethane	106	109	70-130	3	25
1,3-Dichloropropane	108	109	70-130	1	25
1,1,1,2-Tetrachloroethane	103	106	70-130	3	25
Bromobenzene	107	112	70-130	5	25
n-Butylbenzene	84	86	70-130	2	25
sec-Butylbenzene	111	113	70-130	2	25
tert-Butylbenzene	108	113	70-130	5	25
o-Chlorotoluene	104	107	70-130	3	25
p-Chlorotoluene	105	108	70-130	3	25
1,2-Dibromo-3-chloropropane	82	91	70-130	10	50
Hexachlorobutadiene	104	105	70-130	1	25
Isopropylbenzene	116	121	70-130	4	25
p-Isopropyltoluene	115	116	70-130	1	25
Naphthalene	100	107	70-130	7	25
n-Propylbenzene	106	109	70-130	3	25
1,2,3-Trichlorobenzene	102	110	70-130	8	25

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Lab Number:** L0712366

**Project Number:** 0051545

**Report Date:** 08/28/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 02 Batch: WG292074-1 WG292074-2					
1,2,4-Trichlorobenzene	102	107	70-130	5	25
1,3,5-Trimethylbenzene	104	108	70-130	4	25
1,2,4-Trimethylbenzene	108	109	70-130	1	25
Ethyl ether	108	112	70-130	4	25
Isopropyl Ether	99	99	70-130	0	25
Ethyl-Tert-Butyl-Ether	88	94	70-130	7	25
Tertiary-Amyl Methyl Ether	89	95	70-130	7	25
1,4-Dioxane	88	96	70-130	9	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		89		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	95		99		70-130
Dibromofluoromethane	94		95		70-130

# **INORGANICS & MISCELLANEOUS**

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712366  
**Report Date:** 08/28/07

### SAMPLE RESULTS

**Lab ID:** L0712366-01  
**Client ID:** EL-CD23-2-20070827-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/27/07 12:10  
**Date Received:** 08/27/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	79		%	0.10	1	-	08/27/07 17:00	30,2540G	AT





Project Name: NA SOIL EXCAVATION

Lab Number: L0712366

Project Number: 0051545

Report Date: 08/28/07

## SAMPLE RESULTS

Lab ID: L0712366-02  
 Client ID: EL-DE1-2-20070827-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil

Date Collected: 08/27/07 12:12  
 Date Received: 08/27/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	76		%	0.10	1	-	08/27/07 17:00	30,2540G	AT



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712366

**Report Date:** 08/28/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Associated sample(s): 01-02 QC Batch ID: WG291982-1 QC Sample: L0712366-01 Client ID: EL-CD23-2-20070827-01					
Solids, Total	79	79	%	0	20

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712366**Project Number:** 0051545**Report Date:** 08/28/07**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information**

Cooler	Custody Seal
A	Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0712366-01A	Vial MeOH preserved	A	NA	2C	Y	Absent	MCP-8260LW-04
L0712366-01B	Vial water preserved	A	NA	2C	Y	Absent	MCP-8260LW-04
L0712366-01C	Plastic 2oz unpreserved for TS	A	NA	2C	Y	Absent	TS
L0712366-02A	Vial MeOH preserved	A	NA	2C	Y	Absent	MCP-8260H-04
L0712366-02B	Vial water preserved	A	NA	2C	Y	Absent	MCP-8260H-04
L0712366-02C	Plastic 2oz unpreserved for TS	A	NA	2C	Y	Absent	TS

**Container Comments**

L0712366-01A	Temp Probe
L0712366-01B	Temp Probe
L0712366-01C	Temp Probe
L0712366-02A	Temp Probe
L0712366-02B	Temp Probe
L0712366-02C	Temp Probe

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712366  
**Report Date:** 08/28/07

## GLOSSARY

### Acronyms

- EPA - Environmental Protection Agency.  
 LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.  
 LCSD- Laboratory Control Sample Duplicate: Refer to LCS.  
 MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.  
 MSD - Matrix Spike Sample Duplicate: Refer to MS.  
 NA - Not Applicable.  
 NI - Not Ignitable.  
 NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.  
 ND - Not detected at the reported detection limit for the sample.  
 RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.  
 RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

### Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712366  
**Report Date:** 08/28/07

## REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

## LIMITATION OF LIABILITIES

Alpha Woods Hole Labs performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.





# CHAIN OF CUSTODY

PAGE 1 OF 1Date Rec'd in Lab: 8/27/07ALPHA Job #: L0712366

WESTBORO, MA RAYNHAM, MA  
 TEL: 508-898-9220 TEL: 508-822-9330  
 FAX: 508-898-9193 FAX: 508-822-3238

**Project Information**

Project Name: MA Soil Excavation  
 Project Location: Raytheon Wayland  
 Project #: 0051545  
 Project Manager: Jason Flattery  
 ALPHA Quote #:

**Report Information - Data Deliverables**

FAX  EMAIL  
 ADEX  Add'l Deliverables

**Billing Information**

Same as Client info PO #:

**Client Information**

Client: ERM - Boston  
 Address: 399 Baylston St. 6<sup>th</sup> Floor  
Boston, MA 02116  
 Phone: 617 646 7800  
 Fax: 617 267 6447  
 Email: jason.flattery@erm.com

**Turn-Around Time**

Standard  RUSH (only confirmed if pre-approved!)

Date Due: 24 HR Time:  
8/28/07

**Regulatory Requirements/Report Limits**

State /Fed Program Criteria  
MA MCP 82/GWI

**MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS**

Yes  No Are MCP Analytical Methods Required?  
 Yes  No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

**ANALYSIS**  
 VOC B260 (Low)  
 VOC B260 (High)  
 Total Solids

**SAMPLE HANDLING**  
 Filtration  
 Done  
 Not needed  
 Lab to do  
 Preservation  
 Lab to do  
 (Please specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS			Sample Specific Comments
		Date	Time			VOC B260 (Low)	VOC B260 (High)	Total Solids	
<del>12366-01</del>	EL-CD23-2-20070827-01	8/27/07	12:10	GW	JDF	1	1	1	
	02 EL-DE1-2-20070827-01	8/27/07	12:12	GW	JDF	1	1	1	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT  
 MA MCP or CT RCP?

Container Type	V	V	P
Preservative	H <sub>2</sub> O	F	A

Relinquished By: [Signature] Date/Time: 8/27/07 12:52  
 Received By: [Signature] Date/Time: 8/27/07 13:45

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

08280714:54

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220 www.alphalab.com  
MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

**Client:** ERM-New England **Laboratory Job Number:** L0712074  
**Address:** 399 Boylston Street  
6th Floor **Date Received:** 21-AUG-2007  
Boston, MA 02116 **Date Reported:** 28-AUG-2007  
**Attn:** Mr. Jason Flattery **Delivery Method:** Alpha  
**Project Number:** 0051545  
**Site:** NA SOIL EXCAVATION

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ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0712074-01	SP-H1-20070820-01	RAYTHEON WAYLAND
L0712074-02	SP-H2-20070820-01	RAYTHEON WAYLAND
L0712074-03	SP-H3-20070820-01	RAYTHEON WAYLAND
L0712074-04	SP-H4-20070820-01	RAYTHEON WAYLAND

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

---

Authorized by: Michelle M. Morris  
Technical Representative

ALPHA ANALYTICAL LABORATORIES  
NARRATIVE REPORT

Laboratory Job Number: L0712074

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The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Metals

The WG291607 MS% recovery for TCLP Silver is below the acceptance criteria for the method. A post analytical spike was performed with an acceptable recovery of 97%.

TCLP Semi-Volatile Organics-ABN

The WG291779 MS/MSD RPD for Pyridine is above method acceptance criteria.



ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0712074-01 Date Collected: 20-AUG-2007 14:00  
SP-H1-20070820-01 Date Received : 21-AUG-2007  
Sample Matrix: SOIL Date Reported : 28-AUG-2007  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 3-Amber,1-Vial,1-sAmber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	76	%	0.10	30 2540G		0822 16:40	NM
pH	6.6	SU	-	1 9045C		0822 17:45	LR
Cyanide, Reactive	ND	mg/kg	10	1 7.3		0827 18:45	TV
Sulfide, Reactive	ND	mg/kg	10	1 7.3		0827 18:45	TV

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0712074-01  
SP-H1-20070820-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Ignitability of Solids				1 1030		0822 19:00	TH
Test Material Information							
Source of Material:				Unknown			
Description of Material:				Non-Metallic - Wet Soil			
Particle Size:				Medium			
Preliminary Burning Time (sec):				120			
Ignitability	NI						
TCLP Metals							
TCLP Extraction				1 1311		0822 16:00	
Arsenic, TCLP	ND	mg/l	1.0	1 6010B		0823 11:00 0824 12:51	AI
Barium, TCLP	ND	mg/l	0.50	1 6010B		0823 11:00 0824 12:51	AI
Cadmium, TCLP	ND	mg/l	0.10	1 6010B		0823 11:00 0824 12:51	AI
Lead, TCLP	ND	mg/l	0.50	1 6010B		0823 11:00 0824 12:51	AI
Mercury, TCLP	ND	mg/l	0.0010	1 7470A		0823 15:15 0824 10:38	DM
Selenium, TCLP	ND	mg/l	0.50	1 6010B		0823 11:00 0824 12:51	AI
Silver, TCLP	ND	mg/l	0.10	1 6010B		0823 11:00 0824 12:51	AI
TCLP Semi-Volatile Organics							
TCLP Extraction				1 1311		0822 16:00	
Hexachlorobenzene	ND	ug/l	25.				
2,4-Dinitrotoluene	ND	ug/l	30.				
Hexachlorobutadiene	ND	ug/l	50.				
Hexachloroethane	ND	ug/l	25.				
Nitrobenzene	ND	ug/l	25.				
2,4,6-Trichlorophenol	ND	ug/l	25.				
Pentachlorophenol	ND	ug/l	50.				
2-Methylphenol	ND	ug/l	30.				
3-Methylphenol/4-Methylphenol	ND	ug/l	30.				
2,4,5-Trichlorophenol	ND	ug/l	25.				
Pyridine	ND	ug/l	250				
Surrogate(s)	Recovery						QC Criteria
2-Fluorophenol	57.0	%					21-120
Phenol-d6	74.0	%					10-120
Nitrobenzene-d5	72.0	%					23-120
2-Fluorobiphenyl	53.0	%					43-120
2,4,6-Tribromophenol	51.0	%					10-120
4-Terphenyl-d14	80.0	%					33-120
TCLP Pesticides by GC							
TCLP Extraction				1 1311		0822 16:00	
Lindane	ND	ug/l	0.100				
Heptachlor	ND	ug/l	0.100				
Heptachlor epoxide	ND	ug/l	0.100				
Endrin	ND	ug/l	0.200				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0712074-01  
 SP-H1-20070820-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
TCLP Pesticides by GC cont'd				1	8082/8081	0824 15:00	0827 21:13 JB
TCLP Extraction				1	1311	0822 16:00	
Methoxychlor	ND	ug/l	1.00				
Toxaphene	ND	ug/l	1.00				
Chlordane	ND	ug/l	1.00				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	56.0	%	30-150				
Decachlorobiphenyl	57.0	%	30-150				
TCLP Herbicides by GC				1	8151A(M)	0824 09:45	0828 05:49 JB
TCLP Extraction				1	1311	0822 16:00	
2,4-D	ND	mg/l	0.03				
2,4,5-TP (Silvex)	ND	mg/l	0.003				
Surrogate(s)	Recovery		QC Criteria				
DCAA	72.0	%					
TCLP PCBs by GC				1	8082	0827 09:50	0827 18:54 SS
TCLP Extraction				1	1311	0822 16:00	
Aroclor 1016	ND	ug/l	2.50				
Aroclor 1221	ND	ug/l	2.50				
Aroclor 1232	ND	ug/l	2.50				
Aroclor 1242	ND	ug/l	2.50				
Aroclor 1248	ND	ug/l	2.50				
Aroclor 1254	ND	ug/l	2.50				
Aroclor 1260	ND	ug/l	2.50				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	57.0	%	30-150				
Decachlorobiphenyl	73.0	%	30-150				
TCLP Volatile Organics				1	8260B		0828 00:11 PD
TCLP Extraction				1	1311	0822 15:01	
Chloroform	ND	ug/l	7.5				
Carbon tetrachloride	ND	ug/l	5.0				
Tetrachloroethene	6.5	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	5.0				
Benzene	ND	ug/l	5.0				
Vinyl chloride	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	5.0				
Trichloroethene	64	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	25.				
2-Butanone	ND	ug/l	50.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	106	%	70-130				
Toluene-d8	101	%	70-130				
4-Bromofluorobenzene	111	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0712074-01  
SP-H1-20070820-01

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
TCLP Volatile Organics cont'd				1 8260B		0828 00:11	PD
TCLP Extraction				1 1311		0822 15:01	
Dibromofluoromethane	102	%	70-130				

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Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0712074-02  
SP-H2-20070820-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Ignitability of Solids				1 1030		0822 19:00	TH
Test Material Information							
Source of Material:	Unknown						
Description of Material:	Non-Metallic - Wet Soil						
Particle Size:	Medium						
Preliminary Burning Time (sec):	120						
Ignitability	NI						
TCLP Metals							
TCLP Extraction				1 1311		0822 16:00	
Arsenic, TCLP	ND	mg/l	1.0	1 6010B	0823 11:00	0824 13:10	AI
Barium, TCLP	ND	mg/l	0.50	1 6010B	0823 11:00	0824 13:10	AI
Cadmium, TCLP	ND	mg/l	0.10	1 6010B	0823 11:00	0824 13:10	AI
Lead, TCLP	ND	mg/l	0.50	1 6010B	0823 11:00	0824 13:10	AI
Mercury, TCLP	ND	mg/l	0.0010	1 7470A	0823 15:15	0824 10:48	DM
Selenium, TCLP	ND	mg/l	0.50	1 6010B	0823 11:00	0824 13:10	AI
Silver, TCLP	ND	mg/l	0.10	1 6010B	0823 11:00	0824 13:10	AI
TCLP Semi-Volatile Organics							
TCLP Extraction				1 1311		0822 16:00	
Hexachlorobenzene	ND	ug/l	25.				
2,4-Dinitrotoluene	ND	ug/l	30.				
Hexachlorobutadiene	ND	ug/l	50.				
Hexachloroethane	ND	ug/l	25.				
Nitrobenzene	ND	ug/l	25.				
2,4,6-Trichlorophenol	ND	ug/l	25.				
Pentachlorophenol	ND	ug/l	50.				
2-Methylphenol	ND	ug/l	30.				
3-Methylphenol/4-Methylphenol	ND	ug/l	30.				
2,4,5-Trichlorophenol	ND	ug/l	25.				
Pyridine	ND	ug/l	250				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	59.0	%	21-120				
Phenol-d6	70.0	%	10-120				
Nitrobenzene-d5	75.0	%	23-120				
2-Fluorobiphenyl	61.0	%	43-120				
2,4,6-Tribromophenol	61.0	%	10-120				
4-Terphenyl-d14	79.0	%	33-120				
TCLP Pesticides by GC							
TCLP Extraction				1 1311		0822 16:00	
Lindane	ND	ug/l	0.100				
Heptachlor	ND	ug/l	0.100				
Heptachlor epoxide	ND	ug/l	0.100				
Endrin	ND	ug/l	0.200				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0712074-02  
SP-H2-20070820-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
TCLP Pesticides by GC cont'd				1	8082/8081	0824 15:00	0827 21:42 JB
TCLP Extraction				1	1311	0822 16:00	
Methoxychlor	ND	ug/l	1.00				
Toxaphene	ND	ug/l	1.00				
Chlordane	ND	ug/l	1.00				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	55.0	%	30-150				
Decachlorobiphenyl	51.0	%	30-150				
TCLP Herbicides by GC				1	8151A(M)	0824 09:45	0828 06:39 JB
TCLP Extraction				1	1311	0822 16:00	
2,4-D	ND	mg/l	0.03				
2,4,5-TP (Silvex)	ND	mg/l	0.003				
Surrogate(s)	Recovery		QC Criteria				
DCAA	67.0	%					
TCLP PCBs by GC				1	8082	0827 09:50	0827 19:22 SS
TCLP Extraction				1	1311	0822 16:00	
Aroclor 1016	ND	ug/l	2.50				
Aroclor 1221	ND	ug/l	2.50				
Aroclor 1232	ND	ug/l	2.50				
Aroclor 1242	ND	ug/l	2.50				
Aroclor 1248	ND	ug/l	2.50				
Aroclor 1254	ND	ug/l	2.50				
Aroclor 1260	ND	ug/l	2.50				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	52.0	%	30-150				
Decachlorobiphenyl	73.0	%	30-150				
TCLP Volatile Organics				1	8260B		0828 00:47 PD
TCLP Extraction				1	1311	0822 15:01	
Chloroform	ND	ug/l	7.5				
Carbon tetrachloride	ND	ug/l	5.0				
Tetrachloroethene	ND	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	5.0				
Benzene	ND	ug/l	5.0				
Vinyl chloride	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	5.0				
Trichloroethene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	25.				
2-Butanone	ND	ug/l	50.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	105	%	70-130				
Toluene-d8	102	%	70-130				
4-Bromofluorobenzene	109	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0712074-02  
SP-H2-20070820-01

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
TCLP Volatile Organics cont'd				1 8260B		0828 00:47	PD
TCLP Extraction				1 1311		0822 15:01	
Dibromofluoromethane	99.0	%	70-130				

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Comments: Complete list of References and Glossary of Terms found in Addendum I





**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0712074-03  
SP-H3-20070820-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Ignitability of Solids				1 1030		0822 19:00	TH
Test Material Information							
Source of Material:	Unknown						
Description of Material:	Non-Metallic - Wet Soil						
Particle Size:	Medium						
Preliminary Burning Time (sec):	120						
Ignitability	NI						
TCLP Metals							
TCLP Extraction				1 1311		0822 16:00	
Arsenic, TCLP	ND	mg/l	1.0	1 6010B	0823 11:00	0824 13:14	AI
Barium, TCLP	ND	mg/l	0.50	1 6010B	0823 11:00	0824 13:14	AI
Cadmium, TCLP	ND	mg/l	0.10	1 6010B	0823 11:00	0824 13:14	AI
Lead, TCLP	ND	mg/l	0.50	1 6010B	0823 11:00	0824 13:14	AI
Mercury, TCLP	ND	mg/l	0.0010	1 7470A	0823 15:15	0824 10:49	DM
Selenium, TCLP	ND	mg/l	0.50	1 6010B	0823 11:00	0824 13:14	AI
Silver, TCLP	ND	mg/l	0.10	1 6010B	0823 11:00	0824 13:14	AI
TCLP Semi-Volatile Organics							
TCLP Extraction				1 1311		0822 16:00	
Hexachlorobenzene	ND	ug/l	25.				
2,4-Dinitrotoluene	ND	ug/l	30.				
Hexachlorobutadiene	ND	ug/l	50.				
Hexachloroethane	ND	ug/l	25.				
Nitrobenzene	ND	ug/l	25.				
2,4,6-Trichlorophenol	ND	ug/l	25.				
Pentachlorophenol	ND	ug/l	50.				
2-Methylphenol	ND	ug/l	30.				
3-Methylphenol/4-Methylphenol	ND	ug/l	30.				
2,4,5-Trichlorophenol	ND	ug/l	25.				
Pyridine	ND	ug/l	250				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	58.0	%		21-120			
Phenol-d6	66.0	%		10-120			
Nitrobenzene-d5	74.0	%		23-120			
2-Fluorobiphenyl	57.0	%		43-120			
2,4,6-Tribromophenol	60.0	%		10-120			
4-Terphenyl-d14	84.0	%		33-120			
TCLP Pesticides by GC							
TCLP Extraction				1 1311		0822 16:00	
Lindane	ND	ug/l	0.100				
Heptachlor	ND	ug/l	0.100				
Heptachlor epoxide	ND	ug/l	0.100				
Endrin	ND	ug/l	0.200				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0712074-03  
 SP-H3-20070820-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
TCLP Pesticides by GC cont'd				1	8082/8081	0824 15:00	0827 22:11 JB
TCLP Extraction				1	1311	0822 16:00	
Methoxychlor	ND	ug/l	1.00				
Toxaphene	ND	ug/l	1.00				
Chlordane	ND	ug/l	1.00				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	41.0	%	30-150				
Decachlorobiphenyl	42.0	%	30-150				
TCLP Herbicides by GC				1	8151A(M)	0824 09:45	0828 07:28 JB
TCLP Extraction				1	1311	0822 16:00	
2,4-D	ND	mg/l	0.03				
2,4,5-TP (Silvex)	ND	mg/l	0.003				
Surrogate(s)	Recovery		QC Criteria				
DCAA	53.0	%					
TCLP PCBs by GC				1	8082	0827 09:50	0827 19:51 SS
TCLP Extraction				1	1311	0822 16:00	
Aroclor 1016	ND	ug/l	2.50				
Aroclor 1221	ND	ug/l	2.50				
Aroclor 1232	ND	ug/l	2.50				
Aroclor 1242	ND	ug/l	2.50				
Aroclor 1248	ND	ug/l	2.50				
Aroclor 1254	ND	ug/l	2.50				
Aroclor 1260	ND	ug/l	2.50				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	64.0	%	30-150				
Decachlorobiphenyl	79.0	%	30-150				
TCLP Volatile Organics				1	8260B		0828 01:22 PD
TCLP Extraction				1	1311	0822 15:01	
Chloroform	ND	ug/l	7.5				
Carbon tetrachloride	ND	ug/l	5.0				
Tetrachloroethene	ND	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	5.0				
Benzene	ND	ug/l	5.0				
Vinyl chloride	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	5.0				
Trichloroethene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	25.				
2-Butanone	ND	ug/l	50.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	108	%	70-130				
Toluene-d8	103	%	70-130				
4-Bromofluorobenzene	111	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0712074-03  
SP-H3-20070820-01

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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
TCLP Volatile Organics cont'd				1 8260B		0828 01:22	PD
TCLP Extraction				1 1311		0822 15:01	
Dibromofluoromethane	99.0	%	70-130				

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Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0712074-04  
SP-H4-20070820-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Ignitability of Solids				1 1030		0822 19:00	TH
Test Material Information							
Source of Material:	Unknown						
Description of Material:	Non-Metallic - Dry Clay						
Particle Size:	Medium						
Preliminary Burning Time (sec):	120						
Ignitability	NI						
TCLP Metals							
TCLP Extraction				1 1311		0822 16:00	
Arsenic, TCLP	ND	mg/l	1.0	1 6010B		0823 11:00 0824 13:17	AI
Barium, TCLP	ND	mg/l	0.50	1 6010B		0823 11:00 0824 13:17	AI
Cadmium, TCLP	ND	mg/l	0.10	1 6010B		0823 11:00 0824 13:17	AI
Lead, TCLP	ND	mg/l	0.50	1 6010B		0823 11:00 0824 13:17	AI
Mercury, TCLP	ND	mg/l	0.0010	1 7470A		0823 15:15 0824 10:51	DM
Selenium, TCLP	ND	mg/l	0.50	1 6010B		0823 11:00 0824 13:17	AI
Silver, TCLP	ND	mg/l	0.10	1 6010B		0823 11:00 0824 13:17	AI
TCLP Semi-Volatile Organics							
TCLP Extraction				1 1311		0822 16:00	
Hexachlorobenzene	ND	ug/l	25.				
2,4-Dinitrotoluene	ND	ug/l	30.				
Hexachlorobutadiene	ND	ug/l	50.				
Hexachloroethane	ND	ug/l	25.				
Nitrobenzene	ND	ug/l	25.				
2,4,6-Trichlorophenol	ND	ug/l	25.				
Pentachlorophenol	ND	ug/l	50.				
2-Methylphenol	ND	ug/l	30.				
3-Methylphenol/4-Methylphenol	ND	ug/l	30.				
2,4,5-Trichlorophenol	ND	ug/l	25.				
Pyridine	ND	ug/l	250				
Surrogate(s)	Recovery					QC Criteria	
2-Fluorophenol	66.0	%				21-120	
Phenol-d6	75.0	%				10-120	
Nitrobenzene-d5	85.0	%				23-120	
2-Fluorobiphenyl	72.0	%				43-120	
2,4,6-Tribromophenol	66.0	%				10-120	
4-Terphenyl-d14	88.0	%				33-120	
TCLP Pesticides by GC							
TCLP Extraction				1 1311		0822 16:00	
Lindane	ND	ug/l	0.100				
Heptachlor	ND	ug/l	0.100				
Heptachlor epoxide	ND	ug/l	0.100				
Endrin	ND	ug/l	0.200				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0712074-04  
 SP-H4-20070820-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
TCLP Pesticides by GC cont'd				1	8082/8081	0824 15:00	0827 22:39 JB
TCLP Extraction				1	1311	0822 16:00	
Methoxychlor	ND	ug/l	1.00				
Toxaphene	ND	ug/l	1.00				
Chlordane	ND	ug/l	1.00				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	51.0	%	30-150				
Decachlorobiphenyl	49.0	%	30-150				
TCLP Herbicides by GC				1	8151A(M)	0824 09:45	0828 08:17 JB
TCLP Extraction				1	1311	0822 16:00	
2,4-D	ND	mg/l	0.03				
2,4,5-TP (Silvex)	ND	mg/l	0.003				
Surrogate(s)	Recovery		QC Criteria				
DCAA	54.0	%					
TCLP PCBs by GC				1	8082	0827 09:50	0827 20:19 SS
TCLP Extraction				1	1311	0822 16:00	
Aroclor 1016	ND	ug/l	2.50				
Aroclor 1221	ND	ug/l	2.50				
Aroclor 1232	ND	ug/l	2.50				
Aroclor 1242	ND	ug/l	2.50				
Aroclor 1248	ND	ug/l	2.50				
Aroclor 1254	ND	ug/l	2.50				
Aroclor 1260	ND	ug/l	2.50				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	67.0	%	30-150				
Decachlorobiphenyl	70.0	%	30-150				
TCLP Volatile Organics				1	8260B		0828 01:57 PD
TCLP Extraction				1	1311	0822 15:01	
Chloroform	ND	ug/l	7.5				
Carbon tetrachloride	ND	ug/l	5.0				
Tetrachloroethene	ND	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	5.0				
Benzene	ND	ug/l	5.0				
Vinyl chloride	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	5.0				
Trichloroethene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	25.				
2-Butanone	ND	ug/l	50.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	108	%	70-130				
Toluene-d8	103	%	70-130				
4-Bromofluorobenzene	108	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0712074-04  
SP-H4-20070820-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
TCLP Volatile Organics cont'd				1 8260B		0828 01:57	PD
TCLP Extraction				1 1311		0822 15:01	
Dibromofluoromethane	97.0	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I



ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0712074

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Solids, Total for sample(s) 01-04 (L0712021-01, WG291487-1)					
Solids, Total	96	96	%	0	20
pH for sample(s) 01-04 (L0712052-04, WG291518-2)					
pH	6.2	6.2	SU	0	
Cyanide, Reactive for sample(s) 01-04 (L0712085-08, WG291989-3)					
Cyanide, Reactive	ND	ND	mg/kg	NC	40
Sulfide, Reactive for sample(s) 01-04 (L0712085-08, WG291990-3)					
Sulfide, Reactive	ND	ND	mg/kg	NC	40
TCLP Metals for sample(s) 01-04 (L0712074-01, WG291607-1)					
Arsenic, TCLP	ND	ND	mg/l	NC	20
Barium, TCLP	ND	ND	mg/l	NC	20
Cadmium, TCLP	ND	ND	mg/l	NC	20
Lead, TCLP	ND	ND	mg/l	NC	20
Selenium, TCLP	ND	ND	mg/l	NC	20
Silver, TCLP	ND	ND	mg/l	NC	20
TCLP Metals for sample(s) 01-04 (L0712074-01, WG291644-3)					
Mercury, TCLP	ND	ND	mg/l	NC	

**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES**

Laboratory Job Number: L0712074

Parameter	% Recovery	QC Criteria
pH LCS for sample(s) 01-04 (WG291518-1)		
pH	100	
Cyanide, Reactive LCS for sample(s) 01-04 (WG291989-2)		
Cyanide, Reactive	82	30-125
Sulfide, Reactive LCS for sample(s) 01-04 (WG291990-2)		
Sulfide, Reactive	84	60-125
TCLP Metals LCS for sample(s) 01-04 (WG291607-4)		
Arsenic, TCLP	110	75-125
Barium, TCLP	100	75-125
Cadmium, TCLP	110	75-125
Lead, TCLP	100	75-125
Selenium, TCLP	110	75-125
Silver, TCLP	110	75-125
TCLP Metals LCS for sample(s) 01-04 (WG291644-1)		
Mercury, TCLP	106	
TCLP Semi-Volatile Organics LCS for sample(s) 01-04 (WG291779-2)		
Hexachlorobenzene	67	40-140
2,4-Dinitrotoluene	69	24-96
Hexachlorobutadiene	42	10-100
Hexachloroethane	39	13-82
Nitrobenzene	79	40-140
2,4,6-Trichlorophenol	66	30-130
Pentachlorophenol	64	9-103
2-Methylphenol	55	30-130
3-Methylphenol/4-Methylphenol	59	30-130
2,4,5-Trichlorophenol	64	30-130
Pyridine	59	
Surrogate(s)		
2-Fluorophenol	55	21-120
Phenol-d6	66	10-120
Nitrobenzene-d5	68	23-120
2-Fluorobiphenyl	67	43-120
2,4,6-Tribromophenol	62	10-120
4-Terphenyl-d14	81	33-120
TCLP Pesticides by GC LCS for sample(s) 01-04 (WG291799-2)		
Lindane	61	30-150
Heptachlor	53	30-150
Heptachlor epoxide	69	30-150
Endrin	107	30-150
Methoxychlor	90	30-150

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0712074

Continued

Parameter	% Recovery	QC Criteria
TCLP Pesticides by GC LCS for sample(s) 01-04 (WG291799-2)		
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	30	30-150
Decachlorobiphenyl	57	30-150
TCLP Herbicides by GC LCS for sample(s) 01-04 (WG291778-2)		
2,4-D	92	
2,4,5-TP (Silvex)	40	
Surrogate(s)		
DCAA	52	
TCLP PCBs by GC LCS for sample(s) 01-04 (WG291951-2)		
Aroclor 1016	53	40-140
Aroclor 1260	95	40-140
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	48	30-150
Decachlorobiphenyl	80	30-150
TCLP Volatile Organics LCS for sample(s) 01-04 (WG288267-16)		
Chloroform	93	70-130
Carbon tetrachloride	88	70-130
Tetrachloroethene	98	70-130
Chlorobenzene	106	75-130
1,2-Dichloroethane	102	70-130
Benzene	98	76-127
Vinyl chloride	97	70-130
1,1-Dichloroethene	98	61-145
Trichloroethene	97	71-120
1,4-Dichlorobenzene	112	70-130
2-Butanone	123	70-130
Surrogate(s)		
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	103	70-130
Dibromofluoromethane	90	70-130
TCLP Metals SPIKE for sample(s) 01-04 (L0712074-01, WG291607-2)		
Arsenic, TCLP	110	75-125
Barium, TCLP	98	75-125
Cadmium, TCLP	100	75-125
Lead, TCLP	100	75-125
Selenium, TCLP	110	75-125
Silver, TCLP	31	75-125

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0712074

Continued

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Parameter	% Recovery	QC Criteria
TCLP Metals SPIKE for sample(s) 01-04 (L0712074-01, WG291644-2)		
Mercury, TCLP	122	

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**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH MS/MSD ANALYSIS**

Laboratory Job Number: L0712074

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
<b>TCLP Semi-Volatile Organics for sample(s) 01-04 (L0712074-01, WG291779-4)</b>					
Hexachlorobenzene	70	68	3	30	40-140
2,4-Dinitrotoluene	74	68	8	30	24-96
Hexachlorobutadiene	44	36	20	30	10-100
Hexachloroethane	44	34	26	30	13-82
Nitrobenzene	80	78	3	30	40-140
2,4,6-Trichlorophenol	68	64	6	30	30-130
Pentachlorophenol	70	64	9	30	9-103
2-Methylphenol	62	58	7	30	30-130
3-Methylphenol/4-Methylphenol	66	65	2	30	30-130
2,4,5-Trichlorophenol	62	62	0	30	30-130
Pyridine	36	60	50	30	
Surrogate(s)					
2-Fluorophenol	58	57	2		21-120
Phenol-d6	68	68	0		10-120
Nitrobenzene-d5	72	72	0		23-120
2-Fluorobiphenyl	66	63	5		43-120
2,4,6-Tribromophenol	62	60	3		10-120
4-Terphenyl-d14	80	82	2		33-120
<b>TCLP Pesticides by GC for sample(s) 01-04 (L0712074-01, WG291799-4)</b>					
Lindane	62	64	3	30	30-150
Heptachlor	64	63	2	30	30-150
Heptachlor epoxide	68	70	3	30	30-150
Endrin	104	111	7	30	30-150
Methoxychlor	90	101	12	30	30-150
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	45	53	16		30-150
Decachlorobiphenyl	47	54	14		30-150
<b>TCLP Herbicides by GC for sample(s) 01-04 (L0712074-01, WG291778-4)</b>					
2,4-D	100	100	0		
2,4,5-TP (Silvex)	46	44	5		
Surrogate(s)					
DCAA	60	57	5		
<b>TCLP PCBs by GC for sample(s) 01-04 (L0712074-01, WG291951-4)</b>					
Aroclor 1016	69	63	9	30	40-140
Aroclor 1260	100	97	3	30	40-140
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	59	58	2		30-150
Decachlorobiphenyl	69	75	8		30-150

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0712074

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
TCLP Volatile Organics for sample(s) 01-04 (L0710463-01, WG288267-2)					
Chloroform	99	91	8	20	70-130
Carbon tetrachloride	103	94	9	20	70-130
Tetrachloroethene	98	89	10	20	70-130
Chlorobenzene	93	86	8	20	75-130
1,2-Dichloroethane	105	100	5	20	70-130
Benzene	94	88	7	20	76-127
Vinyl chloride	89	81	9	20	70-130
1,1-Dichloroethene	92	85	8	20	61-145
Trichloroethene	91	85	7	20	71-120
1,4-Dichlorobenzene	92	86	7	20	70-130
2-Butanone	92	96	4	20	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	116	114	2		70-130
Toluene-d8	100	99	1		70-130
4-Bromofluorobenzene	100	98	2		70-130
Dibromofluoromethane	118	115	3		70-130

**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0712074

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-04 (WG291989-1)							
Cyanide, Reactive	ND	mg/kg	10	1 7.3		0827 18:45	TV
Blank Analysis for sample(s) 01-04 (WG291990-1)							
Sulfide, Reactive	ND	mg/kg	10.	1 7.3		0827 18:45	TV
Blank Analysis for sample(s) 01-04 (WG291607-3)							
TCLP Metals							
TCLP Extraction				1 1311		0822 16:00	
Arsenic, TCLP	ND	mg/l	1.0	1 6010B	0823 11:00	0824 12:42	AI
Barium, TCLP	ND	mg/l	0.50	1 6010B	0823 11:00	0824 12:42	AI
Cadmium, TCLP	ND	mg/l	0.10	1 6010B	0823 11:00	0824 12:42	AI
Lead, TCLP	ND	mg/l	0.50	1 6010B	0823 11:00	0824 12:42	AI
Selenium, TCLP	ND	mg/l	0.50	1 6010B	0823 11:00	0824 12:42	AI
Silver, TCLP	ND	mg/l	0.10	1 6010B	0823 11:00	0824 12:42	AI
Blank Analysis for sample(s) 01-04 (WG291644-4)							
TCLP Metals							
TCLP Extraction				1 1311		0822 16:00	
Mercury, TCLP	ND	mg/l	0.0010	1 7470A	0823 15:15	0824 10:35	DM
Blank Analysis for sample(s) 01-04 (WG291779-1)							
TCLP Semi-Volatile Organics							
TCLP Extraction				1 1311		0822 16:00	
Hexachlorobenzene	ND	ug/l	25.				
2,4-Dinitrotoluene	ND	ug/l	30.				
Hexachlorobutadiene	ND	ug/l	50.				
Hexachloroethane	ND	ug/l	25.				
Nitrobenzene	ND	ug/l	25.				
2,4,6-Trichlorophenol	ND	ug/l	25.				
Pentachlorophenol	ND	ug/l	50.				
2-Methylphenol	ND	ug/l	30.				
3-Methylphenol/4-Methylphenol	ND	ug/l	30.				
2,4,5-Trichlorophenol	ND	ug/l	25.				
Pyridine	ND	ug/l	250				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	62.0	%	21-120				
Phenol-d6	72.0	%	10-120				
Nitrobenzene-d5	76.0	%	23-120				
2-Fluorobiphenyl	64.0	%	43-120				
2,4,6-Tribromophenol	64.0	%	10-120				
4-Terphenyl-d14	86.0	%	33-120				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0712074

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-04 (WG291799-1)							
TCLP Pesticides by GC				1 8082/8081	0824 15:00	0827 19:18	JB
TCLP Extraction				1 1311	0822 16:00		
Lindane	ND	ug/l	0.100				
Heptachlor	ND	ug/l	0.100				
Heptachlor epoxide	ND	ug/l	0.100				
Endrin	ND	ug/l	0.200				
Methoxychlor	ND	ug/l	1.00				
Toxaphene	ND	ug/l	1.00				
Chlordane	ND	ug/l	1.00				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	43.0	%	30-150				
Decachlorobiphenyl	53.0	%	30-150				
Blank Analysis for sample(s) 01-04 (WG291778-1)							
TCLP Herbicides by GC				1 8151A(M)	0824 09:45	0828 02:32	JB
TCLP Extraction				1 1311	0822 16:00		
2,4-D	ND	mg/l	0.03				
2,4,5-TP (Silvex)	ND	mg/l	0.003				
Surrogate(s)	Recovery						QC Criteria
DCAA	56.0	%					
Blank Analysis for sample(s) 01-04 (WG291951-1)							
TCLP PCBs by GC				1 8082	0827 09:50	0827 16:59	SS
TCLP Extraction				1 1311	0822 16:00		
Aroclor 1016	ND	ug/l	2.50				
Aroclor 1221	ND	ug/l	2.50				
Aroclor 1232	ND	ug/l	2.50				
Aroclor 1242	ND	ug/l	2.50				
Aroclor 1248	ND	ug/l	2.50				
Aroclor 1254	ND	ug/l	2.50				
Aroclor 1260	ND	ug/l	2.50				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	53.0	%	30-150				
Decachlorobiphenyl	76.0	%	30-150				
Blank Analysis for sample(s) 01-04 (WG288267-17)							
TCLP Volatile Organics				1 8260B		0827 23:36	PD
TCLP Extraction				1 1311	0822 15:01		
Chloroform	ND	ug/l	7.5				
Carbon tetrachloride	ND	ug/l	5.0				
Tetrachloroethene	ND	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	5.0				
Benzene	ND	ug/l	5.0				



ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0712074

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-04 (WG288267-17)							
TCLP Volatile Organics cont'd				1	8260B		0827 23:36 PD
TCLP Extraction				1	1311	0822 15:01	
Vinyl chloride	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	5.0				
Trichloroethene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	25.				
2-Butanone	ND	ug/l	50.				
Surrogate(s)	Recovery						QC Criteria
1,2-Dichloroethane-d4	105	%					70-130
Toluene-d8	102	%					70-130
4-Bromofluorobenzene	111	%					70-130
Dibromofluoromethane	100	%					70-130

**ALPHA ANALYTICAL LABORATORIES  
ADDENDUM I**

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**REFERENCES**

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

**GLOSSARY OF TERMS AND SYMBOLS**

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

**LIMITATION OF LIABILITIES**

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.



# CHAIN OF CUSTODY

PAGE 1 OF 1Date Rec'd in Lab: 8/21ALPHA Job #: L0712074  
L0712052WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193  
RAYNHAM, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

### Project Information

Project Name: NA Soil Excavation  
Project Location: Raytheon-Wayland  
Project #: 0051545  
Project Manager: Jason Flattery  
ALPHA Quote #:

### Report Information - Data Deliverables

 FAX  EMAIL  
 ADEX  Add'l Deliverables

### Billing Information

 Same as Client info PO #:

### Client Information

Client: ERM-Boston  
Address: 399 Baylston St. 6<sup>th</sup> Floor  
Boston, MA 02116  
Phone: 617 646 7800  
Fax: 617 267 6447  
Email: jason.flattery@erm.com  
 These samples have been previously analyzed by Alpha

### Turn-Around Time

 Standard  RUSH (only confirmed if pre-approved!)  
3 days on non-TCLP VOCs  
Date Due: PER DOCUMENT Time:

### Regulatory Requirements/Report Limits

State/Fed Program: MCP Criteria: SP + GW1

### MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

 Yes  No Are MCP Analytical Methods Required?  
 Yes  No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS	SAMPLE HANDLING							TOTAL # BOTTLES
	TCLP VOA	PH react. flush	VOCs (High)	VOCs (Low)	Total Solids	Filtration	Preservation	
TCLP VOA						<input type="checkbox"/> Done	<input checked="" type="checkbox"/> Not needed	7
PH react. flush						<input type="checkbox"/> Lab to do	<input type="checkbox"/> Lab to do	
VOCs (High)						(Please specify below)		
VOCs (Low)								
Total Solids								

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS							Sample Specific Comments	TOTAL # BOTTLES	
		Date	Time			TCLP VOA	PH react. flush	VOCs (High)	VOCs (Low)	Total Solids	Filtration	Preservation			
<u>12052</u>	<u>1 SP-H1-20070820-01</u>	<u>8/20/07</u>	<u>14:00</u>	<u>S</u>	<u>JDF</u>										7
<u>12074</u>	<u>2 SP-H2-20070820-01</u>		<u>14:05</u>	<u>S</u>											7
	<u>3 SP-H3-20070820-01</u>		<u>14:10</u>	<u>S</u>											7
	<u>4 SP-H4-20070820-01</u>		<u>14:15</u>	<u>S</u>											7
	<u>5 DUP-001-20070820-01</u>	<u>✓</u>	<u>24:00</u>	<u>S</u>	<u>↓</u>										3

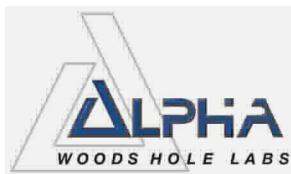
PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type	<u>A A A A V V P</u>
Preservative	<u>A A A A F H<sub>2</sub>O A</u>

Relinquished By:	Date/Time	Received By:	Date/Time
<u>[Signature]</u>	<u>8/21/07 10:45</u>	<u>[Signature]</u>	<u>8/21 10:45</u>
	<u>8/21/07 12:20</u>	<u>[Signature]</u>	<u>8/21/07 12:20</u>

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.



## ANALYTICAL REPORT

Lab Number:	L0712072
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	NA SOIL EXCAVATION
Project Number:	0051545
Report Date:	08/24/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712072  
**Report Date:** 08/24/07

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>
L0712072-01	SP-H1-20070820-01	RAYTHEON WAYLAND
L0712072-02	SP-H2-20070820-01	RAYTHEON WAYLAND
L0712072-03	SP-H3-20070820-01	RAYTHEON WAYLAND
L0712072-04	SP-H4-20070820-01	RAYTHEON WAYLAND
L0712072-05	DUP-001-20070820-01	RAYTHEON WAYLAND

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712072  
**Report Date:** 08/24/07

### MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

<b>An affirmative response to questions A, B, C &amp; D is required for "Presumptive Certainty" status</b>		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A
<b>A response to questions E and F is required for "Presumptive Certainty" status</b>		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	YES
<b>For any questions answered "No", please refer to the case narrative section on the following page(s).</b>		

Please note that sample matrix information is located in the Sample Results section of this report.



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712072  
**Report Date:** 08/24/07

### Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

#### Report Submission

This report includes the results for Volatile Organics by MCP 8260B only, the results for all other analysis requested on the Chain of Custody will be reported under separate cover.

#### MCP Related Narratives

##### Volatile Organics

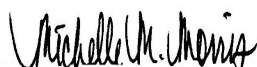
L0712072-01 through -05 were processed against a calibration curve that utilized a quadratic fit for 2,2-Dichloropropane.

In reference to question E:

The WG291724-1/2 and WG291764-1/2 LCS/LCSD % recoveries for Trichlorofluoromethane are above the individual acceptance criteria for the compound, but within the overall method allowances. All associated samples are non-detect for this compound.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Title: Technical Director/Representative

Date: 08/24/07

# ORGANICS



# VOLATILES

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712072**Project Number:** 0051545**Report Date:** 08/24/07**SAMPLE RESULTS**

**Lab ID:** L0712072-01  
**Client ID:** SP-H1-20070820-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/24/07 00:18  
**Analyst:** SE  
**Percent Solids:** 76%

**Date Collected:** 08/20/07 14:00  
**Date Received:** 08/21/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Methylene chloride	ND		ug/kg	840	1
1,1-Dichloroethane	ND		ug/kg	120	1
Chloroform	ND		ug/kg	120	1
Carbon tetrachloride	ND		ug/kg	84	1
1,2-Dichloropropane	ND		ug/kg	290	1
Dibromochloromethane	ND		ug/kg	84	1
1,1,2-Trichloroethane	ND		ug/kg	120	1
Tetrachloroethene	190		ug/kg	84	1
Chlorobenzene	ND		ug/kg	84	1
Trichlorofluoromethane	ND		ug/kg	420	1
1,2-Dichloroethane	ND		ug/kg	84	1
1,1,1-Trichloroethane	ND		ug/kg	84	1
Bromodichloromethane	ND		ug/kg	84	1
trans-1,3-Dichloropropene	ND		ug/kg	84	1
cis-1,3-Dichloropropene	ND		ug/kg	84	1
1,1-Dichloropropene	ND		ug/kg	420	1
Bromoform	ND		ug/kg	340	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	84	1
Benzene	ND		ug/kg	84	1
Toluene	ND		ug/kg	120	1
Ethylbenzene	ND		ug/kg	84	1
Chloromethane	ND		ug/kg	420	1
Bromomethane	ND		ug/kg	170	1
Vinyl chloride	ND		ug/kg	170	1
Chloroethane	ND		ug/kg	170	1
1,1-Dichloroethene	ND		ug/kg	84	1
trans-1,2-Dichloroethene	ND		ug/kg	120	1
Trichloroethene	1500		ug/kg	84	1
1,2-Dichlorobenzene	ND		ug/kg	420	1
1,3-Dichlorobenzene	ND		ug/kg	420	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712072**Project Number:** 0051545**Report Date:** 08/24/07**SAMPLE RESULTS**

Lab ID: L0712072-01  
 Client ID: SP-H1-20070820-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/20/07 14:00  
 Date Received: 08/21/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
1,4-Dichlorobenzene	ND		ug/kg	420	1
Methyl tert butyl ether	ND		ug/kg	170	1
p/m-Xylene	ND		ug/kg	170	1
o-Xylene	ND		ug/kg	170	1
cis-1,2-Dichloroethene	160		ug/kg	84	1
Dibromomethane	ND		ug/kg	840	1
1,2,3-Trichloropropane	ND		ug/kg	840	1
Styrene	ND		ug/kg	170	1
Dichlorodifluoromethane	ND		ug/kg	840	1
Acetone	ND		ug/kg	840	1
Carbon disulfide	ND		ug/kg	4200	1
2-Butanone	ND		ug/kg	840	1
4-Methyl-2-pentanone	ND		ug/kg	840	1
2-Hexanone	ND		ug/kg	840	1
Bromochloromethane	ND		ug/kg	420	1
Tetrahydrofuran	ND		ug/kg	1700	1
2,2-Dichloropropane	ND		ug/kg	420	1
1,2-Dibromoethane	ND		ug/kg	340	1
1,3-Dichloropropane	ND		ug/kg	420	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	84	1
Bromobenzene	ND		ug/kg	420	1
n-Butylbenzene	ND		ug/kg	84	1
sec-Butylbenzene	ND		ug/kg	84	1
tert-Butylbenzene	ND		ug/kg	420	1
o-Chlorotoluene	ND		ug/kg	420	1
p-Chlorotoluene	ND		ug/kg	420	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	420	1
Hexachlorobutadiene	ND		ug/kg	420	1
Isopropylbenzene	ND		ug/kg	84	1
p-Isopropyltoluene	ND		ug/kg	84	1
Naphthalene	ND		ug/kg	420	1
n-Propylbenzene	ND		ug/kg	84	1
1,2,3-Trichlorobenzene	ND		ug/kg	420	1
1,2,4-Trichlorobenzene	ND		ug/kg	420	1
1,3,5-Trimethylbenzene	ND		ug/kg	420	1
1,2,4-Trimethylbenzene	ND		ug/kg	420	1
Ethyl ether	ND		ug/kg	420	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712072**Project Number:** 0051545**Report Date:** 08/24/07**SAMPLE RESULTS**

Lab ID: L0712072-01  
 Client ID: SP-H1-20070820-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/20/07 14:00  
 Date Received: 08/21/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Isopropyl Ether	ND		ug/kg	340	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	340	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	340	1
1,4-Dioxane	ND		ug/kg	42000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	95		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712072**Project Number:** 0051545**Report Date:** 08/24/07**SAMPLE RESULTS**

**Lab ID:** L0712072-02  
**Client ID:** SP-H2-20070820-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Analytical Method:** 60,8260B  
**Analytical Date:** 08/24/07 00:53  
**Analyst:** SE  
**Percent Solids:** 76%

**Date Collected:** 08/20/07 14:05  
**Date Received:** 08/21/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	12	1
1,1-Dichloroethane	ND		ug/kg	1.9	1
Chloroform	ND		ug/kg	1.9	1
Carbon tetrachloride	ND		ug/kg	1.2	1
1,2-Dichloropropane	ND		ug/kg	4.3	1
Dibromochloromethane	ND		ug/kg	1.2	1
1,1,1-Trichloroethane	ND		ug/kg	1.9	1
Tetrachloroethene	210		ug/kg	1.2	1
Chlorobenzene	ND		ug/kg	1.2	1
Trichlorofluoromethane	ND		ug/kg	6.2	1
1,2-Dichloroethane	ND		ug/kg	1.2	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	1
Bromodichloromethane	ND		ug/kg	1.2	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	1
1,1-Dichloropropene	ND		ug/kg	6.2	1
Bromoform	ND		ug/kg	5.0	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	1
Benzene	ND		ug/kg	1.2	1
Toluene	ND		ug/kg	1.9	1
Ethylbenzene	ND		ug/kg	1.2	1
Chloromethane	ND		ug/kg	6.2	1
Bromomethane	ND		ug/kg	2.5	1
Vinyl chloride	ND		ug/kg	2.5	1
Chloroethane	ND		ug/kg	2.5	1
1,1-Dichloroethene	ND		ug/kg	1.2	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	1
Trichloroethene	250		ug/kg	1.2	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	1
1,3-Dichlorobenzene	ND		ug/kg	6.2	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712072**Project Number:** 0051545**Report Date:** 08/24/07**SAMPLE RESULTS**

Lab ID: L0712072-02  
 Client ID: SP-H2-20070820-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/20/07 14:05  
 Date Received: 08/21/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	6.2	1
Methyl tert butyl ether	ND		ug/kg	2.5	1
p/m-Xylene	ND		ug/kg	2.5	1
o-Xylene	ND		ug/kg	2.5	1
cis-1,2-Dichloroethene	41		ug/kg	1.2	1
Dibromomethane	ND		ug/kg	12	1
1,2,3-Trichloropropane	ND		ug/kg	12	1
Styrene	ND		ug/kg	2.5	1
Dichlorodifluoromethane	ND		ug/kg	12	1
Acetone	ND		ug/kg	12	1
Carbon disulfide	ND		ug/kg	62	1
2-Butanone	ND		ug/kg	12	1
4-Methyl-2-pentanone	ND		ug/kg	12	1
2-Hexanone	ND		ug/kg	12	1
Bromochloromethane	ND		ug/kg	6.2	1
Tetrahydrofuran	ND		ug/kg	25	1
2,2-Dichloropropane	ND		ug/kg	6.2	1
1,2-Dibromoethane	ND		ug/kg	5.0	1
1,3-Dichloropropane	ND		ug/kg	6.2	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	1
Bromobenzene	ND		ug/kg	6.2	1
n-Butylbenzene	ND		ug/kg	1.2	1
sec-Butylbenzene	ND		ug/kg	1.2	1
tert-Butylbenzene	ND		ug/kg	6.2	1
o-Chlorotoluene	ND		ug/kg	6.2	1
p-Chlorotoluene	ND		ug/kg	6.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	1
Hexachlorobutadiene	ND		ug/kg	6.2	1
Isopropylbenzene	ND		ug/kg	1.2	1
p-Isopropyltoluene	ND		ug/kg	1.2	1
Naphthalene	ND		ug/kg	6.2	1
n-Propylbenzene	ND		ug/kg	1.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	1
Ethyl ether	ND		ug/kg	6.2	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712072**Project Number:** 0051545**Report Date:** 08/24/07**SAMPLE RESULTS**

Lab ID: L0712072-02  
 Client ID: SP-H2-20070820-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/20/07 14:05  
 Date Received: 08/21/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	5.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	5.0	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	5.0	1
1,4-Dioxane	ND		ug/kg	620	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	96		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712072**Project Number:** 0051545**Report Date:** 08/24/07**SAMPLE RESULTS**

Lab ID: L0712072-03  
 Client ID: SP-H3-20070820-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil  
 Analytical Method: 60,8260B  
 Analytical Date: 08/23/07 16:43  
 Analyst: SE  
 Percent Solids: 77%

Date Collected: 08/20/07 14:10  
 Date Received: 08/21/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	8.5	1
1,1-Dichloroethane	ND		ug/kg	1.3	1
Chloroform	ND		ug/kg	1.3	1
Carbon tetrachloride	ND		ug/kg	0.85	1
1,2-Dichloropropane	ND		ug/kg	3.0	1
Dibromochloromethane	ND		ug/kg	0.85	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	1
Tetrachloroethene	7.5		ug/kg	0.85	1
Chlorobenzene	ND		ug/kg	0.85	1
Trichlorofluoromethane	ND		ug/kg	4.3	1
1,2-Dichloroethane	ND		ug/kg	0.85	1
1,1,1-Trichloroethane	ND		ug/kg	0.85	1
Bromodichloromethane	ND		ug/kg	0.85	1
trans-1,3-Dichloropropene	ND		ug/kg	0.85	1
cis-1,3-Dichloropropene	ND		ug/kg	0.85	1
1,1-Dichloropropene	ND		ug/kg	4.3	1
Bromoform	ND		ug/kg	3.4	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.85	1
Benzene	ND		ug/kg	0.85	1
Toluene	ND		ug/kg	1.3	1
Ethylbenzene	ND		ug/kg	0.85	1
Chloromethane	ND		ug/kg	4.3	1
Bromomethane	ND		ug/kg	1.7	1
Vinyl chloride	ND		ug/kg	1.7	1
Chloroethane	ND		ug/kg	1.7	1
1,1-Dichloroethene	ND		ug/kg	0.85	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	1
Trichloroethene	66		ug/kg	0.85	1
1,2-Dichlorobenzene	ND		ug/kg	4.3	1
1,3-Dichlorobenzene	ND		ug/kg	4.3	1



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712072**Project Number:** 0051545**Report Date:** 08/24/07**SAMPLE RESULTS**

Lab ID: L0712072-03  
 Client ID: SP-H3-20070820-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/20/07 14:10  
 Date Received: 08/21/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	4.3	1
Methyl tert butyl ether	ND		ug/kg	1.7	1
p/m-Xylene	ND		ug/kg	1.7	1
o-Xylene	ND		ug/kg	1.7	1
cis-1,2-Dichloroethene	8.9		ug/kg	0.85	1
Dibromomethane	ND		ug/kg	8.5	1
1,2,3-Trichloropropane	ND		ug/kg	8.5	1
Styrene	ND		ug/kg	1.7	1
Dichlorodifluoromethane	ND		ug/kg	8.5	1
Acetone	ND		ug/kg	8.5	1
Carbon disulfide	ND		ug/kg	43	1
2-Butanone	ND		ug/kg	8.5	1
4-Methyl-2-pentanone	ND		ug/kg	8.5	1
2-Hexanone	ND		ug/kg	8.5	1
Bromochloromethane	ND		ug/kg	4.3	1
Tetrahydrofuran	ND		ug/kg	17	1
2,2-Dichloropropane	ND		ug/kg	4.3	1
1,2-Dibromoethane	ND		ug/kg	3.4	1
1,3-Dichloropropane	ND		ug/kg	4.3	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.85	1
Bromobenzene	ND		ug/kg	4.3	1
n-Butylbenzene	ND		ug/kg	0.85	1
sec-Butylbenzene	ND		ug/kg	0.85	1
tert-Butylbenzene	ND		ug/kg	4.3	1
o-Chlorotoluene	ND		ug/kg	4.3	1
p-Chlorotoluene	ND		ug/kg	4.3	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.3	1
Hexachlorobutadiene	ND		ug/kg	4.3	1
Isopropylbenzene	ND		ug/kg	0.85	1
p-Isopropyltoluene	ND		ug/kg	0.85	1
Naphthalene	ND		ug/kg	4.3	1
n-Propylbenzene	ND		ug/kg	0.85	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.3	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.3	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.3	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.3	1
Ethyl ether	ND		ug/kg	4.3	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712072**Project Number:** 0051545**Report Date:** 08/24/07**SAMPLE RESULTS**

Lab ID: L0712072-03  
 Client ID: SP-H3-20070820-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/20/07 14:10  
 Date Received: 08/21/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	3.4	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.4	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.4	1
1,4-Dioxane	ND		ug/kg	430	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	100		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712072**Project Number:** 0051545**Report Date:** 08/24/07**SAMPLE RESULTS**

**Lab ID:** L0712072-04  
**Client ID:** SP-H4-20070820-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/23/07 17:18  
**Analyst:** SE  
**Percent Solids:** 79%

**Date Collected:** 08/20/07 14:15  
**Date Received:** 08/21/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	10	1
1,1-Dichloroethane	ND		ug/kg	1.5	1
Chloroform	ND		ug/kg	1.5	1
Carbon tetrachloride	ND		ug/kg	1.0	1
1,2-Dichloropropane	ND		ug/kg	3.6	1
Dibromochloromethane	ND		ug/kg	1.0	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	1
Tetrachloroethene	3.3		ug/kg	1.0	1
Chlorobenzene	ND		ug/kg	1.0	1
Trichlorofluoromethane	ND		ug/kg	5.1	1
1,2-Dichloroethane	ND		ug/kg	1.0	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	1
Bromodichloromethane	ND		ug/kg	1.0	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	1
1,1-Dichloropropene	ND		ug/kg	5.1	1
Bromoform	ND		ug/kg	4.1	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	1
Benzene	ND		ug/kg	1.0	1
Toluene	ND		ug/kg	1.5	1
Ethylbenzene	ND		ug/kg	1.0	1
Chloromethane	ND		ug/kg	5.1	1
Bromomethane	ND		ug/kg	2.0	1
Vinyl chloride	ND		ug/kg	2.0	1
Chloroethane	ND		ug/kg	2.0	1
1,1-Dichloroethene	ND		ug/kg	1.0	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	1
Trichloroethene	17		ug/kg	1.0	1
1,2-Dichlorobenzene	ND		ug/kg	5.1	1
1,3-Dichlorobenzene	ND		ug/kg	5.1	1

Project Name: NA SOIL EXCAVATION

Lab Number: L0712072

Project Number: 0051545

Report Date: 08/24/07

## SAMPLE RESULTS

Lab ID: L0712072-04  
 Client ID: SP-H4-20070820-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/20/07 14:15  
 Date Received: 08/21/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
1,4-Dichlorobenzene	ND		ug/kg	5.1	1
Methyl tert butyl ether	ND		ug/kg	2.0	1
p/m-Xylene	ND		ug/kg	2.0	1
o-Xylene	ND		ug/kg	2.0	1
cis-1,2-Dichloroethene	2.1		ug/kg	1.0	1
Dibromomethane	ND		ug/kg	10	1
1,2,3-Trichloropropane	ND		ug/kg	10	1
Styrene	ND		ug/kg	2.0	1
Dichlorodifluoromethane	ND		ug/kg	10	1
Acetone	ND		ug/kg	10	1
Carbon disulfide	ND		ug/kg	51	1
2-Butanone	ND		ug/kg	10	1
4-Methyl-2-pentanone	ND		ug/kg	10	1
2-Hexanone	ND		ug/kg	10	1
Bromochloromethane	ND		ug/kg	5.1	1
Tetrahydrofuran	ND		ug/kg	20	1
2,2-Dichloropropane	ND		ug/kg	5.1	1
1,2-Dibromoethane	ND		ug/kg	4.1	1
1,3-Dichloropropane	ND		ug/kg	5.1	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	1
Bromobenzene	ND		ug/kg	5.1	1
n-Butylbenzene	ND		ug/kg	1.0	1
sec-Butylbenzene	ND		ug/kg	1.0	1
tert-Butylbenzene	ND		ug/kg	5.1	1
o-Chlorotoluene	ND		ug/kg	5.1	1
p-Chlorotoluene	ND		ug/kg	5.1	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.1	1
Hexachlorobutadiene	ND		ug/kg	5.1	1
Isopropylbenzene	ND		ug/kg	1.0	1
p-Isopropyltoluene	ND		ug/kg	1.0	1
Naphthalene	ND		ug/kg	5.1	1
n-Propylbenzene	ND		ug/kg	1.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.1	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.1	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.1	1
Ethyl ether	ND		ug/kg	5.1	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712072**Project Number:** 0051545**Report Date:** 08/24/07**SAMPLE RESULTS**

Lab ID: L0712072-04  
 Client ID: SP-H4-20070820-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/20/07 14:15  
 Date Received: 08/21/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.1	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.1	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.1	1
1,4-Dioxane	ND		ug/kg	510	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	105		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712072**Project Number:** 0051545**Report Date:** 08/24/07**SAMPLE RESULTS**

**Lab ID:** L0712072-05  
**Client ID:** DUP-001-20070820-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/23/07 17:53  
**Analyst:** SE  
**Percent Solids:** 73%

**Date Collected:** 08/20/07 00:00  
**Date Received:** 08/21/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	12	1
1,1-Dichloroethane	ND		ug/kg	1.9	1
Chloroform	ND		ug/kg	1.9	1
Carbon tetrachloride	ND		ug/kg	1.2	1
1,2-Dichloropropane	ND		ug/kg	4.4	1
Dibromochloromethane	ND		ug/kg	1.2	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	1
Tetrachloroethene	75		ug/kg	1.2	1
Chlorobenzene	ND		ug/kg	1.2	1
Trichlorofluoromethane	ND		ug/kg	6.2	1
1,2-Dichloroethane	ND		ug/kg	1.2	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	1
Bromodichloromethane	ND		ug/kg	1.2	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	1
1,1-Dichloropropene	ND		ug/kg	6.2	1
Bromoform	ND		ug/kg	5.0	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	1
Benzene	ND		ug/kg	1.2	1
Toluene	ND		ug/kg	1.9	1
Ethylbenzene	ND		ug/kg	1.2	1
Chloromethane	ND		ug/kg	6.2	1
Bromomethane	ND		ug/kg	2.5	1
Vinyl chloride	ND		ug/kg	2.5	1
Chloroethane	ND		ug/kg	2.5	1
1,1-Dichloroethene	ND		ug/kg	1.2	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	1
Trichloroethene	230		ug/kg	1.2	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	1
1,3-Dichlorobenzene	ND		ug/kg	6.2	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712072**Project Number:** 0051545**Report Date:** 08/24/07**SAMPLE RESULTS**

