

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General site information. Please provide the following information about the site:

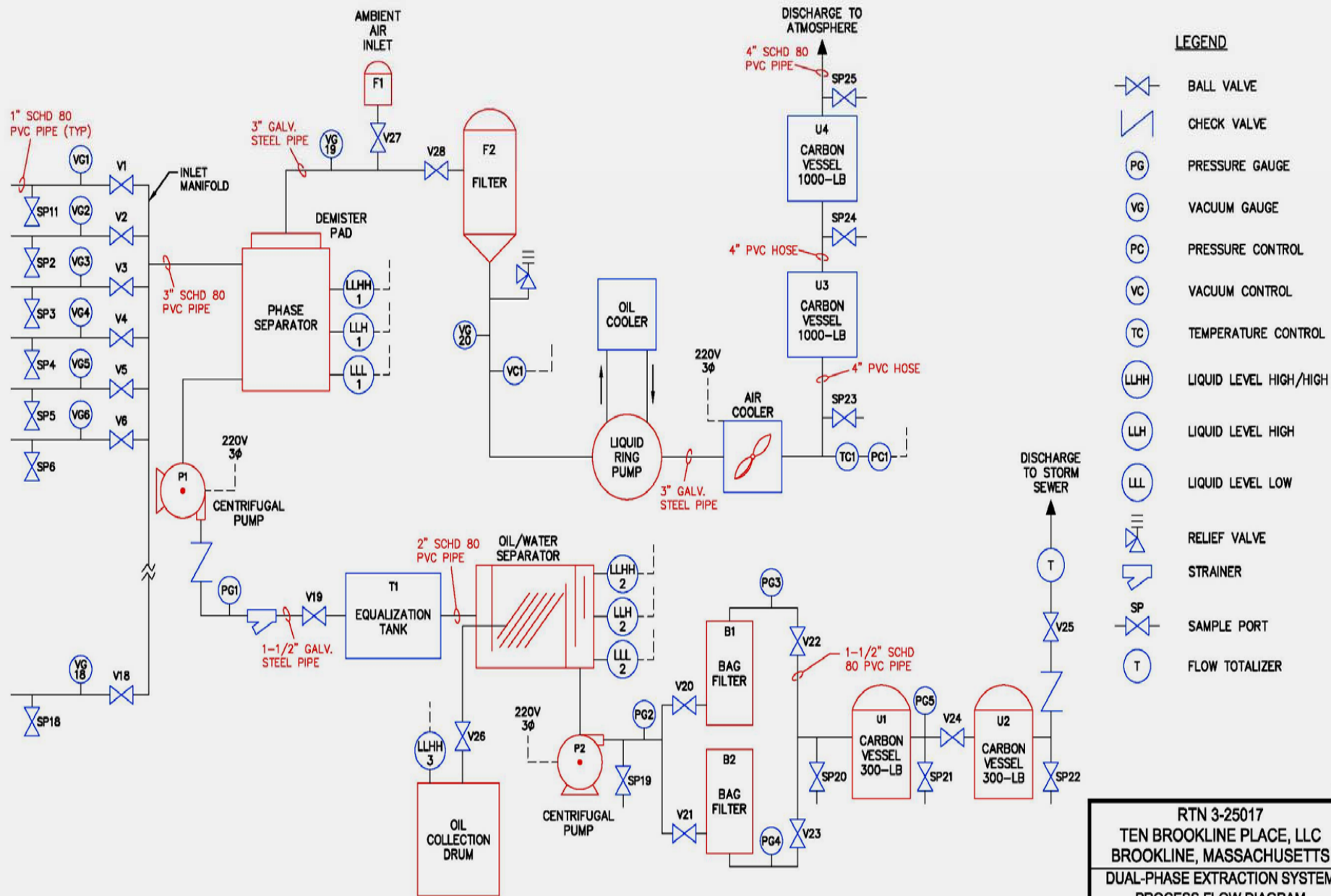
a) Name of facility/site : Ten Brookline Place West		Facility/site address: 10 Brookline Place, Brookline, MA 02445	
Location of facility/site : longitude: <u>42.33</u> latitude: <u>71.11</u>	Facility SIC code(s): 2362	Street: Pearl Street	
b) Name of facility/site owner : Ten Brookline PLace LLC		Town: Brookline	
Email address of owner: dgillies@maricinc.com	State: MA	Zip: 02445	County: Norfolk
Telephone no.of facility/site owner : (781) 559-3400			
Fax no. of facility/site owner : (781) 559-3401	Owner is (check one): 1. Federal____ 2. State/Tribal____ 3. Private ☒ 4. other, if so, describe:		
Address of owner (if different from site):			
Street: 197 First Street			
Town: Needham	State: MA	Zip: 02194	County: Norfolk
c) Legal name of operator : TRC Companies	Operator telephone no: (978) 656-3560		
	Operator fax no.: (978) 453-1995		Operator email: dweiss@trcsolutions.com
Operator contact name and title: Dale Weiss, Project Manager			