Lab ID: L0712072-05  
 Client ID: DUP-001-20070820-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/20/07 00:00  
 Date Received: 08/21/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	6.2	1
Methyl tert butyl ether	ND		ug/kg	2.5	1
p/m-Xylene	ND		ug/kg	2.5	1
o-Xylene	ND		ug/kg	2.5	1
cis-1,2-Dichloroethene	33		ug/kg	1.2	1
Dibromomethane	ND		ug/kg	12	1
1,2,3-Trichloropropane	ND		ug/kg	12	1
Styrene	ND		ug/kg	2.5	1
Dichlorodifluoromethane	ND		ug/kg	12	1
Acetone	31		ug/kg	12	1
Carbon disulfide	ND		ug/kg	62	1
2-Butanone	ND		ug/kg	12	1
4-Methyl-2-pentanone	ND		ug/kg	12	1
2-Hexanone	ND		ug/kg	12	1
Bromochloromethane	ND		ug/kg	6.2	1
Tetrahydrofuran	ND		ug/kg	25	1
2,2-Dichloropropane	ND		ug/kg	6.2	1
1,2-Dibromoethane	ND		ug/kg	5.0	1
1,3-Dichloropropane	ND		ug/kg	6.2	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	1
Bromobenzene	ND		ug/kg	6.2	1
n-Butylbenzene	ND		ug/kg	1.2	1
sec-Butylbenzene	ND		ug/kg	1.2	1
tert-Butylbenzene	ND		ug/kg	6.2	1
o-Chlorotoluene	ND		ug/kg	6.2	1
p-Chlorotoluene	ND		ug/kg	6.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	1
Hexachlorobutadiene	ND		ug/kg	6.2	1
Isopropylbenzene	ND		ug/kg	1.2	1
p-Isopropyltoluene	ND		ug/kg	1.2	1
Naphthalene	ND		ug/kg	6.2	1
n-Propylbenzene	ND		ug/kg	1.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	1
Ethyl ether	ND		ug/kg	6.2	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712072**Project Number:** 0051545**Report Date:** 08/24/07**SAMPLE RESULTS**

Lab ID: L0712072-05  
 Client ID: DUP-001-20070820-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/20/07 00:00  
 Date Received: 08/21/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	5.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	5.0	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	5.0	1
1,4-Dioxane	ND		ug/kg	620	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	98		70-130



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712072  
**Report Date:** 08/24/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/23/07 15:32  
Analyst: SE

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 02-05 Batch: WG291724-3				
Methylene chloride	ND		ug/kg	10
1,1-Dichloroethane	ND		ug/kg	1.5
Chloroform	ND		ug/kg	1.5
Carbon tetrachloride	ND		ug/kg	1.0
1,2-Dichloropropane	ND		ug/kg	3.5
Dibromochloromethane	ND		ug/kg	1.0
1,1,2-Trichloroethane	ND		ug/kg	1.5
Tetrachloroethene	ND		ug/kg	1.0
Chlorobenzene	ND		ug/kg	1.0
Trichlorofluoromethane	ND		ug/kg	5.0
1,2-Dichloroethane	ND		ug/kg	1.0
1,1,1-Trichloroethane	ND		ug/kg	1.0
Bromodichloromethane	ND		ug/kg	1.0
trans-1,3-Dichloropropene	ND		ug/kg	1.0
cis-1,3-Dichloropropene	ND		ug/kg	1.0
1,1-Dichloropropene	ND		ug/kg	5.0
Bromoform	ND		ug/kg	4.0
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0
Benzene	ND		ug/kg	1.0
Toluene	ND		ug/kg	1.5
Ethylbenzene	ND		ug/kg	1.0
Chloromethane	ND		ug/kg	5.0
Bromomethane	ND		ug/kg	2.0
Vinyl chloride	ND		ug/kg	2.0
Chloroethane	ND		ug/kg	2.0
1,1-Dichloroethene	ND		ug/kg	1.0
trans-1,2-Dichloroethene	ND		ug/kg	1.5
Trichloroethene	ND		ug/kg	1.0
1,2-Dichlorobenzene	ND		ug/kg	5.0
1,3-Dichlorobenzene	ND		ug/kg	5.0
1,4-Dichlorobenzene	ND		ug/kg	5.0

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712072  
**Report Date:** 08/24/07

**Method Blank Analysis  
Batch Quality Control**

**Analytical Method:** 60,8260B  
**Analytical Date:** 08/23/07 15:32  
**Analyst:** SE

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 02-05 Batch: WG291724-3				
Methyl tert butyl ether	ND		ug/kg	2.0
p/m-Xylene	ND		ug/kg	2.0
o-Xylene	ND		ug/kg	2.0
cis-1,2-Dichloroethene	ND		ug/kg	1.0
Dibromomethane	ND		ug/kg	10
1,2,3-Trichloropropane	ND		ug/kg	10
Styrene	ND		ug/kg	2.0
Dichlorodifluoromethane	ND		ug/kg	10
Acetone	ND		ug/kg	10
Carbon disulfide	ND		ug/kg	50
2-Butanone	ND		ug/kg	10
4-Methyl-2-pentanone	ND		ug/kg	10
2-Hexanone	ND		ug/kg	10
Bromochloromethane	ND		ug/kg	5.0
Tetrahydrofuran	ND		ug/kg	20
2,2-Dichloropropane	ND		ug/kg	5.0
1,2-Dibromoethane	ND		ug/kg	4.0
1,3-Dichloropropane	ND		ug/kg	5.0
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0
Bromobenzene	ND		ug/kg	5.0
n-Butylbenzene	ND		ug/kg	1.0
sec-Butylbenzene	ND		ug/kg	1.0
tert-Butylbenzene	ND		ug/kg	5.0
o-Chlorotoluene	ND		ug/kg	5.0
p-Chlorotoluene	ND		ug/kg	5.0
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0
Hexachlorobutadiene	ND		ug/kg	5.0
Isopropylbenzene	ND		ug/kg	1.0
p-Isopropyltoluene	ND		ug/kg	1.0
Naphthalene	ND		ug/kg	5.0
n-Propylbenzene	ND		ug/kg	1.0

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712072  
**Report Date:** 08/24/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/23/07 15:32  
Analyst: SE

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 02-05 Batch: WG291724-3				
1,2,3-Trichlorobenzene	ND		ug/kg	5.0
1,2,4-Trichlorobenzene	ND		ug/kg	5.0
1,3,5-Trimethylbenzene	ND		ug/kg	5.0
1,2,4-Trimethylbenzene	ND		ug/kg	5.0
Ethyl ether	ND		ug/kg	5.0
Isopropyl Ether	ND		ug/kg	4.0
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0
1,4-Dioxane	ND		ug/kg	500

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	105		70-130

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712072  
**Report Date:** 08/24/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/23/07 15:32  
Analyst: SE

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 01 Batch: WG291764-3				
Methylene chloride	ND		ug/kg	500
1,1-Dichloroethane	ND		ug/kg	75
Chloroform	ND		ug/kg	75
Carbon tetrachloride	ND		ug/kg	50
1,2-Dichloropropane	ND		ug/kg	180
Dibromochloromethane	ND		ug/kg	50
1,1,2-Trichloroethane	ND		ug/kg	75
Tetrachloroethene	ND		ug/kg	50
Chlorobenzene	ND		ug/kg	50
Trichlorofluoromethane	ND		ug/kg	250
1,2-Dichloroethane	ND		ug/kg	50
1,1,1-Trichloroethane	ND		ug/kg	50
Bromodichloromethane	ND		ug/kg	50
trans-1,3-Dichloropropene	ND		ug/kg	50
cis-1,3-Dichloropropene	ND		ug/kg	50
1,1-Dichloropropene	ND		ug/kg	250
Bromoform	ND		ug/kg	200
1,1,2,2-Tetrachloroethane	ND		ug/kg	50
Benzene	ND		ug/kg	50
Toluene	ND		ug/kg	75
Ethylbenzene	ND		ug/kg	50
Chloromethane	ND		ug/kg	250
Bromomethane	ND		ug/kg	100
Vinyl chloride	ND		ug/kg	100
Chloroethane	ND		ug/kg	100
1,1-Dichloroethene	ND		ug/kg	50
trans-1,2-Dichloroethene	ND		ug/kg	75
Trichloroethene	ND		ug/kg	50
1,2-Dichlorobenzene	ND		ug/kg	250
1,3-Dichlorobenzene	ND		ug/kg	250
1,4-Dichlorobenzene	ND		ug/kg	250

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712072  
**Report Date:** 08/24/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/23/07 15:32  
Analyst: SE

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 01 Batch: WG291764-3				
Methyl tert butyl ether	ND		ug/kg	100
p/m-Xylene	ND		ug/kg	100
o-Xylene	ND		ug/kg	100
cis-1,2-Dichloroethene	ND		ug/kg	50
Dibromomethane	ND		ug/kg	500
1,2,3-Trichloropropane	ND		ug/kg	500
Styrene	ND		ug/kg	100
Dichlorodifluoromethane	ND		ug/kg	500
Acetone	ND		ug/kg	500
Carbon disulfide	ND		ug/kg	2500
2-Butanone	ND		ug/kg	500
4-Methyl-2-pentanone	ND		ug/kg	500
2-Hexanone	ND		ug/kg	500
Bromochloromethane	ND		ug/kg	250
Tetrahydrofuran	ND		ug/kg	1000
2,2-Dichloropropane	ND		ug/kg	250
1,2-Dibromoethane	ND		ug/kg	200
1,3-Dichloropropane	ND		ug/kg	250
1,1,1,2-Tetrachloroethane	ND		ug/kg	50
Bromobenzene	ND		ug/kg	250
n-Butylbenzene	ND		ug/kg	50
sec-Butylbenzene	ND		ug/kg	50
tert-Butylbenzene	ND		ug/kg	250
o-Chlorotoluene	ND		ug/kg	250
p-Chlorotoluene	ND		ug/kg	250
1,2-Dibromo-3-chloropropane	ND		ug/kg	250
Hexachlorobutadiene	ND		ug/kg	250
Isopropylbenzene	ND		ug/kg	50
p-Isopropyltoluene	ND		ug/kg	50
Naphthalene	ND		ug/kg	250
n-Propylbenzene	ND		ug/kg	50

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712072  
**Report Date:** 08/24/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/23/07 15:32  
Analyst: SE

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 01 Batch: WG291764-3				
1,2,3-Trichlorobenzene	ND		ug/kg	250
1,2,4-Trichlorobenzene	ND		ug/kg	250
1,3,5-Trimethylbenzene	ND		ug/kg	250
1,2,4-Trimethylbenzene	ND		ug/kg	250
Ethyl ether	ND		ug/kg	250
Isopropyl Ether	ND		ug/kg	200
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200
Tertiary-Amyl Methyl Ether	ND		ug/kg	200
1,4-Dioxane	ND		ug/kg	25000

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	104		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712072

**Report Date:** 08/24/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 02-05 Batch: WG291724-1 WG291724-2					
Methylene chloride	86	86	70-130	0	25
1,1-Dichloroethane	103	108	70-130	5	25
Chloroform	112	113	70-130	1	25
Carbon tetrachloride	118	120	70-130	2	25
1,2-Dichloropropane	98	100	70-130	2	25
Dibromochloromethane	112	109	70-130	3	25
1,1,2-Trichloroethane	110	104	70-130	6	25
Tetrachloroethene	104	109	70-130	5	25
Chlorobenzene	102	102	70-130	0	25
Trichlorofluoromethane	132	134	70-130	2	25
1,2-Dichloroethane	125	120	70-130	4	25
1,1,1-Trichloroethane	116	120	70-130	3	25
Bromodichloromethane	116	114	70-130	2	25
trans-1,3-Dichloropropene	102	101	70-130	1	25
cis-1,3-Dichloropropene	95	95	70-130	0	25
1,1-Dichloropropene	101	106	70-130	5	25
Bromoform	113	110	70-130	3	50
1,1,2,2-Tetrachloroethane	109	102	70-130	7	25
Benzene	97	100	70-130	3	25
Toluene	98	103	70-130	5	25
Ethylbenzene	107	112	70-130	5	25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712072

**Report Date:** 08/24/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 02-05 Batch: WG291724-1 WG291724-2					
Chloromethane	93	99	70-130	6	50
Bromomethane	126	126	70-130	0	50
Vinyl chloride	103	110	70-130	7	25
Chloroethane	115	120	70-130	4	25
1,1-Dichloroethene	100	102	70-130	2	25
trans-1,2-Dichloroethene	96	102	70-130	6	25
Trichloroethene	104	108	70-130	4	25
1,2-Dichlorobenzene	104	108	70-130	4	25
1,3-Dichlorobenzene	104	104	70-130	0	25
1,4-Dichlorobenzene	102	105	70-130	3	25
Methyl tert butyl ether	93	85	70-130	9	25
p/m-Xylene	101	107	70-130	6	25
o-Xylene	102	104	70-130	2	25
cis-1,2-Dichloroethene	102	105	70-130	3	25
Dibromomethane	116	109	70-130	6	25
1,2,3-Trichloropropane	128	116	70-130	10	25
Styrene	98	103	70-130	5	25
Dichlorodifluoromethane	72	75	70-130	4	50
Acetone	107	91	70-130	16	50
Carbon disulfide	91	96	70-130	5	25
2-Butanone	102	88	70-130	15	50



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712072

**Report Date:** 08/24/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 02-05 Batch: WG291724-1 WG291724-2					
4-Methyl-2-pentanone	109	94	70-130	15	50
2-Hexanone	108	100	70-130	8	50
Bromochloromethane	97	98	70-130	1	25
Tetrahydrofuran	91	83	70-130	9	25
2,2-Dichloropropane	76	78	70-130	3	50
1,2-Dibromoethane	111	106	70-130	5	25
1,3-Dichloropropane	110	110	70-130	0	25
1,1,1,2-Tetrachloroethane	112	114	70-130	2	25
Bromobenzene	102	107	70-130	5	25
n-Butylbenzene	87	92	70-130	6	25
sec-Butylbenzene	110	114	70-130	4	25
tert-Butylbenzene	108	112	70-130	4	25
o-Chlorotoluene	111	112	70-130	1	25
p-Chlorotoluene	112	114	70-130	2	25
1,2-Dibromo-3-chloropropane	122	112	70-130	9	50
Hexachlorobutadiene	105	110	70-130	5	25
Isopropylbenzene	115	119	70-130	3	25
p-Isopropyltoluene	112	115	70-130	3	25
Naphthalene	104	101	70-130	3	25
n-Propylbenzene	107	112	70-130	5	25
1,2,3-Trichlorobenzene	102	106	70-130	4	25

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712072  
**Report Date:** 08/24/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 02-05 Batch: WG291724-1 WG291724-2					
1,2,4-Trichlorobenzene	102	105	70-130	3	25
1,3,5-Trimethylbenzene	109	110	70-130	1	25
1,2,4-Trimethylbenzene	109	113	70-130	4	25
Ethyl ether	116	112	70-130	4	25
Isopropyl Ether	97	96	70-130	1	25
Ethyl-Tert-Butyl-Ether	90	89	70-130	1	25
Tertiary-Amyl Methyl Ether	95	89	70-130	7	25
1,4-Dioxane	104	91	70-130	13	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116	110	70-130
Toluene-d8	99	100	70-130
4-Bromofluorobenzene	104	102	70-130
Dibromofluoromethane	107	103	70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712072

**Report Date:** 08/24/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 01 Batch: WG291764-1 WG291764-2					
Methylene chloride	86	86	70-130	0	25
1,1-Dichloroethane	103	108	70-130	5	25
Chloroform	112	113	70-130	1	25
Carbon tetrachloride	118	120	70-130	2	25
1,2-Dichloropropane	98	100	70-130	2	25
Dibromochloromethane	112	109	70-130	3	25
1,1,2-Trichloroethane	110	104	70-130	6	25
Tetrachloroethene	104	109	70-130	5	25
Chlorobenzene	102	102	70-130	0	25
Trichlorofluoromethane	132	134	70-130	2	25
1,2-Dichloroethane	125	120	70-130	4	25
1,1,1-Trichloroethane	116	120	70-130	3	25
Bromodichloromethane	116	114	70-130	2	25
trans-1,3-Dichloropropene	102	101	70-130	1	25
cis-1,3-Dichloropropene	95	95	70-130	0	25
1,1-Dichloropropene	101	106	70-130	5	25
Bromoform	113	110	70-130	3	50
1,1,2,2-Tetrachloroethane	109	102	70-130	7	25
Benzene	97	100	70-130	3	25
Toluene	98	103	70-130	5	25
Ethylbenzene	107	112	70-130	5	25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712072

**Report Date:** 08/24/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 01 Batch: WG291764-1 WG291764-2					
Chloromethane	93	99	70-130	6	50
Bromomethane	126	126	70-130	0	50
Vinyl chloride	103	110	70-130	7	25
Chloroethane	115	120	70-130	4	25
1,1-Dichloroethene	100	102	70-130	2	25
trans-1,2-Dichloroethene	96	102	70-130	6	25
Trichloroethene	104	108	70-130	4	25
1,2-Dichlorobenzene	104	108	70-130	4	25
1,3-Dichlorobenzene	104	104	70-130	0	25
1,4-Dichlorobenzene	102	105	70-130	3	25
Methyl tert butyl ether	93	85	70-130	9	25
p/m-Xylene	101	107	70-130	6	25
o-Xylene	102	104	70-130	2	25
cis-1,2-Dichloroethene	102	105	70-130	3	25
Dibromomethane	116	109	70-130	6	25
1,2,3-Trichloropropane	128	116	70-130	10	25
Styrene	98	103	70-130	5	25
Dichlorodifluoromethane	72	75	70-130	4	50
Acetone	107	91	70-130	16	50
Carbon disulfide	91	96	70-130	5	25
2-Butanone	102	88	70-130	15	50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712072

**Report Date:** 08/24/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 01 Batch: WG291764-1 WG291764-2					
4-Methyl-2-pentanone	109	94	70-130	15	50
2-Hexanone	108	100	70-130	8	50
Bromochloromethane	97	98	70-130	1	25
Tetrahydrofuran	91	83	70-130	9	25
2,2-Dichloropropane	76	78	70-130	3	50
1,2-Dibromoethane	111	106	70-130	5	25
1,3-Dichloropropane	110	110	70-130	0	25
1,1,1,2-Tetrachloroethane	112	114	70-130	2	25
Bromobenzene	102	107	70-130	5	25
n-Butylbenzene	87	92	70-130	6	25
sec-Butylbenzene	110	114	70-130	4	25
tert-Butylbenzene	108	112	70-130	4	25
o-Chlorotoluene	111	112	70-130	1	25
p-Chlorotoluene	112	114	70-130	2	25
1,2-Dibromo-3-chloropropane	122	112	70-130	9	50
Hexachlorobutadiene	105	110	70-130	5	25
Isopropylbenzene	115	119	70-130	3	25
p-Isopropyltoluene	112	115	70-130	3	25
Naphthalene	104	101	70-130	3	25
n-Propylbenzene	107	112	70-130	5	25
1,2,3-Trichlorobenzene	102	106	70-130	4	25

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712072  
**Report Date:** 08/24/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 01 Batch: WG291764-1 WG291764-2					
1,2,4-Trichlorobenzene	102	105	70-130	3	25
1,3,5-Trimethylbenzene	109	110	70-130	1	25
1,2,4-Trimethylbenzene	109	113	70-130	4	25
Ethyl ether	116	112	70-130	4	25
Isopropyl Ether	97	96	70-130	1	25
Ethyl-Tert-Butyl-Ether	90	89	70-130	1	25
Tertiary-Amyl Methyl Ether	95	89	70-130	7	25
1,4-Dioxane	104	91	70-130	13	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116	110	70-130
Toluene-d8	99	100	70-130
4-Bromofluorobenzene	104	102	70-130
Dibromofluoromethane	107	103	70-130

# **INORGANICS & MISCELLANEOUS**

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712072  
**Report Date:** 08/24/07

### SAMPLE RESULTS

**Lab ID:** L0712072-01  
**Client ID:** SP-H1-20070820-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/20/07 14:00  
**Date Received:** 08/21/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	76		%	0.10	1	-	08/22/07 16:40	30,2540G	NM





**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712072  
**Report Date:** 08/24/07

### SAMPLE RESULTS

**Lab ID:** L0712072-02  
**Client ID:** SP-H2-20070820-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/20/07 14:05  
**Date Received:** 08/21/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	76		%	0.10	1	-	08/22/07 16:40	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712072**Project Number:** 0051545**Report Date:** 08/24/07**SAMPLE RESULTS**

Lab ID: L0712072-03  
 Client ID: SP-H3-20070820-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil

Date Collected: 08/20/07 14:10  
 Date Received: 08/21/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	77		%	0.10	1	-	08/22/07 16:40	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712072  
**Report Date:** 08/24/07

### SAMPLE RESULTS

**Lab ID:** L0712072-04  
**Client ID:** SP-H4-20070820-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/20/07 14:15  
**Date Received:** 08/21/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	79		%	0.10	1	-	08/22/07 16:40	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712072  
**Report Date:** 08/24/07

### SAMPLE RESULTS

**Lab ID:** L0712072-05  
**Client ID:** DUP-001-20070820-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/20/07 00:00  
**Date Received:** 08/21/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	73		%	0.10	1	-	08/22/07 16:40	30,2540G	NM



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712072

**Report Date:** 08/24/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Associated sample(s): 01-05 QC Batch ID: WG291487-1 QC Sample: L0712021-01 Client ID: DUP Sample					
Solids, Total	96	96	%	0	20

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712072**Project Number:** 0051545**Report Date:** 08/24/07**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information**

Cooler	Custody Seal
A	Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0712072-01A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260H-04
L0712072-01B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260H-04
L0712072-01C	Plastic 120ml unpreserved	A	N/A	2C	Y	Absent	TS
L0712072-02A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712072-02B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712072-02C	Plastic 120ml unpreserved	A	N/A	2C	Y	Absent	TS
L0712072-03A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712072-03B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712072-03C	Plastic 120ml unpreserved	A	N/A	2C	Y	Absent	TS
L0712072-04A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712072-04B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712072-04C	Plastic 120ml unpreserved	A	N/A	2C	Y	Absent	TS
L0712072-05A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712072-05B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712072-05C	Plastic 120ml unpreserved	A	N/A	2C	Y	Absent	TS

**Container Comments**

L0712072-01A	Temp Probe
L0712072-01B	Temp Probe
L0712072-01C	Temp Probe
L0712072-02A	Temp Probe
L0712072-02B	Temp Probe
L0712072-02C	Temp Probe
L0712072-03A	Temp Probe
L0712072-03B	Temp Probe
L0712072-03C	Temp Probe
L0712072-04A	Temp Probe
L0712072-04B	Temp Probe

**Project Name:** NA SOIL EXCAVATION**Project Number:** 0051545**Lab Number:** L0712072**Report Date:** 08/24/07**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>pH</b>	<b>Temp</b>	<b>Pres</b>	<b>Seal</b>	<b>Analysis</b>
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**Container Comments**

L0712072-04C Temp Probe

L0712072-05A Temp Probe

L0712072-05B Temp Probe

L0712072-05C Temp Probe

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712072  
**Report Date:** 08/24/07

## GLOSSARY

### Acronyms

- EPA - Environmental Protection Agency.  
LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.  
LCSD- Laboratory Control Sample Duplicate: Refer to LCS.  
MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.  
MSD - Matrix Spike Sample Duplicate: Refer to MS.  
NA - Not Applicable.  
NI - Not Ignitable.  
NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.  
ND - Not detected at the reported detection limit for the sample.  
RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.  
RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

- A - Spectra identified as "Aldol Condensation Product".  
B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.  
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.  
J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

### Standard Qualifiers

- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712072  
**Report Date:** 08/24/07

## REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

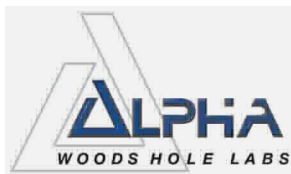
## LIMITATION OF LIABILITIES

Alpha Woods Hole Labs performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.







## ANALYTICAL REPORT

Lab Number:	L0711773
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	NA EXCAVATION
Project Number:	0051545
Report Date:	08/22/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** NA EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711773  
**Report Date:** 08/22/07

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>
L0711773-01	SP-G1-20070815-01	RAYTHEON WAYLAND
L0711773-02	SP-G2-20070815-01	RAYTHEON WAYLAND

Project Name: NA EXCAVATION

Lab Number: L0711773

Project Number: 0051545

Report Date: 08/22/07

### MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

<b>An affirmative response to questions A, B, C &amp; D is required for "Presumptive Certainty" status</b>		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A
<b>A response to questions E and F is required for "Presumptive Certainty" status</b>		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	YES
<b>For any questions answered "No", please refer to the case narrative section on the following page(s).</b>		

Please note that sample matrix information is located in the Sample Results section of this report.



**Project Name:** NA EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711773  
**Report Date:** 08/22/07

### Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

#### MCP Related Narratives

##### Volatile Organics

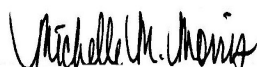
L0711773-01 and -02 were processed against a calibration curve that utilized a quadratic fit for 2,2-Dichloropropane.

In reference to question E:

The WG291182-7/8 LCS/LCSD % recoveries for 2,2-Dichloropropane, a difficult analyte, are below individual acceptance criteria for the compound. The LCSD % recovery for Trichlorofluoromethane is above the individual acceptance criteria for the compound, but within the overall method allowances. All associated samples are non-detect for Trichlorofluoromethane.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Title: Technical Director/Representative

Date: 08/22/07

# ORGANICS

# VOLATILES



**Project Name:** NA EXCAVATION**Lab Number:** L0711773**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

**Lab ID:** L0711773-01  
**Client ID:** SP-G1-20070815-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/21/07 23:27  
**Analyst:** GK  
**Percent Solids:** 88%

**Date Collected:** 08/15/07 14:00  
**Date Received:** 08/15/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	10	1
1,1-Dichloroethane	ND		ug/kg	1.5	1
Chloroform	ND		ug/kg	1.5	1
Carbon tetrachloride	ND		ug/kg	1.0	1
1,2-Dichloropropane	ND		ug/kg	3.6	1
Dibromochloromethane	ND		ug/kg	1.0	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	1
Tetrachloroethene	ND		ug/kg	1.0	1
Chlorobenzene	ND		ug/kg	1.0	1
Trichlorofluoromethane	ND		ug/kg	5.2	1
1,2-Dichloroethane	ND		ug/kg	1.0	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	1
Bromodichloromethane	ND		ug/kg	1.0	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	1
1,1-Dichloropropene	ND		ug/kg	5.2	1
Bromoform	ND		ug/kg	4.1	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	1
Benzene	ND		ug/kg	1.0	1
Toluene	ND		ug/kg	1.5	1
Ethylbenzene	ND		ug/kg	1.0	1
Chloromethane	ND		ug/kg	5.2	1
Bromomethane	ND		ug/kg	2.1	1
Vinyl chloride	ND		ug/kg	2.1	1
Chloroethane	ND		ug/kg	2.1	1
1,1-Dichloroethene	ND		ug/kg	1.0	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	1
Trichloroethene	ND		ug/kg	1.0	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	1

Project Name: NA EXCAVATION

Lab Number: L0711773

Project Number: 0051545

Report Date: 08/22/07

## SAMPLE RESULTS

Lab ID: L0711773-01  
 Client ID: SP-G1-20070815-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/15/07 14:00  
 Date Received: 08/15/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
1,4-Dichlorobenzene	ND		ug/kg	5.2	1
Methyl tert butyl ether	ND		ug/kg	2.1	1
p/m-Xylene	ND		ug/kg	2.1	1
o-Xylene	ND		ug/kg	2.1	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	1
Dibromomethane	ND		ug/kg	10	1
1,2,3-Trichloropropane	ND		ug/kg	10	1
Styrene	ND		ug/kg	2.1	1
Dichlorodifluoromethane	ND		ug/kg	10	1
Acetone	ND		ug/kg	10	1
Carbon disulfide	ND		ug/kg	52	1
2-Butanone	ND		ug/kg	10	1
4-Methyl-2-pentanone	ND		ug/kg	10	1
2-Hexanone	ND		ug/kg	10	1
Bromochloromethane	ND		ug/kg	5.2	1
Tetrahydrofuran	ND		ug/kg	21	1
2,2-Dichloropropane	ND		ug/kg	5.2	1
1,2-Dibromoethane	ND		ug/kg	4.1	1
1,3-Dichloropropane	ND		ug/kg	5.2	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	1
Bromobenzene	ND		ug/kg	5.2	1
n-Butylbenzene	ND		ug/kg	1.0	1
sec-Butylbenzene	ND		ug/kg	1.0	1
tert-Butylbenzene	ND		ug/kg	5.2	1
o-Chlorotoluene	ND		ug/kg	5.2	1
p-Chlorotoluene	ND		ug/kg	5.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	1
Hexachlorobutadiene	ND		ug/kg	5.2	1
Isopropylbenzene	ND		ug/kg	1.0	1
p-Isopropyltoluene	ND		ug/kg	1.0	1
Naphthalene	ND		ug/kg	5.2	1
n-Propylbenzene	ND		ug/kg	1.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	1
Ethyl ether	ND		ug/kg	5.2	1

**Project Name:** NA EXCAVATION**Lab Number:** L0711773**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711773-01

Date Collected: 08/15/07 14:00

Client ID: SP-G1-20070815-01

Date Received: 08/15/07

Sample Location: RAYTHEON WAYLAND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.1	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.1	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.1	1
1,4-Dioxane	ND		ug/kg	520	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	95		70-130

**Project Name:** NA EXCAVATION**Lab Number:** L0711773**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711773-02  
 Client ID: SP-G2-20070815-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil  
 Analytical Method: 60,8260B  
 Analytical Date: 08/22/07 00:01  
 Analyst: GK  
 Percent Solids: 89%

Date Collected: 08/15/07 14:05  
 Date Received: 08/15/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	10	1
1,1-Dichloroethane	ND		ug/kg	1.6	1
Chloroform	ND		ug/kg	1.6	1
Carbon tetrachloride	ND		ug/kg	1.0	1
1,2-Dichloropropane	ND		ug/kg	3.6	1
Dibromochloromethane	ND		ug/kg	1.0	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	1
Tetrachloroethene	ND		ug/kg	1.0	1
Chlorobenzene	ND		ug/kg	1.0	1
Trichlorofluoromethane	ND		ug/kg	5.2	1
1,2-Dichloroethane	ND		ug/kg	1.0	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	1
Bromodichloromethane	ND		ug/kg	1.0	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	1
1,1-Dichloropropene	ND		ug/kg	5.2	1
Bromoform	ND		ug/kg	4.2	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	1
Benzene	ND		ug/kg	1.0	1
Toluene	ND		ug/kg	1.6	1
Ethylbenzene	ND		ug/kg	1.0	1
Chloromethane	ND		ug/kg	5.2	1
Bromomethane	ND		ug/kg	2.1	1
Vinyl chloride	ND		ug/kg	2.1	1
Chloroethane	ND		ug/kg	2.1	1
1,1-Dichloroethene	ND		ug/kg	1.0	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	1
Trichloroethene	ND		ug/kg	1.0	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	1

**Project Name:** NA EXCAVATION**Lab Number:** L0711773**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711773-02  
 Client ID: SP-G2-20070815-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/15/07 14:05  
 Date Received: 08/15/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	5.2	1
Methyl tert butyl ether	ND		ug/kg	2.1	1
p/m-Xylene	ND		ug/kg	2.1	1
o-Xylene	ND		ug/kg	2.1	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	1
Dibromomethane	ND		ug/kg	10	1
1,2,3-Trichloropropane	ND		ug/kg	10	1
Styrene	ND		ug/kg	2.1	1
Dichlorodifluoromethane	ND		ug/kg	10	1
Acetone	ND		ug/kg	10	1
Carbon disulfide	ND		ug/kg	52	1
2-Butanone	ND		ug/kg	10	1
4-Methyl-2-pentanone	ND		ug/kg	10	1
2-Hexanone	ND		ug/kg	10	1
Bromochloromethane	ND		ug/kg	5.2	1
Tetrahydrofuran	ND		ug/kg	21	1
2,2-Dichloropropane	ND		ug/kg	5.2	1
1,2-Dibromoethane	ND		ug/kg	4.2	1
1,3-Dichloropropane	ND		ug/kg	5.2	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	1
Bromobenzene	ND		ug/kg	5.2	1
n-Butylbenzene	ND		ug/kg	1.0	1
sec-Butylbenzene	ND		ug/kg	1.0	1
tert-Butylbenzene	ND		ug/kg	5.2	1
o-Chlorotoluene	ND		ug/kg	5.2	1
p-Chlorotoluene	ND		ug/kg	5.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	1
Hexachlorobutadiene	ND		ug/kg	5.2	1
Isopropylbenzene	ND		ug/kg	1.0	1
p-Isopropyltoluene	2.0		ug/kg	1.0	1
Naphthalene	ND		ug/kg	5.2	1
n-Propylbenzene	ND		ug/kg	1.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	1
Ethyl ether	ND		ug/kg	5.2	1

**Project Name:** NA EXCAVATION**Lab Number:** L0711773**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711773-02  
 Client ID: SP-G2-20070815-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/15/07 14:05  
 Date Received: 08/15/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.2	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.2	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.2	1
1,4-Dioxane	ND		ug/kg	520	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	100		70-130

**Project Name:** NA EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711773  
**Report Date:** 08/22/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/21/07 17:04  
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 01-02 Batch: WG291182-9				
Methylene chloride	ND		ug/kg	10
1,1-Dichloroethane	ND		ug/kg	1.5
Chloroform	ND		ug/kg	1.5
Carbon tetrachloride	ND		ug/kg	1.0
1,2-Dichloropropane	ND		ug/kg	3.5
Dibromochloromethane	ND		ug/kg	1.0
1,1,2-Trichloroethane	ND		ug/kg	1.5
Tetrachloroethene	ND		ug/kg	1.0
Chlorobenzene	ND		ug/kg	1.0
Trichlorofluoromethane	ND		ug/kg	5.0
1,2-Dichloroethane	ND		ug/kg	1.0
1,1,1-Trichloroethane	ND		ug/kg	1.0
Bromodichloromethane	ND		ug/kg	1.0
trans-1,3-Dichloropropene	ND		ug/kg	1.0
cis-1,3-Dichloropropene	ND		ug/kg	1.0
1,1-Dichloropropene	ND		ug/kg	5.0
Bromoform	ND		ug/kg	4.0
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0
Benzene	ND		ug/kg	1.0
Toluene	ND		ug/kg	1.5
Ethylbenzene	ND		ug/kg	1.0
Chloromethane	ND		ug/kg	5.0
Bromomethane	ND		ug/kg	2.0
Vinyl chloride	ND		ug/kg	2.0
Chloroethane	ND		ug/kg	2.0
1,1-Dichloroethene	ND		ug/kg	1.0
trans-1,2-Dichloroethene	ND		ug/kg	1.5
Trichloroethene	ND		ug/kg	1.0
1,2-Dichlorobenzene	ND		ug/kg	5.0
1,3-Dichlorobenzene	ND		ug/kg	5.0
1,4-Dichlorobenzene	ND		ug/kg	5.0

**Project Name:** NA EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711773  
**Report Date:** 08/22/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/21/07 17:04  
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 01-02 Batch: WG291182-9				
Methyl tert butyl ether	ND		ug/kg	2.0
p/m-Xylene	ND		ug/kg	2.0
o-Xylene	ND		ug/kg	2.0
cis-1,2-Dichloroethene	ND		ug/kg	1.0
Dibromomethane	ND		ug/kg	10
1,2,3-Trichloropropane	ND		ug/kg	10
Styrene	ND		ug/kg	2.0
Dichlorodifluoromethane	ND		ug/kg	10
Acetone	ND		ug/kg	10
Carbon disulfide	ND		ug/kg	50
2-Butanone	ND		ug/kg	10
4-Methyl-2-pentanone	ND		ug/kg	10
2-Hexanone	ND		ug/kg	10
Bromochloromethane	ND		ug/kg	5.0
Tetrahydrofuran	ND		ug/kg	20
2,2-Dichloropropane	ND		ug/kg	5.0
1,2-Dibromoethane	ND		ug/kg	4.0
1,3-Dichloropropane	ND		ug/kg	5.0
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0
Bromobenzene	ND		ug/kg	5.0
n-Butylbenzene	ND		ug/kg	1.0
sec-Butylbenzene	ND		ug/kg	1.0
tert-Butylbenzene	ND		ug/kg	5.0
o-Chlorotoluene	ND		ug/kg	5.0
p-Chlorotoluene	ND		ug/kg	5.0
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0
Hexachlorobutadiene	ND		ug/kg	5.0
Isopropylbenzene	ND		ug/kg	1.0
p-Isopropyltoluene	ND		ug/kg	1.0
Naphthalene	ND		ug/kg	5.0
n-Propylbenzene	ND		ug/kg	1.0





**Project Name:** NA EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711773  
**Report Date:** 08/22/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/21/07 17:04  
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 01-02 Batch: WG291182-9				
1,2,3-Trichlorobenzene	ND		ug/kg	5.0
1,2,4-Trichlorobenzene	ND		ug/kg	5.0
1,3,5-Trimethylbenzene	ND		ug/kg	5.0
1,2,4-Trimethylbenzene	ND		ug/kg	5.0
Ethyl ether	ND		ug/kg	5.0
Isopropyl Ether	ND		ug/kg	4.0
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0
1,4-Dioxane	ND		ug/kg	500

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	104		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: NA EXCAVATION

Project Number: 0051545

Lab Number: L0711773

Report Date: 08/22/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 01-02 Batch: WG291182-7 WG291182-8					
Methylene chloride	84	80	70-130	5	25
1,1-Dichloroethane	108	105	70-130	3	25
Chloroform	113	111	70-130	2	25
Carbon tetrachloride	113	111	70-130	2	25
1,2-Dichloropropane	104	100	70-130	4	25
Dibromochloromethane	107	106	70-130	1	25
1,1,2-Trichloroethane	106	106	70-130	0	25
Tetrachloroethene	99	95	70-130	4	25
Chlorobenzene	99	95	70-130	4	25
Trichlorofluoromethane	129	131	70-130	2	25
1,2-Dichloroethane	126	126	70-130	0	25
1,1,1-Trichloroethane	116	112	70-130	4	25
Bromodichloromethane	118	116	70-130	2	25
trans-1,3-Dichloropropene	98	95	70-130	3	25
cis-1,3-Dichloropropene	95	90	70-130	5	25
1,1-Dichloropropene	103	99	70-130	4	25
Bromoform	104	100	70-130	4	50
1,1,2,2-Tetrachloroethane	100	100	70-130	0	25
Benzene	100	97	70-130	3	25
Toluene	95	100	70-130	5	25
Ethylbenzene	104	102	70-130	2	25

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: NA EXCAVATION

Project Number: 0051545

Lab Number: L0711773

Report Date: 08/22/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 01-02 Batch: WG291182-7 WG291182-8					
Chloromethane	113	108	70-130	5	50
Bromomethane	125	127	70-130	2	50
Vinyl chloride	120	122	70-130	2	25
Chloroethane	129	124	70-130	4	25
1,1-Dichloroethene	103	99	70-130	4	25
trans-1,2-Dichloroethene	102	100	70-130	2	25
Trichloroethene	104	101	70-130	3	25
1,2-Dichlorobenzene	101	97	70-130	4	25
1,3-Dichlorobenzene	99	97	70-130	2	25
1,4-Dichlorobenzene	97	95	70-130	2	25
Methyl tert butyl ether	97	96	70-130	1	25
p/m-Xylene	100	97	70-130	3	25
o-Xylene	102	99	70-130	3	25
cis-1,2-Dichloroethene	106	101	70-130	5	25
Dibromomethane	119	117	70-130	2	25
1,2,3-Trichloropropane	116	115	70-130	1	25
Styrene	101	99	70-130	2	25
Dichlorodifluoromethane	110	110	70-130	0	50
Acetone	98	112	70-130	13	50
Carbon disulfide	74	72	70-130	3	25
2-Butanone	93	92	70-130	1	50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: NA EXCAVATION

Project Number: 0051545

Lab Number: L0711773

Report Date: 08/22/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 01-02 Batch: WG291182-7 WG291182-8					
4-Methyl-2-pentanone	97	100	70-130	3	50
2-Hexanone	96	102	70-130	6	50
Bromochloromethane	106	102	70-130	4	25
Tetrahydrofuran	92	96	70-130	4	25
2,2-Dichloropropane	69	64	70-130	8	50
1,2-Dibromoethane	111	110	70-130	1	25
1,3-Dichloropropane	110	107	70-130	3	25
1,1,1,2-Tetrachloroethane	111	109	70-130	2	25
Bromobenzene	103	97	70-130	6	25
n-Butylbenzene	78	78	70-130	0	25
sec-Butylbenzene	99	97	70-130	2	25
tert-Butylbenzene	101	98	70-130	3	25
o-Chlorotoluene	105	102	70-130	3	25
p-Chlorotoluene	104	101	70-130	3	25
1,2-Dibromo-3-chloropropane	104	103	70-130	1	50
Hexachlorobutadiene	93	89	70-130	4	25
Isopropylbenzene	108	105	70-130	3	25
p-Isopropyltoluene	103	102	70-130	1	25
Naphthalene	97	94	70-130	3	25
n-Propylbenzene	101	98	70-130	3	25
1,2,3-Trichlorobenzene	100	92	70-130	8	25

## Lab Control Sample Analysis

Batch Quality Control

Project Name: NA EXCAVATION

Project Number: 0051545

Lab Number: L0711773

Report Date: 08/22/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 01-02 Batch: WG291182-7 WG291182-8					
1,2,4-Trichlorobenzene	95	90	70-130	5	25
1,3,5-Trimethylbenzene	101	97	70-130	4	25
1,2,4-Trimethylbenzene	104	101	70-130	3	25
Ethyl ether	122	123	70-130	1	25
Isopropyl Ether	108	104	70-130	4	25
Ethyl-Tert-Butyl-Ether	99	98	70-130	1	25
Tertiary-Amyl Methyl Ether	100	101	70-130	1	25
1,4-Dioxane	97	103	70-130	6	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113	117	70-130
Toluene-d8	99	97	70-130
4-Bromofluorobenzene	103	99	70-130
Dibromofluoromethane	108	105	70-130

# **INORGANICS & MISCELLANEOUS**

**Project Name:** NA EXCAVATION**Lab Number:** L0711773**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

**Lab ID:** L0711773-01  
**Client ID:** SP-G1-20070815-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/15/07 14:00  
**Date Received:** 08/15/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	88		%	0.10	1	-	08/16/07 11:52	30,2540G	SD



**Project Name:** NA EXCAVATION**Lab Number:** L0711773**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711773-02  
 Client ID: SP-G2-20070815-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil

Date Collected: 08/15/07 14:05  
 Date Received: 08/15/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	89		%	0.10	1	-	08/16/07 11:52	30,2540G	SD





**Lab Duplicate Analysis**  
Batch Quality Control

Project Name: NA EXCAVATION

Project Number: 0051545

Lab Number: L0711773

Report Date: 08/22/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Associated sample(s): 01-02 QC Batch ID: WG290820-1 QC Sample: L0711663-02 Client ID: DUP Sample					
Solids, Total	93	92	%	1	20

**Project Name:** NA EXCAVATION**Lab Number:** L0711773**Project Number:** 0051545**Report Date:** 08/22/07**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information**

Cooler	Custody Seal
A	Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0711773-01A	Vial MeOH preserved	A	N/A	5C	Y	Absent	MCP-8260LW-04
L0711773-01B	Vial water preserved	A	N/A	5C	Y	Absent	MCP-8260LW-04
L0711773-01D	Plastic 2oz unpreserved for TS	A	N/A	5C	Y	Absent	TS
L0711773-02A	Vial MeOH preserved	A	N/A	5C	Y	Absent	MCP-8260LW-04
L0711773-02B	Vial water preserved	A	N/A	5C	Y	Absent	MCP-8260LW-04
L0711773-02D	Plastic 2oz unpreserved for TS	A	N/A	5C	Y	Absent	TS

**Container Comments**

L0711773-01A	Temp probe
L0711773-01B	Temp probe
L0711773-01D	Temp probe
L0711773-02A	Temp probe
L0711773-02B	Temp probe
L0711773-02D	Temp probe

**Project Name:** NA EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711773  
**Report Date:** 08/22/07

## GLOSSARY

### Acronyms

- EPA - Environmental Protection Agency.  
LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.  
LCSD- Laboratory Control Sample Duplicate: Refer to LCS.  
MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.  
MSD - Matrix Spike Sample Duplicate: Refer to MS.  
NA - Not Applicable.  
NI - Not Ignitable.  
NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.  
ND - Not detected at the reported detection limit for the sample.  
RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.  
RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

- A - Spectra identified as "Aldol Condensation Product".  
B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.  
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.  
J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

### Standard Qualifiers

- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

**Project Name:** NA EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711773  
**Report Date:** 08/22/07

## REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

## LIMITATION OF LIABILITIES

Alpha Woods Hole Labs performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.





# CHAIN OF CUSTODY

PAGE 1 OF 1Date Rec'd in Lab: 8/15ALPHA Job #: 10711773

WESTBORO, MA TEL: 508-898-9220  
 RAYNHAM, MA TEL: 508-822-9300  
 FAX: 508-898-9193 FAX: 508-822-3288

**Project Information**

Project Name: NA<sup>DE</sup> Excavation  
 Project Location: Raytheon Wayland  
 Project #: 0051545  
 Project Manager: Jason Flattery  
 ALPHA Quote #:

**Report Information - Data Deliverables**

FAX  EMAIL  
 ADEX  Add'l Deliverables

**Billing Information**

Same as Client info PO #:

**Client Information**

Client: ERM Boston  
 Address: 399 Boylston St. 6<sup>th</sup> Fl  
Boston, MA 02116  
 Phone: 617 646 7800  
 Fax: 617 267 6447  
 Email: jason.flattery@erm.com  
 These samples have been previously analyzed by Alpha

**Turn-Around Time**

Standard BM (only confirmed if pre-approved!)  
 Date Due: 8/22 Time:

**Regulatory Requirements/Report Limits**

State/Fed Program: MCP Criteria: S2/GWI

**MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS**

Yes  No Are MCP Analytical Methods Required?  
 Yes  No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

**ANALYSIS**  
Total Solids  
VOCs B260 (Low)  
VOCs B2100 (High)

**SAMPLE HANDLING**  
 Filtration  
 Done  
 Not needed  
 Lab to do Preservation  
 Lab to do  
 (Please specify below)

**Sample Specific Comments**

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS			TOTAL # BOTTLES
		Date	Time			Total Solids	VOCs B260 (Low)	VOCs B2100 (High)	
<u>11773-01</u>	<u>SP-G11-20070815-01</u>	<u>8/15/07</u>	<u>14:00</u>	<u>S</u>	<u>BM</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>3</u>
<u>V-02</u>	<u>SP-G12-20070815-01</u>	<u>8/15/07</u>	<u>14:05</u>	<u>S</u>	<u>BM</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>3</u>

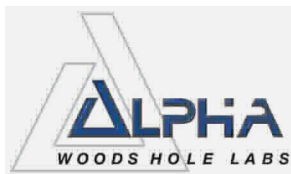
PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

FORM NO: 01-01 (rev. 10-OCT-05)

Container Type		<u>P</u>	<u>V</u>	<u>V</u>			
Preservative		<u>MNE</u>	<u>H<sub>2</sub>O</u>	<u>F</u>			
Relinquished By:		Date/Time		Received By:		Date/Time	
<u>[Signature]</u>		<u>8/15/07 15:30</u>		<u>[Signature]</u>		<u>8/15/07 15:30</u>	
		<u>8/15/07 16:15</u>		<u>[Signature]</u>		<u>8/15/07 16:15</u>	

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.



## ANALYTICAL REPORT

Lab Number: L0711957

Client: ERM-New England  
399 Boylston Street  
6th Floor  
Boston, MA 02116

ATTN: Jason Flattery

Project Name: NA SOIL EXCAVATION

Project Number: 0051545

Report Date: 08/22/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711957  
**Report Date:** 08/22/07

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>
L0711957-01	SP-F1-20070817-01	RAYTHEON WAYLAND
L0711957-02	SP-F2-20070817-01	RAYTHEON WAYLAND
L0711957-03	SP-F3-20070817-01	RAYTHEON WAYLAND
L0711957-04	SP-F4-20070817-01	RAYTHEON WAYLAND
L0711957-05	SP-F5-20070817-01	RAYTHEON WAYLAND
L0711957-06	SP-F6-20070817-01	RAYTHEON WAYLAND
L0711957-07	DUP-001-20070817-01	RAYTHEON WAYLAND

Project Name: NA SOIL EXCAVATION

Lab Number: L0711957

Project Number: 0051545

Report Date: 08/22/07

### MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A
A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	YES
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.





**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711957  
**Report Date:** 08/22/07

### Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

#### MCP Related Narratives:

##### Volatile Organics

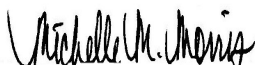
L0711957-01 and -02 were processed against a calibration curve that utilized a quadratic fit for cis-1,3-Dichloropropene and trans-1,3-Dichloropropene.

L0711957-03 through -07 were processed against a curve that utilized a quadratic fit for 2,2-Dichloropropene.

L0711957-07 has a greater than value reported for Trichloroethene because the compound exceeded the level of calibration. This analyte will be reported from the 8260 high level analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Title: Technical Director/Representative

Date: 08/22/07

# ORGANICS

# VOLATILES

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

**Lab ID:** L0711957-01  
**Client ID:** SP-F1-20070817-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/22/07 13:25  
**Analyst:** PD  
**Percent Solids:** 78%

**Date Collected:** 08/17/07 10:40  
**Date Received:** 08/17/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Methylene chloride	ND		ug/kg	800	1
1,1-Dichloroethane	ND		ug/kg	120	1
Chloroform	ND		ug/kg	120	1
Carbon tetrachloride	ND		ug/kg	80	1
1,2-Dichloropropane	ND		ug/kg	280	1
Dibromochloromethane	ND		ug/kg	80	1
1,1,2-Trichloroethane	ND		ug/kg	120	1
Tetrachloroethene	ND		ug/kg	80	1
Chlorobenzene	ND		ug/kg	80	1
Trichlorofluoromethane	ND		ug/kg	400	1
1,2-Dichloroethane	ND		ug/kg	80	1
1,1,1-Trichloroethane	ND		ug/kg	80	1
Bromodichloromethane	ND		ug/kg	80	1
trans-1,3-Dichloropropene	ND		ug/kg	80	1
cis-1,3-Dichloropropene	ND		ug/kg	80	1
1,1-Dichloropropene	ND		ug/kg	400	1
Bromoform	ND		ug/kg	320	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	80	1
Benzene	ND		ug/kg	80	1
Toluene	ND		ug/kg	120	1
Ethylbenzene	ND		ug/kg	80	1
Chloromethane	ND		ug/kg	400	1
Bromomethane	ND		ug/kg	160	1
Vinyl chloride	ND		ug/kg	160	1
Chloroethane	ND		ug/kg	160	1
1,1-Dichloroethene	ND		ug/kg	80	1
trans-1,2-Dichloroethene	ND		ug/kg	120	1
Trichloroethene	570		ug/kg	80	1
1,2-Dichlorobenzene	ND		ug/kg	400	1
1,3-Dichlorobenzene	ND		ug/kg	400	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711957-01  
 Client ID: SP-F1-20070817-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/17/07 10:40  
 Date Received: 08/17/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
1,4-Dichlorobenzene	ND		ug/kg	400	1
Methyl tert butyl ether	ND		ug/kg	160	1
p/m-Xylene	ND		ug/kg	160	1
o-Xylene	ND		ug/kg	160	1
cis-1,2-Dichloroethene	ND		ug/kg	80	1
Dibromomethane	ND		ug/kg	800	1
1,2,3-Trichloropropane	ND		ug/kg	800	1
Styrene	ND		ug/kg	160	1
Dichlorodifluoromethane	ND		ug/kg	800	1
Acetone	ND		ug/kg	800	1
Carbon disulfide	ND		ug/kg	4000	1
2-Butanone	ND		ug/kg	800	1
4-Methyl-2-pentanone	ND		ug/kg	800	1
2-Hexanone	ND		ug/kg	800	1
Bromochloromethane	ND		ug/kg	400	1
Tetrahydrofuran	ND		ug/kg	1600	1
2,2-Dichloropropane	ND		ug/kg	400	1
1,2-Dibromoethane	ND		ug/kg	320	1
1,3-Dichloropropane	ND		ug/kg	400	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	80	1
Bromobenzene	ND		ug/kg	400	1
n-Butylbenzene	ND		ug/kg	80	1
sec-Butylbenzene	ND		ug/kg	80	1
tert-Butylbenzene	ND		ug/kg	400	1
o-Chlorotoluene	ND		ug/kg	400	1
p-Chlorotoluene	ND		ug/kg	400	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	400	1
Hexachlorobutadiene	ND		ug/kg	400	1
Isopropylbenzene	ND		ug/kg	80	1
p-Isopropyltoluene	ND		ug/kg	80	1
Naphthalene	ND		ug/kg	400	1
n-Propylbenzene	ND		ug/kg	80	1
1,2,3-Trichlorobenzene	ND		ug/kg	400	1
1,2,4-Trichlorobenzene	ND		ug/kg	400	1
1,3,5-Trimethylbenzene	ND		ug/kg	400	1
1,2,4-Trimethylbenzene	ND		ug/kg	400	1
Ethyl ether	ND		ug/kg	400	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711957-01

Date Collected: 08/17/07 10:40

Client ID: SP-F1-20070817-01

Date Received: 08/17/07

Sample Location: RAYTHEON WAYLAND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-High					
Isopropyl Ether	ND		ug/kg	320	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	320	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	320	1
1,4-Dioxane	ND		ug/kg	40000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

**Lab ID:** L0711957-02  
**Client ID:** SP-F2-20070817-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/22/07 14:01  
**Analyst:** PD  
**Percent Solids:** 80%

**Date Collected:** 08/17/07 10:45  
**Date Received:** 08/17/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Methylene chloride	ND		ug/kg	740	1
1,1-Dichloroethane	ND		ug/kg	110	1
Chloroform	ND		ug/kg	110	1
Carbon tetrachloride	ND		ug/kg	74	1
1,2-Dichloropropane	ND		ug/kg	260	1
Dibromochloromethane	ND		ug/kg	74	1
1,1,2-Trichloroethane	ND		ug/kg	110	1
Tetrachloroethene	1800		ug/kg	74	1
Chlorobenzene	ND		ug/kg	74	1
Trichlorofluoromethane	ND		ug/kg	370	1
1,2-Dichloroethane	ND		ug/kg	74	1
1,1,1-Trichloroethane	ND		ug/kg	74	1
Bromodichloromethane	ND		ug/kg	74	1
trans-1,3-Dichloropropene	ND		ug/kg	74	1
cis-1,3-Dichloropropene	ND		ug/kg	74	1
1,1-Dichloropropene	ND		ug/kg	370	1
Bromoform	ND		ug/kg	300	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	74	1
Benzene	ND		ug/kg	74	1
Toluene	ND		ug/kg	110	1
Ethylbenzene	ND		ug/kg	74	1
Chloromethane	ND		ug/kg	370	1
Bromomethane	ND		ug/kg	150	1
Vinyl chloride	ND		ug/kg	150	1
Chloroethane	ND		ug/kg	150	1
1,1-Dichloroethene	ND		ug/kg	74	1
trans-1,2-Dichloroethene	ND		ug/kg	110	1
Trichloroethene	7800		ug/kg	74	1
1,2-Dichlorobenzene	ND		ug/kg	370	1
1,3-Dichlorobenzene	ND		ug/kg	370	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711957-02  
 Client ID: SP-F2-20070817-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/17/07 10:45  
 Date Received: 08/17/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
1,4-Dichlorobenzene	ND		ug/kg	370	1
Methyl tert butyl ether	ND		ug/kg	150	1
p/m-Xylene	ND		ug/kg	150	1
o-Xylene	ND		ug/kg	150	1
cis-1,2-Dichloroethene	420		ug/kg	74	1
Dibromomethane	ND		ug/kg	740	1
1,2,3-Trichloropropane	ND		ug/kg	740	1
Styrene	ND		ug/kg	150	1
Dichlorodifluoromethane	ND		ug/kg	740	1
Acetone	ND		ug/kg	740	1
Carbon disulfide	ND		ug/kg	3700	1
2-Butanone	ND		ug/kg	740	1
4-Methyl-2-pentanone	ND		ug/kg	740	1
2-Hexanone	ND		ug/kg	740	1
Bromochloromethane	ND		ug/kg	370	1
Tetrahydrofuran	ND		ug/kg	1500	1
2,2-Dichloropropane	ND		ug/kg	370	1
1,2-Dibromoethane	ND		ug/kg	300	1
1,3-Dichloropropane	ND		ug/kg	370	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	74	1
Bromobenzene	ND		ug/kg	370	1
n-Butylbenzene	ND		ug/kg	74	1
sec-Butylbenzene	ND		ug/kg	74	1
tert-Butylbenzene	ND		ug/kg	370	1
o-Chlorotoluene	ND		ug/kg	370	1
p-Chlorotoluene	ND		ug/kg	370	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	370	1
Hexachlorobutadiene	ND		ug/kg	370	1
Isopropylbenzene	ND		ug/kg	74	1
p-Isopropyltoluene	ND		ug/kg	74	1
Naphthalene	ND		ug/kg	370	1
n-Propylbenzene	ND		ug/kg	74	1
1,2,3-Trichlorobenzene	ND		ug/kg	370	1
1,2,4-Trichlorobenzene	ND		ug/kg	370	1
1,3,5-Trimethylbenzene	ND		ug/kg	370	1
1,2,4-Trimethylbenzene	ND		ug/kg	370	1
Ethyl ether	ND		ug/kg	370	1





**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711957-02  
 Client ID: SP-F2-20070817-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/17/07 10:45  
 Date Received: 08/17/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Isopropyl Ether	ND		ug/kg	300	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	300	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	300	1
1,4-Dioxane	ND		ug/kg	37000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	101		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

**Lab ID:** L0711957-03  
**Client ID:** SP-F3-20070817-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Analytical Method:** 60,8260B  
**Analytical Date:** 08/22/07 12:03  
**Analyst:** GK  
**Percent Solids:** 77%

**Date Collected:** 08/17/07 10:50  
**Date Received:** 08/17/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	8.1	1
1,1-Dichloroethane	ND		ug/kg	1.2	1
Chloroform	ND		ug/kg	1.2	1
Carbon tetrachloride	ND		ug/kg	0.81	1
1,2-Dichloropropane	ND		ug/kg	2.8	1
Dibromochloromethane	ND		ug/kg	0.81	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	1
Tetrachloroethene	18		ug/kg	0.81	1
Chlorobenzene	ND		ug/kg	0.81	1
Trichlorofluoromethane	ND		ug/kg	4.0	1
1,2-Dichloroethane	ND		ug/kg	0.81	1
1,1,1-Trichloroethane	ND		ug/kg	0.81	1
Bromodichloromethane	ND		ug/kg	0.81	1
trans-1,3-Dichloropropene	ND		ug/kg	0.81	1
cis-1,3-Dichloropropene	ND		ug/kg	0.81	1
1,1-Dichloropropene	ND		ug/kg	4.0	1
Bromoform	ND		ug/kg	3.2	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.81	1
Benzene	ND		ug/kg	0.81	1
Toluene	ND		ug/kg	1.2	1
Ethylbenzene	ND		ug/kg	0.81	1
Chloromethane	ND		ug/kg	4.0	1
Bromomethane	ND		ug/kg	1.6	1
Vinyl chloride	ND		ug/kg	1.6	1
Chloroethane	ND		ug/kg	1.6	1
1,1-Dichloroethene	ND		ug/kg	0.81	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	1
Trichloroethene	140		ug/kg	0.81	1
1,2-Dichlorobenzene	ND		ug/kg	4.0	1
1,3-Dichlorobenzene	ND		ug/kg	4.0	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711957-03  
 Client ID: SP-F3-20070817-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/17/07 10:50  
 Date Received: 08/17/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	4.0	1
Methyl tert butyl ether	ND		ug/kg	1.6	1
p/m-Xylene	ND		ug/kg	1.6	1
o-Xylene	ND		ug/kg	1.6	1
cis-1,2-Dichloroethene	8.3		ug/kg	0.81	1
Dibromomethane	ND		ug/kg	8.1	1
1,2,3-Trichloropropane	ND		ug/kg	8.1	1
Styrene	ND		ug/kg	1.6	1
Dichlorodifluoromethane	ND		ug/kg	8.1	1
Acetone	38		ug/kg	8.1	1
Carbon disulfide	ND		ug/kg	40	1
2-Butanone	ND		ug/kg	8.1	1
4-Methyl-2-pentanone	ND		ug/kg	8.1	1
2-Hexanone	ND		ug/kg	8.1	1
Bromochloromethane	ND		ug/kg	4.0	1
Tetrahydrofuran	ND		ug/kg	16	1
2,2-Dichloropropane	ND		ug/kg	4.0	1
1,2-Dibromoethane	ND		ug/kg	3.2	1
1,3-Dichloropropane	ND		ug/kg	4.0	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.81	1
Bromobenzene	ND		ug/kg	4.0	1
n-Butylbenzene	ND		ug/kg	0.81	1
sec-Butylbenzene	ND		ug/kg	0.81	1
tert-Butylbenzene	ND		ug/kg	4.0	1
o-Chlorotoluene	ND		ug/kg	4.0	1
p-Chlorotoluene	ND		ug/kg	4.0	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	1
Isopropylbenzene	ND		ug/kg	0.81	1
p-Isopropyltoluene	ND		ug/kg	0.81	1
Naphthalene	ND		ug/kg	4.0	1
n-Propylbenzene	ND		ug/kg	0.81	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.0	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	1
Ethyl ether	ND		ug/kg	4.0	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711957-03  
 Client ID: SP-F3-20070817-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/17/07 10:50  
 Date Received: 08/17/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	3.2	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.2	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.2	1
1,4-Dioxane	ND		ug/kg	400	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	105		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

**Lab ID:** L0711957-04  
**Client ID:** SP-F4-20070817-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/22/07 12:37  
**Analyst:** GK  
**Percent Solids:** 78%

**Date Collected:** 08/17/07 10:55  
**Date Received:** 08/17/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	12	1
1,1-Dichloroethane	ND		ug/kg	1.8	1
Chloroform	ND		ug/kg	1.8	1
Carbon tetrachloride	ND		ug/kg	1.2	1
1,2-Dichloropropane	ND		ug/kg	4.2	1
Dibromochloromethane	ND		ug/kg	1.2	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	1
Tetrachloroethene	ND		ug/kg	1.2	1
Chlorobenzene	ND		ug/kg	1.2	1
Trichlorofluoromethane	ND		ug/kg	6.0	1
1,2-Dichloroethane	ND		ug/kg	1.2	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	1
Bromodichloromethane	ND		ug/kg	1.2	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	1
1,1-Dichloropropene	ND		ug/kg	6.0	1
Bromoform	ND		ug/kg	4.8	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	1
Benzene	ND		ug/kg	1.2	1
Toluene	ND		ug/kg	1.8	1
Ethylbenzene	ND		ug/kg	1.2	1
Chloromethane	ND		ug/kg	6.0	1
Bromomethane	ND		ug/kg	2.4	1
Vinyl chloride	ND		ug/kg	2.4	1
Chloroethane	ND		ug/kg	2.4	1
1,1-Dichloroethene	ND		ug/kg	1.2	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	1
Trichloroethene	2.3		ug/kg	1.2	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	1
1,3-Dichlorobenzene	ND		ug/kg	6.0	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711957-04  
 Client ID: SP-F4-20070817-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/17/07 10:55  
 Date Received: 08/17/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	6.0	1
Methyl tert butyl ether	ND		ug/kg	2.4	1
p/m-Xylene	ND		ug/kg	2.4	1
o-Xylene	ND		ug/kg	2.4	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	1
Dibromomethane	ND		ug/kg	12	1
1,2,3-Trichloropropane	ND		ug/kg	12	1
Styrene	ND		ug/kg	2.4	1
Dichlorodifluoromethane	ND		ug/kg	12	1
Acetone	44		ug/kg	12	1
Carbon disulfide	ND		ug/kg	60	1
2-Butanone	ND		ug/kg	12	1
4-Methyl-2-pentanone	ND		ug/kg	12	1
2-Hexanone	ND		ug/kg	12	1
Bromochloromethane	ND		ug/kg	6.0	1
Tetrahydrofuran	ND		ug/kg	24	1
2,2-Dichloropropane	ND		ug/kg	6.0	1
1,2-Dibromoethane	ND		ug/kg	4.8	1
1,3-Dichloropropane	ND		ug/kg	6.0	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	1
Bromobenzene	ND		ug/kg	6.0	1
n-Butylbenzene	ND		ug/kg	1.2	1
sec-Butylbenzene	ND		ug/kg	1.2	1
tert-Butylbenzene	ND		ug/kg	6.0	1
o-Chlorotoluene	ND		ug/kg	6.0	1
p-Chlorotoluene	ND		ug/kg	6.0	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	1
Hexachlorobutadiene	ND		ug/kg	6.0	1
Isopropylbenzene	ND		ug/kg	1.2	1
p-Isopropyltoluene	ND		ug/kg	1.2	1
Naphthalene	ND		ug/kg	6.0	1
n-Propylbenzene	ND		ug/kg	1.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.0	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.0	1
Ethyl ether	ND		ug/kg	6.0	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711957-04  
 Client ID: SP-F4-20070817-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/17/07 10:55  
 Date Received: 08/17/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.8	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.8	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.8	1
1,4-Dioxane	ND		ug/kg	600	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	101		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

**Lab ID:** L0711957-05  
**Client ID:** SP-F5-20070817-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Analytical Method:** 60,8260B  
**Analytical Date:** 08/22/07 13:12  
**Analyst:** GK  
**Percent Solids:** 78%

**Date Collected:** 08/17/07 11:00  
**Date Received:** 08/17/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	10	1
1,1-Dichloroethane	ND		ug/kg	1.6	1
Chloroform	ND		ug/kg	1.6	1
Carbon tetrachloride	ND		ug/kg	1.0	1
1,2-Dichloropropane	ND		ug/kg	3.6	1
Dibromochloromethane	ND		ug/kg	1.0	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	1
Tetrachloroethene	2.5		ug/kg	1.0	1
Chlorobenzene	ND		ug/kg	1.0	1
Trichlorofluoromethane	ND		ug/kg	5.2	1
1,2-Dichloroethane	ND		ug/kg	1.0	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	1
Bromodichloromethane	ND		ug/kg	1.0	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	1
1,1-Dichloropropene	ND		ug/kg	5.2	1
Bromoform	ND		ug/kg	4.1	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	1
Benzene	ND		ug/kg	1.0	1
Toluene	ND		ug/kg	1.6	1
Ethylbenzene	ND		ug/kg	1.0	1
Chloromethane	ND		ug/kg	5.2	1
Bromomethane	ND		ug/kg	2.1	1
Vinyl chloride	ND		ug/kg	2.1	1
Chloroethane	ND		ug/kg	2.1	1
1,1-Dichloroethene	ND		ug/kg	1.0	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	1
Trichloroethene	9.4		ug/kg	1.0	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	1



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711957-05  
 Client ID: SP-F5-20070817-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/17/07 11:00  
 Date Received: 08/17/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	5.2	1
Methyl tert butyl ether	ND		ug/kg	2.1	1
p/m-Xylene	ND		ug/kg	2.1	1
o-Xylene	ND		ug/kg	2.1	1
cis-1,2-Dichloroethene	1.2		ug/kg	1.0	1
Dibromomethane	ND		ug/kg	10	1
1,2,3-Trichloropropane	ND		ug/kg	10	1
Styrene	ND		ug/kg	2.1	1
Dichlorodifluoromethane	ND		ug/kg	10	1
Acetone	46		ug/kg	10	1
Carbon disulfide	ND		ug/kg	52	1
2-Butanone	ND		ug/kg	10	1
4-Methyl-2-pentanone	ND		ug/kg	10	1
2-Hexanone	ND		ug/kg	10	1
Bromochloromethane	ND		ug/kg	5.2	1
Tetrahydrofuran	ND		ug/kg	21	1
2,2-Dichloropropane	ND		ug/kg	5.2	1
1,2-Dibromoethane	ND		ug/kg	4.1	1
1,3-Dichloropropane	ND		ug/kg	5.2	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	1
Bromobenzene	ND		ug/kg	5.2	1
n-Butylbenzene	ND		ug/kg	1.0	1
sec-Butylbenzene	ND		ug/kg	1.0	1
tert-Butylbenzene	ND		ug/kg	5.2	1
o-Chlorotoluene	ND		ug/kg	5.2	1
p-Chlorotoluene	ND		ug/kg	5.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	1
Hexachlorobutadiene	ND		ug/kg	5.2	1
Isopropylbenzene	ND		ug/kg	1.0	1
p-Isopropyltoluene	ND		ug/kg	1.0	1
Naphthalene	ND		ug/kg	5.2	1
n-Propylbenzene	ND		ug/kg	1.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	1
Ethyl ether	ND		ug/kg	5.2	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711957-05  
 Client ID: SP-F5-20070817-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/17/07 11:00  
 Date Received: 08/17/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.1	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.1	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.1	1
1,4-Dioxane	ND		ug/kg	520	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	107		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

**Lab ID:** L0711957-06  
**Client ID:** SP-F6-20070817-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/22/07 13:47  
**Analyst:** GK  
**Percent Solids:** 77%

**Date Collected:** 08/17/07 11:05  
**Date Received:** 08/17/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	12	1
1,1-Dichloroethane	ND		ug/kg	1.8	1
Chloroform	ND		ug/kg	1.8	1
Carbon tetrachloride	ND		ug/kg	1.2	1
1,2-Dichloropropane	ND		ug/kg	4.3	1
Dibromochloromethane	ND		ug/kg	1.2	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	1
Tetrachloroethene	3.4		ug/kg	1.2	1
Chlorobenzene	ND		ug/kg	1.2	1
Trichlorofluoromethane	ND		ug/kg	6.1	1
1,2-Dichloroethane	ND		ug/kg	1.2	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	1
Bromodichloromethane	ND		ug/kg	1.2	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	1
1,1-Dichloropropene	ND		ug/kg	6.1	1
Bromoform	ND		ug/kg	4.9	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	1
Benzene	ND		ug/kg	1.2	1
Toluene	ND		ug/kg	1.8	1
Ethylbenzene	ND		ug/kg	1.2	1
Chloromethane	ND		ug/kg	6.1	1
Bromomethane	ND		ug/kg	2.4	1
Vinyl chloride	ND		ug/kg	2.4	1
Chloroethane	ND		ug/kg	2.4	1
1,1-Dichloroethene	ND		ug/kg	1.2	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	1
Trichloroethene	16		ug/kg	1.2	1
1,2-Dichlorobenzene	ND		ug/kg	6.1	1
1,3-Dichlorobenzene	ND		ug/kg	6.1	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711957-06  
 Client ID: SP-F6-20070817-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/17/07 11:05  
 Date Received: 08/17/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	6.1	1
Methyl tert butyl ether	ND		ug/kg	2.4	1
p/m-Xylene	ND		ug/kg	2.4	1
o-Xylene	ND		ug/kg	2.4	1
cis-1,2-Dichloroethene	2.7		ug/kg	1.2	1
Dibromomethane	ND		ug/kg	12	1
1,2,3-Trichloropropane	ND		ug/kg	12	1
Styrene	ND		ug/kg	2.4	1
Dichlorodifluoromethane	ND		ug/kg	12	1
Acetone	60		ug/kg	12	1
Carbon disulfide	ND		ug/kg	61	1
2-Butanone	ND		ug/kg	12	1
4-Methyl-2-pentanone	ND		ug/kg	12	1
2-Hexanone	ND		ug/kg	12	1
Bromochloromethane	ND		ug/kg	6.1	1
Tetrahydrofuran	ND		ug/kg	24	1
2,2-Dichloropropane	ND		ug/kg	6.1	1
1,2-Dibromoethane	ND		ug/kg	4.9	1
1,3-Dichloropropane	ND		ug/kg	6.1	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	1
Bromobenzene	ND		ug/kg	6.1	1
n-Butylbenzene	ND		ug/kg	1.2	1
sec-Butylbenzene	ND		ug/kg	1.2	1
tert-Butylbenzene	ND		ug/kg	6.1	1
o-Chlorotoluene	ND		ug/kg	6.1	1
p-Chlorotoluene	ND		ug/kg	6.1	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.1	1
Hexachlorobutadiene	ND		ug/kg	6.1	1
Isopropylbenzene	ND		ug/kg	1.2	1
p-Isopropyltoluene	ND		ug/kg	1.2	1
Naphthalene	ND		ug/kg	6.1	1
n-Propylbenzene	ND		ug/kg	1.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.1	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.1	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.1	1
Ethyl ether	ND		ug/kg	6.1	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711957-06  
 Client ID: SP-F6-20070817-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/17/07 11:05  
 Date Received: 08/17/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Isopropyl Ether	ND		ug/kg	4.9	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.9	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.9	1
1,4-Dioxane	ND		ug/kg	610	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	106		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

**Lab ID:** L0711957-07  
**Client ID:** DUP-001-20070817-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/22/07 14:21  
**Analyst:** GK  
**Percent Solids:** 77%

**Date Collected:** 08/18/07 00:00  
**Date Received:** 08/17/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	12	1
1,1-Dichloroethane	ND		ug/kg	1.8	1
Chloroform	ND		ug/kg	1.8	1
Carbon tetrachloride	ND		ug/kg	1.2	1
1,2-Dichloropropane	ND		ug/kg	4.2	1
Dibromochloromethane	ND		ug/kg	1.2	1
1,1,1-Trichloroethane	ND		ug/kg	1.8	1
Tetrachloroethene	92		ug/kg	1.2	1
Chlorobenzene	ND		ug/kg	1.2	1
Trichlorofluoromethane	ND		ug/kg	6.0	1
1,2-Dichloroethane	ND		ug/kg	1.2	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	1
Bromodichloromethane	ND		ug/kg	1.2	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	1
1,1-Dichloropropene	ND		ug/kg	6.0	1
Bromoform	ND		ug/kg	4.8	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	1
Benzene	ND		ug/kg	1.2	1
Toluene	4.0		ug/kg	1.8	1
Ethylbenzene	ND		ug/kg	1.2	1
Chloromethane	ND		ug/kg	6.0	1
Bromomethane	ND		ug/kg	2.4	1
Vinyl chloride	ND		ug/kg	2.4	1
Chloroethane	ND		ug/kg	2.4	1
1,1-Dichloroethene	ND		ug/kg	1.2	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	1
Trichloroethene	>280		ug/kg	1.2	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	1
1,3-Dichlorobenzene	ND		ug/kg	6.0	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711957-07  
 Client ID: DUP-001-20070817-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/18/07 00:00  
 Date Received: 08/17/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	6.0	1
Methyl tert butyl ether	ND		ug/kg	2.4	1
p/m-Xylene	ND		ug/kg	2.4	1
o-Xylene	ND		ug/kg	2.4	1
cis-1,2-Dichloroethene	62		ug/kg	1.2	1
Dibromomethane	ND		ug/kg	12	1
1,2,3-Trichloropropane	ND		ug/kg	12	1
Styrene	ND		ug/kg	2.4	1
Dichlorodifluoromethane	ND		ug/kg	12	1
Acetone	42		ug/kg	12	1
Carbon disulfide	ND		ug/kg	60	1
2-Butanone	ND		ug/kg	12	1
4-Methyl-2-pentanone	ND		ug/kg	12	1
2-Hexanone	ND		ug/kg	12	1
Bromochloromethane	ND		ug/kg	6.0	1
Tetrahydrofuran	ND		ug/kg	24	1
2,2-Dichloropropane	ND		ug/kg	6.0	1
1,2-Dibromoethane	ND		ug/kg	4.8	1
1,3-Dichloropropane	ND		ug/kg	6.0	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	1
Bromobenzene	ND		ug/kg	6.0	1
n-Butylbenzene	ND		ug/kg	1.2	1
sec-Butylbenzene	ND		ug/kg	1.2	1
tert-Butylbenzene	ND		ug/kg	6.0	1
o-Chlorotoluene	ND		ug/kg	6.0	1
p-Chlorotoluene	ND		ug/kg	6.0	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	1
Hexachlorobutadiene	ND		ug/kg	6.0	1
Isopropylbenzene	ND		ug/kg	1.2	1
p-Isopropyltoluene	ND		ug/kg	1.2	1
Naphthalene	ND		ug/kg	6.0	1
n-Propylbenzene	ND		ug/kg	1.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.0	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.0	1
Ethyl ether	ND		ug/kg	6.0	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711957-07  
 Client ID: DUP-001-20070817-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/18/07 00:00  
 Date Received: 08/17/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.8	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.8	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.8	1
1,4-Dioxane	ND		ug/kg	600	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711957-07  
 Client ID: DUP-001-20070817-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil  
 Analytical Method: 60,8260B  
 Analytical Date: 08/22/07 15:27  
 Analyst: PD  
 Percent Solids: 77%

Date Collected: 08/18/07 00:00  
 Date Received: 08/17/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Methylene chloride	ND		ug/kg	820	1
1,1-Dichloroethane	ND		ug/kg	120	1
Chloroform	ND		ug/kg	120	1
Carbon tetrachloride	ND		ug/kg	82	1
1,2-Dichloropropane	ND		ug/kg	280	1
Dibromochloromethane	ND		ug/kg	82	1
1,1,2-Trichloroethane	ND		ug/kg	120	1
Tetrachloroethene	160		ug/kg	82	1
Chlorobenzene	ND		ug/kg	82	1
Trichlorofluoromethane	ND		ug/kg	410	1
1,2-Dichloroethane	ND		ug/kg	82	1
1,1,1-Trichloroethane	ND		ug/kg	82	1
Bromodichloromethane	ND		ug/kg	82	1
trans-1,3-Dichloropropene	ND		ug/kg	82	1
cis-1,3-Dichloropropene	ND		ug/kg	82	1
1,1-Dichloropropene	ND		ug/kg	410	1
Bromoform	ND		ug/kg	330	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	82	1
Benzene	ND		ug/kg	82	1
Toluene	ND		ug/kg	120	1
Ethylbenzene	ND		ug/kg	82	1
Chloromethane	ND		ug/kg	410	1
Bromomethane	ND		ug/kg	160	1
Vinyl chloride	ND		ug/kg	160	1
Chloroethane	ND		ug/kg	160	1
1,1-Dichloroethene	ND		ug/kg	82	1
trans-1,2-Dichloroethene	ND		ug/kg	120	1
Trichloroethene	1200		ug/kg	82	1
1,2-Dichlorobenzene	ND		ug/kg	410	1
1,3-Dichlorobenzene	ND		ug/kg	410	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711957-07  
 Client ID: DUP-001-20070817-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/18/07 00:00  
 Date Received: 08/17/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
1,4-Dichlorobenzene	ND		ug/kg	410	1
Methyl tert butyl ether	ND		ug/kg	160	1
p/m-Xylene	ND		ug/kg	160	1
o-Xylene	ND		ug/kg	160	1
cis-1,2-Dichloroethene	ND		ug/kg	82	1
Dibromomethane	ND		ug/kg	820	1
1,2,3-Trichloropropane	ND		ug/kg	820	1
Styrene	ND		ug/kg	160	1
Dichlorodifluoromethane	ND		ug/kg	820	1
Acetone	ND		ug/kg	820	1
Carbon disulfide	ND		ug/kg	4100	1
2-Butanone	ND		ug/kg	820	1
4-Methyl-2-pentanone	ND		ug/kg	820	1
2-Hexanone	ND		ug/kg	820	1
Bromochloromethane	ND		ug/kg	410	1
Tetrahydrofuran	ND		ug/kg	1600	1
2,2-Dichloropropane	ND		ug/kg	410	1
1,2-Dibromoethane	ND		ug/kg	330	1
1,3-Dichloropropane	ND		ug/kg	410	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	82	1
Bromobenzene	ND		ug/kg	410	1
n-Butylbenzene	ND		ug/kg	82	1
sec-Butylbenzene	ND		ug/kg	82	1
tert-Butylbenzene	ND		ug/kg	410	1
o-Chlorotoluene	ND		ug/kg	410	1
p-Chlorotoluene	ND		ug/kg	410	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	410	1
Hexachlorobutadiene	ND		ug/kg	410	1
Isopropylbenzene	ND		ug/kg	82	1
p-Isopropyltoluene	ND		ug/kg	82	1
Naphthalene	ND		ug/kg	410	1
n-Propylbenzene	ND		ug/kg	82	1
1,2,3-Trichlorobenzene	ND		ug/kg	410	1
1,2,4-Trichlorobenzene	ND		ug/kg	410	1
1,3,5-Trimethylbenzene	ND		ug/kg	410	1
1,2,4-Trimethylbenzene	ND		ug/kg	410	1
Ethyl ether	ND		ug/kg	410	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711957-07  
 Client ID: DUP-001-20070817-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/18/07 00:00  
 Date Received: 08/17/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-High					
Isopropyl Ether	ND		ug/kg	330	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	330	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	330	1
1,4-Dioxane	ND		ug/kg	41000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	100		70-130

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711957  
**Report Date:** 08/22/07

**Method Blank Analysis  
Batch Quality Control**

**Analytical Method:** 60,8260B  
**Analytical Date:** 08/22/07 09:49  
**Analyst:** PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 01-02,07 Batch: WG291473-3				
Methylene chloride	ND		ug/kg	500
1,1-Dichloroethane	ND		ug/kg	75
Chloroform	ND		ug/kg	75
Carbon tetrachloride	ND		ug/kg	50
1,2-Dichloropropane	ND		ug/kg	180
Dibromochloromethane	ND		ug/kg	50
1,1,2-Trichloroethane	ND		ug/kg	75
Tetrachloroethene	ND		ug/kg	50
Chlorobenzene	ND		ug/kg	50
Trichlorofluoromethane	ND		ug/kg	250
1,2-Dichloroethane	ND		ug/kg	50
1,1,1-Trichloroethane	ND		ug/kg	50
Bromodichloromethane	ND		ug/kg	50
trans-1,3-Dichloropropene	ND		ug/kg	50
cis-1,3-Dichloropropene	ND		ug/kg	50
1,1-Dichloropropene	ND		ug/kg	250
Bromoform	ND		ug/kg	200
1,1,2,2-Tetrachloroethane	ND		ug/kg	50
Benzene	ND		ug/kg	50
Toluene	ND		ug/kg	75
Ethylbenzene	ND		ug/kg	50
Chloromethane	ND		ug/kg	250
Bromomethane	ND		ug/kg	100
Vinyl chloride	ND		ug/kg	100
Chloroethane	ND		ug/kg	100
1,1-Dichloroethene	ND		ug/kg	50
trans-1,2-Dichloroethene	ND		ug/kg	75
Trichloroethene	ND		ug/kg	50
1,2-Dichlorobenzene	ND		ug/kg	250
1,3-Dichlorobenzene	ND		ug/kg	250
1,4-Dichlorobenzene	ND		ug/kg	250

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711957  
**Report Date:** 08/22/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/22/07 09:49  
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 01-02,07 Batch: WG291473-3				
Methyl tert butyl ether	ND		ug/kg	100
p/m-Xylene	ND		ug/kg	100
o-Xylene	ND		ug/kg	100
cis-1,2-Dichloroethene	ND		ug/kg	50
Dibromomethane	ND		ug/kg	500
1,2,3-Trichloropropane	ND		ug/kg	500
Styrene	ND		ug/kg	100
Dichlorodifluoromethane	ND		ug/kg	500
Acetone	ND		ug/kg	500
Carbon disulfide	ND		ug/kg	2500
2-Butanone	ND		ug/kg	500
4-Methyl-2-pentanone	ND		ug/kg	500
2-Hexanone	ND		ug/kg	500
Bromochloromethane	ND		ug/kg	250
Tetrahydrofuran	ND		ug/kg	1000
2,2-Dichloropropane	ND		ug/kg	250
1,2-Dibromoethane	ND		ug/kg	200
1,3-Dichloropropane	ND		ug/kg	250
1,1,1,2-Tetrachloroethane	ND		ug/kg	50
Bromobenzene	ND		ug/kg	250
n-Butylbenzene	ND		ug/kg	50
sec-Butylbenzene	ND		ug/kg	50
tert-Butylbenzene	ND		ug/kg	250
o-Chlorotoluene	ND		ug/kg	250
p-Chlorotoluene	ND		ug/kg	250
1,2-Dibromo-3-chloropropane	ND		ug/kg	250
Hexachlorobutadiene	ND		ug/kg	250
Isopropylbenzene	ND		ug/kg	50
p-Isopropyltoluene	ND		ug/kg	50
Naphthalene	ND		ug/kg	250
n-Propylbenzene	ND		ug/kg	50



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711957  
**Report Date:** 08/22/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/22/07 09:49  
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 01-02,07 Batch: WG291473-3				
1,2,3-Trichlorobenzene	ND		ug/kg	250
1,2,4-Trichlorobenzene	ND		ug/kg	250
1,3,5-Trimethylbenzene	ND		ug/kg	250
1,2,4-Trimethylbenzene	ND		ug/kg	250
Ethyl ether	ND		ug/kg	250
Isopropyl Ether	ND		ug/kg	200
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200
Tertiary-Amyl Methyl Ether	ND		ug/kg	200
1,4-Dioxane	ND		ug/kg	25000

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	101		70-130

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711957  
**Report Date:** 08/22/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/22/07 11:28  
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 03-07 Batch: WG291474-3				
Methylene chloride	ND		ug/kg	10
1,1-Dichloroethane	ND		ug/kg	1.5
Chloroform	ND		ug/kg	1.5
Carbon tetrachloride	ND		ug/kg	1.0
1,2-Dichloropropane	ND		ug/kg	3.5
Dibromochloromethane	ND		ug/kg	1.0
1,1,2-Trichloroethane	ND		ug/kg	1.5
Tetrachloroethene	ND		ug/kg	1.0
Chlorobenzene	ND		ug/kg	1.0
Trichlorofluoromethane	ND		ug/kg	5.0
1,2-Dichloroethane	ND		ug/kg	1.0
1,1,1-Trichloroethane	ND		ug/kg	1.0
Bromodichloromethane	ND		ug/kg	1.0
trans-1,3-Dichloropropene	ND		ug/kg	1.0
cis-1,3-Dichloropropene	ND		ug/kg	1.0
1,1-Dichloropropene	ND		ug/kg	5.0
Bromoform	ND		ug/kg	4.0
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0
Benzene	ND		ug/kg	1.0
Toluene	ND		ug/kg	1.5
Ethylbenzene	ND		ug/kg	1.0
Chloromethane	ND		ug/kg	5.0
Bromomethane	ND		ug/kg	2.0
Vinyl chloride	ND		ug/kg	2.0
Chloroethane	ND		ug/kg	2.0
1,1-Dichloroethene	ND		ug/kg	1.0
trans-1,2-Dichloroethene	ND		ug/kg	1.5
Trichloroethene	ND		ug/kg	1.0
1,2-Dichlorobenzene	ND		ug/kg	5.0
1,3-Dichlorobenzene	ND		ug/kg	5.0
1,4-Dichlorobenzene	ND		ug/kg	5.0



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711957  
**Report Date:** 08/22/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/22/07 11:28  
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 03-07 Batch: WG291474-3				
Methyl tert butyl ether	ND		ug/kg	2.0
p/m-Xylene	ND		ug/kg	2.0
o-Xylene	ND		ug/kg	2.0
cis-1,2-Dichloroethene	ND		ug/kg	1.0
Dibromomethane	ND		ug/kg	10
1,2,3-Trichloropropane	ND		ug/kg	10
Styrene	ND		ug/kg	2.0
Dichlorodifluoromethane	ND		ug/kg	10
Acetone	ND		ug/kg	10
Carbon disulfide	ND		ug/kg	50
2-Butanone	ND		ug/kg	10
4-Methyl-2-pentanone	ND		ug/kg	10
2-Hexanone	ND		ug/kg	10
Bromochloromethane	ND		ug/kg	5.0
Tetrahydrofuran	ND		ug/kg	20
2,2-Dichloropropane	ND		ug/kg	5.0
1,2-Dibromoethane	ND		ug/kg	4.0
1,3-Dichloropropane	ND		ug/kg	5.0
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0
Bromobenzene	ND		ug/kg	5.0
n-Butylbenzene	ND		ug/kg	1.0
sec-Butylbenzene	ND		ug/kg	1.0
tert-Butylbenzene	ND		ug/kg	5.0
o-Chlorotoluene	ND		ug/kg	5.0
p-Chlorotoluene	ND		ug/kg	5.0
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0
Hexachlorobutadiene	ND		ug/kg	5.0
Isopropylbenzene	ND		ug/kg	1.0
p-Isopropyltoluene	ND		ug/kg	1.0
Naphthalene	ND		ug/kg	5.0
n-Propylbenzene	ND		ug/kg	1.0



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711957  
**Report Date:** 08/22/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/22/07 11:28  
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 03-07 Batch: WG291474-3				
1,2,3-Trichlorobenzene	ND		ug/kg	5.0
1,2,4-Trichlorobenzene	ND		ug/kg	5.0
1,3,5-Trimethylbenzene	ND		ug/kg	5.0
1,2,4-Trimethylbenzene	ND		ug/kg	5.0
Ethyl ether	ND		ug/kg	5.0
Isopropyl Ether	ND		ug/kg	4.0
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0
1,4-Dioxane	ND		ug/kg	500

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	104		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0711957

**Report Date:** 08/22/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 01-02,07 Batch: WG291473-1 WG291473-2					
Methylene chloride	109	93	70-130	16	25
1,1-Dichloroethane	114	96	70-130	17	25
Chloroform	108	91	70-130	17	25
Carbon tetrachloride	104	88	70-130	17	25
1,2-Dichloropropane	114	97	70-130	16	25
Dibromochloromethane	88	74	70-130	17	25
1,1,2-Trichloroethane	116	97	70-130	18	25
Tetrachloroethene	112	93	70-130	19	25
Chlorobenzene	114	96	70-130	17	25
Trichlorofluoromethane	128	108	70-130	17	25
1,2-Dichloroethane	119	100	70-130	17	25
1,1,1-Trichloroethane	108	92	70-130	16	25
Bromodichloromethane	103	85	70-130	19	25
trans-1,3-Dichloropropene	97	80	70-130	19	25
cis-1,3-Dichloropropene	98	82	70-130	18	25
1,1-Dichloropropene	110	92	70-130	18	25
Bromoform	99	82	70-130	19	50
1,1,2,2-Tetrachloroethane	94	80	70-130	16	25
Benzene	113	95	70-130	17	25
Toluene	115	95	70-130	19	25
Ethylbenzene	120	99	70-130	19	25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0711957

**Report Date:** 08/22/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 01-02,07 Batch: WG291473-1 WG291473-2					
Chloromethane	107	94	70-130	13	50
Bromomethane	80	80	70-130	0	50
Vinyl chloride	119	107	70-130	11	25
Chloroethane	119	98	70-130	19	25
1,1-Dichloroethene	112	96	70-130	15	25
trans-1,2-Dichloroethene	103	89	70-130	15	25
Trichloroethene	107	90	70-130	17	25
1,2-Dichlorobenzene	110	94	70-130	16	25
1,3-Dichlorobenzene	114	95	70-130	18	25
1,4-Dichlorobenzene	111	94	70-130	17	25
Methyl tert butyl ether	95	86	70-130	10	25
p/m-Xylene	113	93	70-130	19	25
o-Xylene	116	97	70-130	18	25
cis-1,2-Dichloroethene	102	84	70-130	19	25
Dibromomethane	121	101	70-130	18	25
1,2,3-Trichloropropane	122	104	70-130	16	25
Styrene	118	98	70-130	19	25
Dichlorodifluoromethane	118	102	70-130	15	50
Acetone	128	114	70-130	12	50
Carbon disulfide	88	74	70-130	17	25
2-Butanone	114	100	70-130	13	50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0711957

**Report Date:** 08/22/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 01-02,07 Batch: WG291473-1 WG291473-2					
4-Methyl-2-pentanone	103	86	70-130	18	50
2-Hexanone	104	91	70-130	13	50
Bromochloromethane	101	84	70-130	18	25
Tetrahydrofuran	94	84	70-130	11	25
2,2-Dichloropropane	103	88	70-130	16	50
1,2-Dibromoethane	104	86	70-130	19	25
1,3-Dichloropropane	119	100	70-130	17	25
1,1,1,2-Tetrachloroethane	104	86	70-130	19	25
Bromobenzene	110	94	70-130	16	25
n-Butylbenzene	92	74	70-130	22	25
sec-Butylbenzene	117	96	70-130	20	25
tert-Butylbenzene	114	94	70-130	19	25
o-Chlorotoluene	115	98	70-130	16	25
p-Chlorotoluene	118	99	70-130	18	25
1,2-Dibromo-3-chloropropane	90	79	70-130	13	50
Hexachlorobutadiene	97	80	70-130	19	25
Isopropylbenzene	117	96	70-130	20	25
p-Isopropyltoluene	113	92	70-130	20	25
Naphthalene	94	81	70-130	15	25
n-Propylbenzene	118	98	70-130	19	25
1,2,3-Trichlorobenzene	95	82	70-130	15	25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711957  
**Report Date:** 08/22/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 01-02,07 Batch: WG291473-1 WG291473-2					
1,2,4-Trichlorobenzene	92	78	70-130	16	25
1,3,5-Trimethylbenzene	109	91	70-130	18	25
1,2,4-Trimethylbenzene	115	96	70-130	18	25
Ethyl ether	118	106	70-130	11	25
Isopropyl Ether	105	98	70-130	7	25
Ethyl-Tert-Butyl-Ether	102	92	70-130	10	25
Tertiary-Amyl Methyl Ether	99	90	70-130	10	25
1,4-Dioxane	108	101	70-130	7	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106	106	70-130
Toluene-d8	104	105	70-130
4-Bromofluorobenzene	98	98	70-130
Dibromofluoromethane	98	98	70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0711957

**Report Date:** 08/22/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 03-07 Batch: WG291474-1 WG291474-2					
Methylene chloride	84	87	70-130	4	25
1,1-Dichloroethane	108	109	70-130	1	25
Chloroform	116	115	70-130	1	25
Carbon tetrachloride	115	116	70-130	1	25
1,2-Dichloropropane	104	100	70-130	4	25
Dibromochloromethane	106	101	70-130	5	25
1,1,2-Trichloroethane	108	102	70-130	6	25
Tetrachloroethene	105	103	70-130	2	25
Chlorobenzene	101	98	70-130	3	25
Trichlorofluoromethane	128	126	70-130	2	25
1,2-Dichloroethane	125	124	70-130	1	25
1,1,1-Trichloroethane	118	118	70-130	0	25
Bromodichloromethane	117	118	70-130	1	25
trans-1,3-Dichloropropene	100	98	70-130	2	25
cis-1,3-Dichloropropene	97	98	70-130	1	25
1,1-Dichloropropene	109	108	70-130	1	25
Bromoform	107	102	70-130	5	50
1,1,2,2-Tetrachloroethane	106	103	70-130	3	25
Benzene	104	103	70-130	1	25
Toluene	102	97	70-130	5	25
Ethylbenzene	109	107	70-130	2	25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0711957

**Report Date:** 08/22/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 03-07 Batch: WG291474-1 WG291474-2					
Chloromethane	101	99	70-130	2	50
Bromomethane	129	128	70-130	1	50
Vinyl chloride	109	107	70-130	2	25
Chloroethane	127	125	70-130	2	25
1,1-Dichloroethene	104	106	70-130	2	25
trans-1,2-Dichloroethene	104	105	70-130	1	25
Trichloroethene	112	108	70-130	4	25
1,2-Dichlorobenzene	105	103	70-130	2	25
1,3-Dichlorobenzene	106	104	70-130	2	25
1,4-Dichlorobenzene	104	101	70-130	3	25
Methyl tert butyl ether	97	94	70-130	3	25
p/m-Xylene	104	103	70-130	1	25
o-Xylene	106	102	70-130	4	25
cis-1,2-Dichloroethene	109	104	70-130	5	25
Dibromomethane	116	116	70-130	0	25
1,2,3-Trichloropropane	122	112	70-130	9	25
Styrene	105	102	70-130	3	25
Dichlorodifluoromethane	73	73	70-130	0	50
Acetone	123	107	70-130	14	50
Carbon disulfide	81	80	70-130	1	25
2-Butanone	107	94	70-130	13	50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0711957

**Report Date:** 08/22/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 03-07 Batch: WG291474-1 WG291474-2					
4-Methyl-2-pentanone	112	112	70-130	0	50
2-Hexanone	112	105	70-130	6	50
Bromochloromethane	105	99	70-130	6	25
Tetrahydrofuran	101	94	70-130	7	25
2,2-Dichloropropane	74	77	70-130	4	50
1,2-Dibromoethane	110	108	70-130	2	25
1,3-Dichloropropane	109	106	70-130	3	25
1,1,1,2-Tetrachloroethane	112	108	70-130	4	25
Bromobenzene	102	103	70-130	1	25
n-Butylbenzene	90	87	70-130	3	25
sec-Butylbenzene	112	108	70-130	4	25
tert-Butylbenzene	109	106	70-130	3	25
o-Chlorotoluene	109	107	70-130	2	25
p-Chlorotoluene	110	106	70-130	4	25
1,2-Dibromo-3-chloropropane	113	109	70-130	4	50
Hexachlorobutadiene	109	105	70-130	4	25
Isopropylbenzene	115	113	70-130	2	25
p-Isopropyltoluene	115	112	70-130	3	25
Naphthalene	113	106	70-130	6	25
n-Propylbenzene	109	105	70-130	4	25
1,2,3-Trichlorobenzene	112	106	70-130	6	25



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711957  
**Report Date:** 08/22/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 03-07 Batch: WG291474-1 WG291474-2					
1,2,4-Trichlorobenzene	110	105	70-130	5	25
1,3,5-Trimethylbenzene	108	105	70-130	3	25
1,2,4-Trimethylbenzene	111	108	70-130	3	25
Ethyl ether	123	125	70-130	2	25
Isopropyl Ether	105	104	70-130	1	25
Ethyl-Tert-Butyl-Ether	101	102	70-130	1	25
Tertiary-Amyl Methyl Ether	101	106	70-130	5	25
1,4-Dioxane	112	109	70-130	3	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111	111	70-130
Toluene-d8	97	96	70-130
4-Bromofluorobenzene	103	103	70-130
Dibromofluoromethane	106	109	70-130

# **INORGANICS & MISCELLANEOUS**

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711957  
**Report Date:** 08/22/07

### SAMPLE RESULTS

**Lab ID:** L0711957-01  
**Client ID:** SP-F1-20070817-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/17/07 10:40  
**Date Received:** 08/17/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	78		%	0.10	1	-	08/20/07 12:25	30,2540G	SD



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711957  
**Report Date:** 08/22/07

### SAMPLE RESULTS

**Lab ID:** L0711957-02  
**Client ID:** SP-F2-20070817-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/17/07 10:45  
**Date Received:** 08/17/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	80		%	0.10	1	-	08/20/07 12:25	30,2540G	SD



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711957  
**Report Date:** 08/22/07

### SAMPLE RESULTS

**Lab ID:** L0711957-03  
**Client ID:** SP-F3-20070817-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/17/07 10:50  
**Date Received:** 08/17/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	77		%	0.10	1	-	08/20/07 12:25	30,2540G	SD



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711957  
**Report Date:** 08/22/07

### SAMPLE RESULTS

Lab ID: L0711957-04  
 Client ID: SP-F4-20070817-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil

Date Collected: 08/17/07 10:55  
 Date Received: 08/17/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	78		%	0.10	1	-	08/20/07 12:25	30,2540G	SD



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**SAMPLE RESULTS**

Lab ID: L0711957-05  
 Client ID: SP-F5-20070817-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil

Date Collected: 08/17/07 11:00  
 Date Received: 08/17/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	78		%	0.10	1	-	08/20/07 12:25	30,2540G	SD



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711957  
**Report Date:** 08/22/07

### SAMPLE RESULTS

**Lab ID:** L0711957-06  
**Client ID:** SP-F6-20070817-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/17/07 11:05  
**Date Received:** 08/17/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	77		%	0.10	1	-	08/20/07 12:25	30,2540G	SD





**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711957  
**Report Date:** 08/22/07

### SAMPLE RESULTS

**Lab ID:** L0711957-07  
**Client ID:** DUP-001-20070817-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/18/07 00:00  
**Date Received:** 08/17/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	77		%	0.10	1	-	08/20/07 12:25	30,2540G	SD



**Lab Duplicate Analysis**  
Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0711957

**Report Date:** 08/22/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Associated sample(s): 01-07 QC Batch ID: WG291165-1 QC Sample: L0711850-01 Client ID: DUP Sample					
Solids, Total	91	91	%	0	20

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0711957**Project Number:** 0051545**Report Date:** 08/22/07**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information**

Cooler	Custody Seal
A	Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0711957-01A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260H-04
L0711957-01B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260H-04
L0711957-01D	Plastic 120ml unpreserved	A	N/A	2C	Y	Absent	TS
L0711957-02A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260H-04
L0711957-02B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260H-04
L0711957-02D	Plastic 120ml unpreserved	A	N/A	2C	Y	Absent	TS
L0711957-03A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0711957-03B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0711957-03D	Plastic 120ml unpreserved	A	N/A	2C	Y	Absent	TS
L0711957-04A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0711957-04B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0711957-04D	Plastic 120ml unpreserved	A	N/A	2C	Y	Absent	TS
L0711957-05A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0711957-05B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0711957-05D	Plastic 120ml unpreserved	A	N/A	2C	Y	Absent	TS
L0711957-06A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0711957-06B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0711957-06D	Plastic 120ml unpreserved	A	N/A	2C	Y	Absent	TS
L0711957-07A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260H-04,MCP-8260LW-04
L0711957-07B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0711957-07D	Plastic 120ml unpreserved	A	N/A	2C	Y	Absent	TS

**Container Comments**

L0711957-01A	Temp Probe
L0711957-01B	Temp Probe
L0711957-01D	Temp Probe
L0711957-02A	Temp Probe
L0711957-02B	Temp Probe
L0711957-02D	Temp Probe

**Project Name:** NA SOIL EXCAVATION**Project Number:** 0051545**Lab Number:** L0711957**Report Date:** 08/22/07**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>pH</b>	<b>Temp</b>	<b>Pres</b>	<b>Seal</b>	<b>Analysis</b>
---------------------	-----------------------	---------------	-----------	-------------	-------------	-------------	-----------------

**Container Comments**

L0711957-03A Temp Probe

L0711957-03B Temp Probe

L0711957-03D Temp Probe

L0711957-04A Temp Probe

L0711957-04B Temp Probe

L0711957-04D Temp Probe

L0711957-05A Temp Probe

L0711957-05B Temp Probe

L0711957-05D Temp Probe

L0711957-06A Temp Probe

L0711957-06B Temp Probe

L0711957-06D Temp Probe

L0711957-07A Temp Probe

L0711957-07B Temp Probe

L0711957-07D Temp Probe

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711957  
**Report Date:** 08/22/07

## GLOSSARY

### Acronyms

- EPA - Environmental Protection Agency.  
LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.  
LCSD- Laboratory Control Sample Duplicate: Refer to LCS.  
MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.  
MSD - Matrix Spike Sample Duplicate: Refer to MS.  
NA - Not Applicable.  
NI - Not Ignitable.  
NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.  
ND - Not detected at the reported detection limit for the sample.  
RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.  
RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

- A - Spectra identified as "Aldol Condensation Product".  
B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.  
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.  
J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

### Standard Qualifiers

- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0711957  
**Report Date:** 08/22/07

## REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

## LIMITATION OF LIABILITIES

Alpha Woods Hole Labs performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



08220718:10



# CHAIN OF CUSTODY

PAGE 1 OF 1

WESTBORO, MA RAYNHAM, MA  
 TEL: 508-898-9220 TEL: 508-822-9300  
 FAX: 508-898-9193 FAX: 508-822-3288

Date Rec'd in Lab: 8/17

ALPHA Job #: L0711957

### Client Information

Client: ERM - BOSTON  
 Address: 399 BOYLSTON ST 6<sup>TH</sup> FLOOR  
BOSTON, MA 02116  
 Phone: (617) 646-7300  
 Fax: (617) 267-6447  
 Email: jason.flattey@erm.com

### Project Information

Project Name: NA SOIL EXCAVATION  
 Project Location: RAYTHEON - WAYSAND  
 Project #: 0051545  
 Project Manager: JASON FLATTERY  
 ALPHA Quote #:

### Report Information - Data Deliverables

FAX  EMAIL  
 ADEX  Add'l Deliverables

### Billing Information

Same as Client info PO #:

### Regulatory Requirements/Report Limits

State /Fed Program: MCP Criteria: S2 & GW-1  
**MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS**

### Turn-Around Time

Standard  RUSH (only confirmed if pre-approved!)  
 Date Due: 3-day Time: 8/22/07

Yes  No Are MCP Analytical Methods Required?  
 Yes  No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS

VOCs High (8260)

VOCs low (8260)

TOTAL SOLIDS

TOTAL AS-CU

SAMPLE HANDLING

Filtration

Done

Not needed

Lab to do

Preservation

Lab to do

(Please specify below)

JDF

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials				Sample Specific Comments
		Date	Time						
11957-1	SP-F1-20070817-01	8/17/07	10:40	S	BM	X	X	X	
2	SP-F2-20070817-01		10:45			X	X	X	
3	SP-F3-20070817-01		10:50			X	X	X	
4	SP-F4-20070817-01		10:55			X	X	X	
5	SP-F5-20070817-01		11:00			X	X	X	
6	SP-F6-20070817-01		11:05			X	X	X	
	DUP-001-20070817-01		24:00			X	X	X	
	<del>FL06 INF-20070817-01</del>		<del>11:15</del>		GW			X	(JDF)
	<del>FL06 EFF-20070817-01</del>		<del>11:20</del>		GW			X	(JDF)

PLEASE ANSWER QUESTIONS ABOVE!

Container Type	V V P P
Preservative	MCH H <sub>2</sub> O N/A C

IS YOUR PROJECT  
 MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	8/17/07 14:20		8/17/07 14:20
	8/17/07		8/17/07 18:00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities resolved. All samples submitted subject to Alpha's Payment Terms. See reverse side.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

**Client:** ERM-New England **Laboratory Job Number:** L0711774  
**Address:** 399 Boylston Street  
6th Floor **Date Received:** 15-AUG-2007  
Boston, MA 02116 **Date Reported:** 22-AUG-2007  
**Attn:** Mr. Jason Flattery **Delivery Method:** Alpha  
**Project Number:** 0051545  
**Site:** NA EXCAVATION

---

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0711774-01	SP-F1-20070815-01	RAYTHEON WAYLAND
L0711774-02	SP-F2-20070815-01	RAYTHEON WAYLAND
L0711774-03	SP-F3-20070815-01	RAYTHEON WAYLAND
L0711774-04	SP-F4-20070815-01	RAYTHEON WAYLAND
L0711774-05	SP-F5-20070815-01	RAYTHEON WAYLAND
L0711774-06	SP-F6-20070815-01	RAYTHEON WAYLAND

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

---

Authorized by: Michelle M. Morris  
Technical Representative



ALPHA ANALYTICAL LABORATORIES  
NARRATIVE REPORT

Laboratory Job Number: L0711774

---

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number:	L0711774-01	Date Collected:	15-AUG-2007 08:30
	SP-F1-20070815-01	Date Received :	15-AUG-2007
Sample Matrix:	SOIL	Date Reported :	22-AUG-2007
Condition of Sample:	Satisfactory	Field Prep:	None
Number & Type of Containers:	1-Amber,1-Vial		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP      ANAL	ID	
TCLP Herbicides by GC				1	8151A(M)	0816 17:00 0821 14:35	JB
TCLP Extraction				1	1311	0815 21:30	
2,4-D	ND	mg/l	0.03				
2,4,5-TP (Silvex)	ND	mg/l	0.003				
Surrogate(s)	Recovery		QC Criteria				
DCAA	30.0	%					
TCLP Volatile Organics				1	8260B	0822 00:04	PD
TCLP Extraction				1	1311	0816 15:10	
Chloroform	ND	ug/l	7.5				
Carbon tetrachloride	ND	ug/l	5.0				
Tetrachloroethene	8.5	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	5.0				
Benzene	ND	ug/l	5.0				
Vinyl chloride	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	5.0				
Trichloroethene	45	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	25.				
2-Butanone	ND	ug/l	50.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	107	%	70-130				
Toluene-d8	101	%	70-130				
4-Bromofluorobenzene	106	%	70-130				
Dibromofluoromethane	104	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

<b>Laboratory Sample Number:</b> L0711774-02	<b>Date Collected:</b> 15-AUG-2007 08:35
SP-F2-20070815-01	<b>Date Received :</b> 15-AUG-2007
<b>Sample Matrix:</b> SOIL	<b>Date Reported :</b> 22-AUG-2007
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 1-Amber,1-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID	
TCLP Herbicides by GC				1	8151A(M)	0816 17:00 0821 15:24	JB
TCLP Extraction				1	1311	0815 21:30	
2,4-D	ND	mg/l	0.03				
2,4,5-TP (Silvex)	ND	mg/l	0.003				
Surrogate(s)	Recovery			QC Criteria			
DCAA	59.0	%					
TCLP Volatile Organics				1	8260B	0822 00:41	PD
TCLP Extraction				1	1311	0816 15:10	
Chloroform	ND	ug/l	7.5				
Carbon tetrachloride	ND	ug/l	5.0				
Tetrachloroethene	6.2	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	5.0				
Benzene	ND	ug/l	5.0				
Vinyl chloride	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	5.0				
Trichloroethene	31	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	25.				
2-Butanone	ND	ug/l	50.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	108	%	70-130				
Toluene-d8	100	%	70-130				
4-Bromofluorobenzene	107	%	70-130				
Dibromofluoromethane	105	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I





**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

<b>Laboratory Sample Number:</b> L0711774-05	<b>Date Collected:</b> 15-AUG-2007 08:50
SP-F5-20070815-01	<b>Date Received :</b> 15-AUG-2007
<b>Sample Matrix:</b> SOIL	<b>Date Reported :</b> 22-AUG-2007
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 1-Amber,1-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID	
TCLP Herbicides by GC				1	8151A(M)	0816 17:00 0821 17:52	JB
TCLP Extraction				1	1311	0815 21:30	
2,4-D	ND	mg/l	0.03				
2,4,5-TP (Silvex)	ND	mg/l	0.003				
Surrogate(s)	Recovery			QC Criteria			
DCAA	47.0	%					
TCLP Volatile Organics				1	8260B	0822 02:29	PD
TCLP Extraction				1	1311	0816 15:10	
Chloroform	ND	ug/l	7.5				
Carbon tetrachloride	ND	ug/l	5.0				
Tetrachloroethene	ND	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	5.0				
Benzene	ND	ug/l	5.0				
Vinyl chloride	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	5.0				
Trichloroethene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	25.				
2-Butanone	ND	ug/l	50.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	107	%	70-130				
Toluene-d8	101	%	70-130				
4-Bromofluorobenzene	110	%	70-130				
Dibromofluoromethane	103	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

**Laboratory Sample Number:** L0711774-06 **Date Collected:** 15-AUG-2007 08:55  
 SP-F6-20070815-01 **Date Received :** 15-AUG-2007  
**Sample Matrix:** SOIL **Date Reported :** 22-AUG-2007  
**Condition of Sample:** Satisfactory **Field Prep:** None  
**Number & Type of Containers:** 1-Amber,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
TCLP Herbicides by GC				1 8151A(M)	0816 17:00	0821 18:41	JB
TCLP Extraction				1 1311	0815 21:30		
2,4-D	ND	mg/l	0.03				
2,4,5-TP (Silvex)	ND	mg/l	0.003				
Surrogate(s)	Recovery		QC Criteria				
DCAA	34.0	%					
TCLP Volatile Organics				1 8260B		0822 03:05	PD
TCLP Extraction				1 1311	0816 15:10		
Chloroform	ND	ug/l	7.5				
Carbon tetrachloride	ND	ug/l	5.0				
Tetrachloroethene	ND	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	5.0				
Benzene	ND	ug/l	5.0				
Vinyl chloride	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	5.0				
Trichloroethene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	25.				
2-Butanone	ND	ug/l	50.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	108	%	70-130				
Toluene-d8	100	%	70-130				
4-Bromofluorobenzene	110	%	70-130				
Dibromofluoromethane	105	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0711774

Parameter	% Recovery	QC Criteria
TCLP Herbicides by GC LCS for sample(s) 01-06 (WG290900-2)		
2,4-D	88	
2,4,5-TP (Silvex)	34	
Surrogate(s)		
DCAA	44	
TCLP Volatile Organics LCS for sample(s) 01-06 (WG288267-12)		
Chloroform	101	70-130
Carbon tetrachloride	100	70-130
Tetrachloroethene	108	70-130
Chlorobenzene	108	75-130
1,2-Dichloroethane	107	70-130
Benzene	106	76-127
Vinyl chloride	112	70-130
1,1-Dichloroethene	110	61-145
Trichloroethene	101	71-120
1,4-Dichlorobenzene	109	70-130
2-Butanone	116	70-130
Surrogate(s)		
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	100	70-130
Dibromofluoromethane	104	70-130



ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0711774

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
TCLP Herbicides by GC for sample(s) 01-06 (L0711774-01, WG290900-4)					
2,4-D	68	98	36		
2,4,5-TP (Silvex)	24	38	46		
Surrogate(s)					
DCAA	30	50	50		
TCLP Volatile Organics for sample(s) 01-06 (L0710463-01, WG288267-2)					
Chloroform	99	91	8	20	70-130
Carbon tetrachloride	103	94	9	20	70-130
Tetrachloroethene	98	89	10	20	70-130
Chlorobenzene	93	86	8	20	75-130
1,2-Dichloroethane	105	100	5	20	70-130
Benzene	94	88	7	20	76-127
Vinyl chloride	89	81	9	20	70-130
1,1-Dichloroethene	92	85	8	20	61-145
Trichloroethene	91	85	7	20	71-120
1,4-Dichlorobenzene	92	86	7	20	70-130
2-Butanone	92	96	4	20	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	116	114	2		70-130
Toluene-d8	100	99	1		70-130
4-Bromofluorobenzene	100	98	2		70-130
Dibromofluoromethane	118	115	3		70-130

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0711774

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-06 (WG290900-1)							
TCLP Herbicides by GC				1	8151A(M)	0816 17:00	0821 11:18 JB
TCLP Extraction				1	1311	0815 21:30	
2,4-D	ND	mg/l	0.03				
2,4,5-TP (Silvex)	ND	mg/l	0.003				
Surrogate(s)	Recovery						QC Criteria
DCAA	74.0	%					
Blank Analysis for sample(s) 01-06 (WG288267-13)							
TCLP Volatile Organics				1	8260B		0821 23:28 PD
TCLP Extraction				1	1311	0816 15:10	
Chloroform	ND	ug/l	7.5				
Carbon tetrachloride	ND	ug/l	5.0				
Tetrachloroethene	ND	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	5.0				
Benzene	ND	ug/l	5.0				
Vinyl chloride	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	5.0				
Trichloroethene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	25.				
2-Butanone	ND	ug/l	50.				
Surrogate(s)	Recovery						QC Criteria
1,2-Dichloroethane-d4	105	%	70-130				
Toluene-d8	100	%	70-130				
4-Bromofluorobenzene	108	%	70-130				
Dibromofluoromethane	105	%	70-130				

**ALPHA ANALYTICAL LABORATORIES**  
**ADDENDUM I**

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**REFERENCES**

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

**GLOSSARY OF TERMS AND SYMBOLS**

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

**LIMITATION OF LIABILITIES**

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.



# CHAIN OF CUSTODY

PAGE 1 OF 1

WESTBORO, MA RAYNHAM, MA  
 TEL: 508-898-9220 TEL: 508-822-9300  
 FAX: 508-898-9193 FAX: 508-822-3288

Date Rec'd in Lab: 8/19/07

ALPHA Job #: L0711774

**Project Information**

Project Name: NA EXCAVATION

Project Location: RAYTHEON-WAYLAND

Project #: 0051545

Project Manager: JASON FLATTERY

ALPHA Quote #:

**Turn-Around Time** Standard  RUSH (only confirmed if pre-approved!)

Date Due: 8/28/07 Time:

**Client Information**

Client: ERM-BOSTON

Address: 399 BOYLSTON ST 6TH FLOOR

BOSTON, MA 02116

Phone: (617) 646-7800

Fax: (617) 267-6447

Email: jason.flattery@erm.com

 These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

**Report Information - Data Deliverables**
 FAX  EMAIL  
 ADEX  Add'l Deliverables
**Billing Information** Same as Client info PO #:**Regulatory Requirements/Report Limits**

State /Fed Program Criteria

MCP

**MA MCP PRESUMPTIVE CERTAINTY -- CT REASONABLE CONFIDENCE PROTOCOLS**
 Yes  No Are MCP Analytical Methods Required?  
 Yes  No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS	TCLP	VOA	TCLP PCBs	SVOCs	PH	REACT	FLUORIDE	TCLP ASBA	CR	PO	HS	SE	MA	TOTAL # BOTTLES
	X	X	X	X	X	X	X	X	X	X	X	X	X	4
	X	X	X	X	X	X	X	X	X	X	X	X	X	4
	X	X	X	X	X	X	X	X	X	X	X	X	X	4
	X	X	X	X	X	X	X	X	X	X	X	X	X	4
	X	X	X	X	X	X	X	X	X	X	X	X	X	4
	X	X	X	X	X	X	X	X	X	X	X	X	X	4

**SAMPLE HANDLING**

Filtration  
 Done  
 Not needed  
 Lab to do  
 Preservation  
 Lab to do  
 (Please specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
11774.1	SP-F1-20070815-01	8/15/07	0830	S	JDF
2	SP-F2-20070815-01		0835		
3	SP-F3-20070815-01		0840		
4	SP-F4-20070815-01		0845		
5	SP-F5-20070815-01		0850		
6	SP-F6-20070815-01		0855		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type A A A A

Preservative None None None None

Relinquished By:

Date/Time

Received By:

Date/Time

8/15/07 15:30  
8/16/07 16:158/15/07 JDF  
8/19/07 16:15

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

**Client:** ERM-New England **Laboratory Job Number:** L0711772  
**Address:** 399 Boylston Street  
6th Floor **Date Received:** 15-AUG-2007  
Boston, MA 02116 **Date Reported:** 21-AUG-2007  
**Attn:** Mr. Jason Flattery **Delivery Method:** Alpha  
**Project Number:** 0051545  
**Site:** NA EXCAVATION

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ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0711772-01	SP-F1-20070815-01	RAYTHEON WAYLAND
L0711772-02	SP-F2-20070815-01	RAYTHEON WAYLAND
L0711772-03	SP-F3-20070815-01	RAYTHEON WAYLAND
L0711772-04	SP-F4-20070815-01	RAYTHEON WAYLAND
L0711772-05	SP-F5-20070815-01	RAYTHEON WAYLAND
L0711772-06	SP-F6-20070815-01	RAYTHEON WAYLAND

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

---

Authorized by: Michelle M. Morris  
Technical Representative

ALPHA ANALYTICAL LABORATORIES  
NARRATIVE REPORT

Laboratory Job Number: L0711772

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The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

TCLP Pesticides

L0711772-01 through -06 were re-extracted due to QC failure on the original analyses. Re-extraction was performed within holding time. The results of the re-extraction are reported.

TCLP Metals

The MS % recovery for Silver is below method acceptance criteria. A post analytical spike was performed with an acceptable recovery of 101%.



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0711772-01  
SP-F1-20070815-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Ignitability of Solids				1 1030		0816 12:45	ST
Test Material Information							
Source of Material:	Unknown						
Description of Material:	Non-Metallic - Wet Clay						
Particle Size:	Fine						
Preliminary Burning Time (sec):	120						
Ignitability	NI						
TCLP Metals							
TCLP Extraction				1 1311		0815 21:30	
Arsenic, TCLP	ND	mg/l	1.0	1 6010B	0817 09:00	0817 13:17	MG
Barium, TCLP	ND	mg/l	0.50	1 6010B	0817 09:00	0817 13:17	MG
Cadmium, TCLP	ND	mg/l	0.10	1 6010B	0817 09:00	0817 13:17	MG
Lead, TCLP	ND	mg/l	0.50	1 6010B	0817 09:00	0817 13:17	MG
Mercury, TCLP	ND	mg/l	0.0010	1 7470A	0817 15:50	0820 09:24	DM
Selenium, TCLP	ND	mg/l	0.50	1 6010B	0817 09:00	0817 13:17	MG
Silver, TCLP	ND	mg/l	0.10	1 6010B	0817 09:00	0817 13:17	MG
TCLP Semi-Volatile Organics							
TCLP Extraction				1 1311		0815 21:30	
Hexachlorobenzene	ND	ug/l	25.				
2,4-Dinitrotoluene	ND	ug/l	30.				
Hexachlorobutadiene	ND	ug/l	50.				
Hexachloroethane	ND	ug/l	25.				
Nitrobenzene	ND	ug/l	25.				
2,4,6-Trichlorophenol	ND	ug/l	25.				
Pentachlorophenol	ND	ug/l	50.				
2-Methylphenol	ND	ug/l	30.				
3-Methylphenol/4-Methylphenol	ND	ug/l	30.				
2,4,5-Trichlorophenol	ND	ug/l	25.				
Pyridine	ND	ug/l	250				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	51.0	%	21-120				
Phenol-d6	59.0	%	10-120				
Nitrobenzene-d5	55.0	%	23-120				
2-Fluorobiphenyl	49.0	%	43-120				
2,4,6-Tribromophenol	53.0	%	10-120				
4-Terphenyl-d14	85.0	%	33-120				
TCLP Pesticides by GC							
TCLP Extraction				1 1311		0815 21:30	
Lindane	ND	ug/l	0.100				
Heptachlor	ND	ug/l	0.100				
Heptachlor epoxide	ND	ug/l	0.100				
Endrin	ND	ug/l	0.200				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0711772-01  
SP-F1-20070815-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
TCLP Pesticides by GC cont'd				1	8082/8081	0820 08:30	0820 16:39 JB
TCLP Extraction				1	1311	0815 21:30	
Methoxychlor	ND	ug/l	1.00				
Toxaphene	ND	ug/l	1.00				
Chlordane	ND	ug/l	1.00				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	38.0	%					30-150
Decachlorobiphenyl	49.0	%					30-150
TCLP PCBs by GC				1	8082	0816 20:30	0817 15:36 AK
TCLP Extraction				1	1311	0815 21:30	
Aroclor 1016	ND	ug/l	2.50				
Aroclor 1221	ND	ug/l	2.50				
Aroclor 1232	ND	ug/l	2.50				
Aroclor 1242	ND	ug/l	2.50				
Aroclor 1248	ND	ug/l	2.50				
Aroclor 1254	ND	ug/l	2.50				
Aroclor 1260	ND	ug/l	2.50				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	94.0	%					30-150
Decachlorobiphenyl	86.0	%					30-150

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0711772-02 Date Collected: 15-AUG-2007 08:35  
SP-F2-20070815-01 Date Received : 15-AUG-2007  
Sample Matrix: SOIL Date Reported : 21-AUG-2007  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 3-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
pH	6.2	SU	-	1 9045C		0816 20:05	LR
Cyanide, Reactive	ND	mg/kg	10	1 7.3		0816 19:50	TV
Sulfide, Reactive	ND	mg/kg	10	1 7.3		0816 19:50	TV

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0711772-02  
SP-F2-20070815-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Ignitability of Solids				1 1030		0816 12:45	ST
Test Material Information							
Source of Material:	Unknown						
Description of Material:	Non-Metallic - Damp Clay						
Particle Size:	Fine						
Preliminary Burning Time (sec):	120						
Ignitability	NI						
TCLP Metals							
TCLP Extraction				1 1311		0815 21:30	
Arsenic, TCLP	ND	mg/l	1.0	1 6010B	0817 09:00	0817 13:26	MG
Barium, TCLP	ND	mg/l	0.50	1 6010B	0817 09:00	0817 13:26	MG
Cadmium, TCLP	ND	mg/l	0.10	1 6010B	0817 09:00	0817 13:26	MG
Lead, TCLP	ND	mg/l	0.50	1 6010B	0817 09:00	0817 13:26	MG
Mercury, TCLP	ND	mg/l	0.0010	1 7470A	0817 15:50	0820 09:25	DM
Selenium, TCLP	ND	mg/l	0.50	1 6010B	0817 09:00	0817 13:26	MG
Silver, TCLP	ND	mg/l	0.10	1 6010B	0817 09:00	0817 13:26	MG
TCLP Semi-Volatile Organics							
TCLP Extraction				1 1311		0815 21:30	
Hexachlorobenzene	ND	ug/l	25.				
2,4-Dinitrotoluene	ND	ug/l	30.				
Hexachlorobutadiene	ND	ug/l	50.				
Hexachloroethane	ND	ug/l	25.				
Nitrobenzene	ND	ug/l	25.				
2,4,6-Trichlorophenol	ND	ug/l	25.				
Pentachlorophenol	ND	ug/l	50.				
2-Methylphenol	ND	ug/l	30.				
3-Methylphenol/4-Methylphenol	ND	ug/l	30.				
2,4,5-Trichlorophenol	ND	ug/l	25.				
Pyridine	ND	ug/l	250				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	48.0	%	21-120				
Phenol-d6	59.0	%	10-120				
Nitrobenzene-d5	53.0	%	23-120				
2-Fluorobiphenyl	48.0	%	43-120				
2,4,6-Tribromophenol	51.0	%	10-120				
4-Terphenyl-d14	81.0	%	33-120				
TCLP Pesticides by GC							
TCLP Extraction				1 1311		0815 21:30	
Lindane	ND	ug/l	0.100				
Heptachlor	ND	ug/l	0.100				
Heptachlor epoxide	ND	ug/l	0.100				
Endrin	ND	ug/l	0.200				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0711772-02  
 SP-F2-20070815-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
TCLP Pesticides by GC cont'd				1	8082/8081	0820 08:30	0820 17:08 JB
TCLP Extraction				1	1311	0815 21:30	
Methoxychlor	ND	ug/l	1.00				
Toxaphene	ND	ug/l	1.00				
Chlordane	ND	ug/l	1.00				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	48.0	%	30-150				
Decachlorobiphenyl	44.0	%	30-150				
TCLP PCBs by GC				1	8082	0816 20:30	0817 16:04 AK
TCLP Extraction				1	1311	0815 21:30	
Aroclor 1016	ND	ug/l	2.50				
Aroclor 1221	ND	ug/l	2.50				
Aroclor 1232	ND	ug/l	2.50				
Aroclor 1242	ND	ug/l	2.50				
Aroclor 1248	ND	ug/l	2.50				
Aroclor 1254	ND	ug/l	2.50				
Aroclor 1260	ND	ug/l	2.50				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	93.0	%	30-150				
Decachlorobiphenyl	86.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0711772-03 Date Collected: 15-AUG-2007 08:40  
SP-F3-20070815-01 Date Received : 15-AUG-2007  
Sample Matrix: SOIL Date Reported : 21-AUG-2007  
Condition of Sample: Satisfactory Field Prep: None  
Number & Type of Containers: 3-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
pH	7.5	SU	-	1 9045C		0816 20:05	LR
Cyanide, Reactive	ND	mg/kg	10	1 7.3		0816 19:50	TV
Sulfide, Reactive	ND	mg/kg	10.	1 7.3		0816 19:50	TV

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0711772-03  
SP-F3-20070815-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Ignitability of Solids				1 1030		0816 12:45	ST
Test Material Information							
Source of Material:	Unknown						
Description of Material:	Non-Metallic - Damp Clay						
Particle Size:	Fine						
Preliminary Burning Time (sec):	120						
Ignitability	NI						
TCLP Metals							
TCLP Extraction				1 1311		0815 21:30	
Arsenic, TCLP	ND	mg/l	1.0	1 6010B		0817 09:00	0817 13:29 MG
Barium, TCLP	ND	mg/l	0.50	1 6010B		0817 09:00	0817 13:29 MG
Cadmium, TCLP	ND	mg/l	0.10	1 6010B		0817 09:00	0817 13:29 MG
Lead, TCLP	ND	mg/l	0.50	1 6010B		0817 09:00	0817 13:29 MG
Mercury, TCLP	ND	mg/l	0.0010	1 7470A		0817 15:50	0820 09:27 DM
Selenium, TCLP	ND	mg/l	0.50	1 6010B		0817 09:00	0817 13:29 MG
Silver, TCLP	ND	mg/l	0.10	1 6010B		0817 09:00	0817 13:29 MG
TCLP Semi-Volatile Organics							
TCLP Extraction				1 1311		0815 21:30	
Hexachlorobenzene	ND	ug/l	25.				
2,4-Dinitrotoluene	ND	ug/l	30.				
Hexachlorobutadiene	ND	ug/l	50.				
Hexachloroethane	ND	ug/l	25.				
Nitrobenzene	ND	ug/l	25.				
2,4,6-Trichlorophenol	ND	ug/l	25.				
Pentachlorophenol	ND	ug/l	50.				
2-Methylphenol	ND	ug/l	30.				
3-Methylphenol/4-Methylphenol	ND	ug/l	30.				
2,4,5-Trichlorophenol	ND	ug/l	25.				
Pyridine	ND	ug/l	250				
Surrogate(s)	Recovery						QC Criteria
2-Fluorophenol	55.0	%					21-120
Phenol-d6	68.0	%					10-120
Nitrobenzene-d5	63.0	%					23-120
2-Fluorobiphenyl	58.0	%					43-120
2,4,6-Tribromophenol	62.0	%					10-120
4-Terphenyl-d14	80.0	%					33-120
TCLP Pesticides by GC							
TCLP Extraction				1 1311		0815 21:30	
Lindane	ND	ug/l	0.100				
Heptachlor	ND	ug/l	0.100				
Heptachlor epoxide	ND	ug/l	0.100				
Endrin	ND	ug/l	0.200				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0711772-03  
 SP-F3-20070815-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
TCLP Pesticides by GC cont'd				1	8082/8081	0820 08:30	0820 17:37 JB
TCLP Extraction				1	1311	0815 21:30	
Methoxychlor	ND	ug/l	1.00				
Toxaphene	ND	ug/l	1.00				
Chlordane	ND	ug/l	1.00				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	41.0	%					30-150
Decachlorobiphenyl	34.0	%					30-150
TCLP PCBs by GC				1	8082	0816 20:30	0817 16:33 AK
TCLP Extraction				1	1311	0815 21:30	
Aroclor 1016	ND	ug/l	2.50				
Aroclor 1221	ND	ug/l	2.50				
Aroclor 1232	ND	ug/l	2.50				
Aroclor 1242	ND	ug/l	2.50				
Aroclor 1248	ND	ug/l	2.50				
Aroclor 1254	ND	ug/l	2.50				
Aroclor 1260	ND	ug/l	2.50				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	88.0	%					30-150
Decachlorobiphenyl	83.0	%					30-150

Comments: Complete list of References and Glossary of Terms found in Addendum I





**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0711772-04  
SP-F4-20070815-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Ignitability of Solids				1 1030		0816 12:45	ST
Test Material Information							
Source of Material:	Unknown						
Description of Material:	Non-Metallic - Damp Clay						
Particle Size:	Fine						
Preliminary Burning Time (sec):	120						
Ignitability	NI						
TCLP Metals							
TCLP Extraction				1 1311		0815 21:30	
Arsenic, TCLP	ND	mg/l	1.0	1 6010B	0817 09:00	0817 13:32	MG
Barium, TCLP	ND	mg/l	0.50	1 6010B	0817 09:00	0817 13:32	MG
Cadmium, TCLP	ND	mg/l	0.10	1 6010B	0817 09:00	0817 13:32	MG
Lead, TCLP	ND	mg/l	0.50	1 6010B	0817 09:00	0817 13:32	MG
Mercury, TCLP	ND	mg/l	0.0010	1 7470A	0817 15:50	0820 09:33	DM
Selenium, TCLP	ND	mg/l	0.50	1 6010B	0817 09:00	0817 13:32	MG
Silver, TCLP	ND	mg/l	0.10	1 6010B	0817 09:00	0817 13:32	MG
TCLP Semi-Volatile Organics							
TCLP Extraction				1 1311		0815 21:30	
Hexachlorobenzene	ND	ug/l	25.				
2,4-Dinitrotoluene	ND	ug/l	30.				
Hexachlorobutadiene	ND	ug/l	50.				
Hexachloroethane	ND	ug/l	25.				
Nitrobenzene	ND	ug/l	25.				
2,4,6-Trichlorophenol	ND	ug/l	25.				
Pentachlorophenol	ND	ug/l	50.				
2-Methylphenol	ND	ug/l	30.				
3-Methylphenol/4-Methylphenol	ND	ug/l	30.				
2,4,5-Trichlorophenol	ND	ug/l	25.				
Pyridine	ND	ug/l	250				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	61.0	%	21-120				
Phenol-d6	76.0	%	10-120				
Nitrobenzene-d5	70.0	%	23-120				
2-Fluorobiphenyl	59.0	%	43-120				
2,4,6-Tribromophenol	64.0	%	10-120				
4-Terphenyl-d14	84.0	%	33-120				
TCLP Pesticides by GC							
TCLP Extraction				1 1311		0815 21:30	
Lindane	ND	ug/l	0.100				
Heptachlor	ND	ug/l	0.100				
Heptachlor epoxide	ND	ug/l	0.100				
Endrin	ND	ug/l	0.200				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0711772-04  
 SP-F4-20070815-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
TCLP Pesticides by GC cont'd				1	8082/8081	0820 08:30	0820 18:05 JB
TCLP Extraction				1	1311	0815 21:30	
Methoxychlor	ND	ug/l	1.00				
Toxaphene	ND	ug/l	1.00				
Chlordane	ND	ug/l	1.00				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	51.0	%	30-150				
Decachlorobiphenyl	41.0	%	30-150				
TCLP PCBs by GC				1	8082	0816 20:30	0817 17:02 AK
TCLP Extraction				1	1311	0815 21:30	
Aroclor 1016	ND	ug/l	2.50				
Aroclor 1221	ND	ug/l	2.50				
Aroclor 1232	ND	ug/l	2.50				
Aroclor 1242	ND	ug/l	2.50				
Aroclor 1248	ND	ug/l	2.50				
Aroclor 1254	ND	ug/l	2.50				
Aroclor 1260	ND	ug/l	2.50				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	86.0	%	30-150				
Decachlorobiphenyl	79.0	%	30-150				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0711772-05  
SP-F5-20070815-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Ignitability of Solids				1 1030		0816 12:45	ST
Test Material Information							
Source of Material:	Unknown						
Description of Material:	Non-Metallic - Damp Clay						
Particle Size:	Fine						
Preliminary Burning Time (sec):	120						
Ignitability	NI						
TCLP Metals							
TCLP Extraction				1 1311		0815 21:30	
Arsenic, TCLP	ND	mg/l	1.0	1 6010B	0817 09:00	0817 13:34	MG
Barium, TCLP	ND	mg/l	0.50	1 6010B	0817 09:00	0817 13:34	MG
Cadmium, TCLP	ND	mg/l	0.10	1 6010B	0817 09:00	0817 13:34	MG
Lead, TCLP	ND	mg/l	0.50	1 6010B	0817 09:00	0817 13:34	MG
Mercury, TCLP	ND	mg/l	0.0010	1 7470A	0817 15:50	0820 09:35	DM
Selenium, TCLP	ND	mg/l	0.50	1 6010B	0817 09:00	0817 13:34	MG
Silver, TCLP	ND	mg/l	0.10	1 6010B	0817 09:00	0817 13:34	MG
TCLP Semi-Volatile Organics							
TCLP Extraction				1 1311		0815 21:30	
Hexachlorobenzene	ND	ug/l	25.				
2,4-Dinitrotoluene	ND	ug/l	30.				
Hexachlorobutadiene	ND	ug/l	50.				
Hexachloroethane	ND	ug/l	25.				
Nitrobenzene	ND	ug/l	25.				
2,4,6-Trichlorophenol	ND	ug/l	25.				
Pentachlorophenol	ND	ug/l	50.				
2-Methylphenol	ND	ug/l	30.				
3-Methylphenol/4-Methylphenol	ND	ug/l	30.				
2,4,5-Trichlorophenol	ND	ug/l	25.				
Pyridine	ND	ug/l	250				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	55.0	%		21-120			
Phenol-d6	66.0	%		10-120			
Nitrobenzene-d5	62.0	%		23-120			
2-Fluorobiphenyl	55.0	%		43-120			
2,4,6-Tribromophenol	60.0	%		10-120			
4-Terphenyl-d14	89.0	%		33-120			
TCLP Pesticides by GC							
TCLP Extraction				1 1311		0815 21:30	
Lindane	ND	ug/l	0.100				
Heptachlor	ND	ug/l	0.100				
Heptachlor epoxide	ND	ug/l	0.100				
Endrin	ND	ug/l	0.200				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0711772-05  
SP-F5-20070815-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
TCLP Pesticides by GC cont'd				1	8082/8081	0820 08:30	0820 18:34 JB
TCLP Extraction				1	1311	0815 21:30	
Methoxychlor	ND	ug/l	1.00				
Toxaphene	ND	ug/l	1.00				
Chlordane	ND	ug/l	1.00				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	47.0	%					30-150
Decachlorobiphenyl	46.0	%					30-150
TCLP PCBs by GC				1	8082	0816 20:30	0817 17:30 AK
TCLP Extraction				1	1311	0815 21:30	
Aroclor 1016	ND	ug/l	2.50				
Aroclor 1221	ND	ug/l	2.50				
Aroclor 1232	ND	ug/l	2.50				
Aroclor 1242	ND	ug/l	2.50				
Aroclor 1248	ND	ug/l	2.50				
Aroclor 1254	ND	ug/l	2.50				
Aroclor 1260	ND	ug/l	2.50				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	91.0	%					30-150
Decachlorobiphenyl	73.0	%					30-150

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0711772-06  
SP-F6-20070815-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Ignitability of Solids				1 1030		0816 12:45	ST
Test Material Information							
Source of Material:	Unknown						
Description of Material:	Non-Metallic - Wet Clay						
Particle Size:	Fine						
Preliminary Burning Time (sec):	120						
Ignitability	NI						
TCLP Metals							
TCLP Extraction				1 1311		0815 21:30	
Arsenic, TCLP	ND	mg/l	1.0	1 6010B	0817 09:00	0817 13:37	MG
Barium, TCLP	ND	mg/l	0.50	1 6010B	0817 09:00	0817 13:37	MG
Cadmium, TCLP	ND	mg/l	0.10	1 6010B	0817 09:00	0817 13:37	MG
Lead, TCLP	ND	mg/l	0.50	1 6010B	0817 09:00	0817 13:37	MG
Mercury, TCLP	ND	mg/l	0.0010	1 7470A	0817 15:50	0820 09:36	DM
Selenium, TCLP	ND	mg/l	0.50	1 6010B	0817 09:00	0817 13:37	MG
Silver, TCLP	ND	mg/l	0.10	1 6010B	0817 09:00	0817 13:37	MG
TCLP Semi-Volatile Organics							
TCLP Extraction				1 1311		0815 21:30	
Hexachlorobenzene	ND	ug/l	25.				
2,4-Dinitrotoluene	ND	ug/l	30.				
Hexachlorobutadiene	ND	ug/l	50.				
Hexachloroethane	ND	ug/l	25.				
Nitrobenzene	ND	ug/l	25.				
2,4,6-Trichlorophenol	ND	ug/l	25.				
Pentachlorophenol	ND	ug/l	50.				
2-Methylphenol	ND	ug/l	30.				
3-Methylphenol/4-Methylphenol	ND	ug/l	30.				
2,4,5-Trichlorophenol	ND	ug/l	25.				
Pyridine	ND	ug/l	250				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	49.0	%		21-120			
Phenol-d6	60.0	%		10-120			
Nitrobenzene-d5	59.0	%		23-120			
2-Fluorobiphenyl	49.0	%		43-120			
2,4,6-Tribromophenol	57.0	%		10-120			
4-Terphenyl-d14	83.0	%		33-120			
TCLP Pesticides by GC							
TCLP Extraction				1 1311		0815 21:30	
Lindane	ND	ug/l	0.100				
Heptachlor	ND	ug/l	0.100				
Heptachlor epoxide	ND	ug/l	0.100				
Endrin	ND	ug/l	0.200				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0711772-06  
SP-F6-20070815-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
TCLP Pesticides by GC cont'd				1	8082/8081	0820 08:30	0820 19:03 JB
TCLP Extraction				1	1311	0815 21:30	
Methoxychlor	ND	ug/l	1.00				
Toxaphene	ND	ug/l	1.00				
Chlordane	ND	ug/l	1.00				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	43.0	%		30-150			
Decachlorobiphenyl	55.0	%		30-150			
TCLP PCBs by GC				1	8082	0816 20:30	0817 17:59 AK
TCLP Extraction				1	1311	0815 21:30	
Aroclor 1016	ND	ug/l	2.50				
Aroclor 1221	ND	ug/l	2.50				
Aroclor 1232	ND	ug/l	2.50				
Aroclor 1242	ND	ug/l	2.50				
Aroclor 1248	ND	ug/l	2.50				
Aroclor 1254	ND	ug/l	2.50				
Aroclor 1260	ND	ug/l	2.50				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	90.0	%		30-150			
Decachlorobiphenyl	82.0	%		30-150			

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS**

Laboratory Job Number: L0711772

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
pH for sample(s) 01-06 (L0711772-05, WG290928-2)					
pH	6.2	6.4	SU	3	
Cyanide, Reactive for sample(s) 01-06 (L0711827-04, WG290898-3)					
Cyanide, Reactive	ND	ND	mg/kg	NC	40
Sulfide, Reactive for sample(s) 01-06 (L0711827-04, WG290899-3)					
Sulfide, Reactive	ND	ND	mg/kg	NC	40
TCLP Metals for sample(s) 01-06 (L0711772-01, WG290974-1)					
Arsenic, TCLP	ND	ND	mg/l	NC	20
Barium, TCLP	ND	ND	mg/l	NC	20
Cadmium, TCLP	ND	ND	mg/l	NC	20
Lead, TCLP	ND	ND	mg/l	NC	20
Selenium, TCLP	ND	ND	mg/l	NC	20
Silver, TCLP	ND	ND	mg/l	NC	20
TCLP Metals for sample(s) 01-06 (L0711772-03, WG291031-3)					
Mercury, TCLP	ND	ND	mg/l	NC	

**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES**

Laboratory Job Number: L0711772

Parameter	% Recovery	QC Criteria
pH LCS for sample(s) 01-06 (WG290928-1)		
pH	100	
Cyanide, Reactive LCS for sample(s) 01-06 (WG290898-2)		
Cyanide, Reactive	60	30-125
Sulfide, Reactive LCS for sample(s) 01-06 (WG290899-2)		
Sulfide, Reactive	75	60-125
TCLP Metals LCS for sample(s) 01-06 (WG290974-4)		
Arsenic, TCLP	110	75-125
Barium, TCLP	96	75-125
Cadmium, TCLP	110	75-125
Lead, TCLP	110	75-125
Selenium, TCLP	105	75-125
Silver, TCLP	110	75-125
TCLP Metals LCS for sample(s) 01-06 (WG291031-1)		
Mercury, TCLP	102	
TCLP Semi-Volatile Organics LCS for sample(s) 01-06 (WG290902-2)		
Hexachlorobenzene	66	40-140
2,4-Dinitrotoluene	67	24-96
Hexachlorobutadiene	39	10-100
Hexachloroethane	37	13-82
Nitrobenzene	56	40-140
2,4,6-Trichlorophenol	50	30-130
Pentachlorophenol	63	9-103
2-Methylphenol	45	30-130
3-Methylphenol/4-Methylphenol	46	30-130
2,4,5-Trichlorophenol	50	30-130
Pyridine	32	
Surrogate(s)		
2-Fluorophenol	43	21-120
Phenol-d6	53	10-120
Nitrobenzene-d5	50	23-120
2-Fluorobiphenyl	48	43-120
2,4,6-Tribromophenol	57	10-120
4-Terphenyl-d14	80	33-120
TCLP Pesticides by GC LCS for sample(s) 01-06 (WG290906-2)		
Lindane	45	30-150
Heptachlor	36	30-150
Heptachlor epoxide	50	30-150
Endrin	60	30-150
Methoxychlor	48	30-150

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0711772

Continued

Parameter	% Recovery	QC Criteria
TCLP Pesticides by GC LCS for sample(s) 01-06 (WG290906-2)		
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	34	30-150
Decachlorobiphenyl	39	30-150
TCLP PCBs by GC LCS for sample(s) 01-06 (WG290908-2)		
Aroclor 1016	87	40-140
Aroclor 1260	108	40-140
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	96	30-150
Decachlorobiphenyl	97	30-150
TCLP Metals SPIKE for sample(s) 01-06 (L0711772-01, WG290974-2)		
Arsenic, TCLP	110	75-125
Barium, TCLP	98	75-125
Cadmium, TCLP	110	75-125
Lead, TCLP	100	75-125
Selenium, TCLP	110	75-125
Silver, TCLP	53	75-125
TCLP Metals SPIKE for sample(s) 01-06 (L0711772-03, WG291031-2)		
Mercury, TCLP	127	

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH MS/MSD ANALYSIS**

Laboratory Job Number: L0711772

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
TCLP Semi-Volatile Organics for sample(s) 01-06 (L0711772-01, WG290902-4)					
Hexachlorobenzene	78	74	5	30	40-140
2,4-Dinitrotoluene	76	72	5	30	24-96
Hexachlorobutadiene	44	50	13	30	10-100
Hexachloroethane	40	44	10	30	13-82
Nitrobenzene	68	72	6	30	40-140
2,4,6-Trichlorophenol	66	64	3	30	30-130
Pentachlorophenol	74	76	3	30	9-103
2-Methylphenol	56	56	0	30	30-130
3-Methylphenol/4-Methylphenol	60	57	5	30	30-130
2,4,5-Trichlorophenol	60	60	0	30	30-130
Pyridine	30	37	21	30	
Surrogate(s)					
2-Fluorophenol	51	50	2		21-120
Phenol-d6	66	66	0		10-120
Nitrobenzene-d5	62	61	2		23-120
2-Fluorobiphenyl	59	61	3		43-120
2,4,6-Tribromophenol	68	66	3		10-120
4-Terphenyl-d14	87	86	1		33-120
TCLP Pesticides by GC for sample(s) 01-06 (L0711772-01, WG290906-4)					
Lindane	66	68	3	30	30-150
Heptachlor	54	57	5	30	30-150
Heptachlor epoxide	68	71	4	30	30-150
Endrin	81	85	5	30	30-150
Methoxychlor	66	68	3	30	30-150
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	56	56	0		30-150
Decachlorobiphenyl	54	54	0		30-150
TCLP PCBs by GC for sample(s) 01-06 (L0711772-01, WG290908-4)					
Aroclor 1016	92	101	9	30	40-140
Aroclor 1260	111	116	4	30	40-140
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	99	102	3		30-150
Decachlorobiphenyl	93	91	2		30-150

**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0711772

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-06 (WG290898-1)							
Cyanide, Reactive	ND	mg/kg	10	1 7.3		0816 19:50	TV
Blank Analysis for sample(s) 01-06 (WG290899-1)							
Sulfide, Reactive	ND	mg/kg	10.	1 7.3		0816 19:50	TV
Blank Analysis for sample(s) 01-06 (WG290974-3)							
TCLP Metals							
TCLP Extraction				1 1311		0815 21:30	
Arsenic, TCLP	ND	mg/l	1.0	1 6010B	0817 09:00	0817 13:11	MG
Barium, TCLP	ND	mg/l	0.50	1 6010B	0817 09:00	0817 13:11	MG
Cadmium, TCLP	ND	mg/l	0.10	1 6010B	0817 09:00	0817 13:11	MG
Lead, TCLP	ND	mg/l	0.50	1 6010B	0817 09:00	0817 13:11	MG
Selenium, TCLP	ND	mg/l	0.50	1 6010B	0817 09:00	0817 13:11	MG
Silver, TCLP	ND	mg/l	0.10	1 6010B	0817 09:00	0820 13:47	AI
Blank Analysis for sample(s) 01-06 (WG291031-4)							
TCLP Metals							
TCLP Extraction				1 1311		0815 21:30	
Mercury, TCLP	ND	mg/l	0.0010	1 7470A	0817 15:50	0820 09:20	DM
Blank Analysis for sample(s) 01-06 (WG290902-1)							
TCLP Semi-Volatile Organics							
TCLP Extraction				1 1311		0815 21:30	
Hexachlorobenzene	ND	ug/l	25.				
2,4-Dinitrotoluene	ND	ug/l	30.				
Hexachlorobutadiene	ND	ug/l	50.				
Hexachloroethane	ND	ug/l	25.				
Nitrobenzene	ND	ug/l	25.				
2,4,6-Trichlorophenol	ND	ug/l	25.				
Pentachlorophenol	ND	ug/l	50.				
2-Methylphenol	ND	ug/l	30.				
3-Methylphenol/4-Methylphenol	ND	ug/l	30.				
2,4,5-Trichlorophenol	ND	ug/l	25.				
Pyridine	ND	ug/l	250				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	55.0	%		21-120			
Phenol-d6	66.0	%		10-120			
Nitrobenzene-d5	66.0	%		23-120			
2-Fluorobiphenyl	57.0	%		43-120			
2,4,6-Tribromophenol	60.0	%		10-120			
4-Terphenyl-d14	88.0	%		33-120			

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0711772

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-06 (WG290906-1)							
TCLP Pesticides by GC				1 8082/8081	0820 08:30	0820 14:45	JB
TCLP Extraction				1 1311	0815 21:30		
Lindane	ND	ug/l	0.100				
Heptachlor	ND	ug/l	0.100				
Heptachlor epoxide	ND	ug/l	0.100				
Endrin	ND	ug/l	0.200				
Methoxychlor	ND	ug/l	1.00				
Toxaphene	ND	ug/l	1.00				
Chlordane	ND	ug/l	1.00				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	51.0	%	30-150				
Decachlorobiphenyl	48.0	%	30-150				
Blank Analysis for sample(s) 01-06 (WG290908-1)							
TCLP PCBs by GC				1 8082	0816 20:30	0817 13:42	AK
TCLP Extraction				1 1311	0815 21:30		
Aroclor 1016	ND	ug/l	2.50				
Aroclor 1221	ND	ug/l	2.50				
Aroclor 1232	ND	ug/l	2.50				
Aroclor 1242	ND	ug/l	2.50				
Aroclor 1248	ND	ug/l	2.50				
Aroclor 1254	ND	ug/l	2.50				
Aroclor 1260	ND	ug/l	2.50				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	90.0	%	30-150				
Decachlorobiphenyl	91.0	%	30-150				

**ALPHA ANALYTICAL LABORATORIES**  
**ADDENDUM I**

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**REFERENCES**

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

**GLOSSARY OF TERMS AND SYMBOLS**

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

**LIMITATION OF LIABILITIES**

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.



# CHAIN OF CUSTODY

PAGE 1 OF 1Date Rec'd in Lab: 8/15/07ALPHA Job #: 10711772WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193RAYNHAM, MA  
TEL: 508-822-9300  
FAX: 508-822-3288**Project Information**Project Name: NA EXCAVATION  
Project Location: RAYTHEON-WAYLAND**Report Information - Data Deliverables** FAX  EMAIL  
 ADEX  Add'l Deliverables**Billing Information** Same as Client info PO #:**Client Information**Client: ERM-BOSTON  
Address: 399 BOSTON ST 6TH FLOOR  
BOSTON, MA 02116Project #: 0051545  
Project Manager: JASON FLATTERY**Regulatory Requirements/Report Limits**State/Fed Program: MCP Criteria:**MA MCP PRESUMPTIVE CERTAINTY -- CT REASONABLE CONFIDENCE PROTOCOLS** Yes  No Are MCP Analytical Methods Required?  
 Yes  No Are CT RCP (Reasonable Confidence Protocols) Required?Phone: (617) 646-7800Fax: (617) 267-6447Email: Jason.Flattery@erm.com

ALPHA Quote #:

**Turn-Around Time** Standard  RUSH (only confirmed if pre-approved!)Date Due: 8/30/07 Time: These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

**ANALYSIS**  
 TCLP VOA  
 TCLP PCBs, SVOCs  
 P.H. REACT. FLEASHEET  
 TCLP As, Ba, Cr, Pb, Hg, Se, Ag

**SAMPLE HANDLING**  
 Filtration  
 Done  
 Not needed  
 Lab to do  
 Preservation  
 Lab to do  
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS				Sample Specific Comments	TOTAL # BOTTLES
		Date	Time			TCLP VOA	TCLP PCBs, SVOCs	P.H. REACT. FLEASHEET	TCLP As, Ba, Cr, Pb, Hg, Se, Ag		
11772.1	SP-F1-20070815-01	8/15/07	0830	S	JDF	X	X	X	X		4
2	SP-F2-20070815-01		0835			X	X	X	X		4
3	SP-F3-20070815-01		0840			X	X	X	X		4
4	SP-F4-20070815-01		0845			X	X	X	X		4
5	SP-F5-20070815-01		0850			X	X	X	X		4
6	SP-F6-20070815-01		0855			X	X	X	X		4

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT  
MA MCP or CT RCP?Container Type: A A A A  
Preservative: None None None None

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

Relinquished By: <u>[Signature]</u>	Date/Time: <u>8/15/07 15:30</u> <u>8/15/07 16:15</u>	Received By: <u>[Signature]</u> <u>[Signature]</u>	Date/Time: <u>8/15/07 15:30</u> <u>8/15/07 16:15</u>
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ALPHA ANALYTICAL LABORATORIES  
NARRATIVE REPORT

Laboratory Job Number: L0711966

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The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.



ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number:	L0711966-02	Date Collected:	17-AUG-2007 11:20
	FLOC-EFF-20070817-01	Date Received :	17-AUG-2007
Sample Matrix:	WATER	Date Reported :	21-AUG-2007
Condition of Sample:	Satisfactory	Field Prep:	None
Number & Type of Containers:	1-Plastic		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP      ANAL	ID
Total Metals						
Arsenic, Total	ND	mg/l	0.005	1 6010B	0820 17:40 0821 09:34	AI
Copper, Total	0.010	mg/l	0.010	1 6010B	0820 17:40 0821 09:34	AI

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0711966

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Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Total Metals for sample(s) 01-02 (L0711748-06, WG291233-1)					
Arsenic, Total	0.009	0.008	mg/l	18	20
Copper, Total	0.141	0.144	mg/l	2	20

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ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0711966

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Parameter	% Recovery	QC Criteria
Total Metals LCS for sample(s) 01-02 (WG291233-4)		
Arsenic, Total	108	80-120
Copper, Total	97	80-120
Total Metals SPIKE for sample(s) 01-02 (L0711748-06, WG291233-2)		
Arsenic, Total	104	75-125
Copper, Total	96	75-125

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ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0711966

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02 (WG291233-3)							
Total Metals							
Arsenic, Total	ND	mg/l	0.005	1 6010B	0820 17:40	0821 09:07	AI
Copper, Total	ND	mg/l	0.010	1 6010B	0820 17:40	0821 09:07	AI

**ALPHA ANALYTICAL LABORATORIES**  
**ADDENDUM I**

---

**REFERENCES**

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

**GLOSSARY OF TERMS AND SYMBOLS**

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

**LIMITATION OF LIABILITIES**

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.





# CHAIN OF CUSTODY

PAGE 1 OF 1Date Rec'd in Lab: 8/17ALPHA Job #: 60711966

WESTBORO, MA RAYNHAM, MA  
 TEL: 508-898-9220 TEL: 508-822-9300  
 FAX: 508-898-9193 FAX: 508-822-3288

**Project Information**Project Name: NA SOIL EXCAVATIONProject Location: RAYTHEON - WAYLANDProject #: 0051545Project Manager: JASON FLATTERY

ALPHA Quote #:

**Turn-Around Time** Standard  RUSH (only confirmed if pre-approved)Date Due: 8/24 Time:**Report Information - Data Deliverables**
 FAX  EMAIL  
 ADEX  Add'l Deliverables
**Billing Information** Same as Client info PO #:**Client Information**Client: ERM-BOSTONAddress: 399 BOYLSTON ST 6<sup>TH</sup> FLOOR  
BOSTON, MA 02116Phone: (617) 646-7800Fax: (617) 267-6447Email: jason.flattery@erm.com These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

**Regulatory Requirements/Report Limits**

State /Fed Program Criteria

USEPA RGP**MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS**
 Yes  No Are MCP Analytical Methods Required?  
 Yes  No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

TOTAL As + Cu

125

**SAMPLE HANDLING**
 Filtration  
 Done  
 Not needed  
 Lab to do Preservation  
 Lab to do  
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials		Sample Specific Comments	
		Date	Time					
11966-1	FLOC-INF-20070317-01	8/17/07	11:15	GW	BM	X		1
	2 FLOC-EFF-20070317-01	8/17/07	11:20	GW	BM	X		1
(Diagonal line across table)								

PLEASE ANSWER QUESTIONS ABOVE!

 Container Type P  
 Preservative C

 IS YOUR PROJECT  
 MA MCP or CT RCP?

Relinquished By: <u>[Signature]</u>	Date/Time: <u>8/17/07 14:20</u>	Received By: <u>[Signature]</u>	Date/Time: <u>8/17/07 14:20</u>
<u>[Signature]</u>	<u>8/17/07</u>	<u>[Signature]</u>	<u>8/17/07 18:10</u>

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

**Client:** ERM-New England **Laboratory Job Number:** L0711768  
**Address:** 399 Boylston Street  
6th Floor **Date Received:** 15-AUG-2007  
Boston, MA 02116 **Date Reported:** 20-AUG-2007  
**Attn:** Mr. Jason Flattery **Delivery Method:** Alpha  
**Project Number:** 0051545  
**Site:** NA EXCAVATION

---

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0711768-01	INF-20070815-01	RAYTHEON-WAYLAND
L0711768-02	EFF-20070815-01	RAYTHEON-WAYLAND
L0711768-03	EFF2-20070808-01	RAYTHEON-WAYLAND

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

---

Authorized by: Michelle M. Morris  
Technical Representative

ALPHA ANALYTICAL LABORATORIES  
NARRATIVE REPORT

Laboratory Job Number: L0711768

---

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

TSS

L0711768-01 has an elevated detection limit due to the 20x dilution required by the elevated concentration of TSS in the sample.

Volatile Organics

L0711768-01 was re-analyzed due to over dilution of the original analysis. The results of the re-analysis are reported.

The WG291142-3 LCS % recovery for Carbon tetrachloride is above method acceptance criteria.



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0711768-01  
INF-20070815-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 624 cont'd				5 624	0817 11:40 MM		
cis-1,2-Dichloroethene	8.1	ug/l	1.0				
Trichloroethene	180	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
p/m-Xylene	ND	ug/l	2.0				
o-xylene	ND	ug/l	1.0				
Xylene (Total)	ND	ug/l	2.0				
Styrene	ND	ug/l	1.0				
Acetone	59	ug/l	10				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	10.				
Vinyl acetate	ND	ug/l	20.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Acrolein	ND	ug/l	8.0				
Acrylonitrile	ND	ug/l	10.				
Methyl tert butyl ether	ND	ug/l	20.				
1,4-Dioxane	ND	ug/l	2000				
Tert-Butyl Alcohol	ND	ug/l	100				
Tertiary-Amyl Methyl Ether	ND	ug/l	20.				
Surrogate(s)	Recovery		QC Criteria				
Pentafluorobenzene	103	%	80-120				
Fluorobenzene	100	%	80-120				
4-Bromofluorobenzene	98.0	%	80-120				
SVOC's by GC/MS 8270				1 8270C	0815 18:30 0816 15:01 AK		
Acenaphthene	ND	ug/l	5.0				
Benzidine	ND	ug/l	50.				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
Hexachlorobenzene	ND	ug/l	5.0				
Bis(2-chloroethyl)ether	ND	ug/l	5.0				
1-Chloronaphthalene	ND	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	6.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
3,3'-Dichlorobenzidine	ND	ug/l	50.				
2,4-Dinitrotoluene	ND	ug/l	6.0				
2,6-Dinitrotoluene	ND	ug/l	5.0				
Azobenzene	ND	ug/l	5.0				
Fluoranthene	ND	ug/l	5.0				
4-Chlorophenyl phenyl ether	ND	ug/l	5.0				
4-Bromophenyl phenyl ether	ND	ug/l	5.0				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0				
Bis(2-chloroethoxy)methane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	10.				
Hexachlorocyclopentadiene	ND	ug/l	30.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0711768-01  
INF-20070815-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1 8270C	0815 18:30	0816 15:01	AK
Hexachloroethane	ND	ug/l	5.0				
Isophorone	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
Nitrobenzene	ND	ug/l	5.0				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.0				
Bis(2-ethylhexyl)phthalate	ND	ug/l	5.0				
Butyl benzyl phthalate	ND	ug/l	5.0				
Di-n-butylphthalate	ND	ug/l	5.0				
Di-n-octylphthalate	ND	ug/l	5.0				
Diethyl phthalate	ND	ug/l	5.0				
Dimethyl phthalate	ND	ug/l	5.0				
Benzo(a)anthracene	ND	ug/l	5.0				
Benzo(a)pyrene	ND	ug/l	5.0				
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
Aniline	ND	ug/l	20.				
4-Chloroaniline	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				
2-Nitroaniline	ND	ug/l	5.0				
3-Nitroaniline	ND	ug/l	5.0				
4-Nitroaniline	ND	ug/l	7.0				
Dibenzofuran	ND	ug/l	5.0				
a,a-Dimethylphenethylamine	ND	ug/l	50.				
Hexachloropropene	ND	ug/l	10.				
Nitrosodi-n-butylamine	ND	ug/l	10.				
2-Methylnaphthalene	ND	ug/l	5.0				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	25.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	10.				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	10.				
Pentachloronitrobenzene	ND	ug/l	10.				
Isodrin	ND	ug/l	10.				
p-Dimethylaminoazobenzene	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0711768-01  
INF-20070815-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1 8270C	0815 18:30	0816 15:01	AK
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	20.				
n-Nitrosodimethylamine	ND	ug/l	50.				
2,4,6-Trichlorophenol	ND	ug/l	5.0				
p-Chloro-m-cresol	ND	ug/l	5.0				
2-Chlorophenol	ND	ug/l	6.0				
2,4-Dichlorophenol	ND	ug/l	10.				
2,4-Dimethylphenol	ND	ug/l	10.				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	10.				
2,4-Dinitrophenol	ND	ug/l	30.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	10.				
Phenol	ND	ug/l	7.0				
2-Methylphenol	ND	ug/l	6.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	50.				
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	50.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	33.0	%		21-120			
Phenol-d6	27.0	%		10-120			
Nitrobenzene-d5	58.0	%		23-120			
2-Fluorobiphenyl	60.0	%		43-120			
2,4,6-Tribromophenol	89.0	%		10-120			
4-Terphenyl-d14	75.0	%		33-120			
PAH by GC/MS SIM 8270M				1 8270C-M	0815 18:30	0816 14:51	RL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	ND	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.20				
Benzo(a)anthracene	ND	ug/l	0.20				
Benzo(a)pyrene	ND	ug/l	0.20				
Benzo(b)fluoranthene	ND	ug/l	0.20				
Benzo(k)fluoranthene	ND	ug/l	0.20				
Chrysene	ND	ug/l	0.20				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0711768-01  
 INF-20070815-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M cont'd				1	8270C-M	0815 18:30	0816 14:51 RL
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	ND	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20				
Pyrene	ND	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Pentachlorophenol	ND	ug/l	0.80				
Hexachlorobenzene	ND	ug/l	0.80				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
2,6-Dimethylnaphthalene	ND	ug/l	0.20				
1-Methylphenanthrene	ND	ug/l	0.20				
Benzo(e)Pyrene	ND	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.80				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	35.0	%	21-120				
Phenol-d6	29.0	%	10-120				
Nitrobenzene-d5	53.0	%	23-120				
2-Fluorobiphenyl	54.0	%	43-120				
2,4,6-Tribromophenol	59.0	%	10-120				
4-Terphenyl-d14	67.0	%	33-120				

Comments: Complete list of References and Glossary of Terms found in Addendum I





**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0711768-02  
EFF-20070815-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 624 cont'd				5 624	0816 10:06 MM		
cis-1,2-Dichloroethene	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
p/m-Xylene	ND	ug/l	2.0				
o-xylene	ND	ug/l	1.0				
Xylene (Total)	ND	ug/l	2.0				
Styrene	ND	ug/l	1.0				
Acetone	ND	ug/l	10.				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	10.				
Vinyl acetate	ND	ug/l	20.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Acrolein	ND	ug/l	8.0				
Acrylonitrile	ND	ug/l	10.				
Methyl tert butyl ether	ND	ug/l	20.				
1,4-Dioxane	ND	ug/l	2000				
Tert-Butyl Alcohol	ND	ug/l	100				
Tertiary-Amyl Methyl Ether	ND	ug/l	20.				
Surrogate(s)	Recovery		QC Criteria				
Pentafluorobenzene	83.0	%	80-120				
Fluorobenzene	96.0	%	80-120				
4-Bromofluorobenzene	108	%	80-120				
SVOC's by GC/MS 8270				1 8270C	0815 18:30 0816 14:29 AK		
Acenaphthene	ND	ug/l	4.9				
Benzidine	ND	ug/l	49.				
1,2,4-Trichlorobenzene	ND	ug/l	4.9				
Hexachlorobenzene	ND	ug/l	4.9				
Bis(2-chloroethyl)ether	ND	ug/l	4.9				
1-Chloronaphthalene	ND	ug/l	4.9				
2-Chloronaphthalene	ND	ug/l	5.9				
1,2-Dichlorobenzene	ND	ug/l	4.9				
1,3-Dichlorobenzene	ND	ug/l	4.9				
1,4-Dichlorobenzene	ND	ug/l	4.9				
3,3'-Dichlorobenzidine	ND	ug/l	49.				
2,4-Dinitrotoluene	ND	ug/l	5.9				
2,6-Dinitrotoluene	ND	ug/l	4.9				
Azobenzene	ND	ug/l	4.9				
Fluoranthene	ND	ug/l	4.9				
4-Chlorophenyl phenyl ether	ND	ug/l	4.9				
4-Bromophenyl phenyl ether	ND	ug/l	4.9				
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9				
Bis(2-chloroethoxy)methane	ND	ug/l	4.9				
Hexachlorobutadiene	ND	ug/l	9.9				
Hexachlorocyclopentadiene	ND	ug/l	30.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0711768-02  
EFF-20070815-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1 8270C	0815 18:30	0816 14:29	AK
Hexachloroethane	ND	ug/l	4.9				
Isophorone	ND	ug/l	4.9				
Naphthalene	ND	ug/l	4.9				
Nitrobenzene	ND	ug/l	4.9				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	4.9				
Bis(2-ethylhexyl)phthalate	ND	ug/l	4.9				
Butyl benzyl phthalate	ND	ug/l	4.9				
Di-n-butylphthalate	ND	ug/l	4.9				
Di-n-octylphthalate	ND	ug/l	4.9				
Diethyl phthalate	ND	ug/l	4.9				
Dimethyl phthalate	ND	ug/l	4.9				
Benzo(a)anthracene	ND	ug/l	4.9				
Benzo(a)pyrene	ND	ug/l	4.9				
Benzo(b)fluoranthene	ND	ug/l	4.9				
Benzo(k)fluoranthene	ND	ug/l	4.9				
Chrysene	ND	ug/l	4.9				
Acenaphthylene	ND	ug/l	4.9				
Anthracene	ND	ug/l	4.9				
Benzo(ghi)perylene	ND	ug/l	4.9				
Fluorene	ND	ug/l	4.9				
Phenanthrene	ND	ug/l	4.9				
Dibenzo(a,h)anthracene	ND	ug/l	4.9				
Indeno(1,2,3-cd)pyrene	ND	ug/l	6.9				
Pyrene	ND	ug/l	4.9				
Benzo(e)pyrene	ND	ug/l	4.9				
Biphenyl	ND	ug/l	4.9				
Perylene	ND	ug/l	4.9				
Aniline	ND	ug/l	20.				
4-Chloroaniline	ND	ug/l	4.9				
1-Methylnaphthalene	ND	ug/l	4.9				
2-Nitroaniline	ND	ug/l	4.9				
3-Nitroaniline	ND	ug/l	4.9				
4-Nitroaniline	ND	ug/l	6.9				
Dibenzofuran	ND	ug/l	4.9				
a,a-Dimethylphenethylamine	ND	ug/l	49.				
Hexachloropropene	ND	ug/l	9.9				
Nitrosodi-n-butylamine	ND	ug/l	9.9				
2-Methylnaphthalene	ND	ug/l	4.9				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	25.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	9.9				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	9.9				
Pentachloronitrobenzene	ND	ug/l	9.9				
Isodrin	ND	ug/l	9.9				
p-Dimethylaminoazobenzene	ND	ug/l	9.9				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0711768-02  
 EFF-20070815-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1 8270C	0815 18:30	0816 14:29	AK
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	20.				
n-Nitrosodimethylamine	ND	ug/l	49.				
2,4,6-Trichlorophenol	ND	ug/l	4.9				
p-Chloro-m-cresol	ND	ug/l	4.9				
2-Chlorophenol	ND	ug/l	5.9				
2,4-Dichlorophenol	ND	ug/l	9.9				
2,4-Dimethylphenol	ND	ug/l	9.9				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	9.9				
2,4-Dinitrophenol	ND	ug/l	30.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	9.9				
Phenol	ND	ug/l	6.9				
2-Methylphenol	ND	ug/l	5.9				
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9				
2,4,5-Trichlorophenol	ND	ug/l	4.9				
2,6-Dichlorophenol	ND	ug/l	9.9				
Benzoic Acid	ND	ug/l	49.				
Benzyl Alcohol	ND	ug/l	9.9				
Carbazole	ND	ug/l	4.9				
Pyridine	ND	ug/l	49.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	34.0	%		21-120			
Phenol-d6	27.0	%		10-120			
Nitrobenzene-d5	65.0	%		23-120			
2-Fluorobiphenyl	65.0	%		43-120			
2,4,6-Tribromophenol	103	%		10-120			
4-Terphenyl-d14	95.0	%		33-120			
PAH by GC/MS SIM 8270M				1 8270C-M	0815 18:30	0816 15:39	RL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	ND	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.49				
Naphthalene	ND	ug/l	0.20				
Benzo(a)anthracene	ND	ug/l	0.20				
Benzo(a)pyrene	ND	ug/l	0.20				
Benzo(b)fluoranthene	ND	ug/l	0.20				
Benzo(k)fluoranthene	ND	ug/l	0.20				
Chrysene	ND	ug/l	0.20				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0711768-02  
 EFF-20070815-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M cont'd				1	8270C-M	0815 18:30	0816 15:39 RL
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	ND	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20				
Pyrene	ND	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Pentachlorophenol	ND	ug/l	0.79				
Hexachlorobenzene	ND	ug/l	0.79				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
2,6-Dimethylnaphthalene	ND	ug/l	0.20				
1-Methylphenanthrene	ND	ug/l	0.20				
Benzo(e)Pyrene	ND	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.79				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	33.0	%	21-120				
Phenol-d6	28.0	%	10-120				
Nitrobenzene-d5	53.0	%	23-120				
2-Fluorobiphenyl	55.0	%	43-120				
2,4,6-Tribromophenol	63.0	%	10-120				
4-Terphenyl-d14	88.0	%	33-120				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number:	L0711768-03	Date Collected:	15-AUG-2007 13:31
	EFF2-20070808-01	Date Received :	15-AUG-2007
Sample Matrix:	WATER	Date Reported :	20-AUG-2007
Condition of Sample:	Satisfactory	Field Prep:	None
Number & Type of Containers:	1-Plastic		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP      ANAL	ID
Total Metals						
Arsenic, Total	0.0492	mg/l	0.0005	1 6020	0816 16:00 0817 16:10	BM
Copper, Total	0.0032	mg/l	0.0005	1 6020	0816 16:00 0817 16:10	BM
Iron, Total	0.75	mg/l	0.05	19 200.7	0816 16:00 0817 17:15	AI
Nickel, Total	0.0077	mg/l	0.0005	1 6020	0816 16:00 0817 16:10	BM

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS**

Laboratory Job Number: L0711768

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Solids, Total Suspended for sample(s) 01-02 (L0711768-01, WG291007-2)					
Solids, Total Suspended	3100	3100	mg/l	0	32
pH for sample(s) 01-02 (L0711768-02, WG290751-2)					
pH (H)	7.9	7.9	SU	0	5
Total Metals for sample(s) 01-03 (L0711768-03, WG290888-1)					
Arsenic, Total	0.0492	0.0478	mg/l	3	20
Copper, Total	0.0032	0.0032	mg/l	0	20
Nickel, Total	0.0077	0.0074	mg/l	3	20
Total Metals for sample(s) 01-03 (L0711768-03, WG290889-1)					
Iron, Total	0.75	0.75	mg/l	0	
Volatile Organics by GC/MS 624 for sample(s) 02 (L0711569-02, WG290639-2)					
Methylene chloride	ND	ND	ug/l	NC	30
1,1-Dichloroethane	ND	ND	ug/l	NC	30
Chloroform	ND	ND	ug/l	NC	30
Carbon tetrachloride	ND	ND	ug/l	NC	30
1,2-Dichloropropane	ND	ND	ug/l	NC	30
Dibromochloromethane	ND	ND	ug/l	NC	30
1,1,2-Trichloroethane	ND	ND	ug/l	NC	30
2-Chloroethylvinyl ether	ND	ND	ug/l	NC	30
Tetrachloroethene	ND	ND	ug/l	NC	30
Chlorobenzene	ND	ND	ug/l	NC	30
Trichlorofluoromethane	ND	ND	ug/l	NC	30
1,2-Dichloroethane	ND	ND	ug/l	NC	30
1,1,1-Trichloroethane	ND	ND	ug/l	NC	30
Bromodichloromethane	ND	ND	ug/l	NC	30
trans-1,3-Dichloropropene	ND	ND	ug/l	NC	30
cis-1,3-Dichloropropene	ND	ND	ug/l	NC	30
Bromoform	ND	ND	ug/l	NC	30
1,1,2,2-Tetrachloroethane	ND	ND	ug/l	NC	30
Benzene	ND	ND	ug/l	NC	30
Toluene	ND	ND	ug/l	NC	30
Ethylbenzene	ND	ND	ug/l	NC	30
Chloromethane	ND	ND	ug/l	NC	30
Bromomethane	ND	ND	ug/l	NC	30
Vinyl chloride	ND	ND	ug/l	NC	30
Chloroethane	ND	ND	ug/l	NC	30
1,1-Dichloroethene	ND	ND	ug/l	NC	30
trans-1,2-Dichloroethene	ND	ND	ug/l	NC	30
cis-1,2-Dichloroethene	ND	ND	ug/l	NC	30
Trichloroethene	ND	ND	ug/l	NC	30
1,2-Dichlorobenzene	ND	ND	ug/l	NC	30
1,3-Dichlorobenzene	ND	ND	ug/l	NC	30
1,4-Dichlorobenzene	ND	ND	ug/l	NC	30
p/m-Xylene	ND	ND	ug/l	NC	30
o-xylene	ND	ND	ug/l	NC	30

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0711768

Continued

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Volatile Organics by GC/MS 624 for sample(s) 02 (L0711569-02, WG290639-2)					
Xylene (Total)	ND	ND	ug/l	NC	30
Styrene	ND	ND	ug/l	NC	30
Acetone	ND	ND	ug/l	NC	30
Carbon disulfide	ND	ND	ug/l	NC	30
2-Butanone	ND	ND	ug/l	NC	30
Vinyl acetate	ND	ND	ug/l	NC	30
4-Methyl-2-pentanone	ND	ND	ug/l	NC	30
2-Hexanone	ND	ND	ug/l	NC	30
Acrolein	ND	ND	ug/l	NC	30
Acrylonitrile	ND	ND	ug/l	NC	30
Surrogate(s)	Recovery				QC Criteria
Pentafluorobenzene	81.0	81.0	%		80-120
Fluorobenzene	97.0	97.0	%		80-120
4-Bromofluorobenzene	107	109	%		80-120



ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0711768

Parameter	% Recovery	QC Criteria
pH LCS for sample(s) 01-02 (WG290751-1)		
pH	100	99-101
Total Metals LCS for sample(s) 01-03 (WG290888-4)		
Arsenic, Total	94	80-120
Copper, Total	100	80-120
Nickel, Total	101	80-120
Total Metals LCS for sample(s) 01-03 (WG290889-4)		
Iron, Total	99	
Volatile Organics by GC/MS 624 LCS for sample(s) 01 (WG291142-3)		
Methylene chloride	108	10-221
1,1-Dichloroethane	124	59-155
Chloroform	112	51-138
Carbon tetrachloride	141	70-140
1,2-Dichloropropane	95	10-210
Dibromochloromethane	115	53-149
1,1,2-Trichloroethane	103	52-150
2-Chloroethylvinyl ether	90	10-305
Tetrachloroethene	100	64-148
Chlorobenzene	101	37-160
Trichlorofluoromethane	132	17-181
1,2-Dichloroethane	124	49-155
1,1,1-Trichloroethane	162	52-162
Bromodichloromethane	116	35-155
trans-1,3-Dichloropropene	107	17-183
cis-1,3-Dichloropropene	110	10-227
Bromoform	128	45-169
1,1,2,2-Tetrachloroethane	98	46-157
Benzene	105	37-151
Toluene	93	47-150
Ethylbenzene	104	37-162
Chloromethane	107	10-273
Bromomethane	101	10-242
Vinyl chloride	132	10-251
Chloroethane	124	14-230
1,1-Dichloroethene	90	10-234
trans-1,2-Dichloroethene	106	54-156
cis-1,2-Dichloroethene	96	60-140
Trichloroethene	109	71-157
1,2-Dichlorobenzene	102	18-190
1,3-Dichlorobenzene	100	59-156
1,4-Dichlorobenzene	100	18-190
p/m-Xylene	108	40-160
o-Xylene	102	40-160
XYLENE (TOTAL)	106	40-160
Styrene	98	40-160
Acetone	122	40-160

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0711768

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 624 LCS for sample(s) 01 (WG291142-3)		
Carbon disulfide	113	40-160
2-Butanone	108	40-160
Vinyl acetate	81	40-160
4-Methyl-2-pentanone	110	40-160
2-Hexanone	109	40-160
Acrolein	86	40-160
Acrylonitrile	96	40-160
Surrogate(s)		
Pentafluorobenzene	101	80-120
Fluorobenzene	100	80-120
4-Bromofluorobenzene	101	80-120
Volatile Organics by GC/MS 624 LCS for sample(s) 02 (WG290639-9)		
Methylene chloride	102	10-221
1,1-Dichloroethane	92	59-155
Chloroform	100	51-138
Carbon tetrachloride	103	70-140
1,2-Dichloropropane	96	10-210
Dibromochloromethane	99	53-149
1,1,2-Trichloroethane	95	52-150
2-Chloroethylvinyl ether	61	10-305
Tetrachloroethene	96	64-148
Chlorobenzene	93	37-160
Trichlorofluoromethane	108	17-181
1,2-Dichloroethane	105	49-155
1,1,1-Trichloroethane	99	52-162
Bromodichloromethane	96	35-155
trans-1,3-Dichloropropene	96	17-183
cis-1,3-Dichloropropene	91	10-227
Bromoform	91	45-169
1,1,2,2-Tetrachloroethane	94	46-157
Benzene	108	37-151
Toluene	104	47-150
Ethylbenzene	112	37-162
Chloromethane	97	10-273
Bromomethane	100	10-242
Vinyl chloride	123	10-251
Chloroethane	123	14-230
1,1-Dichloroethene	102	10-234
trans-1,2-Dichloroethene	88	54-156
cis-1,2-Dichloroethene	100	60-140
Trichloroethene	97	71-157
1,2-Dichlorobenzene	98	18-190
1,3-Dichlorobenzene	99	59-156
1,4-Dichlorobenzene	105	18-190
p/m-Xylene	114	40-160
o-Xylene	104	40-160

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0711768

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 624 LCS for sample(s) 02 (WG290639-9)		
XYLENE (TOTAL)	111	40-160
Styrene	91	40-160
Acetone	123	40-160
Carbon disulfide	119	40-160
2-Butanone	84	40-160
Vinyl acetate	112	40-160
4-Methyl-2-pentanone	89	40-160
2-Hexanone	91	40-160
Acrolein	108	40-160
Acrylonitrile	96	40-160
Surrogate(s)		
Pentafluorobenzene	107	80-120
Fluorobenzene	106	80-120
4-Bromofluorobenzene	96	80-120
SVOC's by GC/MS 8270 LCS for sample(s) 01-02 (WG290753-2)		
Acenaphthene	76	46-118
1,2,4-Trichlorobenzene	71	39-98
2-Chloronaphthalene	80	40-140
1,2-Dichlorobenzene	65	40-140
1,4-Dichlorobenzene	66	36-97
2,4-Dinitrotoluene	88	24-96
2,6-Dinitrotoluene	103	40-140
Fluoranthene	96	40-140
4-Chlorophenyl phenyl ether	90	40-140
n-Nitrosodi-n-propylamine	60	41-116
Butyl benzyl phthalate	97	40-140
Anthracene	68	40-140
Pyrene	93	26-127
Hexachloropropene	80	40-140
P-Chloro-M-Cresol	80	23-97
2-Chlorophenol	62	27-123
2-Nitrophenol	72	30-130
4-Nitrophenol	38	10-80
2,4-Dinitrophenol	86	30-130
Pentachlorophenol	93	9-103
Phenol	24	12-110
Surrogate(s)		
2-Fluorophenol	41	21-120
Phenol-d6	32	10-120
Nitrobenzene-d5	75	23-120
2-Fluorobiphenyl	80	43-120
2,4,6-Tribromophenol	116	10-120
4-Terphenyl-d14	96	33-120

**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES**

Laboratory Job Number: L0711768

Continued

Parameter	% Recovery	QC Criteria
PAH by GC/MS SIM 8270M LCS for sample(s) 01-02 (WG290754-2)		
Acenaphthene	55	40-140
2-Chloronaphthalene	51	40-140
Fluoranthene	62	40-140
Anthracene	51	40-140
Pyrene	64	40-140
Pentachlorophenol	57	30-130
Surrogate(s)		
2-Fluorophenol	34	21-120
Phenol-d6	27	10-120
Nitrobenzene-d5	52	23-120
2-Fluorobiphenyl	53	43-120
2,4,6-Tribromophenol	67	10-120
4-Terphenyl-d14	84	33-120
Total Metals SPIKE for sample(s) 01-03 (L0711768-03, WG290888-2)		
Arsenic, Total	97	80-120
Copper, Total	99	80-120
Nickel, Total	101	80-120
Total Metals SPIKE for sample(s) 01-03 (L0711768-03, WG290889-2)		
Iron, Total	95	
Volatile Organics by GC/MS 624 SPIKE for sample(s) 02 (L0711569-02, WG290639-1)		
Methylene chloride	130	10-221
1,1-Dichloroethane	112	59-155
Chloroform	127	51-138
Carbon tetrachloride	129	70-140
1,2-Dichloropropane	125	10-210
Dibromochloromethane	101	53-149
1,1,2-Trichloroethane	96	52-150
2-Chloroethylvinyl ether	75	10-305
Tetrachloroethene	100	64-148
Chlorobenzene	89	37-160
Trichlorofluoromethane	142	17-181
1,2-Dichloroethane	136	49-155
1,1,1-Trichloroethane	124	52-162
Bromodichloromethane	98	35-155
trans-1,3-Dichloropropene	88	17-183
cis-1,3-Dichloropropene	77	10-227
Bromoform	85	45-169
1,1,2,2-Tetrachloroethane	90	46-157
Benzene	143	35-151
Toluene	106	47-150
Ethylbenzene	107	37-162
Chloromethane	108	10-273
Bromomethane	107	10-242
Vinyl chloride	160	10-251

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0711768

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 624 SPIKE for sample(s) 02 (L0711569-02, WG290639-1)		
Chloroethane	151	14-230
1,1-Dichloroethene	137	10-234
trans-1,2-Dichloroethene	113	54-156
cis-1,2-Dichloroethene	131	60-140
Trichloroethene	124	71-157
1,2-Dichlorobenzene	88	18-190
1,3-Dichlorobenzene	86	59-156
1,4-Dichlorobenzene	95	18-190
p/m-Xylene	108	40-160
o-Xylene	102	40-160
XYLENE (TOTAL)	106	40-160
Styrene	88	40-160
Acetone	145	40-160
Carbon disulfide	134	40-160
2-Butanone	113	40-160
Vinyl acetate	96	40-160
4-Methyl-2-pentanone	101	40-160
2-Hexanone	102	40-160
Acrolein	119	40-160
Acrylonitrile	135	40-160
Surrogate(s)		
Pentafluorobenzene	99	80-120
Fluorobenzene	106	80-120
4-Bromofluorobenzene	100	80-120
Volatile Organics by GC/MS 624 SPIKE for sample(s) 01 (L0711787-06, WG291142-1)		
Methylene chloride	104	10-221
1,1-Dichloroethane	117	59-155
Chloroform	114	51-138
Carbon tetrachloride	146	70-140
1,2-Dichloropropane	96	10-210
Dibromochloromethane	106	53-149
1,1,2-Trichloroethane	96	52-150
2-Chloroethylvinyl ether	85	10-305
Tetrachloroethene	96	64-148
Chlorobenzene	99	37-160
Trichlorofluoromethane	137	17-181
1,2-Dichloroethane	126	49-155
1,1,1-Trichloroethane	170	52-162
Bromodichloromethane	103	35-155
trans-1,3-Dichloropropene	101	17-183
cis-1,3-Dichloropropene	99	10-227
Bromoform	125	45-169
1,1,2,2-Tetrachloroethane	94	46-157
Benzene	107	35-151
Toluene	96	47-150
Ethylbenzene	106	37-162

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0711768

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 624 SPIKE for sample(s) 01 (L0711787-06, WG291142-1)		
Chloromethane	100	10-273
Bromomethane	95	10-242
Vinyl chloride	126	10-251
Chloroethane	129	14-230
1,1-Dichloroethene	96	10-234
trans-1,2-Dichloroethene	100	54-156
cis-1,2-Dichloroethene	98	60-140
Trichloroethene	106	71-157
1,2-Dichlorobenzene	91	18-190
1,3-Dichlorobenzene	89	59-156
1,4-Dichlorobenzene	88	18-190
p/m-Xylene	105	40-160
o-Xylene	100	40-160
XYLENE (TOTAL)	103	40-160
Styrene	86	40-160
Acetone	139	40-160
Carbon disulfide	105	40-160
2-Butanone	107	40-160
Vinyl acetate	82	40-160
4-Methyl-2-pentanone	100	40-160
2-Hexanone	100	40-160
Acrolein	86	40-160
Acrylonitrile	90	40-160
Surrogate(s)		
Pentafluorobenzene	104	80-120
Fluorobenzene	105	80-120
4-Bromofluorobenzene	103	80-120

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH MS/MSD ANALYSIS**

Laboratory Job Number: L0711768

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
SVOC's by GC/MS 8270 for sample(s) 01-02 (L0711768-02, WG290753-4)					
Acenaphthene	67	72	7	30	46-118
1,2,4-Trichlorobenzene	58	62	7	30	39-98
2-Chloronaphthalene	67	77	14	30	40-140
1,2-Dichlorobenzene	53	62	16	30	40-140
1,4-Dichlorobenzene	53	62	16	30	36-97
2,4-Dinitrotoluene	77	86	11	30	24-96
2,6-Dinitrotoluene	86	96	11	30	40-140
Fluoranthene	91	96	5	30	40-140
4-Chlorophenyl phenyl ether	77	86	11	30	40-140
n-Nitrosodi-n-propylamine	53	58	9	30	41-116
Butyl benzyl phthalate	91	100	9	30	40-140
Anthracene	62	67	8	30	40-140
Pyrene	86	96	11	30	26-127
Hexachloropropene	67	77	14	30	40-140
P-Chloro-M-Cresol	67	79	16	30	23-97
2-Chlorophenol	55	58	5	30	27-123
2-Nitrophenol	60	67	11	30	30-130
4-Nitrophenol	58	65	11	30	10-80
2,4-Dinitrophenol	77	84	9	30	30-130
Pentachlorophenol	89	96	8	30	9-103
Phenol	34	36	6	30	12-110
Surrogate(s)					
2-Fluorophenol	45	52	14		21-120
Phenol-d6	44	50	13		10-120
Nitrobenzene-d5	62	65	5		23-120
2-Fluorobiphenyl	67	73	9		43-120
2,4,6-Tribromophenol	103	111	7		10-120
4-Terphenyl-d14	87	94	8		33-120
PAH by GC/MS SIM 8270M for sample(s) 01-02 (L0711768-02, WG290754-4)					
Acenaphthene	62	67	8	40	40-140
2-Chloronaphthalene	58	62	7	40	40-140
Fluoranthene	72	72	0	40	40-140
Anthracene	58	58	0	40	40-140
Pyrene	72	77	7	40	40-140
Pentachlorophenol	65	70	7	40	30-130
Surrogate(s)					
2-Fluorophenol	48	51	6		21-120
Phenol-d6	50	52	4		10-120
Nitrobenzene-d5	58	60	3		23-120
2-Fluorobiphenyl	62	64	3		43-120
2,4,6-Tribromophenol	63	66	5		10-120
4-Terphenyl-d14	86	89	3		33-120

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0711768

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02 (WG291007-1)							
Solids, Total Suspended	ND	mg/l	5.0	30 2540D		0817 14:15	DW
Blank Analysis for sample(s) 01-03 (WG290888-3)							
Total Metals							
Arsenic, Total	ND	mg/l	0.0005	1 6020	0816 16:00	0817 15:47	BM
Copper, Total	ND	mg/l	0.0005	1 6020	0816 16:00	0817 15:47	BM
Nickel, Total	ND	mg/l	0.0005	1 6020	0816 16:00	0817 15:47	BM
Blank Analysis for sample(s) 01-03 (WG290889-3)							
Total Metals							
Iron, Total	ND	mg/l	0.05	19 200.7	0816 16:00	0817 16:58	AI
Blank Analysis for sample(s) 02 (WG290639-8)							
Volatile Organics by GC/MS 624							
Methylene chloride	ND	ug/l	5.0	5 624		0815 08:38	MM
1,1-Dichloroethane	ND	ug/l	1.5				
Chloroform	ND	ug/l	1.5				
Carbon tetrachloride	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	3.5				
Dibromochloromethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.5				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Tetrachloroethene	ND	ug/l	1.5				
Chlorobenzene	ND	ug/l	3.5				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.5				
1,1,1-Trichloroethane	ND	ug/l	2.0				
Bromodichloromethane	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.5				
cis-1,3-Dichloropropene	ND	ug/l	1.5				
Bromoform	ND	ug/l	1.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.0				
Ethylbenzene	ND	ug/l	1.0				
Chloromethane	ND	ug/l	10.				
Bromomethane	ND	ug/l	5.0				
Vinyl chloride	ND	ug/l	2.0				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.5				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				



ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0711768

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02 (WG290639-8)							
Volatile Organics by GC/MS 624 cont'd				5 624		0815 08:38 MM	
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
p/m-Xylene	ND	ug/l	2.0				
o-xylene	ND	ug/l	1.0				
Xylene (Total)	ND	ug/l	2.0				
Styrene	ND	ug/l	1.0				
Acetone	ND	ug/l	10.				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	10.				
Vinyl acetate	ND	ug/l	20.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Acrolein	ND	ug/l	8.0				
Acrylonitrile	ND	ug/l	10.				
Surrogate(s)	Recovery		QC Criteria				
Pentafluorobenzene	115	%	80-120				
Fluorobenzene	108	%	80-120				
4-Bromofluorobenzene	106	%	80-120				
Blank Analysis for sample(s) 01-02 (WG290753-1)							
SVOC's by GC/MS 8270				1 8270C		0815 18:30 0816 12:24 AK	
Acenaphthene	ND	ug/l	5.0				
Benzidine	ND	ug/l	50.				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
Hexachlorobenzene	ND	ug/l	5.0				
Bis(2-chloroethyl)ether	ND	ug/l	5.0				
1-Chloronaphthalene	ND	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	6.0				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
3,3'-Dichlorobenzidine	ND	ug/l	50.				
2,4-Dinitrotoluene	ND	ug/l	6.0				
2,6-Dinitrotoluene	ND	ug/l	5.0				
Azobenzene	ND	ug/l	5.0				
Fluoranthene	ND	ug/l	5.0				
4-Chlorophenyl phenyl ether	ND	ug/l	5.0				
4-Bromophenyl phenyl ether	ND	ug/l	5.0				
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0				
Bis(2-chloroethoxy)methane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	10.				
Hexachlorocyclopentadiene	ND	ug/l	30.				
Hexachloroethane	ND	ug/l	5.0				
Isophorone	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0711768

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02 (WG290753-1)							
SVOC's by GC/MS 8270 cont'd				1	8270C	0815 18:30	0816 12:24 AK
Nitrobenzene	ND	ug/l	5.0				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	5.0				
Bis(2-ethylhexyl)phthalate	ND	ug/l	5.0				
Butyl benzyl phthalate	ND	ug/l	5.0				
Di-n-butylphthalate	ND	ug/l	5.0				
Di-n-octylphthalate	ND	ug/l	5.0				
Diethyl phthalate	ND	ug/l	5.0				
Dimethyl phthalate	ND	ug/l	5.0				
Benzo(a)anthracene	ND	ug/l	5.0				
Benzo(a)pyrene	ND	ug/l	5.0				
Benzo(b)fluoranthene	ND	ug/l	5.0				
Benzo(k)fluoranthene	ND	ug/l	5.0				
Chrysene	ND	ug/l	5.0				
Acenaphthylene	ND	ug/l	5.0				
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0				
Pyrene	ND	ug/l	5.0				
Benzo(e)pyrene	ND	ug/l	5.0				
Biphenyl	ND	ug/l	5.0				
Perylene	ND	ug/l	5.0				
Aniline	ND	ug/l	20.				
4-Chloroaniline	ND	ug/l	5.0				
1-Methylnaphthalene	ND	ug/l	5.0				
2-Nitroaniline	ND	ug/l	5.0				
3-Nitroaniline	ND	ug/l	5.0				
4-Nitroaniline	ND	ug/l	7.0				
Dibenzofuran	ND	ug/l	5.0				
a,a-Dimethylphenethylamine	ND	ug/l	50.				
Hexachloropropene	ND	ug/l	10.				
Nitrosodi-n-butylamine	ND	ug/l	10.				
2-Methylnaphthalene	ND	ug/l	5.0				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.				
Pentachlorobenzene	ND	ug/l	20.				
a-Naphthylamine	ND	ug/l	25.				
b-Naphthylamine	ND	ug/l	20.				
Phenacetin	ND	ug/l	10.				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	10.				
Pentachloronitrobenzene	ND	ug/l	10.				
Isodrin	ND	ug/l	10.				
p-Dimethylaminoazobenzene	ND	ug/l	10.				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0711768

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02 (WG290753-1)							
SVOC's by GC/MS 8270 cont'd				1	8270C	0815 18:30	0816 12:24 AK
Chlorobenzilate	ND	ug/l	20.				
3-Methylcholanthrene	ND	ug/l	20.				
Ethyl Methanesulfonate	ND	ug/l	15.				
Acetophenone	ND	ug/l	20.				
Nitrosodipiperidine	ND	ug/l	20.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	20.				
n-Nitrosodimethylamine	ND	ug/l	50.				
2,4,6-Trichlorophenol	ND	ug/l	5.0				
p-Chloro-m-cresol	ND	ug/l	5.0				
2-Chlorophenol	ND	ug/l	6.0				
2,4-Dichlorophenol	ND	ug/l	10.				
2,4-Dimethylphenol	ND	ug/l	10.				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	10.				
2,4-Dinitrophenol	ND	ug/l	30.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	10.				
Phenol	ND	ug/l	7.0				
2-Methylphenol	ND	ug/l	6.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	50.				
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	50.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	35.0	%		21-120			
Phenol-d6	25.0	%		10-120			
Nitrobenzene-d5	55.0	%		23-120			
2-Fluorobiphenyl	60.0	%		43-120			
2,4,6-Tribromophenol	89.0	%		10-120			
4-Terphenyl-d14	88.0	%		33-120			
Blank Analysis for sample(s) 01-02 (WG290754-1)							
PAH by GC/MS SIM 8270M				1	8270C-M	0815 18:30	0816 11:32 RL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	ND	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.20				
Benzo(a)anthracene	ND	ug/l	0.20				

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0711768

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02 (WG290754-1)							
PAH by GC/MS SIM 8270M cont'd				1 8270C-M	0815 18:30	0816 11:32	RL
Benzo(a)pyrene	ND	ug/l	0.20				
Benzo(b)fluoranthene	ND	ug/l	0.20				
Benzo(k)fluoranthene	ND	ug/l	0.20				
Chrysene	ND	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	ND	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20				
Pyrene	ND	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Pentachlorophenol	ND	ug/l	0.80				
Hexachlorobenzene	ND	ug/l	0.80				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
2,6-Dimethylnaphthalene	ND	ug/l	0.20				
1-Methylphenanthrene	ND	ug/l	0.20				
Benzo(e)Pyrene	ND	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.80				
Surrogate(s)	Recovery			QC Criteria			
2-Fluorophenol	36.0	%		21-120			
Phenol-d6	29.0	%		10-120			
Nitrobenzene-d5	54.0	%		23-120			
2-Fluorobiphenyl	55.0	%		43-120			
2,4,6-Tribromophenol	63.0	%		10-120			
4-Terphenyl-d14	101	%		33-120			

**ALPHA ANALYTICAL LABORATORIES**  
**ADDENDUM I**

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**REFERENCES**

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
5. Methods for the Organic Chemical Analysis of Municipal and Industrial Wastewater. Appendix A, Part 136, 40 CFR (Code of Federal Regulations).
19. Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

**GLOSSARY OF TERMS AND SYMBOLS**

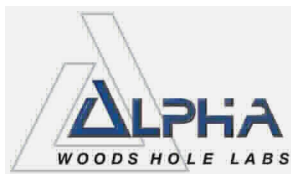
REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

**LIMITATION OF LIABILITIES**

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.





## ANALYTICAL REPORT

Lab Number: L0712298  
Client: ERM-New England  
399 Boylston Street  
6th Floor  
Boston, MA 02116  
ATTN: Jason Flattery  
Project Name: NA SOIL EXCAVATION  
Project Number: 0051545  
Report Date: 08/28/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712298  
**Report Date:** 08/28/07

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>
L0712298-01	HYD-20070823-01	RAYTHEON WAYLAND
L0712298-02	FRAC4-20070823-01	RAYTHEON WAYLAND



Project Name: NA SOIL EXCAVATION

Lab Number: L0712298

Project Number: 0051545

Report Date: 08/28/07

### MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A

A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO

**For any questions answered "No", please refer to the case narrative section on the following page(s).**

**Please note that sample matrix information is located in the Sample Results section of this report.**



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712298  
**Report Date:** 08/28/07

### Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

#### Report Submission

It should be noted that this is a final report to replace the preliminary report issued on August 27, 2007. This report includes final data for all requested analytes.

#### MCP Related Narratives:

##### Metals

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Title: Technical Director/Representative

Date: 08/28/07

# METALS



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712298**Project Number:** 0051545**Report Date:** 08/28/07**SAMPLE RESULTS**

Lab ID: L0712298-01

Date Collected: 08/23/07 14:25

Client ID: HYD-20070823-01

Date Received: 08/24/07

Sample Location: RAYTHEON WAYLAND

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals by MCP 6000/7000 series</b>										
Arsenic, Total	0.005		mg/l	0.005	1		08/28/07 15:03	EPA 3005A	60,6010B	AI
Copper, Total	0.011		mg/l	0.010	1		08/28/07 15:03	EPA 3005A	60,6010B	AI
Iron, Total	0.30		mg/l	0.05	1		08/28/07 15:03	EPA 3005A	60,6010B	AI
Nickel, Total	ND		mg/l	0.025	1		08/28/07 15:03	EPA 3005A	60,6010B	AI



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712298**Project Number:** 0051545**Report Date:** 08/28/07**SAMPLE RESULTS**

Lab ID: L0712298-02

Date Collected: 08/23/07 14:20

Client ID: FRAC4-20070823-01

Date Received: 08/24/07

Sample Location: RAYTHEON WAYLAND

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals by MCP 6000/7000 series</b>										
Arsenic, Total	0.016		mg/l	0.005	1		08/28/07 15:06	EPA 3005A	60,6010B	AI
Copper, Total	0.013		mg/l	0.010	1		08/28/07 15:06	EPA 3005A	60,6010B	AI
Iron, Total	ND		mg/l	0.05	1		08/28/07 15:06	EPA 3005A	60,6010B	AI
Nickel, Total	ND		mg/l	0.025	1		08/28/07 15:06	EPA 3005A	60,6010B	AI



Project Name: NA SOIL EXCAVATION

Lab Number: L0712298

Project Number: 0051545

Report Date: 08/28/07

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals by MCP 6000/7000 series for sample(s): 01-02 Batch: WG291967-1								
Arsenic, Total	ND	mg/l	0.005	1		08/27/07 15:53	60,6010B	AI
Copper, Total	ND	mg/l	0.010	1		08/27/07 15:53	60,6010B	AI
Iron, Total	ND	mg/l	0.05	1		08/27/07 15:53	60,6010B	AI
Nickel, Total	ND	mg/l	0.025	1		08/27/07 15:53	60,6010B	AI

### Prep Information

Digestion Method: EPA 3005A



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712298

**Report Date:** 08/28/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals by MCP 6000/7000 series Associated sample(s): 01-02 Batch: WG291967-2 WG291967-3					
Arsenic, Total	98	104	80-120	6	20
Copper, Total	99	93	80-120	6	20
Iron, Total	92	96	80-120	4	20
Nickel, Total	92	97	80-120	5	20

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712298**Project Number:** 0051545**Report Date:** 08/28/07**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information**

Cooler	Custody Seal
A	Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0712298-01A	Plastic 500ml HNO3 preserved	A	<2	2C	Y	Absent	MCP-AS-6010T,MCP-CU-6010T,MCP-FE-6010T,MCP-NI-6010T
L0712298-02A	Plastic 500ml HNO3 preserved	A	<2	2C	Y	Absent	MCP-AS-6010T,MCP-CU-6010T,MCP-FE-6010T,MCP-NI-6010T

**Container Comments**

L0712298-01A Temp Probe

L0712298-02A Temp Probe



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712298  
**Report Date:** 08/28/07

## GLOSSARY

### Acronyms

- EPA - Environmental Protection Agency.  
LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.  
LCSD- Laboratory Control Sample Duplicate: Refer to LCS.  
MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.  
MSD - Matrix Spike Sample Duplicate: Refer to MS.  
NA - Not Applicable.  
NI - Not Ignitable.  
NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.  
ND - Not detected at the reported detection limit for the sample.  
RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.  
RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

### Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712298  
**Report Date:** 08/28/07

## REFERENCES

- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

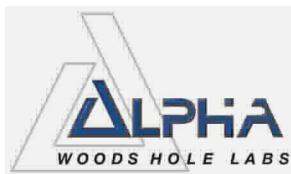
## LIMITATION OF LIABILITIES

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We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.







## ANALYTICAL REPORT

Lab Number: L0712179

Client: ERM-New England  
399 Boylston Street  
6th Floor  
Boston, MA 02116

ATTN: Jason Flattery

Project Name: NA SOIL EXCAVATION

Project Number: 0051545

Report Date: 08/27/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>
L0712179-01	*EL-AB23-20070822-01	RAYTHEON WAYLAND
L0712179-02	EL-AB45-20070822-01	RAYTHEON WAYLAND
L0712179-03	EL-AB67-20070822-01	RAYTHEON WAYLAND
L0712179-04	*EL-CD23-20070822-01	RAYTHEON WAYLAND
L0712179-05	EL-CD45-20070822-01	RAYTHEON WAYLAND
L0712179-06	EL-CD67-20070822-01	RAYTHEON WAYLAND
L0712179-07	*EL-EF23-20070822-01	RAYTHEON WAYLAND
L0712179-08	EL-EF45-20070822-01	RAYTHEON WAYLAND
L0712179-09	EL-EF67-20070822-01	RAYTHEON WAYLAND
L0712179-10	*EL-GH23-20070822-01	RAYTHEON WAYLAND
L0712179-11	EL-GH45-20070822-01	RAYTHEON WAYLAND
L0712179-12	EL-GH67-20070822-01	RAYTHEON WAYLAND
L0712179-13	EL-DE8-20070822-01	RAYTHEON WAYLAND
L0712179-14	*EL-DE1-20070822-01	RAYTHEON WAYLAND
L0712179-15	EL-STEP1-20070822-01	RAYTHEON WAYLAND
L0712179-16	EL-STEP2-20070822-01	RAYTHEON WAYLAND
L0712179-17	EL-STEP3-20070822-01	RAYTHEON WAYLAND
L0712179-18	EL-STEP4-20070822-01	RAYTHEON WAYLAND
L0712179-19	DUP-001-20070822-01	RAYTHEON WAYLAND

Project Name: NA SOIL EXCAVATION

Lab Number: L0712179

Project Number: 0051545

Report Date: 08/27/07

### MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A
A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	YES
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

### Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

#### MCP Related Narratives

##### Volatile Organics

L0712179-01 through -04, -07, -10, and -14 through -18 were processed against a calibration curve that utilized a quadratic fit for 2,2-Dichloropropane and L0712179-19 was processed against calibration curve, that utilized a quadratic fit for cis-1,3-Dichloroethene and trans-1,3-Dichloroethene.

L0712179-14 and -15 results for Trichloroethene are estimated because it exceeded the level of calibration. A high level screen analysis was performed and indicated this compound was present at a concentration of 132 ppb and 280ppb, respectively.

In reference to question E:

The WG291724-1/2 and WG291764-1/2 LCS/LCSD % recoveries for Trichlorofluoromethane are above the individual acceptance criteria for the compound, but within the overall method allowances.

The WG291744-4/5 LCS/LCSD % recoveries for Dichlorodifluoromethane, and the LCS % recovery for Bromomethane, both difficult analytes, are below the individual acceptance criteria for the compounds, but within the overall method allowances.

The WG291767-1 LCS % recovery for 2,2-Dichloropropane, a difficult analyte, is below, and the LCS % recoveries for Chloroethane and Trichlorofluoromethane are above, the individual acceptance criteria for the compounds, but within the overall method allowances.

The WG291909-1/2 LCS/LCSD % recoveries for Dichlorodifluoromethane and 2,2-Dichloropropane, both difficult analytes, are below the individual acceptance criteria for the compounds and the LCSD % recovery for Trichlorofluoromethane is above the individual acceptance criteria for the compounds, but within the overall method allowances.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: 

Title: Technical Director/Representative

Date: 08/27/07

# ORGANICS



# VOLATILES

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712179-01  
**Client ID:** \*EL-AB23-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Analytical Method:** 60,8260B  
**Analytical Date:** 08/23/07 19:39  
**Analyst:** SE  
**Percent Solids:** 81%

**Date Collected:** 08/22/07 14:00  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	11	1
1,1-Dichloroethane	ND		ug/kg	1.7	1
Chloroform	ND		ug/kg	1.7	1
Carbon tetrachloride	ND		ug/kg	1.1	1
1,2-Dichloropropane	ND		ug/kg	3.9	1
Dibromochloromethane	ND		ug/kg	1.1	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	1
Tetrachloroethene	ND		ug/kg	1.1	1
Chlorobenzene	2.7		ug/kg	1.1	1
Trichlorofluoromethane	ND		ug/kg	5.6	1
1,2-Dichloroethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	1
Bromodichloromethane	ND		ug/kg	1.1	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	1
1,1-Dichloropropene	ND		ug/kg	5.6	1
Bromoform	ND		ug/kg	4.5	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	1
Benzene	ND		ug/kg	1.1	1
Toluene	ND		ug/kg	1.7	1
Ethylbenzene	ND		ug/kg	1.1	1
Chloromethane	ND		ug/kg	5.6	1
Bromomethane	ND		ug/kg	2.2	1
Vinyl chloride	ND		ug/kg	2.2	1
Chloroethane	ND		ug/kg	2.2	1
1,1-Dichloroethene	ND		ug/kg	1.1	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	1
Trichloroethene	ND		ug/kg	1.1	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-01

Date Collected: 08/22/07 14:00

Client ID: \*EL-AB23-20070822-01

Date Received: 08/22/07

Sample Location: RAYTHEON WAYLAND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	5.6	1
Methyl tert butyl ether	ND		ug/kg	2.2	1
p/m-Xylene	ND		ug/kg	2.2	1
o-Xylene	ND		ug/kg	2.2	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	1
Dibromomethane	ND		ug/kg	11	1
1,2,3-Trichloropropane	ND		ug/kg	11	1
Styrene	ND		ug/kg	2.2	1
Dichlorodifluoromethane	ND		ug/kg	11	1
Acetone	16		ug/kg	11	1
Carbon disulfide	ND		ug/kg	56	1
2-Butanone	ND		ug/kg	11	1
4-Methyl-2-pentanone	ND		ug/kg	11	1
2-Hexanone	ND		ug/kg	11	1
Bromochloromethane	ND		ug/kg	5.6	1
Tetrahydrofuran	ND		ug/kg	22	1
2,2-Dichloropropane	ND		ug/kg	5.6	1
1,2-Dibromoethane	ND		ug/kg	4.5	1
1,3-Dichloropropane	ND		ug/kg	5.6	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Bromobenzene	ND		ug/kg	5.6	1
n-Butylbenzene	ND		ug/kg	1.1	1
sec-Butylbenzene	ND		ug/kg	1.1	1
tert-Butylbenzene	ND		ug/kg	5.6	1
o-Chlorotoluene	ND		ug/kg	5.6	1
p-Chlorotoluene	ND		ug/kg	5.6	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	1
Hexachlorobutadiene	ND		ug/kg	5.6	1
Isopropylbenzene	ND		ug/kg	1.1	1
p-Isopropyltoluene	ND		ug/kg	1.1	1
Naphthalene	ND		ug/kg	5.6	1
n-Propylbenzene	ND		ug/kg	1.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	1
Ethyl ether	ND		ug/kg	5.6	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-01

Date Collected: 08/22/07 14:00

Client ID: \*EL-AB23-20070822-01

Date Received: 08/22/07

Sample Location: RAYTHEON WAYLAND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.5	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.5	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.5	1
1,4-Dioxane	ND		ug/kg	560	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	90		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712179-02  
**Client ID:** EL-AB45-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/23/07 22:34  
**Analyst:** SE  
**Percent Solids:** 80%

**Date Collected:** 08/22/07 14:05  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	11	1
1,1-Dichloroethane	ND		ug/kg	1.7	1
Chloroform	ND		ug/kg	1.7	1
Carbon tetrachloride	ND		ug/kg	1.1	1
1,2-Dichloropropane	ND		ug/kg	3.9	1
Dibromochloromethane	ND		ug/kg	1.1	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	1
Tetrachloroethene	ND		ug/kg	1.1	1
Chlorobenzene	7.3		ug/kg	1.1	1
Trichlorofluoromethane	ND		ug/kg	5.6	1
1,2-Dichloroethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	1
Bromodichloromethane	ND		ug/kg	1.1	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	1
1,1-Dichloropropene	ND		ug/kg	5.6	1
Bromoform	ND		ug/kg	4.5	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	1
Benzene	ND		ug/kg	1.1	1
Toluene	ND		ug/kg	1.7	1
Ethylbenzene	ND		ug/kg	1.1	1
Chloromethane	ND		ug/kg	5.6	1
Bromomethane	ND		ug/kg	2.2	1
Vinyl chloride	ND		ug/kg	2.2	1
Chloroethane	ND		ug/kg	2.2	1
1,1-Dichloroethene	ND		ug/kg	1.1	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	1
Trichloroethene	ND		ug/kg	1.1	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	1

Project Name: NA SOIL EXCAVATION

Lab Number: L0712179

Project Number: 0051545

Report Date: 08/27/07

## SAMPLE RESULTS

Lab ID: L0712179-02  
 Client ID: EL-AB45-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:05  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
1,4-Dichlorobenzene	ND		ug/kg	5.6	1
Methyl tert butyl ether	ND		ug/kg	2.2	1
p/m-Xylene	ND		ug/kg	2.2	1
o-Xylene	ND		ug/kg	2.2	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	1
Dibromomethane	ND		ug/kg	11	1
1,2,3-Trichloropropane	ND		ug/kg	11	1
Styrene	ND		ug/kg	2.2	1
Dichlorodifluoromethane	ND		ug/kg	11	1
Acetone	14		ug/kg	11	1
Carbon disulfide	ND		ug/kg	56	1
2-Butanone	ND		ug/kg	11	1
4-Methyl-2-pentanone	ND		ug/kg	11	1
2-Hexanone	ND		ug/kg	11	1
Bromochloromethane	ND		ug/kg	5.6	1
Tetrahydrofuran	ND		ug/kg	22	1
2,2-Dichloropropane	ND		ug/kg	5.6	1
1,2-Dibromoethane	ND		ug/kg	4.5	1
1,3-Dichloropropane	ND		ug/kg	5.6	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Bromobenzene	ND		ug/kg	5.6	1
n-Butylbenzene	ND		ug/kg	1.1	1
sec-Butylbenzene	ND		ug/kg	1.1	1
tert-Butylbenzene	ND		ug/kg	5.6	1
o-Chlorotoluene	ND		ug/kg	5.6	1
p-Chlorotoluene	ND		ug/kg	5.6	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	1
Hexachlorobutadiene	ND		ug/kg	5.6	1
Isopropylbenzene	ND		ug/kg	1.1	1
p-Isopropyltoluene	ND		ug/kg	1.1	1
Naphthalene	ND		ug/kg	5.6	1
n-Propylbenzene	ND		ug/kg	1.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	1
Ethyl ether	ND		ug/kg	5.6	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-02  
 Client ID: EL-AB45-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:05  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.5	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.5	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.5	1
1,4-Dioxane	ND		ug/kg	560	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-03  
 Client ID: EL-AB67-20070822-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil  
 Analytical Method: 60,8260B  
 Analytical Date: 08/23/07 23:08  
 Analyst: SE  
 Percent Solids: 77%

Date Collected: 08/22/07 14:10  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	11	1
1,1-Dichloroethane	ND		ug/kg	1.7	1
Chloroform	ND		ug/kg	1.7	1
Carbon tetrachloride	ND		ug/kg	1.1	1
1,2-Dichloropropane	ND		ug/kg	3.9	1
Dibromochloromethane	ND		ug/kg	1.1	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	1
Tetrachloroethene	ND		ug/kg	1.1	1
Chlorobenzene	12		ug/kg	1.1	1
Trichlorofluoromethane	ND		ug/kg	5.6	1
1,2-Dichloroethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	1
Bromodichloromethane	ND		ug/kg	1.1	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	1
1,1-Dichloropropene	ND		ug/kg	5.6	1
Bromoform	ND		ug/kg	4.5	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	1
Benzene	ND		ug/kg	1.1	1
Toluene	ND		ug/kg	1.7	1
Ethylbenzene	ND		ug/kg	1.1	1
Chloromethane	ND		ug/kg	5.6	1
Bromomethane	ND		ug/kg	2.2	1
Vinyl chloride	ND		ug/kg	2.2	1
Chloroethane	ND		ug/kg	2.2	1
1,1-Dichloroethene	ND		ug/kg	1.1	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	1
Trichloroethene	ND		ug/kg	1.1	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	1



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-03  
 Client ID: EL-AB67-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:10  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	7.8		ug/kg	5.6	1
Methyl tert butyl ether	ND		ug/kg	2.2	1
p/m-Xylene	ND		ug/kg	2.2	1
o-Xylene	ND		ug/kg	2.2	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	1
Dibromomethane	ND		ug/kg	11	1
1,2,3-Trichloropropane	ND		ug/kg	11	1
Styrene	ND		ug/kg	2.2	1
Dichlorodifluoromethane	ND		ug/kg	11	1
Acetone	ND		ug/kg	11	1
Carbon disulfide	ND		ug/kg	56	1
2-Butanone	ND		ug/kg	11	1
4-Methyl-2-pentanone	ND		ug/kg	11	1
2-Hexanone	ND		ug/kg	11	1
Bromochloromethane	ND		ug/kg	5.6	1
Tetrahydrofuran	ND		ug/kg	22	1
2,2-Dichloropropane	ND		ug/kg	5.6	1
1,2-Dibromoethane	ND		ug/kg	4.5	1
1,3-Dichloropropane	ND		ug/kg	5.6	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Bromobenzene	ND		ug/kg	5.6	1
n-Butylbenzene	ND		ug/kg	1.1	1
sec-Butylbenzene	ND		ug/kg	1.1	1
tert-Butylbenzene	ND		ug/kg	5.6	1
o-Chlorotoluene	ND		ug/kg	5.6	1
p-Chlorotoluene	ND		ug/kg	5.6	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	1
Hexachlorobutadiene	ND		ug/kg	5.6	1
Isopropylbenzene	ND		ug/kg	1.1	1
p-Isopropyltoluene	ND		ug/kg	1.1	1
Naphthalene	ND		ug/kg	5.6	1
n-Propylbenzene	ND		ug/kg	1.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	1
Ethyl ether	ND		ug/kg	5.6	1



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-03  
 Client ID: EL-AB67-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:10  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.5	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.5	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.5	1
1,4-Dioxane	ND		ug/kg	560	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712179-04  
**Client ID:** \*EL-CD23-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/23/07 23:43  
**Analyst:** SE  
**Percent Solids:** 79%

**Date Collected:** 08/22/07 14:15  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Methylene chloride	ND		ug/kg	760	1
1,1-Dichloroethane	ND		ug/kg	110	1
Chloroform	ND		ug/kg	110	1
Carbon tetrachloride	ND		ug/kg	76	1
1,2-Dichloropropane	ND		ug/kg	270	1
Dibromochloromethane	ND		ug/kg	76	1
1,1,1-Trichloroethane	ND		ug/kg	110	1
Tetrachloroethene	82		ug/kg	76	1
Chlorobenzene	ND		ug/kg	76	1
Trichlorofluoromethane	ND		ug/kg	380	1
1,2-Dichloroethane	ND		ug/kg	76	1
1,1,1-Trichloroethane	ND		ug/kg	76	1
Bromodichloromethane	ND		ug/kg	76	1
trans-1,3-Dichloropropene	ND		ug/kg	76	1
cis-1,3-Dichloropropene	ND		ug/kg	76	1
1,1-Dichloropropene	ND		ug/kg	380	1
Bromoform	ND		ug/kg	310	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	76	1
Benzene	ND		ug/kg	76	1
Toluene	ND		ug/kg	110	1
Ethylbenzene	ND		ug/kg	76	1
Chloromethane	ND		ug/kg	380	1
Bromomethane	ND		ug/kg	150	1
Vinyl chloride	ND		ug/kg	150	1
Chloroethane	ND		ug/kg	150	1
1,1-Dichloroethene	ND		ug/kg	76	1
trans-1,2-Dichloroethene	ND		ug/kg	110	1
Trichloroethene	920		ug/kg	76	1
1,2-Dichlorobenzene	ND		ug/kg	380	1
1,3-Dichlorobenzene	ND		ug/kg	380	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-04  
 Client ID: \*EL-CD23-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:15  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
1,4-Dichlorobenzene	ND		ug/kg	380	1
Methyl tert butyl ether	ND		ug/kg	150	1
p/m-Xylene	ND		ug/kg	150	1
o-Xylene	ND		ug/kg	150	1
cis-1,2-Dichloroethene	ND		ug/kg	76	1
Dibromomethane	ND		ug/kg	760	1
1,2,3-Trichloropropane	ND		ug/kg	760	1
Styrene	ND		ug/kg	150	1
Dichlorodifluoromethane	ND		ug/kg	760	1
Acetone	ND		ug/kg	760	1
Carbon disulfide	ND		ug/kg	3800	1
2-Butanone	ND		ug/kg	760	1
4-Methyl-2-pentanone	ND		ug/kg	760	1
2-Hexanone	ND		ug/kg	760	1
Bromochloromethane	ND		ug/kg	380	1
Tetrahydrofuran	ND		ug/kg	1500	1
2,2-Dichloropropane	ND		ug/kg	380	1
1,2-Dibromoethane	ND		ug/kg	310	1
1,3-Dichloropropane	ND		ug/kg	380	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	76	1
Bromobenzene	ND		ug/kg	380	1
n-Butylbenzene	ND		ug/kg	76	1
sec-Butylbenzene	ND		ug/kg	76	1
tert-Butylbenzene	ND		ug/kg	380	1
o-Chlorotoluene	ND		ug/kg	380	1
p-Chlorotoluene	ND		ug/kg	380	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	380	1
Hexachlorobutadiene	ND		ug/kg	380	1
Isopropylbenzene	ND		ug/kg	76	1
p-Isopropyltoluene	ND		ug/kg	76	1
Naphthalene	ND		ug/kg	380	1
n-Propylbenzene	ND		ug/kg	76	1
1,2,3-Trichlorobenzene	ND		ug/kg	380	1
1,2,4-Trichlorobenzene	ND		ug/kg	380	1
1,3,5-Trimethylbenzene	ND		ug/kg	380	1
1,2,4-Trimethylbenzene	ND		ug/kg	380	1
Ethyl ether	ND		ug/kg	380	1



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-04  
 Client ID: \*EL-CD23-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:15  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Isopropyl Ether	ND		ug/kg	310	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	310	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	310	1
1,4-Dioxane	ND		ug/kg	38000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	92		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712179-05  
**Client ID:** EL-CD45-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/24/07 11:52  
**Analyst:** SE  
**Percent Solids:** 78%

**Date Collected:** 08/22/07 14:20  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	11	1
1,1-Dichloroethane	ND		ug/kg	1.6	1
Chloroform	ND		ug/kg	1.6	1
Carbon tetrachloride	ND		ug/kg	1.1	1
1,2-Dichloropropane	ND		ug/kg	3.8	1
Dibromochloromethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.6	1
Tetrachloroethene	ND		ug/kg	1.1	1
Chlorobenzene	2.6		ug/kg	1.1	1
Trichlorofluoromethane	ND		ug/kg	5.4	1
1,2-Dichloroethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	1
Bromodichloromethane	ND		ug/kg	1.1	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	1
1,1-Dichloropropene	ND		ug/kg	5.4	1
Bromoform	ND		ug/kg	4.3	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Benzene	ND		ug/kg	1.1	1
Toluene	ND		ug/kg	1.6	1
Ethylbenzene	ND		ug/kg	1.1	1
Chloromethane	ND		ug/kg	5.4	1
Bromomethane	ND		ug/kg	2.2	1
Vinyl chloride	ND		ug/kg	2.2	1
Chloroethane	ND		ug/kg	2.2	1
1,1-Dichloroethene	ND		ug/kg	1.1	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	1
Trichloroethene	4.0		ug/kg	1.1	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-05  
 Client ID: EL-CD45-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:20  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	5.4	1
Methyl tert butyl ether	ND		ug/kg	2.2	1
p/m-Xylene	ND		ug/kg	2.2	1
o-Xylene	ND		ug/kg	2.2	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	1
Dibromomethane	ND		ug/kg	11	1
1,2,3-Trichloropropane	ND		ug/kg	11	1
Styrene	ND		ug/kg	2.2	1
Dichlorodifluoromethane	ND		ug/kg	11	1
Acetone	ND		ug/kg	11	1
Carbon disulfide	ND		ug/kg	54	1
2-Butanone	ND		ug/kg	11	1
4-Methyl-2-pentanone	ND		ug/kg	11	1
2-Hexanone	ND		ug/kg	11	1
Bromochloromethane	ND		ug/kg	5.4	1
Tetrahydrofuran	ND		ug/kg	22	1
2,2-Dichloropropane	ND		ug/kg	5.4	1
1,2-Dibromoethane	ND		ug/kg	4.3	1
1,3-Dichloropropane	ND		ug/kg	5.4	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Bromobenzene	ND		ug/kg	5.4	1
n-Butylbenzene	ND		ug/kg	1.1	1
sec-Butylbenzene	ND		ug/kg	1.1	1
tert-Butylbenzene	ND		ug/kg	5.4	1
o-Chlorotoluene	ND		ug/kg	5.4	1
p-Chlorotoluene	ND		ug/kg	5.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	1
Hexachlorobutadiene	ND		ug/kg	5.4	1
Isopropylbenzene	ND		ug/kg	1.1	1
p-Isopropyltoluene	ND		ug/kg	1.1	1
Naphthalene	ND		ug/kg	5.4	1
n-Propylbenzene	ND		ug/kg	1.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	1
Ethyl ether	ND		ug/kg	5.4	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-05  
 Client ID: EL-CD45-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:20  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.3	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.3	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.3	1
1,4-Dioxane	ND		ug/kg	540	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	101		70-130



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712179-06  
**Client ID:** EL-CD67-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/24/07 12:28  
**Analyst:** SE  
**Percent Solids:** 81%

**Date Collected:** 08/22/07 14:25  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	11	1
1,1-Dichloroethane	ND		ug/kg	1.6	1
Chloroform	ND		ug/kg	1.6	1
Carbon tetrachloride	ND		ug/kg	1.1	1
1,2-Dichloropropane	ND		ug/kg	3.7	1
Dibromochloromethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.6	1
Tetrachloroethene	ND		ug/kg	1.1	1
Chlorobenzene	3.6		ug/kg	1.1	1
Trichlorofluoromethane	ND		ug/kg	5.3	1
1,2-Dichloroethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	1
Bromodichloromethane	ND		ug/kg	1.1	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	1
1,1-Dichloropropene	ND		ug/kg	5.3	1
Bromoform	ND		ug/kg	4.2	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Benzene	ND		ug/kg	1.1	1
Toluene	ND		ug/kg	1.6	1
Ethylbenzene	ND		ug/kg	1.1	1
Chloromethane	ND		ug/kg	5.3	1
Bromomethane	ND		ug/kg	2.1	1
Vinyl chloride	ND		ug/kg	2.1	1
Chloroethane	ND		ug/kg	2.1	1
1,1-Dichloroethene	ND		ug/kg	1.1	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	1
Trichloroethene	ND		ug/kg	1.1	1
1,2-Dichlorobenzene	ND		ug/kg	5.3	1
1,3-Dichlorobenzene	ND		ug/kg	5.3	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-06  
 Client ID: EL-CD67-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:25  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	5.3	1
Methyl tert butyl ether	ND		ug/kg	2.1	1
p/m-Xylene	ND		ug/kg	2.1	1
o-Xylene	ND		ug/kg	2.1	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	1
Dibromomethane	ND		ug/kg	11	1
1,2,3-Trichloropropane	ND		ug/kg	11	1
Styrene	ND		ug/kg	2.1	1
Dichlorodifluoromethane	ND		ug/kg	11	1
Acetone	ND		ug/kg	11	1
Carbon disulfide	ND		ug/kg	53	1
2-Butanone	ND		ug/kg	11	1
4-Methyl-2-pentanone	ND		ug/kg	11	1
2-Hexanone	ND		ug/kg	11	1
Bromochloromethane	ND		ug/kg	5.3	1
Tetrahydrofuran	ND		ug/kg	21	1
2,2-Dichloropropane	ND		ug/kg	5.3	1
1,2-Dibromoethane	ND		ug/kg	4.2	1
1,3-Dichloropropane	ND		ug/kg	5.3	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Bromobenzene	ND		ug/kg	5.3	1
n-Butylbenzene	ND		ug/kg	1.1	1
sec-Butylbenzene	ND		ug/kg	1.1	1
tert-Butylbenzene	ND		ug/kg	5.3	1
o-Chlorotoluene	ND		ug/kg	5.3	1
p-Chlorotoluene	ND		ug/kg	5.3	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.3	1
Hexachlorobutadiene	ND		ug/kg	5.3	1
Isopropylbenzene	ND		ug/kg	1.1	1
p-Isopropyltoluene	ND		ug/kg	1.1	1
Naphthalene	ND		ug/kg	5.3	1
n-Propylbenzene	ND		ug/kg	1.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.3	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.3	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.3	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.3	1
Ethyl ether	ND		ug/kg	5.3	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-06  
 Client ID: EL-CD67-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:25  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.2	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.2	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.2	1
1,4-Dioxane	ND		ug/kg	530	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	105		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712179-07  
**Client ID:** \*EL-EF23-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/24/07 10:04  
**Analyst:** SE  
**Percent Solids:** 81%

**Date Collected:** 08/22/07 15:10  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	11	1
1,1-Dichloroethane	ND		ug/kg	1.6	1
Chloroform	ND		ug/kg	1.6	1
Carbon tetrachloride	ND		ug/kg	1.1	1
1,2-Dichloropropane	ND		ug/kg	3.7	1
Dibromochloromethane	ND		ug/kg	1.1	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	1
Tetrachloroethene	ND		ug/kg	1.1	1
Chlorobenzene	ND		ug/kg	1.1	1
Trichlorofluoromethane	ND		ug/kg	5.3	1
1,2-Dichloroethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	1
Bromodichloromethane	ND		ug/kg	1.1	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	1
1,1-Dichloropropene	ND		ug/kg	5.3	1
Bromoform	ND		ug/kg	4.2	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	1
Benzene	ND		ug/kg	1.1	1
Toluene	ND		ug/kg	1.6	1
Ethylbenzene	ND		ug/kg	1.1	1
Chloromethane	ND		ug/kg	5.3	1
Bromomethane	ND		ug/kg	2.1	1
Vinyl chloride	ND		ug/kg	2.1	1
Chloroethane	ND		ug/kg	2.1	1
1,1-Dichloroethene	ND		ug/kg	1.1	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	1
Trichloroethene	2.4		ug/kg	1.1	1
1,2-Dichlorobenzene	ND		ug/kg	5.3	1
1,3-Dichlorobenzene	ND		ug/kg	5.3	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-07  
 Client ID: \*EL-EF23-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 15:10  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	5.3	1
Methyl tert butyl ether	ND		ug/kg	2.1	1
p/m-Xylene	ND		ug/kg	2.1	1
o-Xylene	ND		ug/kg	2.1	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	1
Dibromomethane	ND		ug/kg	11	1
1,2,3-Trichloropropane	ND		ug/kg	11	1
Styrene	ND		ug/kg	2.1	1
Dichlorodifluoromethane	ND		ug/kg	11	1
Acetone	19		ug/kg	11	1
Carbon disulfide	ND		ug/kg	53	1
2-Butanone	ND		ug/kg	11	1
4-Methyl-2-pentanone	ND		ug/kg	11	1
2-Hexanone	ND		ug/kg	11	1
Bromochloromethane	ND		ug/kg	5.3	1
Tetrahydrofuran	ND		ug/kg	21	1
2,2-Dichloropropane	ND		ug/kg	5.3	1
1,2-Dibromoethane	ND		ug/kg	4.2	1
1,3-Dichloropropane	ND		ug/kg	5.3	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Bromobenzene	ND		ug/kg	5.3	1
n-Butylbenzene	ND		ug/kg	1.1	1
sec-Butylbenzene	ND		ug/kg	1.1	1
tert-Butylbenzene	ND		ug/kg	5.3	1
o-Chlorotoluene	ND		ug/kg	5.3	1
p-Chlorotoluene	ND		ug/kg	5.3	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.3	1
Hexachlorobutadiene	ND		ug/kg	5.3	1
Isopropylbenzene	ND		ug/kg	1.1	1
p-Isopropyltoluene	ND		ug/kg	1.1	1
Naphthalene	ND		ug/kg	5.3	1
n-Propylbenzene	ND		ug/kg	1.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.3	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.3	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.3	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.3	1
Ethyl ether	ND		ug/kg	5.3	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-07  
 Client ID: \*EL-EF23-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 15:10  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.2	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.2	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.2	1
1,4-Dioxane	ND		ug/kg	530	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	102		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712179-08  
**Client ID:** EL-EF45-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/24/07 13:05  
**Analyst:** SE  
**Percent Solids:** 81%

**Date Collected:** 08/22/07 15:15  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	11	1
1,1-Dichloroethane	ND		ug/kg	1.7	1
Chloroform	ND		ug/kg	1.7	1
Carbon tetrachloride	ND		ug/kg	1.1	1
1,2-Dichloropropane	ND		ug/kg	3.9	1
Dibromochloromethane	ND		ug/kg	1.1	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	1
Tetrachloroethene	ND		ug/kg	1.1	1
Chlorobenzene	ND		ug/kg	1.1	1
Trichlorofluoromethane	ND		ug/kg	5.6	1
1,2-Dichloroethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	1
Bromodichloromethane	ND		ug/kg	1.1	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	1
1,1-Dichloropropene	ND		ug/kg	5.6	1
Bromoform	ND		ug/kg	4.5	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	1
Benzene	ND		ug/kg	1.1	1
Toluene	ND		ug/kg	1.7	1
Ethylbenzene	ND		ug/kg	1.1	1
Chloromethane	ND		ug/kg	5.6	1
Bromomethane	ND		ug/kg	2.2	1
Vinyl chloride	ND		ug/kg	2.2	1
Chloroethane	ND		ug/kg	2.2	1
1,1-Dichloroethene	ND		ug/kg	1.1	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	1
Trichloroethene	ND		ug/kg	1.1	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-08  
 Client ID: EL-EF45-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 15:15  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	5.6	1
Methyl tert butyl ether	ND		ug/kg	2.2	1
p/m-Xylene	ND		ug/kg	2.2	1
o-Xylene	ND		ug/kg	2.2	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	1
Dibromomethane	ND		ug/kg	11	1
1,2,3-Trichloropropane	ND		ug/kg	11	1
Styrene	ND		ug/kg	2.2	1
Dichlorodifluoromethane	ND		ug/kg	11	1
Acetone	52		ug/kg	11	1
Carbon disulfide	ND		ug/kg	56	1
2-Butanone	ND		ug/kg	11	1
4-Methyl-2-pentanone	ND		ug/kg	11	1
2-Hexanone	ND		ug/kg	11	1
Bromochloromethane	ND		ug/kg	5.6	1
Tetrahydrofuran	ND		ug/kg	22	1
2,2-Dichloropropane	ND		ug/kg	5.6	1
1,2-Dibromoethane	ND		ug/kg	4.5	1
1,3-Dichloropropane	ND		ug/kg	5.6	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Bromobenzene	ND		ug/kg	5.6	1
n-Butylbenzene	ND		ug/kg	1.1	1
sec-Butylbenzene	ND		ug/kg	1.1	1
tert-Butylbenzene	ND		ug/kg	5.6	1
o-Chlorotoluene	ND		ug/kg	5.6	1
p-Chlorotoluene	ND		ug/kg	5.6	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	1
Hexachlorobutadiene	ND		ug/kg	5.6	1
Isopropylbenzene	ND		ug/kg	1.1	1
p-Isopropyltoluene	ND		ug/kg	1.1	1
Naphthalene	ND		ug/kg	5.6	1
n-Propylbenzene	ND		ug/kg	1.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	1
Ethyl ether	ND		ug/kg	5.6	1



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-08  
 Client ID: EL-EF45-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 15:15  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.5	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.5	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.5	1
1,4-Dioxane	ND		ug/kg	560	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	104		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712179-09  
**Client ID:** EL-EF67-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/24/07 13:41  
**Analyst:** SE  
**Percent Solids:** 81%

**Date Collected:** 08/22/07 14:30  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	11	1
1,1-Dichloroethane	ND		ug/kg	1.6	1
Chloroform	ND		ug/kg	1.6	1
Carbon tetrachloride	ND		ug/kg	1.1	1
1,2-Dichloropropane	ND		ug/kg	3.8	1
Dibromochloromethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.6	1
Tetrachloroethene	ND		ug/kg	1.1	1
Chlorobenzene	ND		ug/kg	1.1	1
Trichlorofluoromethane	ND		ug/kg	5.5	1
1,2-Dichloroethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	1
Bromodichloromethane	ND		ug/kg	1.1	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	1
1,1-Dichloropropene	ND		ug/kg	5.5	1
Bromoform	ND		ug/kg	4.4	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Benzene	ND		ug/kg	1.1	1
Toluene	ND		ug/kg	1.6	1
Ethylbenzene	ND		ug/kg	1.1	1
Chloromethane	ND		ug/kg	5.5	1
Bromomethane	ND		ug/kg	2.2	1
Vinyl chloride	ND		ug/kg	2.2	1
Chloroethane	ND		ug/kg	2.2	1
1,1-Dichloroethene	ND		ug/kg	1.1	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	1
Trichloroethene	ND		ug/kg	1.1	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-09  
 Client ID: EL-EF67-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:30  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	5.5	1
Methyl tert butyl ether	ND		ug/kg	2.2	1
p/m-Xylene	ND		ug/kg	2.2	1
o-Xylene	ND		ug/kg	2.2	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	1
Dibromomethane	ND		ug/kg	11	1
1,2,3-Trichloropropane	ND		ug/kg	11	1
Styrene	ND		ug/kg	2.2	1
Dichlorodifluoromethane	ND		ug/kg	11	1
Acetone	81		ug/kg	11	1
Carbon disulfide	ND		ug/kg	55	1
2-Butanone	ND		ug/kg	11	1
4-Methyl-2-pentanone	ND		ug/kg	11	1
2-Hexanone	ND		ug/kg	11	1
Bromochloromethane	ND		ug/kg	5.5	1
Tetrahydrofuran	ND		ug/kg	22	1
2,2-Dichloropropane	ND		ug/kg	5.5	1
1,2-Dibromoethane	ND		ug/kg	4.4	1
1,3-Dichloropropane	ND		ug/kg	5.5	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Bromobenzene	ND		ug/kg	5.5	1
n-Butylbenzene	ND		ug/kg	1.1	1
sec-Butylbenzene	ND		ug/kg	1.1	1
tert-Butylbenzene	ND		ug/kg	5.5	1
o-Chlorotoluene	ND		ug/kg	5.5	1
p-Chlorotoluene	ND		ug/kg	5.5	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	1
Hexachlorobutadiene	ND		ug/kg	5.5	1
Isopropylbenzene	ND		ug/kg	1.1	1
p-Isopropyltoluene	ND		ug/kg	1.1	1
Naphthalene	ND		ug/kg	5.5	1
n-Propylbenzene	ND		ug/kg	1.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	1
Ethyl ether	ND		ug/kg	5.5	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-09  
 Client ID: EL-EF67-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:30  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.4	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.4	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.4	1
1,4-Dioxane	ND		ug/kg	550	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	107		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-10  
 Client ID: \*EL-GH23-20070822-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil  
 Analytical Method: 60,8260B  
 Analytical Date: 08/24/07 10:40  
 Analyst: SE  
 Percent Solids: 84%

Date Collected: 08/22/07 15:20  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	11	1
1,1-Dichloroethane	ND		ug/kg	1.6	1
Chloroform	ND		ug/kg	1.6	1
Carbon tetrachloride	ND		ug/kg	1.1	1
1,2-Dichloropropane	ND		ug/kg	3.8	1
Dibromochloromethane	ND		ug/kg	1.1	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	1
Tetrachloroethene	ND		ug/kg	1.1	1
Chlorobenzene	ND		ug/kg	1.1	1
Trichlorofluoromethane	ND		ug/kg	5.5	1
1,2-Dichloroethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	1
Bromodichloromethane	ND		ug/kg	1.1	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	1
1,1-Dichloropropene	ND		ug/kg	5.5	1
Bromoform	ND		ug/kg	4.4	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	1
Benzene	ND		ug/kg	1.1	1
Toluene	ND		ug/kg	1.6	1
Ethylbenzene	ND		ug/kg	1.1	1
Chloromethane	ND		ug/kg	5.5	1
Bromomethane	ND		ug/kg	2.2	1
Vinyl chloride	ND		ug/kg	2.2	1
Chloroethane	ND		ug/kg	2.2	1
1,1-Dichloroethene	ND		ug/kg	1.1	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	1
Trichloroethene	ND		ug/kg	1.1	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	1

Project Name: NA SOIL EXCAVATION

Lab Number: L0712179

Project Number: 0051545

Report Date: 08/27/07

## SAMPLE RESULTS

Lab ID: L0712179-10  
 Client ID: \*EL-GH23-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 15:20  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
1,4-Dichlorobenzene	ND		ug/kg	5.5	1
Methyl tert butyl ether	ND		ug/kg	2.2	1
p/m-Xylene	ND		ug/kg	2.2	1
o-Xylene	ND		ug/kg	2.2	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	1
Dibromomethane	ND		ug/kg	11	1
1,2,3-Trichloropropane	ND		ug/kg	11	1
Styrene	ND		ug/kg	2.2	1
Dichlorodifluoromethane	ND		ug/kg	11	1
Acetone	ND		ug/kg	11	1
Carbon disulfide	ND		ug/kg	55	1
2-Butanone	ND		ug/kg	11	1
4-Methyl-2-pentanone	ND		ug/kg	11	1
2-Hexanone	ND		ug/kg	11	1
Bromochloromethane	ND		ug/kg	5.5	1
Tetrahydrofuran	ND		ug/kg	22	1
2,2-Dichloropropane	ND		ug/kg	5.5	1
1,2-Dibromoethane	ND		ug/kg	4.4	1
1,3-Dichloropropane	ND		ug/kg	5.5	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Bromobenzene	ND		ug/kg	5.5	1
n-Butylbenzene	ND		ug/kg	1.1	1
sec-Butylbenzene	ND		ug/kg	1.1	1
tert-Butylbenzene	ND		ug/kg	5.5	1
o-Chlorotoluene	ND		ug/kg	5.5	1
p-Chlorotoluene	ND		ug/kg	5.5	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	1
Hexachlorobutadiene	ND		ug/kg	5.5	1
Isopropylbenzene	ND		ug/kg	1.1	1
p-Isopropyltoluene	ND		ug/kg	1.1	1
Naphthalene	ND		ug/kg	5.5	1
n-Propylbenzene	ND		ug/kg	1.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	1
Ethyl ether	ND		ug/kg	5.5	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-10  
 Client ID: \*EL-GH23-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 15:20  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.4	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.4	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.4	1
1,4-Dioxane	ND		ug/kg	550	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	102		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-11  
 Client ID: EL-GH45-20070822-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil  
 Analytical Method: 60,8260B  
 Analytical Date: 08/24/07 14:18  
 Analyst: SE  
 Percent Solids: 82%

Date Collected: 08/22/07 15:25  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	10	1
1,1-Dichloroethane	ND		ug/kg	1.5	1
Chloroform	ND		ug/kg	1.5	1
Carbon tetrachloride	ND		ug/kg	1.0	1
1,2-Dichloropropane	ND		ug/kg	3.5	1
Dibromochloromethane	ND		ug/kg	1.0	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	1
Tetrachloroethene	ND		ug/kg	1.0	1
Chlorobenzene	ND		ug/kg	1.0	1
Trichlorofluoromethane	ND		ug/kg	5.0	1
1,2-Dichloroethane	ND		ug/kg	1.0	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	1
Bromodichloromethane	ND		ug/kg	1.0	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	1
1,1-Dichloropropene	ND		ug/kg	5.0	1
Bromoform	ND		ug/kg	4.0	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	1
Benzene	ND		ug/kg	1.0	1
Toluene	ND		ug/kg	1.5	1
Ethylbenzene	ND		ug/kg	1.0	1
Chloromethane	ND		ug/kg	5.0	1
Bromomethane	ND		ug/kg	2.0	1
Vinyl chloride	ND		ug/kg	2.0	1
Chloroethane	ND		ug/kg	2.0	1
1,1-Dichloroethene	ND		ug/kg	1.0	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	1
Trichloroethene	ND		ug/kg	1.0	1
1,2-Dichlorobenzene	ND		ug/kg	5.0	1
1,3-Dichlorobenzene	ND		ug/kg	5.0	1



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-11  
 Client ID: EL-GH45-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 15:25  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	5.0	1
Methyl tert butyl ether	ND		ug/kg	2.0	1
p/m-Xylene	ND		ug/kg	2.0	1
o-Xylene	ND		ug/kg	2.0	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	1
Dibromomethane	ND		ug/kg	10	1
1,2,3-Trichloropropane	ND		ug/kg	10	1
Styrene	ND		ug/kg	2.0	1
Dichlorodifluoromethane	ND		ug/kg	10	1
Acetone	ND		ug/kg	10	1
Carbon disulfide	ND		ug/kg	50	1
2-Butanone	ND		ug/kg	10	1
4-Methyl-2-pentanone	ND		ug/kg	10	1
2-Hexanone	ND		ug/kg	10	1
Bromochloromethane	ND		ug/kg	5.0	1
Tetrahydrofuran	ND		ug/kg	20	1
2,2-Dichloropropane	ND		ug/kg	5.0	1
1,2-Dibromoethane	ND		ug/kg	4.0	1
1,3-Dichloropropane	ND		ug/kg	5.0	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	1
Bromobenzene	ND		ug/kg	5.0	1
n-Butylbenzene	ND		ug/kg	1.0	1
sec-Butylbenzene	ND		ug/kg	1.0	1
tert-Butylbenzene	ND		ug/kg	5.0	1
o-Chlorotoluene	ND		ug/kg	5.0	1
p-Chlorotoluene	ND		ug/kg	5.0	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	1
Hexachlorobutadiene	ND		ug/kg	5.0	1
Isopropylbenzene	ND		ug/kg	1.0	1
p-Isopropyltoluene	ND		ug/kg	1.0	1
Naphthalene	ND		ug/kg	5.0	1
n-Propylbenzene	ND		ug/kg	1.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	1
Ethyl ether	ND		ug/kg	5.0	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-11  
 Client ID: EL-GH45-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 15:25  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	1
1,4-Dioxane	ND		ug/kg	500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	107		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-12  
 Client ID: EL-GH67-20070822-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil  
 Analytical Method: 60,8260B  
 Analytical Date: 08/24/07 14:55  
 Analyst: SE  
 Percent Solids: 83%

Date Collected: 08/22/07 14:35  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	11	1
1,1-Dichloroethane	ND		ug/kg	1.6	1
Chloroform	ND		ug/kg	1.6	1
Carbon tetrachloride	ND		ug/kg	1.1	1
1,2-Dichloropropane	ND		ug/kg	3.8	1
Dibromochloromethane	ND		ug/kg	1.1	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	1
Tetrachloroethene	ND		ug/kg	1.1	1
Chlorobenzene	ND		ug/kg	1.1	1
Trichlorofluoromethane	ND		ug/kg	5.4	1
1,2-Dichloroethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	1
Bromodichloromethane	ND		ug/kg	1.1	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	1
1,1-Dichloropropene	ND		ug/kg	5.4	1
Bromoform	ND		ug/kg	4.3	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	1
Benzene	ND		ug/kg	1.1	1
Toluene	ND		ug/kg	1.6	1
Ethylbenzene	ND		ug/kg	1.1	1
Chloromethane	ND		ug/kg	5.4	1
Bromomethane	ND		ug/kg	2.2	1
Vinyl chloride	ND		ug/kg	2.2	1
Chloroethane	ND		ug/kg	2.2	1
1,1-Dichloroethene	ND		ug/kg	1.1	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	1
Trichloroethene	ND		ug/kg	1.1	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-12  
 Client ID: EL-GH67-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:35  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	5.4	1
Methyl tert butyl ether	ND		ug/kg	2.2	1
p/m-Xylene	ND		ug/kg	2.2	1
o-Xylene	ND		ug/kg	2.2	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	1
Dibromomethane	ND		ug/kg	11	1
1,2,3-Trichloropropane	ND		ug/kg	11	1
Styrene	ND		ug/kg	2.2	1
Dichlorodifluoromethane	ND		ug/kg	11	1
Acetone	ND		ug/kg	11	1
Carbon disulfide	ND		ug/kg	54	1
2-Butanone	ND		ug/kg	11	1
4-Methyl-2-pentanone	ND		ug/kg	11	1
2-Hexanone	ND		ug/kg	11	1
Bromochloromethane	ND		ug/kg	5.4	1
Tetrahydrofuran	ND		ug/kg	22	1
2,2-Dichloropropane	ND		ug/kg	5.4	1
1,2-Dibromoethane	ND		ug/kg	4.3	1
1,3-Dichloropropane	ND		ug/kg	5.4	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Bromobenzene	ND		ug/kg	5.4	1
n-Butylbenzene	ND		ug/kg	1.1	1
sec-Butylbenzene	ND		ug/kg	1.1	1
tert-Butylbenzene	ND		ug/kg	5.4	1
o-Chlorotoluene	ND		ug/kg	5.4	1
p-Chlorotoluene	ND		ug/kg	5.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	1
Hexachlorobutadiene	ND		ug/kg	5.4	1
Isopropylbenzene	ND		ug/kg	1.1	1
p-Isopropyltoluene	ND		ug/kg	1.1	1
Naphthalene	ND		ug/kg	5.4	1
n-Propylbenzene	ND		ug/kg	1.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	1
Ethyl ether	ND		ug/kg	5.4	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-12  
 Client ID: EL-GH67-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:35  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.3	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.3	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.3	1
1,4-Dioxane	ND		ug/kg	540	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	107		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-13  
 Client ID: EL-DE8-20070822-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil  
 Analytical Method: 60,8260B  
 Analytical Date: 08/24/07 15:32  
 Analyst: SE  
 Percent Solids: 78%

Date Collected: 08/22/07 14:40  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	10	1
1,1-Dichloroethane	ND		ug/kg	1.6	1
Chloroform	ND		ug/kg	1.6	1
Carbon tetrachloride	ND		ug/kg	1.0	1
1,2-Dichloropropane	ND		ug/kg	3.7	1
Dibromochloromethane	ND		ug/kg	1.0	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	1
Tetrachloroethene	ND		ug/kg	1.0	1
Chlorobenzene	ND		ug/kg	1.0	1
Trichlorofluoromethane	ND		ug/kg	5.2	1
1,2-Dichloroethane	ND		ug/kg	1.0	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	1
Bromodichloromethane	ND		ug/kg	1.0	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	1
1,1-Dichloropropene	ND		ug/kg	5.2	1
Bromoform	ND		ug/kg	4.2	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	1
Benzene	ND		ug/kg	1.0	1
Toluene	ND		ug/kg	1.6	1
Ethylbenzene	ND		ug/kg	1.0	1
Chloromethane	ND		ug/kg	5.2	1
Bromomethane	ND		ug/kg	2.1	1
Vinyl chloride	ND		ug/kg	2.1	1
Chloroethane	ND		ug/kg	2.1	1
1,1-Dichloroethene	ND		ug/kg	1.0	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	1
Trichloroethene	ND		ug/kg	1.0	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	1

Project Name: NA SOIL EXCAVATION

Lab Number: L0712179

Project Number: 0051545

Report Date: 08/27/07

## SAMPLE RESULTS

Lab ID: L0712179-13  
 Client ID: EL-DE8-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:40  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
1,4-Dichlorobenzene	ND		ug/kg	5.2	1
Methyl tert butyl ether	ND		ug/kg	2.1	1
p/m-Xylene	ND		ug/kg	2.1	1
o-Xylene	ND		ug/kg	2.1	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	1
Dibromomethane	ND		ug/kg	10	1
1,2,3-Trichloropropane	ND		ug/kg	10	1
Styrene	ND		ug/kg	2.1	1
Dichlorodifluoromethane	ND		ug/kg	10	1
Acetone	ND		ug/kg	10	1
Carbon disulfide	ND		ug/kg	52	1
2-Butanone	ND		ug/kg	10	1
4-Methyl-2-pentanone	ND		ug/kg	10	1
2-Hexanone	ND		ug/kg	10	1
Bromochloromethane	ND		ug/kg	5.2	1
Tetrahydrofuran	ND		ug/kg	21	1
2,2-Dichloropropane	ND		ug/kg	5.2	1
1,2-Dibromoethane	ND		ug/kg	4.2	1
1,3-Dichloropropane	ND		ug/kg	5.2	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	1
Bromobenzene	ND		ug/kg	5.2	1
n-Butylbenzene	ND		ug/kg	1.0	1
sec-Butylbenzene	ND		ug/kg	1.0	1
tert-Butylbenzene	ND		ug/kg	5.2	1
o-Chlorotoluene	ND		ug/kg	5.2	1
p-Chlorotoluene	ND		ug/kg	5.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	1
Hexachlorobutadiene	ND		ug/kg	5.2	1
Isopropylbenzene	ND		ug/kg	1.0	1
p-Isopropyltoluene	ND		ug/kg	1.0	1
Naphthalene	ND		ug/kg	5.2	1
n-Propylbenzene	ND		ug/kg	1.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	1
Ethyl ether	ND		ug/kg	5.2	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-13  
 Client ID: EL-DE8-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:40  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.2	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.2	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.2	1
1,4-Dioxane	ND		ug/kg	520	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	104		70-130



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-14  
 Client ID: \*EL-DE1-20070822-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil  
 Analytical Method: 60,8260B  
 Analytical Date: 08/24/07 11:16  
 Analyst: SE  
 Percent Solids: 83%

Date Collected: 08/22/07 15:05  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	10	1
1,1-Dichloroethane	ND		ug/kg	1.5	1
Chloroform	ND		ug/kg	1.5	1
Carbon tetrachloride	ND		ug/kg	1.0	1
1,2-Dichloropropane	ND		ug/kg	3.6	1
Dibromochloromethane	ND		ug/kg	1.0	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	1
Tetrachloroethene	23		ug/kg	1.0	1
Chlorobenzene	ND		ug/kg	1.0	1
Trichlorofluoromethane	ND		ug/kg	5.1	1
1,2-Dichloroethane	ND		ug/kg	1.0	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	1
Bromodichloromethane	ND		ug/kg	1.0	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	1
1,1-Dichloropropene	ND		ug/kg	5.1	1
Bromoform	ND		ug/kg	4.1	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	1
Benzene	ND		ug/kg	1.0	1
Toluene	ND		ug/kg	1.5	1
Ethylbenzene	ND		ug/kg	1.0	1
Chloromethane	ND		ug/kg	5.1	1
Bromomethane	ND		ug/kg	2.0	1
Vinyl chloride	ND		ug/kg	2.0	1
Chloroethane	ND		ug/kg	2.0	1
1,1-Dichloroethene	ND		ug/kg	1.0	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	1
Trichloroethene	310	E	ug/kg	1.0	1
1,2-Dichlorobenzene	ND		ug/kg	5.1	1
1,3-Dichlorobenzene	ND		ug/kg	5.1	1

Project Name: NA SOIL EXCAVATION

Lab Number: L0712179

Project Number: 0051545

Report Date: 08/27/07

## SAMPLE RESULTS

Lab ID: L0712179-14  
 Client ID: \*EL-DE1-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 15:05  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
1,4-Dichlorobenzene	ND		ug/kg	5.1	1
Methyl tert butyl ether	ND		ug/kg	2.0	1
p/m-Xylene	ND		ug/kg	2.0	1
o-Xylene	ND		ug/kg	2.0	1
cis-1,2-Dichloroethene	8.6		ug/kg	1.0	1
Dibromomethane	ND		ug/kg	10	1
1,2,3-Trichloropropane	ND		ug/kg	10	1
Styrene	ND		ug/kg	2.0	1
Dichlorodifluoromethane	ND		ug/kg	10	1
Acetone	92		ug/kg	10	1
Carbon disulfide	ND		ug/kg	51	1
2-Butanone	ND		ug/kg	10	1
4-Methyl-2-pentanone	ND		ug/kg	10	1
2-Hexanone	ND		ug/kg	10	1
Bromochloromethane	ND		ug/kg	5.1	1
Tetrahydrofuran	ND		ug/kg	20	1
2,2-Dichloropropane	ND		ug/kg	5.1	1
1,2-Dibromoethane	ND		ug/kg	4.1	1
1,3-Dichloropropane	ND		ug/kg	5.1	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	1
Bromobenzene	ND		ug/kg	5.1	1
n-Butylbenzene	ND		ug/kg	1.0	1
sec-Butylbenzene	ND		ug/kg	1.0	1
tert-Butylbenzene	ND		ug/kg	5.1	1
o-Chlorotoluene	ND		ug/kg	5.1	1
p-Chlorotoluene	ND		ug/kg	5.1	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.1	1
Hexachlorobutadiene	ND		ug/kg	5.1	1
Isopropylbenzene	ND		ug/kg	1.0	1
p-Isopropyltoluene	ND		ug/kg	1.0	1
Naphthalene	ND		ug/kg	5.1	1
n-Propylbenzene	ND		ug/kg	1.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.1	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.1	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.1	1
Ethyl ether	ND		ug/kg	5.1	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-14  
 Client ID: \*EL-DE1-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 15:05  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.1	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.1	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.1	1
1,4-Dioxane	ND		ug/kg	510	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	103		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-15  
 Client ID: EL-STEP1-20070822-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil  
 Analytical Method: 60,8260B  
 Analytical Date: 08/24/07 18:23  
 Analyst: PD  
 Percent Solids: 77%

Date Collected: 08/22/07 14:45  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	11	1
1,1-Dichloroethane	ND		ug/kg	1.7	1
Chloroform	ND		ug/kg	1.7	1
Carbon tetrachloride	ND		ug/kg	1.1	1
1,2-Dichloropropane	ND		ug/kg	3.9	1
Dibromochloromethane	ND		ug/kg	1.1	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	1
Tetrachloroethene	120		ug/kg	1.1	1
Chlorobenzene	ND		ug/kg	1.1	1
Trichlorofluoromethane	ND		ug/kg	5.6	1
1,2-Dichloroethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	1
Bromodichloromethane	ND		ug/kg	1.1	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	1
1,1-Dichloropropene	ND		ug/kg	5.6	1
Bromoform	ND		ug/kg	4.5	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	1
Benzene	ND		ug/kg	1.1	1
Toluene	ND		ug/kg	1.7	1
Ethylbenzene	ND		ug/kg	1.1	1
Chloromethane	ND		ug/kg	5.6	1
Bromomethane	ND		ug/kg	2.2	1
Vinyl chloride	ND		ug/kg	2.2	1
Chloroethane	ND		ug/kg	2.2	1
1,1-Dichloroethene	ND		ug/kg	1.1	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	1
Trichloroethene	240	E	ug/kg	1.1	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	1

Project Name: NA SOIL EXCAVATION

Lab Number: L0712179

Project Number: 0051545

Report Date: 08/27/07

## SAMPLE RESULTS

Lab ID: L0712179-15  
 Client ID: EL-STEP1-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:45  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
1,4-Dichlorobenzene	ND		ug/kg	5.6	1
Methyl tert butyl ether	ND		ug/kg	2.2	1
p/m-Xylene	ND		ug/kg	2.2	1
o-Xylene	ND		ug/kg	2.2	1
cis-1,2-Dichloroethene	100		ug/kg	1.1	1
Dibromomethane	ND		ug/kg	11	1
1,2,3-Trichloropropane	ND		ug/kg	11	1
Styrene	ND		ug/kg	2.2	1
Dichlorodifluoromethane	ND		ug/kg	11	1
Acetone	ND		ug/kg	11	1
Carbon disulfide	ND		ug/kg	56	1
2-Butanone	ND		ug/kg	11	1
4-Methyl-2-pentanone	ND		ug/kg	11	1
2-Hexanone	ND		ug/kg	11	1
Bromochloromethane	ND		ug/kg	5.6	1
Tetrahydrofuran	ND		ug/kg	22	1
2,2-Dichloropropane	ND		ug/kg	5.6	1
1,2-Dibromoethane	ND		ug/kg	4.5	1
1,3-Dichloropropane	ND		ug/kg	5.6	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Bromobenzene	ND		ug/kg	5.6	1
n-Butylbenzene	ND		ug/kg	1.1	1
sec-Butylbenzene	ND		ug/kg	1.1	1
tert-Butylbenzene	ND		ug/kg	5.6	1
o-Chlorotoluene	ND		ug/kg	5.6	1
p-Chlorotoluene	ND		ug/kg	5.6	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	1
Hexachlorobutadiene	ND		ug/kg	5.6	1
Isopropylbenzene	ND		ug/kg	1.1	1
p-Isopropyltoluene	ND		ug/kg	1.1	1
Naphthalene	ND		ug/kg	5.6	1
n-Propylbenzene	ND		ug/kg	1.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	1
Ethyl ether	ND		ug/kg	5.6	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-15  
 Client ID: EL-STEP1-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:45  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.5	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.5	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.5	1
1,4-Dioxane	ND		ug/kg	560	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	106		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712179-16  
**Client ID:** EL-STEP2-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/24/07 18:59  
**Analyst:** PD  
**Percent Solids:** 76%

**Date Collected:** 08/22/07 14:50  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	12	1
1,1-Dichloroethane	ND		ug/kg	1.8	1
Chloroform	ND		ug/kg	1.8	1
Carbon tetrachloride	ND		ug/kg	1.2	1
1,2-Dichloropropane	ND		ug/kg	4.1	1
Dibromochloromethane	ND		ug/kg	1.2	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	1
Tetrachloroethene	82		ug/kg	1.2	1
Chlorobenzene	ND		ug/kg	1.2	1
Trichlorofluoromethane	ND		ug/kg	5.9	1
1,2-Dichloroethane	ND		ug/kg	1.2	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	1
Bromodichloromethane	ND		ug/kg	1.2	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	1
1,1-Dichloropropene	ND		ug/kg	5.9	1
Bromoform	ND		ug/kg	4.7	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	1
Benzene	ND		ug/kg	1.2	1
Toluene	ND		ug/kg	1.8	1
Ethylbenzene	ND		ug/kg	1.2	1
Chloromethane	ND		ug/kg	5.9	1
Bromomethane	ND		ug/kg	2.3	1
Vinyl chloride	ND		ug/kg	2.3	1
Chloroethane	ND		ug/kg	2.3	1
1,1-Dichloroethene	ND		ug/kg	1.2	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	1
Trichloroethene	150		ug/kg	1.2	1
1,2-Dichlorobenzene	ND		ug/kg	5.9	1
1,3-Dichlorobenzene	ND		ug/kg	5.9	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-16  
 Client ID: EL-STEP2-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:50  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	5.9	1
Methyl tert butyl ether	ND		ug/kg	2.3	1
p/m-Xylene	ND		ug/kg	2.3	1
o-Xylene	ND		ug/kg	2.3	1
cis-1,2-Dichloroethene	10		ug/kg	1.2	1
Dibromomethane	ND		ug/kg	12	1
1,2,3-Trichloropropane	ND		ug/kg	12	1
Styrene	ND		ug/kg	2.3	1
Dichlorodifluoromethane	ND		ug/kg	12	1
Acetone	48		ug/kg	12	1
Carbon disulfide	ND		ug/kg	59	1
2-Butanone	ND		ug/kg	12	1
4-Methyl-2-pentanone	ND		ug/kg	12	1
2-Hexanone	ND		ug/kg	12	1
Bromochloromethane	ND		ug/kg	5.9	1
Tetrahydrofuran	ND		ug/kg	23	1
2,2-Dichloropropane	ND		ug/kg	5.9	1
1,2-Dibromoethane	ND		ug/kg	4.7	1
1,3-Dichloropropane	ND		ug/kg	5.9	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	1
Bromobenzene	ND		ug/kg	5.9	1
n-Butylbenzene	ND		ug/kg	1.2	1
sec-Butylbenzene	ND		ug/kg	1.2	1
tert-Butylbenzene	ND		ug/kg	5.9	1
o-Chlorotoluene	ND		ug/kg	5.9	1
p-Chlorotoluene	ND		ug/kg	5.9	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.9	1
Hexachlorobutadiene	ND		ug/kg	5.9	1
Isopropylbenzene	ND		ug/kg	1.2	1
p-Isopropyltoluene	ND		ug/kg	1.2	1
Naphthalene	ND		ug/kg	5.9	1
n-Propylbenzene	ND		ug/kg	1.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.9	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.9	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.9	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.9	1
Ethyl ether	ND		ug/kg	5.9	1



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-16  
 Client ID: EL-STEP2-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:50  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.7	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.7	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.7	1
1,4-Dioxane	ND		ug/kg	590	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	105		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712179-17  
**Client ID:** EL-STEP3-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/24/07 19:35  
**Analyst:** PD  
**Percent Solids:** 78%

**Date Collected:** 08/22/07 14:55  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	10	1
1,1-Dichloroethane	ND		ug/kg	1.5	1
Chloroform	ND		ug/kg	1.5	1
Carbon tetrachloride	ND		ug/kg	1.0	1
1,2-Dichloropropane	ND		ug/kg	3.5	1
Dibromochloromethane	ND		ug/kg	1.0	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	1
Tetrachloroethene	24		ug/kg	1.0	1
Chlorobenzene	ND		ug/kg	1.0	1
Trichlorofluoromethane	ND		ug/kg	5.0	1
1,2-Dichloroethane	ND		ug/kg	1.0	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	1
Bromodichloromethane	ND		ug/kg	1.0	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	1
1,1-Dichloropropene	ND		ug/kg	5.0	1
Bromoform	ND		ug/kg	4.0	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	1
Benzene	ND		ug/kg	1.0	1
Toluene	ND		ug/kg	1.5	1
Ethylbenzene	ND		ug/kg	1.0	1
Chloromethane	ND		ug/kg	5.0	1
Bromomethane	ND		ug/kg	2.0	1
Vinyl chloride	ND		ug/kg	2.0	1
Chloroethane	ND		ug/kg	2.0	1
1,1-Dichloroethene	ND		ug/kg	1.0	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	1
Trichloroethene	32		ug/kg	1.0	1
1,2-Dichlorobenzene	ND		ug/kg	5.0	1
1,3-Dichlorobenzene	ND		ug/kg	5.0	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-17  
 Client ID: EL-STEP3-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:55  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	5.0	1
Methyl tert butyl ether	ND		ug/kg	2.0	1
p/m-Xylene	ND		ug/kg	2.0	1
o-Xylene	ND		ug/kg	2.0	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	1
Dibromomethane	ND		ug/kg	10	1
1,2,3-Trichloropropane	ND		ug/kg	10	1
Styrene	ND		ug/kg	2.0	1
Dichlorodifluoromethane	ND		ug/kg	10	1
Acetone	ND		ug/kg	10	1
Carbon disulfide	ND		ug/kg	50	1
2-Butanone	ND		ug/kg	10	1
4-Methyl-2-pentanone	ND		ug/kg	10	1
2-Hexanone	ND		ug/kg	10	1
Bromochloromethane	ND		ug/kg	5.0	1
Tetrahydrofuran	ND		ug/kg	20	1
2,2-Dichloropropane	ND		ug/kg	5.0	1
1,2-Dibromoethane	ND		ug/kg	4.0	1
1,3-Dichloropropane	ND		ug/kg	5.0	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	1
Bromobenzene	ND		ug/kg	5.0	1
n-Butylbenzene	ND		ug/kg	1.0	1
sec-Butylbenzene	ND		ug/kg	1.0	1
tert-Butylbenzene	ND		ug/kg	5.0	1
o-Chlorotoluene	ND		ug/kg	5.0	1
p-Chlorotoluene	ND		ug/kg	5.0	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	1
Hexachlorobutadiene	ND		ug/kg	5.0	1
Isopropylbenzene	ND		ug/kg	1.0	1
p-Isopropyltoluene	ND		ug/kg	1.0	1
Naphthalene	ND		ug/kg	5.0	1
n-Propylbenzene	ND		ug/kg	1.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	1
Ethyl ether	ND		ug/kg	5.0	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-17  
 Client ID: EL-STEP3-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 14:55  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	1
1,4-Dioxane	ND		ug/kg	500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	107		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712179-18  
**Client ID:** EL-STEP4-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/24/07 20:11  
**Analyst:** PD  
**Percent Solids:** 79%

**Date Collected:** 08/22/07 15:00  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	11	1
1,1-Dichloroethane	ND		ug/kg	1.7	1
Chloroform	ND		ug/kg	1.7	1
Carbon tetrachloride	ND		ug/kg	1.1	1
1,2-Dichloropropane	ND		ug/kg	3.9	1
Dibromochloromethane	ND		ug/kg	1.1	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	1
Tetrachloroethene	ND		ug/kg	1.1	1
Chlorobenzene	ND		ug/kg	1.1	1
Trichlorofluoromethane	ND		ug/kg	5.6	1
1,2-Dichloroethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	1
Bromodichloromethane	ND		ug/kg	1.1	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	1
1,1-Dichloropropene	ND		ug/kg	5.6	1
Bromoform	ND		ug/kg	4.4	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	1
Benzene	ND		ug/kg	1.1	1
Toluene	ND		ug/kg	1.7	1
Ethylbenzene	ND		ug/kg	1.1	1
Chloromethane	ND		ug/kg	5.6	1
Bromomethane	ND		ug/kg	2.2	1
Vinyl chloride	ND		ug/kg	2.2	1
Chloroethane	ND		ug/kg	2.2	1
1,1-Dichloroethene	ND		ug/kg	1.1	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	1
Trichloroethene	4.5		ug/kg	1.1	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-18  
 Client ID: EL-STEP4-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 15:00  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	5.6	1
Methyl tert butyl ether	ND		ug/kg	2.2	1
p/m-Xylene	ND		ug/kg	2.2	1
o-Xylene	ND		ug/kg	2.2	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	1
Dibromomethane	ND		ug/kg	11	1
1,2,3-Trichloropropane	ND		ug/kg	11	1
Styrene	ND		ug/kg	2.2	1
Dichlorodifluoromethane	ND		ug/kg	11	1
Acetone	ND		ug/kg	11	1
Carbon disulfide	ND		ug/kg	56	1
2-Butanone	ND		ug/kg	11	1
4-Methyl-2-pentanone	ND		ug/kg	11	1
2-Hexanone	ND		ug/kg	11	1
Bromochloromethane	ND		ug/kg	5.6	1
Tetrahydrofuran	ND		ug/kg	22	1
2,2-Dichloropropane	ND		ug/kg	5.6	1
1,2-Dibromoethane	ND		ug/kg	4.4	1
1,3-Dichloropropane	ND		ug/kg	5.6	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Bromobenzene	ND		ug/kg	5.6	1
n-Butylbenzene	ND		ug/kg	1.1	1
sec-Butylbenzene	ND		ug/kg	1.1	1
tert-Butylbenzene	ND		ug/kg	5.6	1
o-Chlorotoluene	ND		ug/kg	5.6	1
p-Chlorotoluene	ND		ug/kg	5.6	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	1
Hexachlorobutadiene	ND		ug/kg	5.6	1
Isopropylbenzene	ND		ug/kg	1.1	1
p-Isopropyltoluene	ND		ug/kg	1.1	1
Naphthalene	ND		ug/kg	5.6	1
n-Propylbenzene	ND		ug/kg	1.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	1
Ethyl ether	ND		ug/kg	5.6	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-18  
 Client ID: EL-STEP4-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 15:00  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Low					
Isopropyl Ether	ND		ug/kg	4.4	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.4	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.4	1
1,4-Dioxane	ND		ug/kg	560	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	103		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712179-19  
**Client ID:** DUP-001-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/24/07 10:33  
**Analyst:** PD  
**Percent Solids:** 78%

**Date Collected:** 08/22/07 00:00  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Methylene chloride	ND		ug/kg	770	1
1,1-Dichloroethane	ND		ug/kg	120	1
Chloroform	ND		ug/kg	120	1
Carbon tetrachloride	ND		ug/kg	77	1
1,2-Dichloropropane	ND		ug/kg	270	1
Dibromochloromethane	ND		ug/kg	77	1
1,1,2-Trichloroethane	ND		ug/kg	120	1
Tetrachloroethene	ND		ug/kg	77	1
Chlorobenzene	ND		ug/kg	77	1
Trichlorofluoromethane	ND		ug/kg	390	1
1,2-Dichloroethane	ND		ug/kg	77	1
1,1,1-Trichloroethane	ND		ug/kg	77	1
Bromodichloromethane	ND		ug/kg	77	1
trans-1,3-Dichloropropene	ND		ug/kg	77	1
cis-1,3-Dichloropropene	ND		ug/kg	77	1
1,1-Dichloropropene	ND		ug/kg	390	1
Bromoform	ND		ug/kg	310	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	77	1
Benzene	ND		ug/kg	77	1
Toluene	ND		ug/kg	120	1
Ethylbenzene	ND		ug/kg	77	1
Chloromethane	ND		ug/kg	390	1
Bromomethane	ND		ug/kg	150	1
Vinyl chloride	ND		ug/kg	150	1
Chloroethane	ND		ug/kg	150	1
1,1-Dichloroethene	ND		ug/kg	77	1
trans-1,2-Dichloroethene	ND		ug/kg	120	1
Trichloroethene	700		ug/kg	77	1
1,2-Dichlorobenzene	ND		ug/kg	390	1
1,3-Dichlorobenzene	ND		ug/kg	390	1



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-19  
 Client ID: DUP-001-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 00:00  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
1,4-Dichlorobenzene	ND		ug/kg	390	1
Methyl tert butyl ether	ND		ug/kg	150	1
p/m-Xylene	ND		ug/kg	150	1
o-Xylene	ND		ug/kg	150	1
cis-1,2-Dichloroethene	ND		ug/kg	77	1
Dibromomethane	ND		ug/kg	770	1
1,2,3-Trichloropropane	ND		ug/kg	770	1
Styrene	ND		ug/kg	150	1
Dichlorodifluoromethane	ND		ug/kg	770	1
Acetone	ND		ug/kg	770	1
Carbon disulfide	ND		ug/kg	3900	1
2-Butanone	ND		ug/kg	770	1
4-Methyl-2-pentanone	ND		ug/kg	770	1
2-Hexanone	ND		ug/kg	770	1
Bromochloromethane	ND		ug/kg	390	1
Tetrahydrofuran	ND		ug/kg	1500	1
2,2-Dichloropropane	ND		ug/kg	390	1
1,2-Dibromoethane	ND		ug/kg	310	1
1,3-Dichloropropane	ND		ug/kg	390	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	77	1
Bromobenzene	ND		ug/kg	390	1
n-Butylbenzene	ND		ug/kg	77	1
sec-Butylbenzene	ND		ug/kg	77	1
tert-Butylbenzene	ND		ug/kg	390	1
o-Chlorotoluene	ND		ug/kg	390	1
p-Chlorotoluene	ND		ug/kg	390	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	390	1
Hexachlorobutadiene	ND		ug/kg	390	1
Isopropylbenzene	ND		ug/kg	77	1
p-Isopropyltoluene	ND		ug/kg	77	1
Naphthalene	ND		ug/kg	390	1
n-Propylbenzene	ND		ug/kg	77	1
1,2,3-Trichlorobenzene	ND		ug/kg	390	1
1,2,4-Trichlorobenzene	ND		ug/kg	390	1
1,3,5-Trimethylbenzene	ND		ug/kg	390	1
1,2,4-Trimethylbenzene	ND		ug/kg	390	1
Ethyl ether	ND		ug/kg	390	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-19  
 Client ID: DUP-001-20070822-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/22/07 00:00  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-High					
Isopropyl Ether	ND		ug/kg	310	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	310	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	310	1
1,4-Dioxane	ND		ug/kg	39000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	87		70-130

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

**Method Blank Analysis  
Batch Quality Control**

**Analytical Method:** 60,8260B  
**Analytical Date:** 08/23/07 15:32  
**Analyst:** SE

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 01-03 Batch: WG291724-3				
Methylene chloride	ND		ug/kg	10
1,1-Dichloroethane	ND		ug/kg	1.5
Chloroform	ND		ug/kg	1.5
Carbon tetrachloride	ND		ug/kg	1.0
1,2-Dichloropropane	ND		ug/kg	3.5
Dibromochloromethane	ND		ug/kg	1.0
1,1,2-Trichloroethane	ND		ug/kg	1.5
Tetrachloroethene	ND		ug/kg	1.0
Chlorobenzene	ND		ug/kg	1.0
Trichlorofluoromethane	ND		ug/kg	5.0
1,2-Dichloroethane	ND		ug/kg	1.0
1,1,1-Trichloroethane	ND		ug/kg	1.0
Bromodichloromethane	ND		ug/kg	1.0
trans-1,3-Dichloropropene	ND		ug/kg	1.0
cis-1,3-Dichloropropene	ND		ug/kg	1.0
1,1-Dichloropropene	ND		ug/kg	5.0
Bromoform	ND		ug/kg	4.0
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0
Benzene	ND		ug/kg	1.0
Toluene	ND		ug/kg	1.5
Ethylbenzene	ND		ug/kg	1.0
Chloromethane	ND		ug/kg	5.0
Bromomethane	ND		ug/kg	2.0
Vinyl chloride	ND		ug/kg	2.0
Chloroethane	ND		ug/kg	2.0
1,1-Dichloroethene	ND		ug/kg	1.0
trans-1,2-Dichloroethene	ND		ug/kg	1.5
Trichloroethene	ND		ug/kg	1.0
1,2-Dichlorobenzene	ND		ug/kg	5.0
1,3-Dichlorobenzene	ND		ug/kg	5.0
1,4-Dichlorobenzene	ND		ug/kg	5.0

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/23/07 15:32  
Analyst: SE

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 01-03 Batch: WG291724-3				
Methyl tert butyl ether	ND		ug/kg	2.0
p/m-Xylene	ND		ug/kg	2.0
o-Xylene	ND		ug/kg	2.0
cis-1,2-Dichloroethene	ND		ug/kg	1.0
Dibromomethane	ND		ug/kg	10
1,2,3-Trichloropropane	ND		ug/kg	10
Styrene	ND		ug/kg	2.0
Dichlorodifluoromethane	ND		ug/kg	10
Acetone	ND		ug/kg	10
Carbon disulfide	ND		ug/kg	50
2-Butanone	ND		ug/kg	10
4-Methyl-2-pentanone	ND		ug/kg	10
2-Hexanone	ND		ug/kg	10
Bromochloromethane	ND		ug/kg	5.0
Tetrahydrofuran	ND		ug/kg	20
2,2-Dichloropropane	ND		ug/kg	5.0
1,2-Dibromoethane	ND		ug/kg	4.0
1,3-Dichloropropane	ND		ug/kg	5.0
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0
Bromobenzene	ND		ug/kg	5.0
n-Butylbenzene	ND		ug/kg	1.0
sec-Butylbenzene	ND		ug/kg	1.0
tert-Butylbenzene	ND		ug/kg	5.0
o-Chlorotoluene	ND		ug/kg	5.0
p-Chlorotoluene	ND		ug/kg	5.0
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0
Hexachlorobutadiene	ND		ug/kg	5.0
Isopropylbenzene	ND		ug/kg	1.0
p-Isopropyltoluene	ND		ug/kg	1.0
Naphthalene	ND		ug/kg	5.0
n-Propylbenzene	ND		ug/kg	1.0

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/23/07 15:32  
Analyst: SE

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 01-03 Batch: WG291724-3				
1,2,3-Trichlorobenzene	ND		ug/kg	5.0
1,2,4-Trichlorobenzene	ND		ug/kg	5.0
1,3,5-Trimethylbenzene	ND		ug/kg	5.0
1,2,4-Trimethylbenzene	ND		ug/kg	5.0
Ethyl ether	ND		ug/kg	5.0
Isopropyl Ether	ND		ug/kg	4.0
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0
1,4-Dioxane	ND		ug/kg	500

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	105		70-130

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/24/07 09:48  
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 19 Batch: WG291744-6				
Methylene chloride	ND		ug/kg	500
1,1-Dichloroethane	ND		ug/kg	75
Chloroform	ND		ug/kg	75
Carbon tetrachloride	ND		ug/kg	50
1,2-Dichloropropane	ND		ug/kg	180
Dibromochloromethane	ND		ug/kg	50
1,1,2-Trichloroethane	ND		ug/kg	75
Tetrachloroethene	ND		ug/kg	50
Chlorobenzene	ND		ug/kg	50
Trichlorofluoromethane	ND		ug/kg	250
1,2-Dichloroethane	ND		ug/kg	50
1,1,1-Trichloroethane	ND		ug/kg	50
Bromodichloromethane	ND		ug/kg	50
trans-1,3-Dichloropropene	ND		ug/kg	50
cis-1,3-Dichloropropene	ND		ug/kg	50
1,1-Dichloropropene	ND		ug/kg	250
Bromoform	ND		ug/kg	200
1,1,2,2-Tetrachloroethane	ND		ug/kg	50
Benzene	ND		ug/kg	50
Toluene	ND		ug/kg	75
Ethylbenzene	ND		ug/kg	50
Chloromethane	ND		ug/kg	250
Bromomethane	ND		ug/kg	100
Vinyl chloride	ND		ug/kg	100
Chloroethane	ND		ug/kg	100
1,1-Dichloroethene	ND		ug/kg	50
trans-1,2-Dichloroethene	ND		ug/kg	75
Trichloroethene	ND		ug/kg	50
1,2-Dichlorobenzene	ND		ug/kg	250
1,3-Dichlorobenzene	ND		ug/kg	250
1,4-Dichlorobenzene	ND		ug/kg	250



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/24/07 09:48  
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 19 Batch: WG291744-6				
Methyl tert butyl ether	ND		ug/kg	100
p/m-Xylene	ND		ug/kg	100
o-Xylene	ND		ug/kg	100
cis-1,2-Dichloroethene	ND		ug/kg	50
Dibromomethane	ND		ug/kg	500
1,2,3-Trichloropropane	ND		ug/kg	500
Styrene	ND		ug/kg	100
Dichlorodifluoromethane	ND		ug/kg	500
Acetone	ND		ug/kg	500
Carbon disulfide	ND		ug/kg	2500
2-Butanone	ND		ug/kg	500
4-Methyl-2-pentanone	ND		ug/kg	500
2-Hexanone	ND		ug/kg	500
Bromochloromethane	ND		ug/kg	250
Tetrahydrofuran	ND		ug/kg	1000
2,2-Dichloropropane	ND		ug/kg	250
1,2-Dibromoethane	ND		ug/kg	200
1,3-Dichloropropane	ND		ug/kg	250
1,1,1,2-Tetrachloroethane	ND		ug/kg	50
Bromobenzene	ND		ug/kg	250
n-Butylbenzene	ND		ug/kg	50
sec-Butylbenzene	ND		ug/kg	50
tert-Butylbenzene	ND		ug/kg	250
o-Chlorotoluene	ND		ug/kg	250
p-Chlorotoluene	ND		ug/kg	250
1,2-Dibromo-3-chloropropane	ND		ug/kg	250
Hexachlorobutadiene	ND		ug/kg	250
Isopropylbenzene	ND		ug/kg	50
p-Isopropyltoluene	ND		ug/kg	50
Naphthalene	ND		ug/kg	250
n-Propylbenzene	ND		ug/kg	50

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/24/07 09:48  
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 19 Batch: WG291744-6				
1,2,3-Trichlorobenzene	ND		ug/kg	250
1,2,4-Trichlorobenzene	ND		ug/kg	250
1,3,5-Trimethylbenzene	ND		ug/kg	250
1,2,4-Trimethylbenzene	ND		ug/kg	250
Ethyl ether	ND		ug/kg	250
Isopropyl Ether	ND		ug/kg	200
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200
Tertiary-Amyl Methyl Ether	ND		ug/kg	200
1,4-Dioxane	ND		ug/kg	25000

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	92		70-130



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/23/07 15:32  
Analyst: SE

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 04 Batch: WG291764-3				
Methylene chloride	ND		ug/kg	500
1,1-Dichloroethane	ND		ug/kg	75
Chloroform	ND		ug/kg	75
Carbon tetrachloride	ND		ug/kg	50
1,2-Dichloropropane	ND		ug/kg	180
Dibromochloromethane	ND		ug/kg	50
1,1,2-Trichloroethane	ND		ug/kg	75
Tetrachloroethene	ND		ug/kg	50
Chlorobenzene	ND		ug/kg	50
Trichlorofluoromethane	ND		ug/kg	250
1,2-Dichloroethane	ND		ug/kg	50
1,1,1-Trichloroethane	ND		ug/kg	50
Bromodichloromethane	ND		ug/kg	50
trans-1,3-Dichloropropene	ND		ug/kg	50
cis-1,3-Dichloropropene	ND		ug/kg	50
1,1-Dichloropropene	ND		ug/kg	250
Bromoform	ND		ug/kg	200
1,1,2,2-Tetrachloroethane	ND		ug/kg	50
Benzene	ND		ug/kg	50
Toluene	ND		ug/kg	75
Ethylbenzene	ND		ug/kg	50
Chloromethane	ND		ug/kg	250
Bromomethane	ND		ug/kg	100
Vinyl chloride	ND		ug/kg	100
Chloroethane	ND		ug/kg	100
1,1-Dichloroethene	ND		ug/kg	50
trans-1,2-Dichloroethene	ND		ug/kg	75
Trichloroethene	ND		ug/kg	50
1,2-Dichlorobenzene	ND		ug/kg	250
1,3-Dichlorobenzene	ND		ug/kg	250
1,4-Dichlorobenzene	ND		ug/kg	250

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/23/07 15:32  
Analyst: SE

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 04 Batch: WG291764-3				
Methyl tert butyl ether	ND		ug/kg	100
p/m-Xylene	ND		ug/kg	100
o-Xylene	ND		ug/kg	100
cis-1,2-Dichloroethene	ND		ug/kg	50
Dibromomethane	ND		ug/kg	500
1,2,3-Trichloropropane	ND		ug/kg	500
Styrene	ND		ug/kg	100
Dichlorodifluoromethane	ND		ug/kg	500
Acetone	ND		ug/kg	500
Carbon disulfide	ND		ug/kg	2500
2-Butanone	ND		ug/kg	500
4-Methyl-2-pentanone	ND		ug/kg	500
2-Hexanone	ND		ug/kg	500
Bromochloromethane	ND		ug/kg	250
Tetrahydrofuran	ND		ug/kg	1000
2,2-Dichloropropane	ND		ug/kg	250
1,2-Dibromoethane	ND		ug/kg	200
1,3-Dichloropropane	ND		ug/kg	250
1,1,1,2-Tetrachloroethane	ND		ug/kg	50
Bromobenzene	ND		ug/kg	250
n-Butylbenzene	ND		ug/kg	50
sec-Butylbenzene	ND		ug/kg	50
tert-Butylbenzene	ND		ug/kg	250
o-Chlorotoluene	ND		ug/kg	250
p-Chlorotoluene	ND		ug/kg	250
1,2-Dibromo-3-chloropropane	ND		ug/kg	250
Hexachlorobutadiene	ND		ug/kg	250
Isopropylbenzene	ND		ug/kg	50
p-Isopropyltoluene	ND		ug/kg	50
Naphthalene	ND		ug/kg	250
n-Propylbenzene	ND		ug/kg	50

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/23/07 15:32  
Analyst: SE

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 04 Batch: WG291764-3				
1,2,3-Trichlorobenzene	ND		ug/kg	250
1,2,4-Trichlorobenzene	ND		ug/kg	250
1,3,5-Trimethylbenzene	ND		ug/kg	250
1,2,4-Trimethylbenzene	ND		ug/kg	250
Ethyl ether	ND		ug/kg	250
Isopropyl Ether	ND		ug/kg	200
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200
Tertiary-Amyl Methyl Ether	ND		ug/kg	200
1,4-Dioxane	ND		ug/kg	25000

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	104		70-130

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/24/07 09:29  
Analyst: SE

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 05-14 Batch: WG291767-3				
Methylene chloride	ND		ug/kg	10
1,1-Dichloroethane	ND		ug/kg	1.5
Chloroform	ND		ug/kg	1.5
Carbon tetrachloride	ND		ug/kg	1.0
1,2-Dichloropropane	ND		ug/kg	3.5
Dibromochloromethane	ND		ug/kg	1.0
1,1,2-Trichloroethane	ND		ug/kg	1.5
Tetrachloroethene	ND		ug/kg	1.0
Chlorobenzene	ND		ug/kg	1.0
Trichlorofluoromethane	ND		ug/kg	5.0
1,2-Dichloroethane	ND		ug/kg	1.0
1,1,1-Trichloroethane	ND		ug/kg	1.0
Bromodichloromethane	ND		ug/kg	1.0
trans-1,3-Dichloropropene	ND		ug/kg	1.0
cis-1,3-Dichloropropene	ND		ug/kg	1.0
1,1-Dichloropropene	ND		ug/kg	5.0
Bromoform	ND		ug/kg	4.0
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0
Benzene	ND		ug/kg	1.0
Toluene	ND		ug/kg	1.5
Ethylbenzene	ND		ug/kg	1.0
Chloromethane	ND		ug/kg	5.0
Bromomethane	ND		ug/kg	2.0
Vinyl chloride	ND		ug/kg	2.0
Chloroethane	ND		ug/kg	2.0
1,1-Dichloroethene	ND		ug/kg	1.0
trans-1,2-Dichloroethene	ND		ug/kg	1.5
Trichloroethene	ND		ug/kg	1.0
1,2-Dichlorobenzene	ND		ug/kg	5.0
1,3-Dichlorobenzene	ND		ug/kg	5.0
1,4-Dichlorobenzene	ND		ug/kg	5.0

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/24/07 09:29  
Analyst: SE

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 05-14 Batch: WG291767-3				
Methyl tert butyl ether	ND		ug/kg	2.0
p/m-Xylene	ND		ug/kg	2.0
o-Xylene	ND		ug/kg	2.0
cis-1,2-Dichloroethene	ND		ug/kg	1.0
Dibromomethane	ND		ug/kg	10
1,2,3-Trichloropropane	ND		ug/kg	10
Styrene	ND		ug/kg	2.0
Dichlorodifluoromethane	ND		ug/kg	10
Acetone	ND		ug/kg	10
Carbon disulfide	ND		ug/kg	50
2-Butanone	ND		ug/kg	10
4-Methyl-2-pentanone	ND		ug/kg	10
2-Hexanone	ND		ug/kg	10
Bromochloromethane	ND		ug/kg	5.0
Tetrahydrofuran	ND		ug/kg	20
2,2-Dichloropropane	ND		ug/kg	5.0
1,2-Dibromoethane	ND		ug/kg	4.0
1,3-Dichloropropane	ND		ug/kg	5.0
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0
Bromobenzene	ND		ug/kg	5.0
n-Butylbenzene	ND		ug/kg	1.0
sec-Butylbenzene	ND		ug/kg	1.0
tert-Butylbenzene	ND		ug/kg	5.0
o-Chlorotoluene	ND		ug/kg	5.0
p-Chlorotoluene	ND		ug/kg	5.0
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0
Hexachlorobutadiene	ND		ug/kg	5.0
Isopropylbenzene	ND		ug/kg	1.0
p-Isopropyltoluene	ND		ug/kg	1.0
Naphthalene	ND		ug/kg	5.0
n-Propylbenzene	ND		ug/kg	1.0

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/24/07 09:29  
Analyst: SE

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 05-14 Batch: WG291767-3				
1,2,3-Trichlorobenzene	ND		ug/kg	5.0
1,2,4-Trichlorobenzene	ND		ug/kg	5.0
1,3,5-Trimethylbenzene	ND		ug/kg	5.0
1,2,4-Trimethylbenzene	ND		ug/kg	5.0
Ethyl ether	ND		ug/kg	5.0
Isopropyl Ether	ND		ug/kg	4.0
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0
1,4-Dioxane	ND		ug/kg	500

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	103		70-130

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

**Method Blank Analysis  
Batch Quality Control**

**Analytical Method:** 60,8260B  
**Analytical Date:** 08/24/07 17:46  
**Analyst:** PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 15-18 Batch: WG291909-3				
Methylene chloride	ND		ug/kg	10
1,1-Dichloroethane	ND		ug/kg	1.5
Chloroform	ND		ug/kg	1.5
Carbon tetrachloride	ND		ug/kg	1.0
1,2-Dichloropropane	ND		ug/kg	3.5
Dibromochloromethane	ND		ug/kg	1.0
1,1,2-Trichloroethane	ND		ug/kg	1.5
Tetrachloroethene	ND		ug/kg	1.0
Chlorobenzene	ND		ug/kg	1.0
Trichlorofluoromethane	ND		ug/kg	5.0
1,2-Dichloroethane	ND		ug/kg	1.0
1,1,1-Trichloroethane	ND		ug/kg	1.0
Bromodichloromethane	ND		ug/kg	1.0
trans-1,3-Dichloropropene	ND		ug/kg	1.0
cis-1,3-Dichloropropene	ND		ug/kg	1.0
1,1-Dichloropropene	ND		ug/kg	5.0
Bromoform	ND		ug/kg	4.0
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0
Benzene	ND		ug/kg	1.0
Toluene	ND		ug/kg	1.5
Ethylbenzene	ND		ug/kg	1.0
Chloromethane	ND		ug/kg	5.0
Bromomethane	ND		ug/kg	2.0
Vinyl chloride	ND		ug/kg	2.0
Chloroethane	ND		ug/kg	2.0
1,1-Dichloroethene	ND		ug/kg	1.0
trans-1,2-Dichloroethene	ND		ug/kg	1.5
Trichloroethene	ND		ug/kg	1.0
1,2-Dichlorobenzene	ND		ug/kg	5.0
1,3-Dichlorobenzene	ND		ug/kg	5.0
1,4-Dichlorobenzene	ND		ug/kg	5.0



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/24/07 17:46  
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 15-18 Batch: WG291909-3				
Methyl tert butyl ether	ND		ug/kg	2.0
p/m-Xylene	ND		ug/kg	2.0
o-Xylene	ND		ug/kg	2.0
cis-1,2-Dichloroethene	ND		ug/kg	1.0
Dibromomethane	ND		ug/kg	10
1,2,3-Trichloropropane	ND		ug/kg	10
Styrene	ND		ug/kg	2.0
Dichlorodifluoromethane	ND		ug/kg	10
Acetone	ND		ug/kg	10
Carbon disulfide	ND		ug/kg	50
2-Butanone	ND		ug/kg	10
4-Methyl-2-pentanone	ND		ug/kg	10
2-Hexanone	ND		ug/kg	10
Bromochloromethane	ND		ug/kg	5.0
Tetrahydrofuran	ND		ug/kg	20
2,2-Dichloropropane	ND		ug/kg	5.0
1,2-Dibromoethane	ND		ug/kg	4.0
1,3-Dichloropropane	ND		ug/kg	5.0
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0
Bromobenzene	ND		ug/kg	5.0
n-Butylbenzene	ND		ug/kg	1.0
sec-Butylbenzene	ND		ug/kg	1.0
tert-Butylbenzene	ND		ug/kg	5.0
o-Chlorotoluene	ND		ug/kg	5.0
p-Chlorotoluene	ND		ug/kg	5.0
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0
Hexachlorobutadiene	ND		ug/kg	5.0
Isopropylbenzene	ND		ug/kg	1.0
p-Isopropyltoluene	ND		ug/kg	1.0
Naphthalene	ND		ug/kg	5.0
n-Propylbenzene	ND		ug/kg	1.0



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/24/07 17:46  
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 15-18 Batch: WG291909-3				
1,2,3-Trichlorobenzene	ND		ug/kg	5.0
1,2,4-Trichlorobenzene	ND		ug/kg	5.0
1,3,5-Trimethylbenzene	ND		ug/kg	5.0
1,2,4-Trimethylbenzene	ND		ug/kg	5.0
Ethyl ether	ND		ug/kg	5.0
Isopropyl Ether	ND		ug/kg	4.0
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0
1,4-Dioxane	ND		ug/kg	500

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	105		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712179

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 01-03 Batch: WG291724-1 WG291724-2					
Methylene chloride	86	86	70-130	0	25
1,1-Dichloroethane	103	108	70-130	5	25
Chloroform	112	113	70-130	1	25
Carbon tetrachloride	118	120	70-130	2	25
1,2-Dichloropropane	98	100	70-130	2	25
Dibromochloromethane	112	109	70-130	3	25
1,1,2-Trichloroethane	110	104	70-130	6	25
Tetrachloroethene	104	109	70-130	5	25
Chlorobenzene	102	102	70-130	0	25
Trichlorofluoromethane	132	134	70-130	2	25
1,2-Dichloroethane	125	120	70-130	4	25
1,1,1-Trichloroethane	116	120	70-130	3	25
Bromodichloromethane	116	114	70-130	2	25
trans-1,3-Dichloropropene	102	101	70-130	1	25
cis-1,3-Dichloropropene	95	95	70-130	0	25
1,1-Dichloropropene	101	106	70-130	5	25
Bromoform	113	110	70-130	3	50
1,1,2,2-Tetrachloroethane	109	102	70-130	7	25
Benzene	97	100	70-130	3	25
Toluene	98	103	70-130	5	25
Ethylbenzene	107	112	70-130	5	25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712179

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 01-03 Batch: WG291724-1 WG291724-2					
Chloromethane	93	99	70-130	6	50
Bromomethane	126	126	70-130	0	50
Vinyl chloride	103	110	70-130	7	25
Chloroethane	115	120	70-130	4	25
1,1-Dichloroethene	100	102	70-130	2	25
trans-1,2-Dichloroethene	96	102	70-130	6	25
Trichloroethene	104	108	70-130	4	25
1,2-Dichlorobenzene	104	108	70-130	4	25
1,3-Dichlorobenzene	104	104	70-130	0	25
1,4-Dichlorobenzene	102	105	70-130	3	25
Methyl tert butyl ether	93	85	70-130	9	25
p/m-Xylene	101	107	70-130	6	25
o-Xylene	102	104	70-130	2	25
cis-1,2-Dichloroethene	102	105	70-130	3	25
Dibromomethane	116	109	70-130	6	25
1,2,3-Trichloropropane	128	116	70-130	10	25
Styrene	98	103	70-130	5	25
Dichlorodifluoromethane	72	75	70-130	4	50
Acetone	107	91	70-130	16	50
Carbon disulfide	91	96	70-130	5	25
2-Butanone	102	88	70-130	15	50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712179

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 01-03 Batch: WG291724-1 WG291724-2					
4-Methyl-2-pentanone	109	94	70-130	15	50
2-Hexanone	108	100	70-130	8	50
Bromochloromethane	97	98	70-130	1	25
Tetrahydrofuran	91	83	70-130	9	25
2,2-Dichloropropane	76	78	70-130	3	50
1,2-Dibromoethane	111	106	70-130	5	25
1,3-Dichloropropane	110	110	70-130	0	25
1,1,1,2-Tetrachloroethane	112	114	70-130	2	25
Bromobenzene	102	107	70-130	5	25
n-Butylbenzene	87	92	70-130	6	25
sec-Butylbenzene	110	114	70-130	4	25
tert-Butylbenzene	108	112	70-130	4	25
o-Chlorotoluene	111	112	70-130	1	25
p-Chlorotoluene	112	114	70-130	2	25
1,2-Dibromo-3-chloropropane	122	112	70-130	9	50
Hexachlorobutadiene	105	110	70-130	5	25
Isopropylbenzene	115	119	70-130	3	25
p-Isopropyltoluene	112	115	70-130	3	25
Naphthalene	104	101	70-130	3	25
n-Propylbenzene	107	112	70-130	5	25
1,2,3-Trichlorobenzene	102	106	70-130	4	25

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 01-03 Batch: WG291724-1 WG291724-2					
1,2,4-Trichlorobenzene	102	105	70-130	3	25
1,3,5-Trimethylbenzene	109	110	70-130	1	25
1,2,4-Trimethylbenzene	109	113	70-130	4	25
Ethyl ether	116	112	70-130	4	25
Isopropyl Ether	97	96	70-130	1	25
Ethyl-Tert-Butyl-Ether	90	89	70-130	1	25
Tertiary-Amyl Methyl Ether	95	89	70-130	7	25
1,4-Dioxane	104	91	70-130	13	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116	110	70-130
Toluene-d8	99	100	70-130
4-Bromofluorobenzene	104	102	70-130
Dibromofluoromethane	107	103	70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712179

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 19 Batch: WG291744-4 WG291744-5					
Methylene chloride	98	102	70-130	4	25
1,1-Dichloroethane	97	104	70-130	7	25
Chloroform	90	98	70-130	9	25
Carbon tetrachloride	85	92	70-130	8	25
1,2-Dichloropropane	98	107	70-130	9	25
Dibromochloromethane	70	80	70-130	13	25
1,1,2-Trichloroethane	99	109	70-130	10	25
Tetrachloroethene	100	106	70-130	6	25
Chlorobenzene	98	106	70-130	8	25
Trichlorofluoromethane	98	101	70-130	3	25
1,2-Dichloroethane	101	107	70-130	6	25
1,1,1-Trichloroethane	93	101	70-130	8	25
Bromodichloromethane	85	93	70-130	9	25
trans-1,3-Dichloropropene	81	90	70-130	11	25
cis-1,3-Dichloropropene	85	94	70-130	10	25
1,1-Dichloropropene	98	103	70-130	5	25
Bromoform	80	90	70-130	12	50
1,1,1,2-Tetrachloroethane	79	93	70-130	16	25
Benzene	98	104	70-130	6	25
Toluene	98	106	70-130	8	25
Ethylbenzene	103	111	70-130	7	25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712179

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 19 Batch: WG291744-4 WG291744-5					
Chloromethane	73	73	70-130	0	50
Bromomethane	61	70	70-130	14	50
Vinyl chloride	92	94	70-130	2	25
Chloroethane	91	92	70-130	1	25
1,1-Dichloroethene	83	100	70-130	19	25
trans-1,2-Dichloroethene	94	98	70-130	4	25
Trichloroethene	96	104	70-130	8	25
1,2-Dichlorobenzene	96	107	70-130	11	25
1,3-Dichlorobenzene	98	108	70-130	10	25
1,4-Dichlorobenzene	96	106	70-130	10	25
Methyl tert butyl ether	86	101	70-130	16	25
p/m-Xylene	96	103	70-130	7	25
o-Xylene	96	107	70-130	11	25
cis-1,2-Dichloroethene	89	99	70-130	11	25
Dibromomethane	100	111	70-130	10	25
1,2,3-Trichloropropane	107	120	70-130	11	25
Styrene	97	108	70-130	11	25
Dichlorodifluoromethane	61	62	70-130	2	50
Acetone	97	113	70-130	15	50
Carbon disulfide	88	97	70-130	10	25
2-Butanone	91	120	70-130	27	50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712179

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 19 Batch: WG291744-4 WG291744-5					
4-Methyl-2-pentanone	93	110	70-130	17	50
2-Hexanone	91	109	70-130	18	50
Bromochloromethane	89	93	70-130	4	25
Tetrahydrofuran	87	102	70-130	16	25
2,2-Dichloropropane	93	99	70-130	6	50
1,2-Dibromoethane	89	98	70-130	10	25
1,3-Dichloropropane	102	110	70-130	8	25
1,1,1,2-Tetrachloroethane	86	95	70-130	10	25
Bromobenzene	96	107	70-130	11	25
n-Butylbenzene	74	77	70-130	4	25
sec-Butylbenzene	103	110	70-130	7	25
tert-Butylbenzene	99	108	70-130	9	25
o-Chlorotoluene	98	107	70-130	9	25
p-Chlorotoluene	101	111	70-130	9	25
1,2-Dibromo-3-chloropropane	74	86	70-130	15	50
Hexachlorobutadiene	92	96	70-130	4	25
Isopropylbenzene	101	108	70-130	7	25
p-Isopropyltoluene	96	103	70-130	7	25
Naphthalene	91	104	70-130	13	25
n-Propylbenzene	102	112	70-130	9	25
1,2,3-Trichlorobenzene	92	101	70-130	9	25



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712179

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 19 Batch: WG291744-4 WG291744-5					
1,2,4-Trichlorobenzene	87	99	70-130	13	25
1,3,5-Trimethylbenzene	94	103	70-130	9	25
1,2,4-Trimethylbenzene	97	105	70-130	8	25
Ethyl ether	102	114	70-130	11	25
Isopropyl Ether	91	107	70-130	16	25
Ethyl-Tert-Butyl-Ether	89	106	70-130	17	25
Tertiary-Amyl Methyl Ether	86	103	70-130	18	25
1,4-Dioxane	90	105	70-130	15	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101	100	70-130
Toluene-d8	102	102	70-130
4-Bromofluorobenzene	99	100	70-130
Dibromofluoromethane	87	85	70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712179

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 04 Batch: WG291764-1 WG291764-2					
Methylene chloride	86	86	70-130	0	25
1,1-Dichloroethane	103	108	70-130	5	25
Chloroform	112	113	70-130	1	25
Carbon tetrachloride	118	120	70-130	2	25
1,2-Dichloropropane	98	100	70-130	2	25
Dibromochloromethane	112	109	70-130	3	25
1,1,2-Trichloroethane	110	104	70-130	6	25
Tetrachloroethene	104	109	70-130	5	25
Chlorobenzene	102	102	70-130	0	25
Trichlorofluoromethane	132	134	70-130	2	25
1,2-Dichloroethane	125	120	70-130	4	25
1,1,1-Trichloroethane	116	120	70-130	3	25
Bromodichloromethane	116	114	70-130	2	25
trans-1,3-Dichloropropene	102	101	70-130	1	25
cis-1,3-Dichloropropene	95	95	70-130	0	25
1,1-Dichloropropene	101	106	70-130	5	25
Bromoform	113	110	70-130	3	50
1,1,2,2-Tetrachloroethane	109	102	70-130	7	25
Benzene	97	100	70-130	3	25
Toluene	98	103	70-130	5	25
Ethylbenzene	107	112	70-130	5	25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712179

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 04 Batch: WG291764-1 WG291764-2					
Chloromethane	93	99	70-130	6	50
Bromomethane	126	126	70-130	0	50
Vinyl chloride	103	110	70-130	7	25
Chloroethane	115	120	70-130	4	25
1,1-Dichloroethene	100	102	70-130	2	25
trans-1,2-Dichloroethene	96	102	70-130	6	25
Trichloroethene	104	108	70-130	4	25
1,2-Dichlorobenzene	104	108	70-130	4	25
1,3-Dichlorobenzene	104	104	70-130	0	25
1,4-Dichlorobenzene	102	105	70-130	3	25
Methyl tert butyl ether	93	85	70-130	9	25
p/m-Xylene	101	107	70-130	6	25
o-Xylene	102	104	70-130	2	25
cis-1,2-Dichloroethene	102	105	70-130	3	25
Dibromomethane	116	109	70-130	6	25
1,2,3-Trichloropropane	128	116	70-130	10	25
Styrene	98	103	70-130	5	25
Dichlorodifluoromethane	72	75	70-130	4	50
Acetone	107	91	70-130	16	50
Carbon disulfide	91	96	70-130	5	25
2-Butanone	102	88	70-130	15	50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712179

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 04 Batch: WG291764-1 WG291764-2					
4-Methyl-2-pentanone	109	94	70-130	15	50
2-Hexanone	108	100	70-130	8	50
Bromochloromethane	97	98	70-130	1	25
Tetrahydrofuran	91	83	70-130	9	25
2,2-Dichloropropane	76	78	70-130	3	50
1,2-Dibromoethane	111	106	70-130	5	25
1,3-Dichloropropane	110	110	70-130	0	25
1,1,1,2-Tetrachloroethane	112	114	70-130	2	25
Bromobenzene	102	107	70-130	5	25
n-Butylbenzene	87	92	70-130	6	25
sec-Butylbenzene	110	114	70-130	4	25
tert-Butylbenzene	108	112	70-130	4	25
o-Chlorotoluene	111	112	70-130	1	25
p-Chlorotoluene	112	114	70-130	2	25
1,2-Dibromo-3-chloropropane	122	112	70-130	9	50
Hexachlorobutadiene	105	110	70-130	5	25
Isopropylbenzene	115	119	70-130	3	25
p-Isopropyltoluene	112	115	70-130	3	25
Naphthalene	104	101	70-130	3	25
n-Propylbenzene	107	112	70-130	5	25
1,2,3-Trichlorobenzene	102	106	70-130	4	25

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712179

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 04 Batch: WG291764-1 WG291764-2					
1,2,4-Trichlorobenzene	102	105	70-130	3	25
1,3,5-Trimethylbenzene	109	110	70-130	1	25
1,2,4-Trimethylbenzene	109	113	70-130	4	25
Ethyl ether	116	112	70-130	4	25
Isopropyl Ether	97	96	70-130	1	25
Ethyl-Tert-Butyl-Ether	90	89	70-130	1	25
Tertiary-Amyl Methyl Ether	95	89	70-130	7	25
1,4-Dioxane	104	91	70-130	13	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116	110	70-130
Toluene-d8	99	100	70-130
4-Bromofluorobenzene	104	102	70-130
Dibromofluoromethane	107	103	70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712179

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 05-14 Batch: WG291767-1 WG291767-2					
Methylene chloride	90	87	70-130	3	25
1,1-Dichloroethane	109	106	70-130	3	25
Chloroform	115	113	70-130	2	25
Carbon tetrachloride	114	115	70-130	1	25
1,2-Dichloropropane	102	100	70-130	2	25
Dibromochloromethane	108	109	70-130	1	25
1,1,2-Trichloroethane	108	109	70-130	1	25
Tetrachloroethene	110	112	70-130	2	25
Chlorobenzene	107	106	70-130	1	25
Trichlorofluoromethane	135	128	70-130	5	25
1,2-Dichloroethane	124	122	70-130	2	25
1,1,1-Trichloroethane	116	118	70-130	2	25
Bromodichloromethane	115	115	70-130	0	25
trans-1,3-Dichloropropene	98	104	70-130	6	25
cis-1,3-Dichloropropene	97	95	70-130	2	25
1,1-Dichloropropene	108	108	70-130	0	25
Bromoform	101	107	70-130	6	50
1,1,2,2-Tetrachloroethane	101	106	70-130	5	25
Benzene	103	99	70-130	4	25
Toluene	104	104	70-130	0	25
Ethylbenzene	113	114	70-130	1	25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712179

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 05-14 Batch: WG291767-1 WG291767-2					
Chloromethane	96	94	70-130	2	50
Bromomethane	130	130	70-130	0	50
Vinyl chloride	108	107	70-130	1	25
Chloroethane	<b>132</b>	122	70-130	8	25
1,1-Dichloroethene	105	105	70-130	0	25
trans-1,2-Dichloroethene	106	102	70-130	4	25
Trichloroethene	109	106	70-130	3	25
1,2-Dichlorobenzene	106	108	70-130	2	25
1,3-Dichlorobenzene	108	111	70-130	3	25
1,4-Dichlorobenzene	108	107	70-130	1	25
Methyl tert butyl ether	82	83	70-130	1	25
p/m-Xylene	109	110	70-130	1	25
o-Xylene	106	108	70-130	2	25
cis-1,2-Dichloroethene	108	105	70-130	3	25
Dibromomethane	114	114	70-130	0	25
1,2,3-Trichloropropane	118	121	70-130	3	25
Styrene	106	106	70-130	0	25
Dichlorodifluoromethane	72	71	70-130	1	50
Acetone	99	87	70-130	13	50
Carbon disulfide	92	90	70-130	2	25
2-Butanone	82	87	70-130	6	50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 05-14 Batch: WG291767-1 WG291767-2					
4-Methyl-2-pentanone	88	97	70-130	10	50
2-Hexanone	94	103	70-130	9	50
Bromochloromethane	98	102	70-130	4	25
Tetrahydrofuran	84	86	70-130	2	25
2,2-Dichloropropane	62	72	70-130	15	50
1,2-Dibromoethane	116	113	70-130	3	25
1,3-Dichloropropane	112	113	70-130	1	25
1,1,1,2-Tetrachloroethane	113	115	70-130	2	25
Bromobenzene	112	110	70-130	2	25
n-Butylbenzene	93	91	70-130	2	25
sec-Butylbenzene	116	113	70-130	3	25
tert-Butylbenzene	115	113	70-130	2	25
o-Chlorotoluene	116	115	70-130	1	25
p-Chlorotoluene	116	114	70-130	2	25
1,2-Dibromo-3-chloropropane	103	106	70-130	3	50
Hexachlorobutadiene	114	108	70-130	5	25
Isopropylbenzene	122	121	70-130	1	25
p-Isopropyltoluene	121	120	70-130	1	25
Naphthalene	102	104	70-130	2	25
n-Propylbenzene	114	113	70-130	1	25
1,2,3-Trichlorobenzene	105	105	70-130	0	25



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 05-14 Batch: WG291767-1 WG291767-2					
1,2,4-Trichlorobenzene	105	103	70-130	2	25
1,3,5-Trimethylbenzene	113	113	70-130	0	25
1,2,4-Trimethylbenzene	117	116	70-130	1	25
Ethyl ether	112	113	70-130	1	25
Isopropyl Ether	97	95	70-130	2	25
Ethyl-Tert-Butyl-Ether	87	88	70-130	1	25
Tertiary-Amyl Methyl Ether	90	88	70-130	2	25
1,4-Dioxane	80	95	70-130	17	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108	106	70-130
Toluene-d8	95	98	70-130
4-Bromofluorobenzene	101	101	70-130
Dibromofluoromethane	103	102	70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712179

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 15-18 Batch: WG291909-1 WG291909-2					
Methylene chloride	91	86	70-130	6	25
1,1-Dichloroethane	98	104	70-130	6	25
Chloroform	111	112	70-130	1	25
Carbon tetrachloride	117	119	70-130	2	25
1,2-Dichloropropane	91	97	70-130	6	25
Dibromochloromethane	106	113	70-130	6	25
1,1,2-Trichloroethane	104	107	70-130	3	25
Tetrachloroethene	101	106	70-130	5	25
Chlorobenzene	95	100	70-130	5	25
Trichlorofluoromethane	129	134	70-130	4	25
1,2-Dichloroethane	124	127	70-130	2	25
1,1,1-Trichloroethane	114	118	70-130	3	25
Bromodichloromethane	116	118	70-130	2	25
trans-1,3-Dichloropropene	95	98	70-130	3	25
cis-1,3-Dichloropropene	88	92	70-130	4	25
1,1-Dichloropropene	98	104	70-130	6	25
Bromoform	105	109	70-130	4	50
1,1,2,2-Tetrachloroethane	105	100	70-130	5	25
Benzene	91	95	70-130	4	25
Toluene	98	100	70-130	2	25
Ethylbenzene	106	110	70-130	4	25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712179

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 15-18 Batch: WG291909-1 WG291909-2					
Chloromethane	89	95	70-130	7	50
Bromomethane	105	108	70-130	3	50
Vinyl chloride	104	106	70-130	2	25
Chloroethane	116	114	70-130	2	25
1,1-Dichloroethene	93	99	70-130	6	25
trans-1,2-Dichloroethene	93	97	70-130	4	25
Trichloroethene	104	104	70-130	0	25
1,2-Dichlorobenzene	100	104	70-130	4	25
1,3-Dichlorobenzene	100	103	70-130	3	25
1,4-Dichlorobenzene	100	102	70-130	2	25
Methyl tert butyl ether	87	89	70-130	2	25
p/m-Xylene	101	104	70-130	3	25
o-Xylene	101	108	70-130	7	25
cis-1,2-Dichloroethene	95	98	70-130	3	25
Dibromomethane	111	115	70-130	4	25
1,2,3-Trichloropropane	119	116	70-130	3	25
Styrene	103	108	70-130	5	25
Dichlorodifluoromethane	61	61	70-130	0	50
Acetone	115	110	70-130	4	50
Carbon disulfide	85	89	70-130	5	25
2-Butanone	92	89	70-130	3	50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712179

**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 15-18 Batch: WG291909-1 WG291909-2					
4-Methyl-2-pentanone	104	98	70-130	6	50
2-Hexanone	109	106	70-130	3	50
Bromochloromethane	94	96	70-130	2	25
Tetrahydrofuran	94	95	70-130	1	25
2,2-Dichloropropane	61	67	70-130	9	50
1,2-Dibromoethane	110	112	70-130	2	25
1,3-Dichloropropane	107	109	70-130	2	25
1,1,1,2-Tetrachloroethane	112	114	70-130	2	25
Bromobenzene	99	102	70-130	3	25
n-Butylbenzene	89	88	70-130	1	25
sec-Butylbenzene	107	109	70-130	2	25
tert-Butylbenzene	105	107	70-130	2	25
o-Chlorotoluene	108	111	70-130	3	25
p-Chlorotoluene	108	111	70-130	3	25
1,2-Dibromo-3-chloropropane	118	110	70-130	7	50
Hexachlorobutadiene	105	106	70-130	1	25
Isopropylbenzene	111	116	70-130	4	25
p-Isopropyltoluene	112	113	70-130	1	25
Naphthalene	103	100	70-130	3	25
n-Propylbenzene	107	108	70-130	1	25
1,2,3-Trichlorobenzene	99	102	70-130	3	25

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 15-18 Batch: WG291909-1 WG291909-2					
1,2,4-Trichlorobenzene	96	96	70-130	0	25
1,3,5-Trimethylbenzene	104	108	70-130	4	25
1,2,4-Trimethylbenzene	108	110	70-130	2	25
Ethyl ether	121	117	70-130	3	25
Isopropyl Ether	96	100	70-130	4	25
Ethyl-Tert-Butyl-Ether	88	88	70-130	0	25
Tertiary-Amyl Methyl Ether	89	91	70-130	2	25
1,4-Dioxane	109	106	70-130	3	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119	121	70-130
Toluene-d8	96	103	70-130
4-Bromofluorobenzene	106	109	70-130
Dibromofluoromethane	104	109	70-130

# **INORGANICS & MISCELLANEOUS**

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

### SAMPLE RESULTS

**Lab ID:** L0712179-01  
**Client ID:** \*EL-AB23-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/22/07 14:00  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	81		%	0.10	1	-	08/23/07 16:05	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-02  
 Client ID: EL-AB45-20070822-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil

Date Collected: 08/22/07 14:05  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	80		%	0.10	1	-	08/23/07 16:05	30,2540G	NM





**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-03  
 Client ID: EL-AB67-20070822-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil

Date Collected: 08/22/07 14:10  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	77		%	0.10	1	-	08/23/07 16:05	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

### SAMPLE RESULTS

**Lab ID:** L0712179-04  
**Client ID:** \*EL-CD23-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/22/07 14:15  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	79		%	0.10	1	-	08/23/07 16:05	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-05  
 Client ID: EL-CD45-20070822-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil

Date Collected: 08/22/07 14:20  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	78		%	0.10	1	-	08/23/07 16:05	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

**Lab ID:** L0712179-06  
**Client ID:** EL-CD67-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/22/07 14:25  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	81		%	0.10	1	-	08/23/07 16:05	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

### SAMPLE RESULTS

**Lab ID:** L0712179-07  
**Client ID:** \*EL-EF23-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/22/07 15:10  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	81		%	0.10	1	-	08/23/07 16:05	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

### SAMPLE RESULTS

**Lab ID:** L0712179-08  
**Client ID:** EL-EF45-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/22/07 15:15  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	81		%	0.10	1	-	08/23/07 16:05	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

### SAMPLE RESULTS

**Lab ID:** L0712179-09  
**Client ID:** EL-EF67-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/22/07 14:30  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	81		%	0.10	1	-	08/23/07 16:05	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-10  
 Client ID: \*EL-GH23-20070822-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil

Date Collected: 08/22/07 15:20  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	84		%	0.10	1	-	08/23/07 16:05	30,2540G	NM





**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-11  
 Client ID: EL-GH45-20070822-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil

Date Collected: 08/22/07 15:25  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	82		%	0.10	1	-	08/23/07 16:05	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

### SAMPLE RESULTS

**Lab ID:** L0712179-12  
**Client ID:** EL-GH67-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/22/07 14:35  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	83		%	0.10	1	-	08/23/07 16:05	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-13  
 Client ID: EL-DE8-20070822-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil

Date Collected: 08/22/07 14:40  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	78		%	0.10	1	-	08/23/07 16:05	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

### SAMPLE RESULTS

**Lab ID:** L0712179-14  
**Client ID:** \*EL-DE1-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/22/07 15:05  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	83		%	0.10	1	-	08/23/07 16:05	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

### SAMPLE RESULTS

**Lab ID:** L0712179-15  
**Client ID:** EL-STEP1-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/22/07 14:45  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	77		%	0.10	1	-	08/23/07 16:05	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

### SAMPLE RESULTS

**Lab ID:** L0712179-16  
**Client ID:** EL-STEP2-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/22/07 14:50  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	76		%	0.10	1	-	08/23/07 16:05	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

### SAMPLE RESULTS

**Lab ID:** L0712179-17  
**Client ID:** EL-STEP3-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/22/07 14:55  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	78		%	0.10	1	-	08/23/07 16:05	30,2540G	NM



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**SAMPLE RESULTS**

Lab ID: L0712179-18  
 Client ID: EL-STEP4-20070822-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil

Date Collected: 08/22/07 15:00  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	79		%	0.10	1	-	08/23/07 16:05	30,2540G	NM





**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

### SAMPLE RESULTS

**Lab ID:** L0712179-19  
**Client ID:** DUP-001-20070822-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/22/07 00:00  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	78		%	0.10	1	-	08/23/07 16:05	30,2540G	NM



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712179

**Report Date:** 08/27/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Associated sample(s): 01-19 QC Batch ID: WG291641-1 QC Sample: L0712179-01 Client ID: *EL-AB23-20070822-01					
Solids, Total	81	81	%	0	20

Project Name: NA SOIL EXCAVATION

Lab Number: L0712179

Project Number: 0051545

Report Date: 08/27/07

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

## Cooler Information

<b>Cooler</b>	<b>Custody Seal</b>
A	Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0712179-01A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-01B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-01C	Plastic 2oz unpreserved for TS	A	N/A	2C	Y	Absent	TS
L0712179-02A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-02B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-02C	Plastic 2oz unpreserved for TS	A	N/A	2C	Y	Absent	TS
L0712179-03A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-03B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-03C	Plastic 2oz unpreserved for TS	A	N/A	2C	Y	Absent	TS
L0712179-04A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260H-04
L0712179-04B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260H-04
L0712179-04C	Plastic 2oz unpreserved for TS	A	N/A	2C	Y	Absent	TS
L0712179-05A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-05B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-05C	Plastic 2oz unpreserved for TS	A	N/A	2C	Y	Absent	TS
L0712179-06A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-06B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-06C	Plastic 2oz unpreserved for TS	A	N/A	2C	Y	Absent	TS
L0712179-07A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-07B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-07C	Plastic 2oz unpreserved for TS	A	N/A	2C	Y	Absent	TS
L0712179-08A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-08B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-08C	Plastic 2oz unpreserved for TS	A	N/A	2C	Y	Absent	TS
L0712179-09A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-09B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-09C	Plastic 2oz unpreserved for TS	A	N/A	2C	Y	Absent	TS
L0712179-10A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-10B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-10C	Plastic 2oz unpreserved for TS	A	N/A	2C	Y	Absent	TS

Project Name: NA SOIL EXCAVATION

Project Number: 0051545

Lab Number: L0712179

Report Date: 08/27/07

**Container Information**

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0712179-11A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-11B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-11C	Plastic 2oz unpreserved for TS	A	N/A	2C	Y	Absent	TS
L0712179-12A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-12B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-12C	Plastic 2oz unpreserved for TS	A	N/A	2C	Y	Absent	TS
L0712179-13A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-13B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-13C	Plastic 2oz unpreserved for TS	A	N/A	2C	Y	Absent	TS
L0712179-14A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-14B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-14C	Plastic 2oz unpreserved for TS	A	N/A	2C	Y	Absent	TS
L0712179-15A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-15B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-15C	Plastic 2oz unpreserved for TS	A	N/A	2C	Y	Absent	TS
L0712179-16A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-16B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-16C	Plastic 2oz unpreserved for TS	A	N/A	2C	Y	Absent	TS
L0712179-17A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-17B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-17C	Plastic 2oz unpreserved for TS	A	N/A	2C	Y	Absent	TS
L0712179-18A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-18B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260LW-04
L0712179-18C	Plastic 2oz unpreserved for TS	A	N/A	2C	Y	Absent	TS
L0712179-19A	Vial MeOH preserved	A	N/A	2C	Y	Absent	MCP-8260H-04
L0712179-19B	Vial water preserved	A	N/A	2C	Y	Absent	MCP-8260H-04
L0712179-19C	Plastic 2oz unpreserved for TS	A	N/A	2C	Y	Absent	TS

**Container Comments**

L0712179-01A	Temp Probe
L0712179-01B	Temp Probe
L0712179-01C	Temp Probe
L0712179-02A	Temp Probe
L0712179-02B	Temp Probe

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**Container Information**

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
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**Container Comments**

L0712179-02C Temp Probe

L0712179-03A Temp Probe

L0712179-03B Temp Probe

L0712179-03C Temp Probe

L0712179-04A Temp Probe

L0712179-04B Temp Probe

L0712179-04C Temp Probe

L0712179-05A Temp Probe

L0712179-05B Temp Probe

L0712179-05C Temp Probe

L0712179-06A Temp Probe

L0712179-06B Temp Probe

L0712179-06C Temp Probe

L0712179-07A Temp Probe

L0712179-07B Temp Probe

L0712179-07C Temp Probe

L0712179-08A Temp Probe

L0712179-08B Temp Probe

L0712179-08C Temp Probe

L0712179-09A Temp Probe

L0712179-09B Temp Probe

L0712179-09C Temp Probe

L0712179-10A Temp Probe

L0712179-10B Temp Probe

L0712179-10C Temp Probe

L0712179-11A Temp Probe

L0712179-11B Temp Probe

L0712179-11C Temp Probe

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712179**Project Number:** 0051545**Report Date:** 08/27/07**Container Information**

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
--------------	----------------	--------	----	------	------	------	----------

**Container Comments**

L0712179-12A Temp Probe

L0712179-12B Temp Probe

L0712179-12C Temp Probe

L0712179-13A Temp Probe

L0712179-13B Temp Probe

L0712179-13C Temp Probe

L0712179-14A Temp Probe

L0712179-14B Temp Probe

L0712179-14C Temp Probe

L0712179-15A

L0712179-15B Temp Probe

L0712179-15C Temp Probe

L0712179-16A Temp Probe

L0712179-16B Temp Probe

L0712179-16C Temp Probe

L0712179-17A Temp Probe

L0712179-17B Temp Probe

L0712179-17C Temp Probe

L0712179-18A Temp Probe

L0712179-18B Temp Probe

L0712179-18C Temp Probe

L0712179-19A

L0712179-19B Temp Probe

L0712179-19C Temp Probe

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

## GLOSSARY

### Acronyms

- EPA - Environmental Protection Agency.  
LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.  
LCSD- Laboratory Control Sample Duplicate: Refer to LCS.  
MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.  
MSD - Matrix Spike Sample Duplicate: Refer to MS.  
NA - Not Applicable.  
NI - Not Ignitable.  
NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.  
ND - Not detected at the reported detection limit for the sample.  
RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.  
RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

- A - Spectra identified as "Aldol Condensation Product".  
B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.  
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.  
J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

### Standard Qualifiers

- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712179  
**Report Date:** 08/27/07

## REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

## LIMITATION OF LIABILITIES

Alpha Woods Hole Labs performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.









# CHAIN OF CUSTODY

PAGE 2 OF 2Date Rec'd in Lab: 8/22ALPHA Job #: LO712179WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193RAYNHAM, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

### Project Information

Project Name: NA SOIL EXCAVATIONProject Location: RAYTHEON - WAYLANDProject #: 0051545Project Manager: JASON FLATTERY

ALPHA Quote #:

### Turn-Around Time

 Standard  RUSH (only confirmed if pre-approved!)Date Due: 8/29 24hr STAT Time:

### Report Information - Data Deliverables

 FAX  EMAIL ADEx  Add'l Deliverables

### Billing Information

 Same as Client info PO #:

### Client Information

Client: ERM BOSTONAddress: 394 BOYLSTON ST 6<sup>TH</sup> FLOORBOSTON, MA 02116Phone: (617) 646-7800Fax: (617) 267-6447Email: jason.flattery@erm.com These samples have been previously analyzed by Alpha

### Other Project Specific Requirements/Comments/Detection Limits:

\* = PRIORITY SAMPLES. PLEASE ANALYZE FIRST

### Regulatory Requirements/Report Limits

State /Fed Program: MCP Criteria: S-2/GW-1

### MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

 Yes  No Are MCP Analytical Methods Required?  
 Yes  No Are CT RCP (Reasonable Confidence Protocols) Required?

**ANALYSIS**  
VOCS 8260 High  
VOCS 8260 Low  
TOTAL SOLIDS

**SAMPLE HANDLING**  
 Filtration  
 Done  
 Not needed  
 Lab to do Preservation  
 Lab to do  
 (Please specify below)

**TOTAL # BOTTLES**  
3

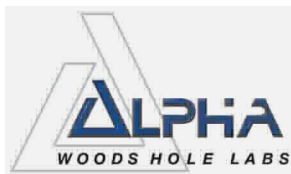
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials				Sample Specific Comments	TOTAL # BOTTLES
		Date	Time							
12179-11	EL-GH45-20070822-01	8/22/07	15:25	S	JDF	X	X	X		3
12	EL-GH67-20070822-01		14:35			X	X	X		3
13	EL-DE8-20070822-01		14:40			X	X	X		3
14 *	EL-DE1-20070822-01		15:05			X	X	X		3
15	EL-STEP1-20070822-01		14:45			X	X	X		3
16	EL-STEP2-20070822-01		14:50			X	X	X		3
17	EL-STEP3-20070822-01		14:55			X	X	X		3
18	EL-STEP4-20070822-01		15:00			X	X	X		3
	<del>EL-DE</del>									
19	DUP-001-20070822-01	8/22/07	24:00	S	JDF	X	X	X		3

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT  
MA MCP or CT RCP?Container Type V V PPreservative MEOH H2O N/ARelinquished By: [Signature]Date/Time: 8/22/07 1823Received By: [Signature]Date/Time: 8/22/07 1828

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

08270710:15



## ANALYTICAL REPORT

Lab Number: L0712420

Client: ERM-New England  
399 Boylston Street  
6th Floor  
Boston, MA 02116

ATTN: Jason Flattery

Project Name: NA SOIL EXCAVATION

Project Number: 0051545

Report Date: 08/29/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712420  
**Report Date:** 08/29/07

**Alpha Sample ID**

L0712420-01

**Client ID**

EL-DE1-3-20070828-01

**Sample Location**

RAYTHEON WAYLAND



Project Name: NA SOIL EXCAVATION

Lab Number: L0712420

Project Number: 0051545

Report Date: 08/29/07

### MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A
A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	YES
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712420  
**Report Date:** 08/29/07

### Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

#### MCP Related Narratives

##### Volatile Organics

L0712420-01 was processed against a calibration curve that utilized a quadratic fit for 2,2-Dichloropropane.

In reference to question E:

The WG292277-1/2 LCS/LCSD % recoveries for Dichlorodifluoromethane and 2,2-Dichloropropane, both difficult analytes, are below the individual acceptance criteria for the compounds, but within the overall method allowances.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: 

Title: Technical Director/Representative

Date: 08/29/07

# ORGANICS

# VOLATILES



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712420**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

**Lab ID:** L0712420-01  
**Client ID:** EL-DE1-3-20070828-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/29/07 10:58  
**Analyst:** SE  
**Percent Solids:** 74%

**Date Collected:** 08/28/07 14:15  
**Date Received:** 08/28/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Methylene chloride	ND		ug/kg	870	1
1,1-Dichloroethane	ND		ug/kg	130	1
Chloroform	ND		ug/kg	130	1
Carbon tetrachloride	ND		ug/kg	87	1
1,2-Dichloropropane	ND		ug/kg	300	1
Dibromochloromethane	ND		ug/kg	87	1
1,1,2-Trichloroethane	ND		ug/kg	130	1
Tetrachloroethene	560		ug/kg	87	1
Chlorobenzene	ND		ug/kg	87	1
Trichlorofluoromethane	ND		ug/kg	430	1
1,2-Dichloroethane	ND		ug/kg	87	1
1,1,1-Trichloroethane	ND		ug/kg	87	1
Bromodichloromethane	ND		ug/kg	87	1
trans-1,3-Dichloropropene	ND		ug/kg	87	1
cis-1,3-Dichloropropene	ND		ug/kg	87	1
1,1-Dichloropropene	ND		ug/kg	430	1
Bromoform	ND		ug/kg	350	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	87	1
Benzene	ND		ug/kg	87	1
Toluene	ND		ug/kg	130	1
Ethylbenzene	ND		ug/kg	87	1
Chloromethane	ND		ug/kg	430	1
Bromomethane	ND		ug/kg	170	1
Vinyl chloride	ND		ug/kg	170	1
Chloroethane	ND		ug/kg	170	1
1,1-Dichloroethene	ND		ug/kg	87	1
trans-1,2-Dichloroethene	ND		ug/kg	130	1
Trichloroethene	3700		ug/kg	87	1
1,2-Dichlorobenzene	ND		ug/kg	430	1
1,3-Dichlorobenzene	ND		ug/kg	430	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712420**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712420-01  
 Client ID: EL-DE1-3-20070828-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/28/07 14:15  
 Date Received: 08/28/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
1,4-Dichlorobenzene	ND		ug/kg	430	1
Methyl tert butyl ether	ND		ug/kg	170	1
p/m-Xylene	ND		ug/kg	170	1
o-Xylene	ND		ug/kg	170	1
cis-1,2-Dichloroethene	ND		ug/kg	87	1
Dibromomethane	ND		ug/kg	870	1
1,2,3-Trichloropropane	ND		ug/kg	870	1
Styrene	ND		ug/kg	170	1
Dichlorodifluoromethane	ND		ug/kg	870	1
Acetone	ND		ug/kg	870	1
Carbon disulfide	ND		ug/kg	4300	1
2-Butanone	ND		ug/kg	870	1
4-Methyl-2-pentanone	ND		ug/kg	870	1
2-Hexanone	ND		ug/kg	870	1
Bromochloromethane	ND		ug/kg	430	1
Tetrahydrofuran	ND		ug/kg	1700	1
2,2-Dichloropropane	ND		ug/kg	430	1
1,2-Dibromoethane	ND		ug/kg	350	1
1,3-Dichloropropane	ND		ug/kg	430	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	87	1
Bromobenzene	ND		ug/kg	430	1
n-Butylbenzene	ND		ug/kg	87	1
sec-Butylbenzene	ND		ug/kg	87	1
tert-Butylbenzene	ND		ug/kg	430	1
o-Chlorotoluene	ND		ug/kg	430	1
p-Chlorotoluene	ND		ug/kg	430	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	430	1
Hexachlorobutadiene	ND		ug/kg	430	1
Isopropylbenzene	ND		ug/kg	87	1
p-Isopropyltoluene	ND		ug/kg	87	1
Naphthalene	ND		ug/kg	430	1
n-Propylbenzene	ND		ug/kg	87	1
1,2,3-Trichlorobenzene	ND		ug/kg	430	1
1,2,4-Trichlorobenzene	ND		ug/kg	430	1
1,3,5-Trimethylbenzene	ND		ug/kg	430	1
1,2,4-Trimethylbenzene	ND		ug/kg	430	1
Ethyl ether	ND		ug/kg	430	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712420**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712420-01  
 Client ID: EL-DE1-3-20070828-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/28/07 14:15  
 Date Received: 08/28/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Isopropyl Ether	ND		ug/kg	350	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	350	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	350	1
1,4-Dioxane	ND		ug/kg	43000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	86		70-130

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712420  
**Report Date:** 08/29/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/29/07 10:22  
Analyst: SE

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 01 Batch: WG292277-3				
Methylene chloride	ND		ug/kg	500
1,1-Dichloroethane	ND		ug/kg	75
Chloroform	ND		ug/kg	75
Carbon tetrachloride	ND		ug/kg	50
1,2-Dichloropropane	ND		ug/kg	180
Dibromochloromethane	ND		ug/kg	50
1,1,2-Trichloroethane	ND		ug/kg	75
Tetrachloroethene	ND		ug/kg	50
Chlorobenzene	ND		ug/kg	50
Trichlorofluoromethane	ND		ug/kg	250
1,2-Dichloroethane	ND		ug/kg	50
1,1,1-Trichloroethane	ND		ug/kg	50
Bromodichloromethane	ND		ug/kg	50
trans-1,3-Dichloropropene	ND		ug/kg	50
cis-1,3-Dichloropropene	ND		ug/kg	50
1,1-Dichloropropene	ND		ug/kg	250
Bromoform	ND		ug/kg	200
1,1,2,2-Tetrachloroethane	ND		ug/kg	50
Benzene	ND		ug/kg	50
Toluene	ND		ug/kg	75
Ethylbenzene	ND		ug/kg	50
Chloromethane	ND		ug/kg	250
Bromomethane	ND		ug/kg	100
Vinyl chloride	ND		ug/kg	100
Chloroethane	ND		ug/kg	100
1,1-Dichloroethene	ND		ug/kg	50
trans-1,2-Dichloroethene	ND		ug/kg	75
Trichloroethene	ND		ug/kg	50
1,2-Dichlorobenzene	ND		ug/kg	250
1,3-Dichlorobenzene	ND		ug/kg	250
1,4-Dichlorobenzene	ND		ug/kg	250

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712420  
**Report Date:** 08/29/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/29/07 10:22  
Analyst: SE

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 01 Batch: WG292277-3				
Methyl tert butyl ether	ND		ug/kg	100
p/m-Xylene	ND		ug/kg	100
o-Xylene	ND		ug/kg	100
cis-1,2-Dichloroethene	ND		ug/kg	50
Dibromomethane	ND		ug/kg	500
1,2,3-Trichloropropane	ND		ug/kg	500
Styrene	ND		ug/kg	100
Dichlorodifluoromethane	ND		ug/kg	500
Acetone	ND		ug/kg	500
Carbon disulfide	ND		ug/kg	2500
2-Butanone	ND		ug/kg	500
4-Methyl-2-pentanone	ND		ug/kg	500
2-Hexanone	ND		ug/kg	500
Bromochloromethane	ND		ug/kg	250
Tetrahydrofuran	ND		ug/kg	1000
2,2-Dichloropropane	ND		ug/kg	250
1,2-Dibromoethane	ND		ug/kg	200
1,3-Dichloropropane	ND		ug/kg	250
1,1,1,2-Tetrachloroethane	ND		ug/kg	50
Bromobenzene	ND		ug/kg	250
n-Butylbenzene	ND		ug/kg	50
sec-Butylbenzene	ND		ug/kg	50
tert-Butylbenzene	ND		ug/kg	250
o-Chlorotoluene	ND		ug/kg	250
p-Chlorotoluene	ND		ug/kg	250
1,2-Dibromo-3-chloropropane	ND		ug/kg	250
Hexachlorobutadiene	ND		ug/kg	250
Isopropylbenzene	ND		ug/kg	50
p-Isopropyltoluene	ND		ug/kg	50
Naphthalene	ND		ug/kg	250
n-Propylbenzene	ND		ug/kg	50

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712420  
**Report Date:** 08/29/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/29/07 10:22  
Analyst: SE

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 01 Batch: WG292277-3				
1,2,3-Trichlorobenzene	ND		ug/kg	250
1,2,4-Trichlorobenzene	ND		ug/kg	250
1,3,5-Trimethylbenzene	ND		ug/kg	250
1,2,4-Trimethylbenzene	ND		ug/kg	250
Ethyl ether	ND		ug/kg	250
Isopropyl Ether	ND		ug/kg	200
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200
Tertiary-Amyl Methyl Ether	ND		ug/kg	200
1,4-Dioxane	ND		ug/kg	25000

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	92		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712420

**Report Date:** 08/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 01 Batch: WG292277-1 WG292277-2					
Methylene chloride	93	95	70-130	2	25
1,1-Dichloroethane	104	107	70-130	3	25
Chloroform	104	109	70-130	5	25
Carbon tetrachloride	100	103	70-130	3	25
1,2-Dichloropropane	102	108	70-130	6	25
Dibromochloromethane	99	105	70-130	6	25
1,1,2-Trichloroethane	103	111	70-130	7	25
Tetrachloroethene	115	118	70-130	3	25
Chlorobenzene	109	113	70-130	4	25
Trichlorofluoromethane	101	104	70-130	3	25
1,2-Dichloroethane	102	109	70-130	7	25
1,1,1-Trichloroethane	102	109	70-130	7	25
Bromodichloromethane	101	108	70-130	7	25
trans-1,3-Dichloropropene	95	100	70-130	5	25
cis-1,3-Dichloropropene	94	96	70-130	2	25
1,1-Dichloropropene	107	108	70-130	1	25
Bromoform	94	104	70-130	10	50
1,1,2,2-Tetrachloroethane	95	106	70-130	11	25
Benzene	105	108	70-130	3	25
Toluene	109	112	70-130	3	25
Ethylbenzene	112	117	70-130	4	25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712420

**Report Date:** 08/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 01 Batch: WG292277-1 WG292277-2					
Chloromethane	86	91	70-130	6	50
Bromomethane	111	122	70-130	9	50
Vinyl chloride	95	100	70-130	5	25
Chloroethane	118	121	70-130	3	25
1,1-Dichloroethene	107	112	70-130	5	25
trans-1,2-Dichloroethene	108	110	70-130	2	25
Trichloroethene	106	109	70-130	3	25
1,2-Dichlorobenzene	104	112	70-130	7	25
1,3-Dichlorobenzene	109	116	70-130	6	25
1,4-Dichlorobenzene	108	113	70-130	5	25
Methyl tert butyl ether	74	77	70-130	4	25
p/m-Xylene	114	116	70-130	2	25
o-Xylene	109	111	70-130	2	25
cis-1,2-Dichloroethene	110	113	70-130	3	25
Dibromomethane	101	109	70-130	8	25
1,2,3-Trichloropropane	103	115	70-130	11	25
Styrene	106	109	70-130	3	25
Dichlorodifluoromethane	53	54	70-130	2	50
Acetone	74	78	70-130	5	50
Carbon disulfide	87	90	70-130	3	25
2-Butanone	72	83	70-130	14	50



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712420

**Report Date:** 08/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 01 Batch: WG292277-1 WG292277-2					
4-Methyl-2-pentanone	83	95	70-130	13	50
2-Hexanone	79	90	70-130	13	50
Bromochloromethane	101	107	70-130	6	25
Tetrahydrofuran	74	85	70-130	14	25
2,2-Dichloropropane	63	68	70-130	8	50
1,2-Dibromoethane	106	113	70-130	6	25
1,3-Dichloropropane	108	116	70-130	7	25
1,1,1,2-Tetrachloroethane	111	116	70-130	4	25
Bromobenzene	108	116	70-130	7	25
n-Butylbenzene	88	92	70-130	4	25
sec-Butylbenzene	113	119	70-130	5	25
tert-Butylbenzene	114	120	70-130	5	25
o-Chlorotoluene	109	113	70-130	4	25
p-Chlorotoluene	110	114	70-130	4	25
1,2-Dibromo-3-chloropropane	80	91	70-130	13	50
Hexachlorobutadiene	105	111	70-130	6	25
Isopropylbenzene	121	127	70-130	5	25
p-Isopropyltoluene	119	125	70-130	5	25
Naphthalene	100	108	70-130	8	25
n-Propylbenzene	110	115	70-130	4	25
1,2,3-Trichlorobenzene	104	113	70-130	8	25

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712420

**Report Date:** 08/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 01 Batch: WG292277-1 WG292277-2					
1,2,4-Trichlorobenzene	104	109	70-130	5	25
1,3,5-Trimethylbenzene	111	114	70-130	3	25
1,2,4-Trimethylbenzene	112	115	70-130	3	25
Ethyl ether	106	107	70-130	1	25
Isopropyl Ether	93	95	70-130	2	25
Ethyl-Tert-Butyl-Ether	83	83	70-130	0	25
Tertiary-Amyl Methyl Ether	86	86	70-130	0	25
1,4-Dioxane	90	100	70-130	11	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86	88	70-130
Toluene-d8	95	98	70-130
4-Bromofluorobenzene	95	99	70-130
Dibromofluoromethane	93	94	70-130

# **INORGANICS & MISCELLANEOUS**

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712420  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712420-01  
**Client ID:** EL-DE1-3-20070828-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/28/07 14:15  
**Date Received:** 08/28/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	74		%	0.10	1	-	08/29/07 07:50	30,2540G	DW



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712420

**Report Date:** 08/29/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Associated sample(s): 01 QC Batch ID: WG292232-1 QC Sample: L0712420-01 Client ID: EL-DE1-3-20070828-01					
Solids, Total	74	73	%	1	20

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712420**Project Number:** 0051545**Report Date:** 08/29/07**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information**

Cooler	Custody Seal
A	Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0712420-01A	Vial MeOH preserved	A	N/A	2.8C	Y	Absent	MCP-8260H-04
L0712420-01B	Vial water preserved	A	N/A	2.8C	Y	Absent	MCP-8260H-04
L0712420-01C	Plastic 2oz unpreserved for TS	A	N/A	2.8C	Y	Absent	TS

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712420  
**Report Date:** 08/29/07

## GLOSSARY

### Acronyms

- EPA - Environmental Protection Agency.  
LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.  
LCSD- Laboratory Control Sample Duplicate: Refer to LCS.  
MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.  
MSD - Matrix Spike Sample Duplicate: Refer to MS.  
NA - Not Applicable.  
NI - Not Ignitable.  
NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.  
ND - Not detected at the reported detection limit for the sample.  
RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.  
RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

- A - Spectra identified as "Aldol Condensation Product".  
B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.  
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.  
J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

### Standard Qualifiers

- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712420  
**Report Date:** 08/29/07

## REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

## LIMITATION OF LIABILITIES

Alpha Woods Hole Labs performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.





08290715:52



WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

RAYNHAM, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

# CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 8/29

ALPHA Job #: L0712420

**Project Information**  
 Project Name: NA SOIL EXCAVATION  
 Project Location: RAYTHEON - WAYLAND  
 Project #: 0051545  
 Project Manager: JASON FLATTERY  
 ALPHA Quote #:

**Report Information - Data Deliverables**  
 FAX  
 EMAIL  
 ADEx  Add'l Deliverables

**Billing Information**  
 Same as Client info PO #:

**Client Information**  
 Client: ERM-BOSTON  
 Address: 399 BOSTON ST 6<sup>TH</sup> FLOOR  
BOSTON, MA 02116  
 Phone: (617) 646-7800  
 Fax: (617) 267-6447  
 Email: jason.flattery@erm.com  
 These samples have been previously analyzed by Alpha

**Turn-Around Time**  
 Standard  RUSH (only confirmed if pre-approved!)  
 Date Due: 24-hr Time: 8/29

**Regulatory Requirements/Report Limits**  
 State /Fed Program: MCP Criteria: S-2/GW-1  
 MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

Yes  No Are MCP Analytical Methods Required?  
 Yes  No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

**ANALYSIS**  
VOCs 8260 HIGH  
VOCs 8240 LOW  
TOTAL SOLIDS

**SAMPLE HANDLING**  
 Filtration  
 Done  
 Not needed  
 Lab to do Preservation  
 Lab to do  
 (Please specify below)

**Sample Specific Comments**

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Analysis	Sample Specific Comments	TOTAL # BOTTLES
		Date	Time					
121420.1	EL-DE1-3-20070828-01	8/28/07	14:15	S	JDF	X X X		3
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>ANALYSIS</p> <p>VOCs 8260 HIGH</p> <p>VOCs 8240 LOW</p> <p>TOTAL SOLIDS</p> </div>								

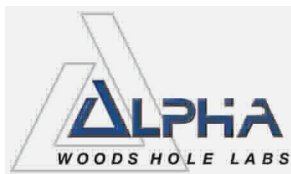
PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT  
 MA MCP or CT RCP?

Container Type: VVP  
 Preservative: ME24 H<sub>2</sub>O None

Relinquished By:	Date/Time	Received By:	Date/Time
		<u>[Signature]</u>	<u>8/29/07</u> <u>1600</u>

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.



## ANALYTICAL REPORT

Lab Number: L0712125

Client: ERM-New England  
399 Boylston Street  
6th Floor  
Boston, MA 02116

ATTN: Jason Flattery

Project Name: NA SOIL EXCAVATION

Project Number: 0051545

Report Date: 08/29/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>
L0712125-01	SP-I1-20070821-01	RAYTHEON WAYLAND
L0712125-02	SP-I2-20070821-01	RAYTHEON WAYLAND
L0712125-03	SP-I3-20070821-01	RAYTHEON WAYLAND
L0712125-04	SP-I4-20070821-01	RAYTHEON WAYLAND
L0712125-05	SP-I5-20070821-01	RAYTHEON WAYLAND
L0712125-06	SP-I6-20070821-01	RAYTHEON WAYLAND
L0712125-07	SP-J1-20070821-01	RAYTHEON WAYLAND
L0712125-08	SP-J2-20070821-01	RAYTHEON WAYLAND
L0712125-09	SP-J3-20070821-01	RAYTHEON WAYLAND
L0712125-10	SP-J4-20070821-01	RAYTHEON WAYLAND
L0712125-11	SP-J5-20070821-01	RAYTHEON WAYLAND
L0712125-12	SP-J6-20070821-01	RAYTHEON WAYLAND
L0712125-13	DUP-001-20070821-01	RAYTHEON WAYLAND

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

<b>An affirmative response to questions A, B, C &amp; D is required for "Presumptive Certainty" status</b>		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A
<b>A response to questions E and F is required for "Presumptive Certainty" status</b>		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	YES
<b>For any questions answered "No", please refer to the case narrative section on the following page(s).</b>		

Please note that sample matrix information is located in the Sample Results section of this report.



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

#### Report Submission

This final report replaces the preliminary report issued August 28, 2007. The report has been amended to include the results for all requested analyses.

At the client's request, all requested TCLP analyses were put on hold.

#### MCP Related Narratives:

##### Volatile Organics

L0712125-01 through -13 were processed against a calibration curve that utilized a quadratic fit for 2,2-Dichloropropane.

In reference to question E:

The WG292028-1,2 LCS,LCSD and the WG292044-1,2 LCS,LCSD % recoveries for Dichlorodifluoromethane and 2,2-Dichloropropane, both difficult analytes, are below the individual acceptance criteria for the compounds, but within the overall method allowances.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Title: Technical Director/Representative

Date: 08/29/07

# ORGANICS

# VOLATILES

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

**Lab ID:** L0712125-01  
**Client ID:** SP-I1-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/27/07 23:47  
**Analyst:** PD  
**Percent Solids:** 76%

**Date Collected:** 08/21/07 11:05  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Methylene chloride	ND		ug/kg	850	1
1,1-Dichloroethane	ND		ug/kg	130	1
Chloroform	ND		ug/kg	130	1
Carbon tetrachloride	ND		ug/kg	85	1
1,2-Dichloropropane	ND		ug/kg	300	1
Dibromochloromethane	ND		ug/kg	85	1
1,1,2-Trichloroethane	ND		ug/kg	130	1
Tetrachloroethene	290		ug/kg	85	1
Chlorobenzene	ND		ug/kg	85	1
Trichlorofluoromethane	ND		ug/kg	430	1
1,2-Dichloroethane	ND		ug/kg	85	1
1,1,1-Trichloroethane	ND		ug/kg	85	1
Bromodichloromethane	ND		ug/kg	85	1
trans-1,3-Dichloropropene	ND		ug/kg	85	1
cis-1,3-Dichloropropene	ND		ug/kg	85	1
1,1-Dichloropropene	ND		ug/kg	430	1
Bromoform	ND		ug/kg	340	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	85	1
Benzene	ND		ug/kg	85	1
Toluene	ND		ug/kg	130	1
Ethylbenzene	ND		ug/kg	85	1
Chloromethane	ND		ug/kg	430	1
Bromomethane	ND		ug/kg	170	1
Vinyl chloride	ND		ug/kg	170	1
Chloroethane	ND		ug/kg	170	1
1,1-Dichloroethene	ND		ug/kg	85	1
trans-1,2-Dichloroethene	ND		ug/kg	130	1
Trichloroethene	910		ug/kg	85	1
1,2-Dichlorobenzene	ND		ug/kg	430	1
1,3-Dichlorobenzene	ND		ug/kg	430	1



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-01  
 Client ID: SP-I1-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:05  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
1,4-Dichlorobenzene	ND		ug/kg	430	1
Methyl tert butyl ether	ND		ug/kg	170	1
p/m-Xylene	ND		ug/kg	170	1
o-Xylene	ND		ug/kg	170	1
cis-1,2-Dichloroethene	180		ug/kg	85	1
Dibromomethane	ND		ug/kg	850	1
1,2,3-Trichloropropane	ND		ug/kg	850	1
Styrene	ND		ug/kg	170	1
Dichlorodifluoromethane	ND		ug/kg	850	1
Acetone	ND		ug/kg	850	1
Carbon disulfide	ND		ug/kg	4300	1
2-Butanone	ND		ug/kg	850	1
4-Methyl-2-pentanone	ND		ug/kg	850	1
2-Hexanone	ND		ug/kg	850	1
Bromochloromethane	ND		ug/kg	430	1
Tetrahydrofuran	ND		ug/kg	1700	1
2,2-Dichloropropane	ND		ug/kg	430	1
1,2-Dibromoethane	ND		ug/kg	340	1
1,3-Dichloropropane	ND		ug/kg	430	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	85	1
Bromobenzene	ND		ug/kg	430	1
n-Butylbenzene	ND		ug/kg	85	1
sec-Butylbenzene	ND		ug/kg	85	1
tert-Butylbenzene	ND		ug/kg	430	1
o-Chlorotoluene	ND		ug/kg	430	1
p-Chlorotoluene	ND		ug/kg	430	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	430	1
Hexachlorobutadiene	ND		ug/kg	430	1
Isopropylbenzene	ND		ug/kg	85	1
p-Isopropyltoluene	ND		ug/kg	85	1
Naphthalene	ND		ug/kg	430	1
n-Propylbenzene	ND		ug/kg	85	1
1,2,3-Trichlorobenzene	ND		ug/kg	430	1
1,2,4-Trichlorobenzene	ND		ug/kg	430	1
1,3,5-Trimethylbenzene	ND		ug/kg	430	1
1,2,4-Trimethylbenzene	ND		ug/kg	430	1
Ethyl ether	ND		ug/kg	430	1



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-01

Date Collected: 08/21/07 11:05

Client ID: SP-I1-20070821-01

Date Received: 08/22/07

Sample Location: RAYTHEON WAYLAND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Isopropyl Ether	ND		ug/kg	340	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	340	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	340	1
1,4-Dioxane	ND		ug/kg	43000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	90		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

**Lab ID:** L0712125-02  
**Client ID:** SP-I2-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/28/07 00:21  
**Analyst:** PD  
**Percent Solids:** 78%

**Date Collected:** 08/21/07 11:10  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Methylene chloride	ND		ug/kg	760	1
1,1-Dichloroethane	ND		ug/kg	110	1
Chloroform	ND		ug/kg	110	1
Carbon tetrachloride	ND		ug/kg	76	1
1,2-Dichloropropane	ND		ug/kg	270	1
Dibromochloromethane	ND		ug/kg	76	1
1,1,2-Trichloroethane	ND		ug/kg	110	1
Tetrachloroethene	ND		ug/kg	76	1
Chlorobenzene	ND		ug/kg	76	1
Trichlorofluoromethane	ND		ug/kg	380	1
1,2-Dichloroethane	ND		ug/kg	76	1
1,1,1-Trichloroethane	ND		ug/kg	76	1
Bromodichloromethane	ND		ug/kg	76	1
trans-1,3-Dichloropropene	ND		ug/kg	76	1
cis-1,3-Dichloropropene	ND		ug/kg	76	1
1,1-Dichloropropene	ND		ug/kg	380	1
Bromoform	ND		ug/kg	310	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	76	1
Benzene	ND		ug/kg	76	1
Toluene	ND		ug/kg	110	1
Ethylbenzene	ND		ug/kg	76	1
Chloromethane	ND		ug/kg	380	1
Bromomethane	ND		ug/kg	150	1
Vinyl chloride	ND		ug/kg	150	1
Chloroethane	ND		ug/kg	150	1
1,1-Dichloroethene	ND		ug/kg	76	1
trans-1,2-Dichloroethene	ND		ug/kg	110	1
Trichloroethene	640		ug/kg	76	1
1,2-Dichlorobenzene	ND		ug/kg	380	1
1,3-Dichlorobenzene	ND		ug/kg	380	1

Project Name: NA SOIL EXCAVATION

Lab Number: L0712125

Project Number: 0051545

Report Date: 08/29/07

## SAMPLE RESULTS

Lab ID: L0712125-02  
 Client ID: SP-I2-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:10  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
1,4-Dichlorobenzene	ND		ug/kg	380	1
Methyl tert butyl ether	ND		ug/kg	150	1
p/m-Xylene	ND		ug/kg	150	1
o-Xylene	ND		ug/kg	150	1
cis-1,2-Dichloroethene	ND		ug/kg	76	1
Dibromomethane	ND		ug/kg	760	1
1,2,3-Trichloropropane	ND		ug/kg	760	1
Styrene	ND		ug/kg	150	1
Dichlorodifluoromethane	ND		ug/kg	760	1
Acetone	ND		ug/kg	760	1
Carbon disulfide	ND		ug/kg	3800	1
2-Butanone	ND		ug/kg	760	1
4-Methyl-2-pentanone	ND		ug/kg	760	1
2-Hexanone	ND		ug/kg	760	1
Bromochloromethane	ND		ug/kg	380	1
Tetrahydrofuran	ND		ug/kg	1500	1
2,2-Dichloropropane	ND		ug/kg	380	1
1,2-Dibromoethane	ND		ug/kg	310	1
1,3-Dichloropropane	ND		ug/kg	380	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	76	1
Bromobenzene	ND		ug/kg	380	1
n-Butylbenzene	ND		ug/kg	76	1
sec-Butylbenzene	ND		ug/kg	76	1
tert-Butylbenzene	ND		ug/kg	380	1
o-Chlorotoluene	ND		ug/kg	380	1
p-Chlorotoluene	ND		ug/kg	380	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	380	1
Hexachlorobutadiene	ND		ug/kg	380	1
Isopropylbenzene	ND		ug/kg	76	1
p-Isopropyltoluene	ND		ug/kg	76	1
Naphthalene	ND		ug/kg	380	1
n-Propylbenzene	ND		ug/kg	76	1
1,2,3-Trichlorobenzene	ND		ug/kg	380	1
1,2,4-Trichlorobenzene	ND		ug/kg	380	1
1,3,5-Trimethylbenzene	ND		ug/kg	380	1
1,2,4-Trimethylbenzene	ND		ug/kg	380	1
Ethyl ether	ND		ug/kg	380	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-02  
 Client ID: SP-I2-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:10  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Isopropyl Ether	ND		ug/kg	310	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	310	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	310	1
1,4-Dioxane	ND		ug/kg	38000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	93		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-03  
 Client ID: SP-I3-20070821-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil  
 Analytical Method: 60,8260B  
 Analytical Date: 08/27/07 18:31  
 Analyst: PD  
 Percent Solids: 74%

Date Collected: 08/21/07 11:15  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	12	1
1,1-Dichloroethane	ND		ug/kg	1.8	1
Chloroform	ND		ug/kg	1.8	1
Carbon tetrachloride	ND		ug/kg	1.2	1
1,2-Dichloropropane	ND		ug/kg	4.3	1
Dibromochloromethane	ND		ug/kg	1.2	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	1
Tetrachloroethene	19		ug/kg	1.2	1
Chlorobenzene	ND		ug/kg	1.2	1
Trichlorofluoromethane	ND		ug/kg	6.1	1
1,2-Dichloroethane	ND		ug/kg	1.2	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	1
Bromodichloromethane	ND		ug/kg	1.2	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	1
1,1-Dichloropropene	ND		ug/kg	6.1	1
Bromoform	ND		ug/kg	4.9	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	1
Benzene	ND		ug/kg	1.2	1
Toluene	ND		ug/kg	1.8	1
Ethylbenzene	ND		ug/kg	1.2	1
Chloromethane	ND		ug/kg	6.1	1
Bromomethane	ND		ug/kg	2.4	1
Vinyl chloride	ND		ug/kg	2.4	1
Chloroethane	ND		ug/kg	2.4	1
1,1-Dichloroethene	ND		ug/kg	1.2	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	1
Trichloroethene	86		ug/kg	1.2	1
1,2-Dichlorobenzene	ND		ug/kg	6.1	1
1,3-Dichlorobenzene	ND		ug/kg	6.1	1

Project Name: NA SOIL EXCAVATION

Lab Number: L0712125

Project Number: 0051545

Report Date: 08/29/07

## SAMPLE RESULTS

Lab ID: L0712125-03  
 Client ID: SP-I3-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:15  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	6.1	1
Methyl tert butyl ether	ND		ug/kg	2.4	1
p/m-Xylene	ND		ug/kg	2.4	1
o-Xylene	ND		ug/kg	2.4	1
cis-1,2-Dichloroethene	8.2		ug/kg	1.2	1
Dibromomethane	ND		ug/kg	12	1
1,2,3-Trichloropropane	ND		ug/kg	12	1
Styrene	ND		ug/kg	2.4	1
Dichlorodifluoromethane	ND		ug/kg	12	1
Acetone	38		ug/kg	12	1
Carbon disulfide	ND		ug/kg	61	1
2-Butanone	ND		ug/kg	12	1
4-Methyl-2-pentanone	ND		ug/kg	12	1
2-Hexanone	ND		ug/kg	12	1
Bromochloromethane	ND		ug/kg	6.1	1
Tetrahydrofuran	ND		ug/kg	24	1
2,2-Dichloropropane	ND		ug/kg	6.1	1
1,2-Dibromoethane	ND		ug/kg	4.9	1
1,3-Dichloropropane	ND		ug/kg	6.1	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	1
Bromobenzene	ND		ug/kg	6.1	1
n-Butylbenzene	ND		ug/kg	1.2	1
sec-Butylbenzene	ND		ug/kg	1.2	1
tert-Butylbenzene	ND		ug/kg	6.1	1
o-Chlorotoluene	ND		ug/kg	6.1	1
p-Chlorotoluene	ND		ug/kg	6.1	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.1	1
Hexachlorobutadiene	ND		ug/kg	6.1	1
Isopropylbenzene	ND		ug/kg	1.2	1
p-Isopropyltoluene	ND		ug/kg	1.2	1
Naphthalene	ND		ug/kg	6.1	1
n-Propylbenzene	ND		ug/kg	1.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.1	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.1	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.1	1
Ethyl ether	ND		ug/kg	6.1	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-03  
 Client ID: SP-I3-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:15  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Isopropyl Ether	ND		ug/kg	4.9	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.9	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.9	1
1,4-Dioxane	ND		ug/kg	610	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-04  
 Client ID: SP-I4-20070821-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil  
 Analytical Method: 60,8260B  
 Analytical Date: 08/27/07 19:07  
 Analyst: PD  
 Percent Solids: 77%

Date Collected: 08/21/07 11:20  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	12	1
1,1-Dichloroethane	ND		ug/kg	1.8	1
Chloroform	ND		ug/kg	1.8	1
Carbon tetrachloride	ND		ug/kg	1.2	1
1,2-Dichloropropane	ND		ug/kg	4.1	1
Dibromochloromethane	ND		ug/kg	1.2	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	1
Tetrachloroethene	10		ug/kg	1.2	1
Chlorobenzene	ND		ug/kg	1.2	1
Trichlorofluoromethane	ND		ug/kg	5.9	1
1,2-Dichloroethane	ND		ug/kg	1.2	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	1
Bromodichloromethane	ND		ug/kg	1.2	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	1
1,1-Dichloropropene	ND		ug/kg	5.9	1
Bromoform	ND		ug/kg	4.7	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	1
Benzene	ND		ug/kg	1.2	1
Toluene	ND		ug/kg	1.8	1
Ethylbenzene	ND		ug/kg	1.2	1
Chloromethane	ND		ug/kg	5.9	1
Bromomethane	ND		ug/kg	2.4	1
Vinyl chloride	ND		ug/kg	2.4	1
Chloroethane	ND		ug/kg	2.4	1
1,1-Dichloroethene	ND		ug/kg	1.2	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	1
Trichloroethene	180		ug/kg	1.2	1
1,2-Dichlorobenzene	ND		ug/kg	5.9	1
1,3-Dichlorobenzene	ND		ug/kg	5.9	1

Project Name: NA SOIL EXCAVATION

Lab Number: L0712125

Project Number: 0051545

Report Date: 08/29/07

## SAMPLE RESULTS

Lab ID: L0712125-04  
 Client ID: SP-I4-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:20  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	5.9	1
Methyl tert butyl ether	ND		ug/kg	2.4	1
p/m-Xylene	ND		ug/kg	2.4	1
o-Xylene	ND		ug/kg	2.4	1
cis-1,2-Dichloroethene	15		ug/kg	1.2	1
Dibromomethane	ND		ug/kg	12	1
1,2,3-Trichloropropane	ND		ug/kg	12	1
Styrene	ND		ug/kg	2.4	1
Dichlorodifluoromethane	ND		ug/kg	12	1
Acetone	62		ug/kg	12	1
Carbon disulfide	ND		ug/kg	59	1
2-Butanone	ND		ug/kg	12	1
4-Methyl-2-pentanone	ND		ug/kg	12	1
2-Hexanone	ND		ug/kg	12	1
Bromochloromethane	ND		ug/kg	5.9	1
Tetrahydrofuran	ND		ug/kg	24	1
2,2-Dichloropropane	ND		ug/kg	5.9	1
1,2-Dibromoethane	ND		ug/kg	4.7	1
1,3-Dichloropropane	ND		ug/kg	5.9	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	1
Bromobenzene	ND		ug/kg	5.9	1
n-Butylbenzene	ND		ug/kg	1.2	1
sec-Butylbenzene	ND		ug/kg	1.2	1
tert-Butylbenzene	ND		ug/kg	5.9	1
o-Chlorotoluene	ND		ug/kg	5.9	1
p-Chlorotoluene	ND		ug/kg	5.9	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.9	1
Hexachlorobutadiene	ND		ug/kg	5.9	1
Isopropylbenzene	ND		ug/kg	1.2	1
p-Isopropyltoluene	ND		ug/kg	1.2	1
Naphthalene	ND		ug/kg	5.9	1
n-Propylbenzene	ND		ug/kg	1.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.9	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.9	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.9	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.9	1
Ethyl ether	ND		ug/kg	5.9	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-04  
 Client ID: SP-I4-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:20  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Isopropyl Ether	ND		ug/kg	4.7	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.7	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.7	1
1,4-Dioxane	ND		ug/kg	590	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	101		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-05  
 Client ID: SP-I5-20070821-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil  
 Analytical Method: 60,8260B  
 Analytical Date: 08/27/07 19:42  
 Analyst: PD  
 Percent Solids: 77%

Date Collected: 08/21/07 11:25  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	11	1
1,1-Dichloroethane	ND		ug/kg	1.6	1
Chloroform	ND		ug/kg	1.6	1
Carbon tetrachloride	ND		ug/kg	1.1	1
1,2-Dichloropropane	ND		ug/kg	3.8	1
Dibromochloromethane	ND		ug/kg	1.1	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	1
Tetrachloroethene	ND		ug/kg	1.1	1
Chlorobenzene	ND		ug/kg	1.1	1
Trichlorofluoromethane	ND		ug/kg	5.4	1
1,2-Dichloroethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	1
Bromodichloromethane	ND		ug/kg	1.1	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	1
1,1-Dichloropropene	ND		ug/kg	5.4	1
Bromoform	ND		ug/kg	4.3	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	1
Benzene	ND		ug/kg	1.1	1
Toluene	ND		ug/kg	1.6	1
Ethylbenzene	ND		ug/kg	1.1	1
Chloromethane	ND		ug/kg	5.4	1
Bromomethane	ND		ug/kg	2.2	1
Vinyl chloride	ND		ug/kg	2.2	1
Chloroethane	ND		ug/kg	2.2	1
1,1-Dichloroethene	ND		ug/kg	1.1	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	1
Trichloroethene	5.6		ug/kg	1.1	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	1

Project Name: NA SOIL EXCAVATION

Lab Number: L0712125

Project Number: 0051545

Report Date: 08/29/07

## SAMPLE RESULTS

Lab ID: L0712125-05  
 Client ID: SP-I5-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:25  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	5.4	1
Methyl tert butyl ether	ND		ug/kg	2.2	1
p/m-Xylene	ND		ug/kg	2.2	1
o-Xylene	ND		ug/kg	2.2	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	1
Dibromomethane	ND		ug/kg	11	1
1,2,3-Trichloropropane	ND		ug/kg	11	1
Styrene	ND		ug/kg	2.2	1
Dichlorodifluoromethane	ND		ug/kg	11	1
Acetone	46		ug/kg	11	1
Carbon disulfide	ND		ug/kg	54	1
2-Butanone	ND		ug/kg	11	1
4-Methyl-2-pentanone	ND		ug/kg	11	1
2-Hexanone	ND		ug/kg	11	1
Bromochloromethane	ND		ug/kg	5.4	1
Tetrahydrofuran	ND		ug/kg	22	1
2,2-Dichloropropane	ND		ug/kg	5.4	1
1,2-Dibromoethane	ND		ug/kg	4.3	1
1,3-Dichloropropane	ND		ug/kg	5.4	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Bromobenzene	ND		ug/kg	5.4	1
n-Butylbenzene	ND		ug/kg	1.1	1
sec-Butylbenzene	ND		ug/kg	1.1	1
tert-Butylbenzene	ND		ug/kg	5.4	1
o-Chlorotoluene	ND		ug/kg	5.4	1
p-Chlorotoluene	ND		ug/kg	5.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	1
Hexachlorobutadiene	ND		ug/kg	5.4	1
Isopropylbenzene	ND		ug/kg	1.1	1
p-Isopropyltoluene	ND		ug/kg	1.1	1
Naphthalene	ND		ug/kg	5.4	1
n-Propylbenzene	ND		ug/kg	1.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	1
Ethyl ether	ND		ug/kg	5.4	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-05  
 Client ID: SP-I5-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:25  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Isopropyl Ether	ND		ug/kg	4.3	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.3	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.3	1
1,4-Dioxane	ND		ug/kg	540	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	94		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

**Lab ID:** L0712125-06  
**Client ID:** SP-I6-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/27/07 20:18  
**Analyst:** PD  
**Percent Solids:** 75%

**Date Collected:** 08/21/07 11:30  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	12	1
1,1-Dichloroethane	ND		ug/kg	1.9	1
Chloroform	ND		ug/kg	1.9	1
Carbon tetrachloride	ND		ug/kg	1.2	1
1,2-Dichloropropane	ND		ug/kg	4.4	1
Dibromochloromethane	ND		ug/kg	1.2	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	1
Tetrachloroethene	20		ug/kg	1.2	1
Chlorobenzene	ND		ug/kg	1.2	1
Trichlorofluoromethane	ND		ug/kg	6.3	1
1,2-Dichloroethane	ND		ug/kg	1.2	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	1
Bromodichloromethane	ND		ug/kg	1.2	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	1
1,1-Dichloropropene	ND		ug/kg	6.3	1
Bromoform	ND		ug/kg	5.0	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	1
Benzene	ND		ug/kg	1.2	1
Toluene	ND		ug/kg	1.9	1
Ethylbenzene	ND		ug/kg	1.2	1
Chloromethane	ND		ug/kg	6.3	1
Bromomethane	ND		ug/kg	2.5	1
Vinyl chloride	ND		ug/kg	2.5	1
Chloroethane	ND		ug/kg	2.5	1
1,1-Dichloroethene	ND		ug/kg	1.2	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	1
Trichloroethene	190		ug/kg	1.2	1
1,2-Dichlorobenzene	ND		ug/kg	6.3	1
1,3-Dichlorobenzene	ND		ug/kg	6.3	1

Project Name: NA SOIL EXCAVATION

Lab Number: L0712125

Project Number: 0051545

Report Date: 08/29/07

## SAMPLE RESULTS

Lab ID: L0712125-06  
 Client ID: SP-I6-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:30  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	6.3	1
Methyl tert butyl ether	ND		ug/kg	2.5	1
p/m-Xylene	ND		ug/kg	2.5	1
o-Xylene	ND		ug/kg	2.5	1
cis-1,2-Dichloroethene	13		ug/kg	1.2	1
Dibromomethane	ND		ug/kg	12	1
1,2,3-Trichloropropane	ND		ug/kg	12	1
Styrene	ND		ug/kg	2.5	1
Dichlorodifluoromethane	ND		ug/kg	12	1
Acetone	ND		ug/kg	12	1
Carbon disulfide	ND		ug/kg	63	1
2-Butanone	ND		ug/kg	12	1
4-Methyl-2-pentanone	ND		ug/kg	12	1
2-Hexanone	ND		ug/kg	12	1
Bromochloromethane	ND		ug/kg	6.3	1
Tetrahydrofuran	ND		ug/kg	25	1
2,2-Dichloropropane	ND		ug/kg	6.3	1
1,2-Dibromoethane	ND		ug/kg	5.0	1
1,3-Dichloropropane	ND		ug/kg	6.3	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	1
Bromobenzene	ND		ug/kg	6.3	1
n-Butylbenzene	ND		ug/kg	1.2	1
sec-Butylbenzene	ND		ug/kg	1.2	1
tert-Butylbenzene	ND		ug/kg	6.3	1
o-Chlorotoluene	ND		ug/kg	6.3	1
p-Chlorotoluene	ND		ug/kg	6.3	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.3	1
Hexachlorobutadiene	ND		ug/kg	6.3	1
Isopropylbenzene	ND		ug/kg	1.2	1
p-Isopropyltoluene	ND		ug/kg	1.2	1
Naphthalene	ND		ug/kg	6.3	1
n-Propylbenzene	ND		ug/kg	1.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.3	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.3	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.3	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.3	1
Ethyl ether	ND		ug/kg	6.3	1



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-06  
 Client ID: SP-I6-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:30  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Isopropyl Ether	ND		ug/kg	5.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	5.0	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	5.0	1
1,4-Dioxane	ND		ug/kg	630	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	102		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-07  
 Client ID: SP-J1-20070821-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil  
 Analytical Method: 60,8260B  
 Analytical Date: 08/28/07 00:56  
 Analyst: PD  
 Percent Solids: 80%

Date Collected: 08/21/07 11:35  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Methylene chloride	ND		ug/kg	1100	1
1,1-Dichloroethane	ND		ug/kg	160	1
Chloroform	ND		ug/kg	160	1
Carbon tetrachloride	ND		ug/kg	110	1
1,2-Dichloropropane	ND		ug/kg	380	1
Dibromochloromethane	ND		ug/kg	110	1
1,1,2-Trichloroethane	ND		ug/kg	160	1
Tetrachloroethene	ND		ug/kg	110	1
Chlorobenzene	ND		ug/kg	110	1
Trichlorofluoromethane	ND		ug/kg	550	1
1,2-Dichloroethane	ND		ug/kg	110	1
1,1,1-Trichloroethane	ND		ug/kg	110	1
Bromodichloromethane	ND		ug/kg	110	1
trans-1,3-Dichloropropene	ND		ug/kg	110	1
cis-1,3-Dichloropropene	ND		ug/kg	110	1
1,1-Dichloropropene	ND		ug/kg	550	1
Bromoform	ND		ug/kg	440	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	110	1
Benzene	ND		ug/kg	110	1
Toluene	ND		ug/kg	160	1
Ethylbenzene	ND		ug/kg	110	1
Chloromethane	ND		ug/kg	550	1
Bromomethane	ND		ug/kg	220	1
Vinyl chloride	ND		ug/kg	220	1
Chloroethane	ND		ug/kg	220	1
1,1-Dichloroethene	ND		ug/kg	110	1
trans-1,2-Dichloroethene	ND		ug/kg	160	1
Trichloroethene	1400		ug/kg	110	1
1,2-Dichlorobenzene	ND		ug/kg	550	1
1,3-Dichlorobenzene	ND		ug/kg	550	1

Project Name: NA SOIL EXCAVATION

Lab Number: L0712125

Project Number: 0051545

Report Date: 08/29/07

## SAMPLE RESULTS

Lab ID: L0712125-07  
 Client ID: SP-J1-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:35  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
1,4-Dichlorobenzene	ND		ug/kg	550	1
Methyl tert butyl ether	ND		ug/kg	220	1
p/m-Xylene	ND		ug/kg	220	1
o-Xylene	ND		ug/kg	220	1
cis-1,2-Dichloroethene	ND		ug/kg	110	1
Dibromomethane	ND		ug/kg	1100	1
1,2,3-Trichloropropane	ND		ug/kg	1100	1
Styrene	ND		ug/kg	220	1
Dichlorodifluoromethane	ND		ug/kg	1100	1
Acetone	ND		ug/kg	1100	1
Carbon disulfide	ND		ug/kg	5500	1
2-Butanone	ND		ug/kg	1100	1
4-Methyl-2-pentanone	ND		ug/kg	1100	1
2-Hexanone	ND		ug/kg	1100	1
Bromochloromethane	ND		ug/kg	550	1
Tetrahydrofuran	ND		ug/kg	2200	1
2,2-Dichloropropane	ND		ug/kg	550	1
1,2-Dibromoethane	ND		ug/kg	440	1
1,3-Dichloropropane	ND		ug/kg	550	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	110	1
Bromobenzene	ND		ug/kg	550	1
n-Butylbenzene	ND		ug/kg	110	1
sec-Butylbenzene	ND		ug/kg	110	1
tert-Butylbenzene	ND		ug/kg	550	1
o-Chlorotoluene	ND		ug/kg	550	1
p-Chlorotoluene	ND		ug/kg	550	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	550	1
Hexachlorobutadiene	ND		ug/kg	550	1
Isopropylbenzene	ND		ug/kg	110	1
p-Isopropyltoluene	ND		ug/kg	110	1
Naphthalene	ND		ug/kg	550	1
n-Propylbenzene	ND		ug/kg	110	1
1,2,3-Trichlorobenzene	ND		ug/kg	550	1
1,2,4-Trichlorobenzene	ND		ug/kg	550	1
1,3,5-Trimethylbenzene	ND		ug/kg	550	1
1,2,4-Trimethylbenzene	ND		ug/kg	550	1
Ethyl ether	ND		ug/kg	550	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-07  
 Client ID: SP-J1-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:35  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Isopropyl Ether	ND		ug/kg	440	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	440	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	440	1
1,4-Dioxane	ND		ug/kg	55000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	89		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

**Lab ID:** L0712125-08  
**Client ID:** SP-J2-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/28/07 01:31  
**Analyst:** PD  
**Percent Solids:** 81%

**Date Collected:** 08/21/07 11:40  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Methylene chloride	ND		ug/kg	710	1
1,1-Dichloroethane	ND		ug/kg	110	1
Chloroform	ND		ug/kg	110	1
Carbon tetrachloride	ND		ug/kg	71	1
1,2-Dichloropropane	ND		ug/kg	250	1
Dibromochloromethane	ND		ug/kg	71	1
1,1,2-Trichloroethane	ND		ug/kg	110	1
Tetrachloroethene	ND		ug/kg	71	1
Chlorobenzene	ND		ug/kg	71	1
Trichlorofluoromethane	ND		ug/kg	360	1
1,2-Dichloroethane	ND		ug/kg	71	1
1,1,1-Trichloroethane	ND		ug/kg	71	1
Bromodichloromethane	ND		ug/kg	71	1
trans-1,3-Dichloropropene	ND		ug/kg	71	1
cis-1,3-Dichloropropene	ND		ug/kg	71	1
1,1-Dichloropropene	ND		ug/kg	360	1
Bromoform	ND		ug/kg	280	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	71	1
Benzene	ND		ug/kg	71	1
Toluene	ND		ug/kg	110	1
Ethylbenzene	ND		ug/kg	71	1
Chloromethane	ND		ug/kg	360	1
Bromomethane	ND		ug/kg	140	1
Vinyl chloride	ND		ug/kg	140	1
Chloroethane	ND		ug/kg	140	1
1,1-Dichloroethene	ND		ug/kg	71	1
trans-1,2-Dichloroethene	ND		ug/kg	110	1
Trichloroethene	680		ug/kg	71	1
1,2-Dichlorobenzene	ND		ug/kg	360	1
1,3-Dichlorobenzene	ND		ug/kg	360	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-08  
 Client ID: SP-J2-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:40  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
1,4-Dichlorobenzene	ND		ug/kg	360	1
Methyl tert butyl ether	ND		ug/kg	140	1
p/m-Xylene	ND		ug/kg	140	1
o-Xylene	ND		ug/kg	140	1
cis-1,2-Dichloroethene	ND		ug/kg	71	1
Dibromomethane	ND		ug/kg	710	1
1,2,3-Trichloropropane	ND		ug/kg	710	1
Styrene	ND		ug/kg	140	1
Dichlorodifluoromethane	ND		ug/kg	710	1
Acetone	ND		ug/kg	710	1
Carbon disulfide	ND		ug/kg	3600	1
2-Butanone	ND		ug/kg	710	1
4-Methyl-2-pentanone	ND		ug/kg	710	1
2-Hexanone	ND		ug/kg	710	1
Bromochloromethane	ND		ug/kg	360	1
Tetrahydrofuran	ND		ug/kg	1400	1
2,2-Dichloropropane	ND		ug/kg	360	1
1,2-Dibromoethane	ND		ug/kg	280	1
1,3-Dichloropropane	ND		ug/kg	360	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	71	1
Bromobenzene	ND		ug/kg	360	1
n-Butylbenzene	ND		ug/kg	71	1
sec-Butylbenzene	ND		ug/kg	71	1
tert-Butylbenzene	ND		ug/kg	360	1
o-Chlorotoluene	ND		ug/kg	360	1
p-Chlorotoluene	ND		ug/kg	360	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	360	1
Hexachlorobutadiene	ND		ug/kg	360	1
Isopropylbenzene	ND		ug/kg	71	1
p-Isopropyltoluene	ND		ug/kg	71	1
Naphthalene	ND		ug/kg	360	1
n-Propylbenzene	ND		ug/kg	71	1
1,2,3-Trichlorobenzene	ND		ug/kg	360	1
1,2,4-Trichlorobenzene	ND		ug/kg	360	1
1,3,5-Trimethylbenzene	ND		ug/kg	360	1
1,2,4-Trimethylbenzene	ND		ug/kg	360	1
Ethyl ether	ND		ug/kg	360	1



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-08  
 Client ID: SP-J2-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:40  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Isopropyl Ether	ND		ug/kg	280	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	280	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	280	1
1,4-Dioxane	ND		ug/kg	36000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	93		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-09  
 Client ID: SP-J3-20070821-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil  
 Analytical Method: 60,8260B  
 Analytical Date: 08/28/07 02:06  
 Analyst: PD  
 Percent Solids: 82%

Date Collected: 08/21/07 11:45  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Methylene chloride	ND		ug/kg	760	1
1,1-Dichloroethane	ND		ug/kg	110	1
Chloroform	ND		ug/kg	110	1
Carbon tetrachloride	ND		ug/kg	76	1
1,2-Dichloropropane	ND		ug/kg	270	1
Dibromochloromethane	ND		ug/kg	76	1
1,1,2-Trichloroethane	ND		ug/kg	110	1
Tetrachloroethene	ND		ug/kg	76	1
Chlorobenzene	ND		ug/kg	76	1
Trichlorofluoromethane	ND		ug/kg	380	1
1,2-Dichloroethane	ND		ug/kg	76	1
1,1,1-Trichloroethane	ND		ug/kg	76	1
Bromodichloromethane	ND		ug/kg	76	1
trans-1,3-Dichloropropene	ND		ug/kg	76	1
cis-1,3-Dichloropropene	ND		ug/kg	76	1
1,1-Dichloropropene	ND		ug/kg	380	1
Bromoform	ND		ug/kg	300	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	76	1
Benzene	ND		ug/kg	76	1
Toluene	ND		ug/kg	110	1
Ethylbenzene	ND		ug/kg	76	1
Chloromethane	ND		ug/kg	380	1
Bromomethane	ND		ug/kg	150	1
Vinyl chloride	ND		ug/kg	150	1
Chloroethane	ND		ug/kg	150	1
1,1-Dichloroethene	ND		ug/kg	76	1
trans-1,2-Dichloroethene	ND		ug/kg	110	1
Trichloroethene	890		ug/kg	76	1
1,2-Dichlorobenzene	ND		ug/kg	380	1
1,3-Dichlorobenzene	ND		ug/kg	380	1



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-09  
 Client ID: SP-J3-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:45  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
1,4-Dichlorobenzene	ND		ug/kg	380	1
Methyl tert butyl ether	ND		ug/kg	150	1
p/m-Xylene	ND		ug/kg	150	1
o-Xylene	ND		ug/kg	150	1
cis-1,2-Dichloroethene	ND		ug/kg	76	1
Dibromomethane	ND		ug/kg	760	1
1,2,3-Trichloropropane	ND		ug/kg	760	1
Styrene	ND		ug/kg	150	1
Dichlorodifluoromethane	ND		ug/kg	760	1
Acetone	ND		ug/kg	760	1
Carbon disulfide	ND		ug/kg	3800	1
2-Butanone	ND		ug/kg	760	1
4-Methyl-2-pentanone	ND		ug/kg	760	1
2-Hexanone	ND		ug/kg	760	1
Bromochloromethane	ND		ug/kg	380	1
Tetrahydrofuran	ND		ug/kg	1500	1
2,2-Dichloropropane	ND		ug/kg	380	1
1,2-Dibromoethane	ND		ug/kg	300	1
1,3-Dichloropropane	ND		ug/kg	380	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	76	1
Bromobenzene	ND		ug/kg	380	1
n-Butylbenzene	ND		ug/kg	76	1
sec-Butylbenzene	ND		ug/kg	76	1
tert-Butylbenzene	ND		ug/kg	380	1
o-Chlorotoluene	ND		ug/kg	380	1
p-Chlorotoluene	ND		ug/kg	380	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	380	1
Hexachlorobutadiene	ND		ug/kg	380	1
Isopropylbenzene	ND		ug/kg	76	1
p-Isopropyltoluene	ND		ug/kg	76	1
Naphthalene	ND		ug/kg	380	1
n-Propylbenzene	ND		ug/kg	76	1
1,2,3-Trichlorobenzene	ND		ug/kg	380	1
1,2,4-Trichlorobenzene	ND		ug/kg	380	1
1,3,5-Trimethylbenzene	ND		ug/kg	380	1
1,2,4-Trimethylbenzene	ND		ug/kg	380	1
Ethyl ether	ND		ug/kg	380	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-09  
 Client ID: SP-J3-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:45  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Isopropyl Ether	ND		ug/kg	300	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	300	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	300	1
1,4-Dioxane	ND		ug/kg	38000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	92		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

**Lab ID:** L0712125-10  
**Client ID:** SP-J4-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/28/07 02:40  
**Analyst:** PD  
**Percent Solids:** 75%

**Date Collected:** 08/21/07 11:50  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Methylene chloride	ND		ug/kg	820	1
1,1-Dichloroethane	ND		ug/kg	120	1
Chloroform	ND		ug/kg	120	1
Carbon tetrachloride	ND		ug/kg	82	1
1,2-Dichloropropane	ND		ug/kg	290	1
Dibromochloromethane	ND		ug/kg	82	1
1,1,2-Trichloroethane	ND		ug/kg	120	1
Tetrachloroethene	96		ug/kg	82	1
Chlorobenzene	ND		ug/kg	82	1
Trichlorofluoromethane	ND		ug/kg	410	1
1,2-Dichloroethane	ND		ug/kg	82	1
1,1,1-Trichloroethane	ND		ug/kg	82	1
Bromodichloromethane	ND		ug/kg	82	1
trans-1,3-Dichloropropene	ND		ug/kg	82	1
cis-1,3-Dichloropropene	ND		ug/kg	82	1
1,1-Dichloropropene	ND		ug/kg	410	1
Bromoform	ND		ug/kg	330	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	82	1
Benzene	ND		ug/kg	82	1
Toluene	ND		ug/kg	120	1
Ethylbenzene	ND		ug/kg	82	1
Chloromethane	ND		ug/kg	410	1
Bromomethane	ND		ug/kg	160	1
Vinyl chloride	ND		ug/kg	160	1
Chloroethane	ND		ug/kg	160	1
1,1-Dichloroethene	ND		ug/kg	82	1
trans-1,2-Dichloroethene	ND		ug/kg	120	1
Trichloroethene	1600		ug/kg	82	1
1,2-Dichlorobenzene	ND		ug/kg	410	1
1,3-Dichlorobenzene	ND		ug/kg	410	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-10  
 Client ID: SP-J4-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:50  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
1,4-Dichlorobenzene	ND		ug/kg	410	1
Methyl tert butyl ether	ND		ug/kg	160	1
p/m-Xylene	ND		ug/kg	160	1
o-Xylene	ND		ug/kg	160	1
cis-1,2-Dichloroethene	ND		ug/kg	82	1
Dibromomethane	ND		ug/kg	820	1
1,2,3-Trichloropropane	ND		ug/kg	820	1
Styrene	ND		ug/kg	160	1
Dichlorodifluoromethane	ND		ug/kg	820	1
Acetone	ND		ug/kg	820	1
Carbon disulfide	ND		ug/kg	4100	1
2-Butanone	ND		ug/kg	820	1
4-Methyl-2-pentanone	ND		ug/kg	820	1
2-Hexanone	ND		ug/kg	820	1
Bromochloromethane	ND		ug/kg	410	1
Tetrahydrofuran	ND		ug/kg	1600	1
2,2-Dichloropropane	ND		ug/kg	410	1
1,2-Dibromoethane	ND		ug/kg	330	1
1,3-Dichloropropane	ND		ug/kg	410	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	82	1
Bromobenzene	ND		ug/kg	410	1
n-Butylbenzene	ND		ug/kg	82	1
sec-Butylbenzene	ND		ug/kg	82	1
tert-Butylbenzene	ND		ug/kg	410	1
o-Chlorotoluene	ND		ug/kg	410	1
p-Chlorotoluene	ND		ug/kg	410	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	410	1
Hexachlorobutadiene	ND		ug/kg	410	1
Isopropylbenzene	ND		ug/kg	82	1
p-Isopropyltoluene	ND		ug/kg	82	1
Naphthalene	ND		ug/kg	410	1
n-Propylbenzene	ND		ug/kg	82	1
1,2,3-Trichlorobenzene	ND		ug/kg	410	1
1,2,4-Trichlorobenzene	ND		ug/kg	410	1
1,3,5-Trimethylbenzene	ND		ug/kg	410	1
1,2,4-Trimethylbenzene	ND		ug/kg	410	1
Ethyl ether	ND		ug/kg	410	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-10  
 Client ID: SP-J4-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:50  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Isopropyl Ether	ND		ug/kg	330	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	330	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	330	1
1,4-Dioxane	ND		ug/kg	41000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	91		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

**Lab ID:** L0712125-11  
**Client ID:** SP-J5-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Anaytical Method:** 60,8260B  
**Analytical Date:** 08/27/07 20:52  
**Analyst:** PD  
**Percent Solids:** 79%

**Date Collected:** 08/21/07 11:55  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Methylene chloride	ND		ug/kg	12	1
1,1-Dichloroethane	ND		ug/kg	1.8	1
Chloroform	ND		ug/kg	1.8	1
Carbon tetrachloride	ND		ug/kg	1.2	1
1,2-Dichloropropane	ND		ug/kg	4.1	1
Dibromochloromethane	ND		ug/kg	1.2	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	1
Tetrachloroethene	1.6		ug/kg	1.2	1
Chlorobenzene	ND		ug/kg	1.2	1
Trichlorofluoromethane	ND		ug/kg	5.9	1
1,2-Dichloroethane	ND		ug/kg	1.2	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	1
Bromodichloromethane	ND		ug/kg	1.2	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	1
1,1-Dichloropropene	ND		ug/kg	5.9	1
Bromoform	ND		ug/kg	4.7	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	1
Benzene	ND		ug/kg	1.2	1
Toluene	ND		ug/kg	1.8	1
Ethylbenzene	ND		ug/kg	1.2	1
Chloromethane	ND		ug/kg	5.9	1
Bromomethane	ND		ug/kg	2.3	1
Vinyl chloride	ND		ug/kg	2.3	1
Chloroethane	ND		ug/kg	2.3	1
1,1-Dichloroethene	ND		ug/kg	1.2	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	1
Trichloroethene	29		ug/kg	1.2	1
1,2-Dichlorobenzene	ND		ug/kg	5.9	1
1,3-Dichlorobenzene	ND		ug/kg	5.9	1

Project Name: NA SOIL EXCAVATION

Lab Number: L0712125

Project Number: 0051545

Report Date: 08/29/07

## SAMPLE RESULTS

Lab ID: L0712125-11  
 Client ID: SP-J5-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:55  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
1,4-Dichlorobenzene	ND		ug/kg	5.9	1
Methyl tert butyl ether	ND		ug/kg	2.3	1
p/m-Xylene	ND		ug/kg	2.3	1
o-Xylene	ND		ug/kg	2.3	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	1
Dibromomethane	ND		ug/kg	12	1
1,2,3-Trichloropropane	ND		ug/kg	12	1
Styrene	ND		ug/kg	2.3	1
Dichlorodifluoromethane	ND		ug/kg	12	1
Acetone	ND		ug/kg	12	1
Carbon disulfide	ND		ug/kg	59	1
2-Butanone	ND		ug/kg	12	1
4-Methyl-2-pentanone	ND		ug/kg	12	1
2-Hexanone	ND		ug/kg	12	1
Bromochloromethane	ND		ug/kg	5.9	1
Tetrahydrofuran	ND		ug/kg	23	1
2,2-Dichloropropane	ND		ug/kg	5.9	1
1,2-Dibromoethane	ND		ug/kg	4.7	1
1,3-Dichloropropane	ND		ug/kg	5.9	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	1
Bromobenzene	ND		ug/kg	5.9	1
n-Butylbenzene	ND		ug/kg	1.2	1
sec-Butylbenzene	ND		ug/kg	1.2	1
tert-Butylbenzene	ND		ug/kg	5.9	1
o-Chlorotoluene	ND		ug/kg	5.9	1
p-Chlorotoluene	ND		ug/kg	5.9	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.9	1
Hexachlorobutadiene	ND		ug/kg	5.9	1
Isopropylbenzene	ND		ug/kg	1.2	1
p-Isopropyltoluene	ND		ug/kg	1.2	1
Naphthalene	ND		ug/kg	5.9	1
n-Propylbenzene	ND		ug/kg	1.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.9	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.9	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.9	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.9	1
Ethyl ether	ND		ug/kg	5.9	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-11  
 Client ID: SP-J5-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 11:55  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-Low</b>					
Isopropyl Ether	ND		ug/kg	4.7	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.7	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.7	1
1,4-Dioxane	ND		ug/kg	590	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	97		70-130



**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

**Lab ID:** L0712125-12  
**Client ID:** SP-J6-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Analytical Method:** 60,8260B  
**Analytical Date:** 08/28/07 03:16  
**Analyst:** PD  
**Percent Solids:** 76%

**Date Collected:** 08/21/07 12:00  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Methylene chloride	ND		ug/kg	800	1
1,1-Dichloroethane	ND		ug/kg	120	1
Chloroform	ND		ug/kg	120	1
Carbon tetrachloride	ND		ug/kg	80	1
1,2-Dichloropropane	ND		ug/kg	280	1
Dibromochloromethane	ND		ug/kg	80	1
1,1,2-Trichloroethane	ND		ug/kg	120	1
Tetrachloroethene	110		ug/kg	80	1
Chlorobenzene	ND		ug/kg	80	1
Trichlorofluoromethane	ND		ug/kg	400	1
1,2-Dichloroethane	ND		ug/kg	80	1
1,1,1-Trichloroethane	ND		ug/kg	80	1
Bromodichloromethane	ND		ug/kg	80	1
trans-1,3-Dichloropropene	ND		ug/kg	80	1
cis-1,3-Dichloropropene	ND		ug/kg	80	1
1,1-Dichloropropene	ND		ug/kg	400	1
Bromoform	ND		ug/kg	320	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	80	1
Benzene	ND		ug/kg	80	1
Toluene	ND		ug/kg	120	1
Ethylbenzene	ND		ug/kg	80	1
Chloromethane	ND		ug/kg	400	1
Bromomethane	ND		ug/kg	160	1
Vinyl chloride	ND		ug/kg	160	1
Chloroethane	ND		ug/kg	160	1
1,1-Dichloroethene	ND		ug/kg	80	1
trans-1,2-Dichloroethene	ND		ug/kg	120	1
Trichloroethene	1100		ug/kg	80	1
1,2-Dichlorobenzene	ND		ug/kg	400	1
1,3-Dichlorobenzene	ND		ug/kg	400	1

Project Name: NA SOIL EXCAVATION

Lab Number: L0712125

Project Number: 0051545

Report Date: 08/29/07

## SAMPLE RESULTS

Lab ID: L0712125-12  
 Client ID: SP-J6-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 12:00  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
1,4-Dichlorobenzene	ND		ug/kg	400	1
Methyl tert butyl ether	ND		ug/kg	160	1
p/m-Xylene	ND		ug/kg	160	1
o-Xylene	ND		ug/kg	160	1
cis-1,2-Dichloroethene	ND		ug/kg	80	1
Dibromomethane	ND		ug/kg	800	1
1,2,3-Trichloropropane	ND		ug/kg	800	1
Styrene	ND		ug/kg	160	1
Dichlorodifluoromethane	ND		ug/kg	800	1
Acetone	ND		ug/kg	800	1
Carbon disulfide	ND		ug/kg	4000	1
2-Butanone	ND		ug/kg	800	1
4-Methyl-2-pentanone	ND		ug/kg	800	1
2-Hexanone	ND		ug/kg	800	1
Bromochloromethane	ND		ug/kg	400	1
Tetrahydrofuran	ND		ug/kg	1600	1
2,2-Dichloropropane	ND		ug/kg	400	1
1,2-Dibromoethane	ND		ug/kg	320	1
1,3-Dichloropropane	ND		ug/kg	400	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	80	1
Bromobenzene	ND		ug/kg	400	1
n-Butylbenzene	ND		ug/kg	80	1
sec-Butylbenzene	ND		ug/kg	80	1
tert-Butylbenzene	ND		ug/kg	400	1
o-Chlorotoluene	ND		ug/kg	400	1
p-Chlorotoluene	ND		ug/kg	400	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	400	1
Hexachlorobutadiene	ND		ug/kg	400	1
Isopropylbenzene	ND		ug/kg	80	1
p-Isopropyltoluene	ND		ug/kg	80	1
Naphthalene	ND		ug/kg	400	1
n-Propylbenzene	ND		ug/kg	80	1
1,2,3-Trichlorobenzene	ND		ug/kg	400	1
1,2,4-Trichlorobenzene	ND		ug/kg	400	1
1,3,5-Trimethylbenzene	ND		ug/kg	400	1
1,2,4-Trimethylbenzene	ND		ug/kg	400	1
Ethyl ether	ND		ug/kg	400	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-12  
 Client ID: SP-J6-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 12:00  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Isopropyl Ether	ND		ug/kg	320	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	320	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	320	1
1,4-Dioxane	ND		ug/kg	40000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	95		70-130

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

**Lab ID:** L0712125-13  
**Client ID:** DUP-001-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil  
**Analytical Method:** 60,8260B  
**Analytical Date:** 08/28/07 03:50  
**Analyst:** PD  
**Percent Solids:** 79%

**Date Collected:** 08/21/07 00:00  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Methylene chloride	ND		ug/kg	650	1
1,1-Dichloroethane	ND		ug/kg	98	1
Chloroform	ND		ug/kg	98	1
Carbon tetrachloride	ND		ug/kg	65	1
1,2-Dichloropropane	ND		ug/kg	230	1
Dibromochloromethane	ND		ug/kg	65	1
1,1,2-Trichloroethane	ND		ug/kg	98	1
Tetrachloroethene	90		ug/kg	65	1
Chlorobenzene	ND		ug/kg	65	1
Trichlorofluoromethane	ND		ug/kg	330	1
1,2-Dichloroethane	ND		ug/kg	65	1
1,1,1-Trichloroethane	ND		ug/kg	65	1
Bromodichloromethane	ND		ug/kg	65	1
trans-1,3-Dichloropropene	ND		ug/kg	65	1
cis-1,3-Dichloropropene	ND		ug/kg	65	1
1,1-Dichloropropene	ND		ug/kg	330	1
Bromoform	ND		ug/kg	260	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	65	1
Benzene	ND		ug/kg	65	1
Toluene	ND		ug/kg	98	1
Ethylbenzene	ND		ug/kg	65	1
Chloromethane	ND		ug/kg	330	1
Bromomethane	ND		ug/kg	130	1
Vinyl chloride	ND		ug/kg	130	1
Chloroethane	ND		ug/kg	130	1
1,1-Dichloroethene	ND		ug/kg	65	1
trans-1,2-Dichloroethene	ND		ug/kg	98	1
Trichloroethene	1500		ug/kg	65	1
1,2-Dichlorobenzene	ND		ug/kg	330	1
1,3-Dichlorobenzene	ND		ug/kg	330	1

Project Name: NA SOIL EXCAVATION

Lab Number: L0712125

Project Number: 0051545

Report Date: 08/29/07

## SAMPLE RESULTS

Lab ID: L0712125-13  
 Client ID: DUP-001-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 00:00  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
1,4-Dichlorobenzene	ND		ug/kg	330	1
Methyl tert butyl ether	ND		ug/kg	130	1
p/m-Xylene	ND		ug/kg	130	1
o-Xylene	ND		ug/kg	130	1
cis-1,2-Dichloroethene	ND		ug/kg	65	1
Dibromomethane	ND		ug/kg	650	1
1,2,3-Trichloropropane	ND		ug/kg	650	1
Styrene	ND		ug/kg	130	1
Dichlorodifluoromethane	ND		ug/kg	650	1
Acetone	ND		ug/kg	650	1
Carbon disulfide	ND		ug/kg	3300	1
2-Butanone	ND		ug/kg	650	1
4-Methyl-2-pentanone	ND		ug/kg	650	1
2-Hexanone	ND		ug/kg	650	1
Bromochloromethane	ND		ug/kg	330	1
Tetrahydrofuran	ND		ug/kg	1300	1
2,2-Dichloropropane	ND		ug/kg	330	1
1,2-Dibromoethane	ND		ug/kg	260	1
1,3-Dichloropropane	ND		ug/kg	330	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	65	1
Bromobenzene	ND		ug/kg	330	1
n-Butylbenzene	ND		ug/kg	65	1
sec-Butylbenzene	ND		ug/kg	65	1
tert-Butylbenzene	ND		ug/kg	330	1
o-Chlorotoluene	ND		ug/kg	330	1
p-Chlorotoluene	ND		ug/kg	330	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	330	1
Hexachlorobutadiene	ND		ug/kg	330	1
Isopropylbenzene	ND		ug/kg	65	1
p-Isopropyltoluene	ND		ug/kg	65	1
Naphthalene	ND		ug/kg	330	1
n-Propylbenzene	ND		ug/kg	65	1
1,2,3-Trichlorobenzene	ND		ug/kg	330	1
1,2,4-Trichlorobenzene	ND		ug/kg	330	1
1,3,5-Trimethylbenzene	ND		ug/kg	330	1
1,2,4-Trimethylbenzene	ND		ug/kg	330	1
Ethyl ether	ND		ug/kg	330	1

**Project Name:** NA SOIL EXCAVATION**Lab Number:** L0712125**Project Number:** 0051545**Report Date:** 08/29/07**SAMPLE RESULTS**

Lab ID: L0712125-13  
 Client ID: DUP-001-20070821-01  
 Sample Location: RAYTHEON WAYLAND

Date Collected: 08/21/07 00:00  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B/5035-High</b>					
Isopropyl Ether	ND		ug/kg	260	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	260	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	260	1
1,4-Dioxane	ND		ug/kg	33000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	93		70-130

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/27/07 17:56  
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 03-06,11 Batch: WG292028-3				
Methylene chloride	ND		ug/kg	10
1,1-Dichloroethane	ND		ug/kg	1.5
Chloroform	ND		ug/kg	1.5
Carbon tetrachloride	ND		ug/kg	1.0
1,2-Dichloropropane	ND		ug/kg	3.5
Dibromochloromethane	ND		ug/kg	1.0
1,1,2-Trichloroethane	ND		ug/kg	1.5
Tetrachloroethene	ND		ug/kg	1.0
Chlorobenzene	ND		ug/kg	1.0
Trichlorofluoromethane	ND		ug/kg	5.0
1,2-Dichloroethane	ND		ug/kg	1.0
1,1,1-Trichloroethane	ND		ug/kg	1.0
Bromodichloromethane	ND		ug/kg	1.0
trans-1,3-Dichloropropene	ND		ug/kg	1.0
cis-1,3-Dichloropropene	ND		ug/kg	1.0
1,1-Dichloropropene	ND		ug/kg	5.0
Bromoform	ND		ug/kg	4.0
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0
Benzene	ND		ug/kg	1.0
Toluene	ND		ug/kg	1.5
Ethylbenzene	ND		ug/kg	1.0
Chloromethane	ND		ug/kg	5.0
Bromomethane	ND		ug/kg	2.0
Vinyl chloride	ND		ug/kg	2.0
Chloroethane	ND		ug/kg	2.0
1,1-Dichloroethene	ND		ug/kg	1.0
trans-1,2-Dichloroethene	ND		ug/kg	1.5
Trichloroethene	ND		ug/kg	1.0
1,2-Dichlorobenzene	ND		ug/kg	5.0
1,3-Dichlorobenzene	ND		ug/kg	5.0
1,4-Dichlorobenzene	ND		ug/kg	5.0



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/27/07 17:56  
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 03-06,11 Batch: WG292028-3				
Methyl tert butyl ether	ND		ug/kg	2.0
p/m-Xylene	ND		ug/kg	2.0
o-Xylene	ND		ug/kg	2.0
cis-1,2-Dichloroethene	ND		ug/kg	1.0
Dibromomethane	ND		ug/kg	10
1,2,3-Trichloropropane	ND		ug/kg	10
Styrene	ND		ug/kg	2.0
Dichlorodifluoromethane	ND		ug/kg	10
Acetone	ND		ug/kg	10
Carbon disulfide	ND		ug/kg	50
2-Butanone	ND		ug/kg	10
4-Methyl-2-pentanone	ND		ug/kg	10
2-Hexanone	ND		ug/kg	10
Bromochloromethane	ND		ug/kg	5.0
Tetrahydrofuran	ND		ug/kg	20
2,2-Dichloropropane	ND		ug/kg	5.0
1,2-Dibromoethane	ND		ug/kg	4.0
1,3-Dichloropropane	ND		ug/kg	5.0
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0
Bromobenzene	ND		ug/kg	5.0
n-Butylbenzene	ND		ug/kg	1.0
sec-Butylbenzene	ND		ug/kg	1.0
tert-Butylbenzene	ND		ug/kg	5.0
o-Chlorotoluene	ND		ug/kg	5.0
p-Chlorotoluene	ND		ug/kg	5.0
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0
Hexachlorobutadiene	ND		ug/kg	5.0
Isopropylbenzene	ND		ug/kg	1.0
p-Isopropyltoluene	ND		ug/kg	1.0
Naphthalene	ND		ug/kg	5.0
n-Propylbenzene	ND		ug/kg	1.0





**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/27/07 17:56  
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Low for sample(s): 03-06,11 Batch: WG292028-3				
1,2,3-Trichlorobenzene	ND		ug/kg	5.0
1,2,4-Trichlorobenzene	ND		ug/kg	5.0
1,3,5-Trimethylbenzene	ND		ug/kg	5.0
1,2,4-Trimethylbenzene	ND		ug/kg	5.0
Ethyl ether	ND		ug/kg	5.0
Isopropyl Ether	ND		ug/kg	4.0
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0
1,4-Dioxane	ND		ug/kg	500

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	101		70-130

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/27/07 17:56  
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 01-02,07-10,12-13 Batch: WG292044-3				
Methylene chloride	ND		ug/kg	500
1,1-Dichloroethane	ND		ug/kg	75
Chloroform	ND		ug/kg	75
Carbon tetrachloride	ND		ug/kg	50
1,2-Dichloropropane	ND		ug/kg	180
Dibromochloromethane	ND		ug/kg	50
1,1,2-Trichloroethane	ND		ug/kg	75
Tetrachloroethene	ND		ug/kg	50
Chlorobenzene	ND		ug/kg	50
Trichlorofluoromethane	ND		ug/kg	250
1,2-Dichloroethane	ND		ug/kg	50
1,1,1-Trichloroethane	ND		ug/kg	50
Bromodichloromethane	ND		ug/kg	50
trans-1,3-Dichloropropene	ND		ug/kg	50
cis-1,3-Dichloropropene	ND		ug/kg	50
1,1-Dichloropropene	ND		ug/kg	250
Bromoform	ND		ug/kg	200
1,1,2,2-Tetrachloroethane	ND		ug/kg	50
Benzene	ND		ug/kg	50
Toluene	ND		ug/kg	75
Ethylbenzene	ND		ug/kg	50
Chloromethane	ND		ug/kg	250
Bromomethane	ND		ug/kg	100
Vinyl chloride	ND		ug/kg	100
Chloroethane	ND		ug/kg	100
1,1-Dichloroethene	ND		ug/kg	50
trans-1,2-Dichloroethene	ND		ug/kg	75
Trichloroethene	ND		ug/kg	50
1,2-Dichlorobenzene	ND		ug/kg	250
1,3-Dichlorobenzene	ND		ug/kg	250
1,4-Dichlorobenzene	ND		ug/kg	250



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/27/07 17:56  
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 01-02,07-10,12-13 Batch: WG292044-3				
Methyl tert butyl ether	ND		ug/kg	100
p/m-Xylene	ND		ug/kg	100
o-Xylene	ND		ug/kg	100
cis-1,2-Dichloroethene	ND		ug/kg	50
Dibromomethane	ND		ug/kg	500
1,2,3-Trichloropropane	ND		ug/kg	500
Styrene	ND		ug/kg	100
Dichlorodifluoromethane	ND		ug/kg	500
Acetone	ND		ug/kg	500
Carbon disulfide	ND		ug/kg	2500
2-Butanone	ND		ug/kg	500
4-Methyl-2-pentanone	ND		ug/kg	500
2-Hexanone	ND		ug/kg	500
Bromochloromethane	ND		ug/kg	250
Tetrahydrofuran	ND		ug/kg	1000
2,2-Dichloropropane	ND		ug/kg	250
1,2-Dibromoethane	ND		ug/kg	200
1,3-Dichloropropane	ND		ug/kg	250
1,1,1,2-Tetrachloroethane	ND		ug/kg	50
Bromobenzene	ND		ug/kg	250
n-Butylbenzene	ND		ug/kg	50
sec-Butylbenzene	ND		ug/kg	50
tert-Butylbenzene	ND		ug/kg	250
o-Chlorotoluene	ND		ug/kg	250
p-Chlorotoluene	ND		ug/kg	250
1,2-Dibromo-3-chloropropane	ND		ug/kg	250
Hexachlorobutadiene	ND		ug/kg	250
Isopropylbenzene	ND		ug/kg	50
p-Isopropyltoluene	ND		ug/kg	50
Naphthalene	ND		ug/kg	250
n-Propylbenzene	ND		ug/kg	50



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 60,8260B  
Analytical Date: 08/27/07 17:56  
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-High for sample(s): 01-02,07-10,12-13 Batch: WG292044-3				
1,2,3-Trichlorobenzene	ND		ug/kg	250
1,2,4-Trichlorobenzene	ND		ug/kg	250
1,3,5-Trimethylbenzene	ND		ug/kg	250
1,2,4-Trimethylbenzene	ND		ug/kg	250
Ethyl ether	ND		ug/kg	250
Isopropyl Ether	ND		ug/kg	200
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200
Tertiary-Amyl Methyl Ether	ND		ug/kg	200
1,4-Dioxane	ND		ug/kg	25000

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	101		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Lab Number:** L0712125

**Project Number:** 0051545

**Report Date:** 08/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 03-06,11 Batch: WG292028-1 WG292028-2					
Methylene chloride	76	75	70-130	1	25
1,1-Dichloroethane	98	101	70-130	3	25
Chloroform	104	107	70-130	3	25
Carbon tetrachloride	100	106	70-130	6	25
1,2-Dichloropropane	96	95	70-130	1	25
Dibromochloromethane	96	97	70-130	1	25
1,1,2-Trichloroethane	97	98	70-130	1	25
Tetrachloroethene	106	108	70-130	2	25
Chlorobenzene	98	100	70-130	2	25
Trichlorofluoromethane	110	116	70-130	5	25
1,2-Dichloroethane	106	108	70-130	2	25
1,1,1-Trichloroethane	104	108	70-130	4	25
Bromodichloromethane	102	104	70-130	2	25
trans-1,3-Dichloropropene	88	92	70-130	4	25
cis-1,3-Dichloropropene	85	88	70-130	3	25
1,1-Dichloropropene	100	102	70-130	2	25
Bromoform	93	95	70-130	2	50
1,1,2,2-Tetrachloroethane	92	94	70-130	2	25
Benzene	97	98	70-130	1	25
Toluene	99	99	70-130	0	25
Ethylbenzene	105	106	70-130	1	25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712125

**Report Date:** 08/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 03-06,11 Batch: WG292028-1 WG292028-2					
Chloromethane	89	93	70-130	4	50
Bromomethane	125	125	70-130	0	50
Vinyl chloride	97	98	70-130	1	25
Chloroethane	122	118	70-130	3	25
1,1-Dichloroethene	101	101	70-130	0	25
trans-1,2-Dichloroethene	100	102	70-130	2	25
Trichloroethene	102	104	70-130	2	25
1,2-Dichlorobenzene	97	98	70-130	1	25
1,3-Dichlorobenzene	99	101	70-130	2	25
1,4-Dichlorobenzene	96	99	70-130	3	25
Methyl tert butyl ether	89	86	70-130	3	25
p/m-Xylene	102	105	70-130	3	25
o-Xylene	108	109	70-130	1	25
cis-1,2-Dichloroethene	100	102	70-130	2	25
Dibromomethane	102	101	70-130	1	25
1,2,3-Trichloropropane	103	102	70-130	1	25
Styrene	107	108	70-130	1	25
Dichlorodifluoromethane	56	58	70-130	4	50
Acetone	96	84	70-130	13	50
Carbon disulfide	92	93	70-130	1	25
2-Butanone	90	87	70-130	3	50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712125

**Report Date:** 08/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 03-06,11 Batch: WG292028-1 WG292028-2					
4-Methyl-2-pentanone	99	94	70-130	5	50
2-Hexanone	101	96	70-130	5	50
Bromochloromethane	92	97	70-130	5	25
Tetrahydrofuran	92	86	70-130	7	25
2,2-Dichloropropane	60	66	70-130	10	50
1,2-Dibromoethane	100	100	70-130	0	25
1,3-Dichloropropane	102	102	70-130	0	25
1,1,1,2-Tetrachloroethane	105	106	70-130	1	25
Bromobenzene	100	101	70-130	1	25
n-Butylbenzene	82	83	70-130	1	25
sec-Butylbenzene	105	107	70-130	2	25
tert-Butylbenzene	105	108	70-130	3	25
o-Chlorotoluene	102	105	70-130	3	25
p-Chlorotoluene	102	104	70-130	2	25
1,2-Dibromo-3-chloropropane	81	87	70-130	7	50
Hexachlorobutadiene	97	102	70-130	5	25
Isopropylbenzene	113	112	70-130	1	25
p-Isopropyltoluene	109	111	70-130	2	25
Naphthalene	86	92	70-130	7	25
n-Propylbenzene	102	104	70-130	2	25
1,2,3-Trichlorobenzene	88	95	70-130	8	25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712125

**Report Date:** 08/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Low Associated sample(s): 03-06,11 Batch: WG292028-1 WG292028-2					
1,2,4-Trichlorobenzene	89	95	70-130	7	25
1,3,5-Trimethylbenzene	102	103	70-130	1	25
1,2,4-Trimethylbenzene	104	105	70-130	1	25
Ethyl ether	120	118	70-130	2	25
Isopropyl Ether	104	105	70-130	1	25
Ethyl-Tert-Butyl-Ether	93	94	70-130	1	25
Tertiary-Amyl Methyl Ether	97	96	70-130	1	25
1,4-Dioxane	94	92	70-130	2	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		100		70-130
Toluene-d8	95		97		70-130
4-Bromofluorobenzene	97		98		70-130
Dibromofluoromethane	98		99		70-130



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Lab Number:** L0712125

**Project Number:** 0051545

**Report Date:** 08/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 01-02,07-10,12-13 Batch: WG292044-1 WG292044-2					
Methylene chloride	76	75	70-130	1	25
1,1-Dichloroethane	98	101	70-130	3	25
Chloroform	104	107	70-130	3	25
Carbon tetrachloride	100	106	70-130	6	25
1,2-Dichloropropane	96	95	70-130	1	25
Dibromochloromethane	96	97	70-130	1	25
1,1,2-Trichloroethane	97	98	70-130	1	25
Tetrachloroethene	106	108	70-130	2	25
Chlorobenzene	98	100	70-130	2	25
Trichlorofluoromethane	110	116	70-130	5	25
1,2-Dichloroethane	106	108	70-130	2	25
1,1,1-Trichloroethane	104	108	70-130	4	25
Bromodichloromethane	102	104	70-130	2	25
trans-1,3-Dichloropropene	88	92	70-130	4	25
cis-1,3-Dichloropropene	85	88	70-130	3	25
1,1-Dichloropropene	100	102	70-130	2	25
Bromoform	93	95	70-130	2	50
1,1,2,2-Tetrachloroethane	92	94	70-130	2	25
Benzene	97	98	70-130	1	25
Toluene	99	99	70-130	0	25
Ethylbenzene	105	106	70-130	1	25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Lab Number:** L0712125

**Project Number:** 0051545

**Report Date:** 08/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 01-02,07-10,12-13 Batch: WG292044-1 WG292044-2					
Chloromethane	89	93	70-130	4	50
Bromomethane	125	125	70-130	0	50
Vinyl chloride	97	98	70-130	1	25
Chloroethane	122	118	70-130	3	25
1,1-Dichloroethene	101	101	70-130	0	25
trans-1,2-Dichloroethene	100	102	70-130	2	25
Trichloroethene	102	104	70-130	2	25
1,2-Dichlorobenzene	97	98	70-130	1	25
1,3-Dichlorobenzene	99	101	70-130	2	25
1,4-Dichlorobenzene	96	99	70-130	3	25
Methyl tert butyl ether	89	86	70-130	3	25
p/m-Xylene	102	105	70-130	3	25
o-Xylene	108	109	70-130	1	25
cis-1,2-Dichloroethene	100	102	70-130	2	25
Dibromomethane	102	101	70-130	1	25
1,2,3-Trichloropropane	103	102	70-130	1	25
Styrene	107	108	70-130	1	25
Dichlorodifluoromethane	56	58	70-130	4	50
Acetone	96	84	70-130	13	50
Carbon disulfide	92	93	70-130	1	25
2-Butanone	90	87	70-130	3	50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712125

**Report Date:** 08/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 01-02,07-10,12-13 Batch: WG292044-1 WG292044-2					
4-Methyl-2-pentanone	99	94	70-130	5	50
2-Hexanone	101	96	70-130	5	50
Bromochloromethane	92	97	70-130	5	25
Tetrahydrofuran	92	86	70-130	7	25
2,2-Dichloropropane	60	66	70-130	10	50
1,2-Dibromoethane	100	100	70-130	0	25
1,3-Dichloropropane	102	102	70-130	0	25
1,1,1,2-Tetrachloroethane	105	106	70-130	1	25
Bromobenzene	100	101	70-130	1	25
n-Butylbenzene	82	83	70-130	1	25
sec-Butylbenzene	105	107	70-130	2	25
tert-Butylbenzene	105	108	70-130	3	25
o-Chlorotoluene	102	105	70-130	3	25
p-Chlorotoluene	102	104	70-130	2	25
1,2-Dibromo-3-chloropropane	81	87	70-130	7	50
Hexachlorobutadiene	97	102	70-130	5	25
Isopropylbenzene	113	112	70-130	1	25
p-Isopropyltoluene	109	111	70-130	2	25
Naphthalene	86	92	70-130	7	25
n-Propylbenzene	102	104	70-130	2	25
1,2,3-Trichlorobenzene	88	95	70-130	8	25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Lab Number:** L0712125

**Project Number:** 0051545

**Report Date:** 08/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-High Associated sample(s): 01-02,07-10,12-13 Batch: WG292044-1 WG292044-2					
1,2,4-Trichlorobenzene	89	95	70-130	7	25
1,3,5-Trimethylbenzene	102	103	70-130	1	25
1,2,4-Trimethylbenzene	104	105	70-130	1	25
Ethyl ether	120	118	70-130	2	25
Isopropyl Ether	104	105	70-130	1	25
Ethyl-Tert-Butyl-Ether	93	94	70-130	1	25
Tertiary-Amyl Methyl Ether	97	96	70-130	1	25
1,4-Dioxane	94	92	70-130	2	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		100		70-130
Toluene-d8	95		97		70-130
4-Bromofluorobenzene	97		98		70-130
Dibromofluoromethane	98		99		70-130

# **INORGANICS & MISCELLANEOUS**

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-01  
**Client ID:** SP-I1-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:05  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Wet Sand  
**Particle Size:** Fine  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids				
Ignitability	NI	08/23/07 22:30	1,1030	TH



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-02  
**Client ID:** SP-I2-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:10  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Sand  
**Particle Size:** Fine  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids				
Ignitability	NI	08/23/07 22:30	1,1030	TH



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-03  
**Client ID:** SP-I3-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:15  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Wet Sand  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids				
Ignitability	NI	08/23/07 22:30	1,1030	TH





**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-04  
**Client ID:** SP-I4-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:20  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Wet Sand  
**Particle Size:** Fine  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids				
Ignitability	NI	08/23/07 22:30	1,1030	TH



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-05  
**Client ID:** SP-I5-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:25  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Sand  
**Particle Size:** Fine  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids				
Ignitability	NI	08/23/07 22:30	1,1030	TH



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-06  
**Client ID:** SP-I6-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:30  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Wet Sand  
**Particle Size:** Fine  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids				
Ignitability	NI	08/23/07 22:30	1,1030	TH



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-07  
**Client ID:** SP-J1-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:35  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Wet Sand  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids				
Ignitability	NI	08/23/07 22:30	1,1030	TH



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-08  
**Client ID:** SP-J2-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:40  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Wet Sand  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids				
Ignitability	NI	08/23/07 22:30	1,1030	TH



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-09  
**Client ID:** SP-J3-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:45  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Sand  
**Particle Size:** Fine  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids				
Ignitability	NI	08/23/07 22:30	1,1030	TH



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-10  
**Client ID:** SP-J4-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:50  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Wet Sand  
**Particle Size:** Fine  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids				
Ignitability	NI	08/23/07 22:30	1,1030	TH



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-11  
**Client ID:** SP-J5-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:55  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Sand  
**Particle Size:** Fine  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids				
Ignitability	NI	08/23/07 22:30	1,1030	TH





**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-12  
**Client ID:** SP-J6-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 12:00  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Fine  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids				
Ignitability	NI	08/23/07 22:30	1,1030	TH



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-01  
**Client ID:** SP-I1-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:05  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	76		%	0.10	1	-	08/23/07 15:20	30,2540G	NM
pH	7.5		SU	-	1	-	08/23/07 18:10	1,9045C	LR
Cyanide, Reactive	ND		mg/kg	10	1	-	08/28/07 18:45	1,7.3	TV
Sulfide, Reactive	ND		mg/kg	10	1	-	08/28/07 18:45	1,7.3	TV



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-02  
**Client ID:** SP-I2-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:10  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	78		%	0.10	1	-	08/23/07 15:20	30,2540G	NM
pH	6.4		SU	-	1	-	08/23/07 18:10	1,9045C	LR
Cyanide, Reactive	ND		mg/kg	10	1	-	08/28/07 18:45	1,7.3	TV
Sulfide, Reactive	ND		mg/kg	10	1	-	08/28/07 18:45	1,7.3	TV



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-03  
**Client ID:** SP-I3-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:15  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	74		%	0.10	1	-	08/23/07 15:20	30,2540G	NM
pH	6.4		SU	-	1	-	08/23/07 18:10	1,9045C	LR
Cyanide, Reactive	ND		mg/kg	10	1	-	08/28/07 18:45	1,7.3	TV
Sulfide, Reactive	ND		mg/kg	10	1	-	08/28/07 18:45	1,7.3	TV



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-04  
**Client ID:** SP-I4-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:20  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	77		%	0.10	1	-	08/23/07 15:20	30,2540G	NM
pH	7.1		SU	-	1	-	08/23/07 18:10	1,9045C	LR
Cyanide, Reactive	ND		mg/kg	10	1	-	08/28/07 18:45	1,7.3	TV
Sulfide, Reactive	ND		mg/kg	10	1	-	08/28/07 18:45	1,7.3	TV



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-05  
**Client ID:** SP-I5-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:25  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	77		%	0.10	1	-	08/23/07 15:20	30,2540G	NM
pH	6.1		SU	-	1	-	08/23/07 18:10	1,9045C	LR
Cyanide, Reactive	ND		mg/kg	9.0	.9	-	08/28/07 18:45	1,7.3	TV
Sulfide, Reactive	ND		mg/kg	9.0	.9	-	08/28/07 18:45	1,7.3	TV



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-06  
**Client ID:** SP-I6-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:30  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	75		%	0.10	1	-	08/23/07 15:20	30,2540G	NM
pH	6.8		SU	-	1	-	08/23/07 18:10	1,9045C	LR
Cyanide, Reactive	ND		mg/kg	10	1	-	08/28/07 18:45	1,7.3	TV
Sulfide, Reactive	ND		mg/kg	10	1	-	08/28/07 18:45	1,7.3	TV



Project Name: NA SOIL EXCAVATION

Lab Number: L0712125

Project Number: 0051545

Report Date: 08/29/07

## SAMPLE RESULTS

Lab ID: L0712125-07  
 Client ID: SP-J1-20070821-01  
 Sample Location: RAYTHEON WAYLAND  
 Matrix: Soil

Date Collected: 08/21/07 11:35  
 Date Received: 08/22/07  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	80		%	0.10	1	-	08/23/07 15:20	30,2540G	NM
pH	7.4		SU	-	1	-	08/23/07 18:10	1,9045C	LR
Cyanide, Reactive	ND		mg/kg	10	1	-	08/28/07 18:45	1,7.3	TV
Sulfide, Reactive	ND		mg/kg	10	1	-	08/28/07 18:45	1,7.3	TV





**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-08  
**Client ID:** SP-J2-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:40  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	81		%	0.10	1	-	08/23/07 15:20	30,2540G	NM
pH	5.9		SU	-	1	-	08/23/07 18:10	1,9045C	LR
Cyanide, Reactive	ND		mg/kg	10	1	-	08/28/07 18:45	1,7.3	TV
Sulfide, Reactive	ND		mg/kg	10	1	-	08/28/07 18:45	1,7.3	TV



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-09  
**Client ID:** SP-J3-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:45  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	82		%	0.10	1	-	08/23/07 15:20	30,2540G	NM
pH	6.9		SU	-	1	-	08/23/07 18:10	1,9045C	LR
Cyanide, Reactive	ND		mg/kg	9.0	.9	-	08/28/07 18:45	1,7.3	TV
Sulfide, Reactive	ND		mg/kg	9.0	.9	-	08/28/07 18:45	1,7.3	TV



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-10  
**Client ID:** SP-J4-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:50  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	75		%	0.10	1	-	08/23/07 15:20	30,2540G	NM
pH	6.8		SU	-	1	-	08/23/07 18:10	1,9045C	LR
Cyanide, Reactive	ND		mg/kg	10	1	-	08/28/07 18:45	1,7.3	TV
Sulfide, Reactive	ND		mg/kg	10	1	-	08/28/07 18:45	1,7.3	TV



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-11  
**Client ID:** SP-J5-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 11:55  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	79		%	0.10	1	-	08/23/07 15:20	30,2540G	NM
pH	6.7		SU	-	1	-	08/23/07 18:10	1,9045C	LR
Cyanide, Reactive	ND		mg/kg	10	1	-	08/28/07 18:45	1,7.3	TV
Sulfide, Reactive	ND		mg/kg	10	1	-	08/28/07 18:45	1,7.3	TV



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-12  
**Client ID:** SP-J6-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 12:00  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	76		%	0.10	1	-	08/23/07 15:20	30,2540G	NM
pH	7.1		SU	-	1	-	08/23/07 18:10	1,9045C	LR
Cyanide, Reactive	ND		mg/kg	9.0	.9	-	08/28/07 18:45	1,7.3	TV
Sulfide, Reactive	ND		mg/kg	9.0	.9	-	08/28/07 18:45	1,7.3	TV



**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

### SAMPLE RESULTS

**Lab ID:** L0712125-13  
**Client ID:** DUP-001-20070821-01  
**Sample Location:** RAYTHEON WAYLAND  
**Matrix:** Soil

**Date Collected:** 08/21/07 00:00  
**Date Received:** 08/22/07  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	79		%	0.10	1	-	08/23/07 15:20	30,2540G	NM



Project Name: NA SOIL EXCAVATION

Lab Number: L0712125

Project Number: 0051545

Report Date: 08/29/07

**Method Blank Analysis  
Batch Quality Control**

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry for sample(s): 01-12 Batch: WG292164-1									
Sulfide, Reactive	ND		mg/kg	10	1	-	08/28/07 18:45	1,7.3	TV
General Chemistry for sample(s): 01-12 Batch: WG292166-1									
Cyanide, Reactive	ND		mg/kg	10	1	-	08/28/07 18:45	1,7.3	TV

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712125

**Report Date:** 08/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Associated sample(s): 01-12 Batch: WG291710-1					
pH	100	-		-	
Associated sample(s): 01-12 Batch: WG292164-2					
Sulfide, Reactive	84	-	60-125	-	40
Associated sample(s): 01-12 Batch: WG292166-2					
Cyanide, Reactive	85	-	30-125	-	40



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** NA SOIL EXCAVATION

**Project Number:** 0051545

**Lab Number:** L0712125

**Report Date:** 08/29/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Associated sample(s): 01-13 QC Batch ID: WG291630-1 QC Sample: L0712125-01 Client ID: SP-I1-20070821-01					
Solids, Total	76	76	%	0	20
Associated sample(s): 01-12 QC Batch ID: WG292164-3 QC Sample: L0712232-06 Client ID: DUP Sample					
Sulfide, Reactive	ND	ND	mg/kg	NC	40
Associated sample(s): 01-12 QC Batch ID: WG292166-3 QC Sample: L0712232-06 Client ID: DUP Sample					
Cyanide, Reactive	ND	ND	mg/kg	NC	40

Project Name: NA SOIL EXCAVATION

Lab Number: L0712125

Project Number: 0051545

Report Date: 08/29/07

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

## Cooler Information

Cooler	Custody Seal
A	Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0712125-01A	Plastic 120ml unpreserved	A	N/A	2.0C	Y	Absent	TS
L0712125-01B	Vial MeOH preserved	A	N/A	2.0C	Y	Absent	MCP-8260H-04
L0712125-01C	Vial water preserved	A	N/A	2.0C	Y	Absent	MCP-8260H-04
L0712125-01D	Vial Large unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-01E	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-01F	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	IGNIT-1030,PH-9045,REACTCN,REACTS
L0712125-01G	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-02A	Plastic 120ml unpreserved	A	N/A	2.0C	Y	Absent	TS
L0712125-02B	Vial MeOH preserved	A	N/A	2.0C	Y	Absent	MCP-8260H-04
L0712125-02C	Vial water preserved	A	N/A	2.0C	Y	Absent	MCP-8260H-04
L0712125-02D	Vial Large unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-02E	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-02F	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	IGNIT-1030,PH-9045,REACTCN,REACTS
L0712125-02G	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-03A	Plastic 120ml unpreserved	A	N/A	2.0C	Y	Absent	TS
L0712125-03B	Vial MeOH preserved	A	N/A	2.0C	Y	Absent	MCP-8260LW-04
L0712125-03C	Vial water preserved	A	N/A	2.0C	Y	Absent	MCP-8260LW-04
L0712125-03D	Vial Large unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-03E	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-03F	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	IGNIT-1030,PH-9045,REACTCN,REACTS
L0712125-03G	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-04A	Plastic 120ml unpreserved	A	N/A	2.0C	Y	Absent	TS
L0712125-04B	Vial MeOH preserved	A	N/A	2.0C	Y	Absent	MCP-8260LW-04
L0712125-04C	Vial water preserved	A	N/A	2.0C	Y	Absent	MCP-8260LW-04
L0712125-04D	Vial Large unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-04E	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-04F	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	IGNIT-1030,PH-9045,REACTCN,REACTS
L0712125-04G	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-05A	Plastic 120ml unpreserved	A	N/A	2.0C	Y	Absent	TS

Project Name: NA SOIL EXCAVATION

Project Number: 0051545

Lab Number: L0712125

Report Date: 08/29/07

## Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0712125-05B	Vial MeOH preserved	A	N/A	2.0C	Y	Absent	MCP-8260LW-04
L0712125-05C	Vial water preserved	A	N/A	2.0C	Y	Absent	MCP-8260LW-04
L0712125-05D	Vial Large unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-05E	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-05F	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	IGNIT-1030,PH-9045,REACTCN,REACTS
L0712125-05G	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-06A	Plastic 120ml unpreserved	A	N/A	2.0C	Y	Absent	TS
L0712125-06B	Vial MeOH preserved	A	N/A	2.0C	Y	Absent	MCP-8260LW-04
L0712125-06C	Vial water preserved	A	N/A	2.0C	Y	Absent	MCP-8260LW-04
L0712125-06D	Vial Large unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-06E	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-06F	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	IGNIT-1030,PH-9045,REACTCN,REACTS
L0712125-06G	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-07A	Plastic 120ml unpreserved	A	N/A	2.0C	Y	Absent	TS
L0712125-07B	Vial MeOH preserved	A	N/A	2.0C	Y	Absent	MCP-8260H-04
L0712125-07C	Vial water preserved	A	N/A	2.0C	Y	Absent	MCP-8260H-04
L0712125-07D	Vial Large unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-07E	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-07F	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	IGNIT-1030,PH-9045,REACTCN,REACTS
L0712125-07G	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-08A	Plastic 120ml unpreserved	A	N/A	2.0C	Y	Absent	TS
L0712125-08B	Vial MeOH preserved	A	N/A	2.0C	Y	Absent	MCP-8260H-04
L0712125-08C	Vial water preserved	A	N/A	2.0C	Y	Absent	MCP-8260H-04
L0712125-08D	Vial Large unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-08E	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-08F	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	IGNIT-1030,PH-9045,REACTCN,REACTS
L0712125-08G	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-09A	Plastic 120ml unpreserved	A	N/A	2.0C	Y	Absent	TS
L0712125-09B	Vial MeOH preserved	A	N/A	2.0C	Y	Absent	MCP-8260H-04
L0712125-09C	Vial water preserved	A	N/A	2.0C	Y	Absent	MCP-8260H-04
L0712125-09D	Vial Large unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-09E	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-09F	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	IGNIT-1030,PH-9045,REACTCN,REACTS
L0712125-09G	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP

Project Name: NA SOIL EXCAVATION

Project Number: 0051545

Lab Number: L0712125

Report Date: 08/29/07

## Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0712125-10A	Plastic 120ml unpreserved	A	N/A	2.0C	Y	Absent	TS
L0712125-10B	Vial MeOH preserved	A	N/A	2.0C	Y	Absent	MCP-8260H-04
L0712125-10C	Vial water preserved	A	N/A	2.0C	Y	Absent	MCP-8260H-04
L0712125-10D	Vial Large unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-10E	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-10F	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	IGNIT-1030,PH-9045,REACTCN,REACTS
L0712125-10G	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-11A	Plastic 120ml unpreserved	A	N/A	2.0C	Y	Absent	TS
L0712125-11B	Vial MeOH preserved	A	N/A	2.0C	Y	Absent	MCP-8260LW-04
L0712125-11C	Vial water preserved	A	N/A	2.0C	Y	Absent	MCP-8260LW-04
L0712125-11D	Vial Large unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-11E	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-11F	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	IGNIT-1030,PH-9045,REACTCN,REACTS
L0712125-11G	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-12A	Plastic 120ml unpreserved	A	N/A	2.0C	Y	Absent	TS
L0712125-12B	Vial MeOH preserved	A	N/A	2.0C	Y	Absent	MCP-8260H-04
L0712125-12C	Vial water preserved	A	N/A	2.0C	Y	Absent	MCP-8260H-04
L0712125-12D	Vial Large unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-12E	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-12F	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	IGNIT-1030,PH-9045,REACTCN,REACTS
L0712125-12G	Amber 250ml unpreserved	A	N/A	2.0C	Y	Absent	MCP
L0712125-13A	Plastic 120ml unpreserved	A	N/A	2.0C	Y	Absent	TS
L0712125-13B	Vial MeOH preserved	A	N/A	2.0C	Y	Absent	MCP-8260H-04
L0712125-13C	Vial water preserved	A	N/A	2.0C	Y	Absent	MCP-8260H-04

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

## GLOSSARY

### Acronyms

- EPA - Environmental Protection Agency.  
 LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.  
 LCSD- Laboratory Control Sample Duplicate: Refer to LCS.  
 MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.  
 MSD - Matrix Spike Sample Duplicate: Refer to MS.  
 NA - Not Applicable.  
 NI - Not Ignitable.  
 NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.  
 ND - Not detected at the reported detection limit for the sample.  
 RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.  
 RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

### Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

**Project Name:** NA SOIL EXCAVATION  
**Project Number:** 0051545

**Lab Number:** L0712125  
**Report Date:** 08/29/07

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

## LIMITATION OF LIABILITIES

Alpha Woods Hole Labs performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.





# CHAIN OF CUSTODY

PAGE 1 OF 2Date Rec'd in Lab: 8/22ALPHA Job #: L0712125

WESTBORO, MA RAYNHAM, MA  
 TEL: 508-898-9220 TEL: 508-822-9300  
 FAX: 508-898-9193 FAX: 508-822-3288

**Project Information**

Project Name: NA Soil Excavation  
 Project Location: Raytheon-Wayland  
 Project #: 0051545  
 Project Manager: Jason Flattery  
 ALPHA Quote #:

**Report Information - Data Deliverables**

FAX  EMAIL  
 ADEx  Add'l Deliverables

**Billing Information**

Same as Client info PO #:

**Client Information**

Client: ERM-Boston  
 Address: 399 Baylston St. 6<sup>th</sup> Fl  
Boston, MA 02116  
 Phone: 617 646 7800  
 Fax: 617 267 6447  
 Email: jason.flattery@erm.com  
 These samples have been previously analyzed by Alpha

**Turn-Around Time**

Standard  RUSH (only confirmed if pre-approved!)  
 Date Due: 8/29 Time:

**Regulatory Requirements/Report Limits**

State /Fed Program: MCP Criteria: SP + GW-1

**MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS**

Yes  No Are MCP Analytical Methods Required?  
 Yes  No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS	TCLP VDA	SAMPLE HANDLING
	PLB-STEP SVOC Pert-Meth	
	PHICERAT - Push	
	TCLP AS by CMB/HA/BA	
	VOCs (High) B260	
	VOCs (Low) B260	
	TOTAL SOLIDS	

**SAMPLE HANDLING**  
 Filtration  
 Done  
 Not needed  
 Lab to do  
 Preservation  
 Lab to do  
 (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										Sample Specific Comments	TOTAL # BOTTLES	
		Date	Time			TCLP VDA	PLB-STEP SVOC Pert-Meth	PHICERAT - Push	TCLP AS by CMB/HA/BA	VOCs (High) B260	VOCs (Low) B260	TOTAL SOLIDS						
12125-01	SP-I1-20070821-01	8/21/07	1105	S	HEA													7
2	SP-I2-20070821-01		1110															7
3	SP-I3-20070821-01		1115															7
4	SP-I4-20070821-01		1120															7
5	SP-I5-20070821-01		1125															7
6	SP-I6-20070821-01		1130															7
7	SP-J1-20070821-01		1135															7
8	SP-J2-20070821-01		1140															7
9	SP-J3-20070821-01		1145															7
10	SP-J4-20070821-01		1150															7

PLEASE ANSWER QUESTIONS ABOVE!  
 IS YOUR PROJECT  
 MA MCP or CT RCP?

Container Type	A A A A V V P	Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.	
Preservative	A A A A F H2O A		
Relinquished By:	Date/Time	Received By:	Date/Time
	8/22/07 10:00 8/22 11:20		8/22 11:20 8/22/07 11:20

TOTAL # BOTTLES 7



# CHAIN OF CUSTODY

PAGE 2 OF 2

WESTBORO, MA RAYNHAM, MA  
 TEL: 508-898-9220 TEL: 508-822-9300  
 FAX: 508-898-9193 FAX: 508-822-3288

Date Rec'd in Lab: 8/22ALPHA Job #: LO712125**Project Information**

Project Name: NA Soil Excavation  
 Project Location: Raytheon Wayland  
 Project #: ODS1545  
 Project Manager: Jason Flattery  
 ALPHA Quote #:

**Report Information - Data Deliverables**

FAX  EMAIL  
 ADEX  Add'l Deliverables

**Billing Information**

Same as Client info PO #:

**Client Information**

Client: ERM Boston  
 Address: 399 Boylston St. 6<sup>th</sup> Floor  
Boston, MA 02116  
 Phone: 617 646 7800  
 Fax: 617 267 6447  
 Email: jason.flattery@erm.com  
 These samples have been previously analyzed by Alpha

**Turn-Around Time**

Standard  RUSH (only confirmed if pre-approved!)

Date Due: 8/29 Time:

**Regulatory Requirements/Report Limits**

State /Fed Program: MCP Criteria: SZ + GW-1

**MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS**

Yes  No Are MCP Analytical Methods Required?  
 Yes  No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS	SAMPLE HANDLING										TOTAL # BOTTLES		
	Filtration <input type="checkbox"/> Done <input type="checkbox"/> Not needed <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please specify below)												
TCLP VDA											Sample Specific Comments	7	
DUP, TUR, SOLID, PEST, HAP													7
PH, REACT, PLUMB													
TCLP AR, BALDWIN, ORAG													
VOCs (LOW) 8266													
Total Solids													

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
12125. 11	SP-J5-20070821-01	8/21/07	1155	S	HEA
12	SP-J6-20070821-01	8/21/07	1200	S	HEA
13	DUP-001-20070821-01	8/21/07	2400	S	HEA

PLEASE ANSWER QUESTIONS ABOVE!  
 IS YOUR PROJECT  
 MA MCP or CT RCP?

Container Type	A	A	A	A	V	V	P
Preservative	A	A	A	A	F	H	A

Relinquished By: [Signature] Date/Time: 8/22/07 10:58  
 Received By: [Signature] Date/Time: 8/22/07 11:26

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.