Address of operator (if different from owner):		Street: 116 John Street	
Town: Lowell	State: MA	Zip: 01852	County: Middlesex
d) Check "yes" or "no" for the following: 1. Has a prior NPDES permit exclusion been granted for the discharge? Yes___ No ☒ , if "yes," number: 2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes ☒ No___, if "yes," date and tracking #: MAG910185 3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Yes___ No ☒ 4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes ☒ No___			
e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes ☒ No___ If "yes," please list: 1. site identification # assigned by the state of NH or MA: 3-25017 2. permit or license # assigned: 3. state agency contact information: name, location, and telephone number: MADEP, BWSC, Wilmington. MA 978-694-3200		f) Is the site/facility covered by any other EPA permit, including: 1. multi-sector storm water general permit? Y___ N ☒ , if Y, number: 2. phase I or II construction storm water general permit? Y___ N ☒ , if Y, number: 3. individual NPDES permit? Y___ N ☒ , if Y, number: 4. any other water quality related permit? Y___ N ☒ , if Y, number:	

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage: Treated ground water extracted from oil and water recovery wells. Oil is separated from the water and the water is treated, Vapors are also treated and discharged.		
b) Provide the following information about each discharge:	1) Number of discharge points: 1	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft ³ /s)? Max. flow <u>0.07</u> Average flow <u>0.03</u> Is maximum flow a design value ? Y___ N___ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.
3) Latitude and longitude of each discharge within 100 feet: pt.1:long. <u>42.33</u> lat. <u>71.11</u> ; pt.2: long. _____ lat. _____; pt.3: long. _____ lat. _____; pt.4:long. _____ lat. _____; pt.5: long. _____ lat. _____; pt.6:long. _____ lat. _____; pt.7: long. _____ lat. _____; pt.8:long. _____ lat. _____; etc.		

4) If hydrostatic testing, total volume of the discharge (gals):	5) Is the discharge intermittent _____ or seasonal _____? Is discharge ongoing Yes ☒ No _____?
c) Expected dates of discharge (mm/dd/yy): start <u>07/01/06</u> end <u>07/01/08</u>	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).	



NOT TO SCALE

RTN 3-25017 TEN BROOKLINE PLACE, LLC BROOKLINE, MASSACHUSETTS		FIGURE 1
DUAL-PHASE EXTRACTION SYSTEM PROCESS FLOW DIAGRAM		
TRC Booth Mills South 116 John Street Lowell, Massachusetts 01852 (978) 970-5800	DRAWN BY: HWB CHECKED BY: FC	DATE: 04/03/06

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for **all** of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only	VOC Only	Primarily Metals	Urban Fill Sites	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and ☒ Other Oils) only	VOC with Other Contaminants	Petroleum with Other Contaminants	Listed Contaminated Sites	Contaminated Dredge Condensates	Hydrostatic Testing of Pipelines/Tanks	Well Development or Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids	☒									
2. Total Residual Chlorine	☒									
3. Total Petroleum Hydrocarbons		☒	2	composite	8015b	5100	1.8E5			
4. Cyanide		☒	2	composite	9010b	5	32			
5. Benzene		☒	1	grab	624	10	61			
6. Toluene	☒									
7. Ethylbenzene		☒		grab	624	10	76			
8. (m,p,o) Xylenes		☒		grab	624	10	250			
9. Total BTEX ⁴	☒									

⁴BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide (1,2- Dibromo-methane)	✓									
11. Methyl-tert-Butyl Ether (MtBE)		✓	1	grab	624	10	310			
12. tert-Butyl Alcohol (TBA)	✓									
13. tert-Amyl Methyl Ether (TAME)	✓									
14. Naphthalene		✓	2	composite	8270	100	420			
15. Carbon Tetra-chloride	✓									
16. 1,4 Dichlorobenzene	✓									
17. 1,2 Dichlorobenzene	✓									
18. 1,3 Dichlorobenzene	✓									
19. 1,1 Dichloroethane	✓									
20. 1,2 Dichloroethane	✓									
21. 1,1 Dichloroethylene	✓									
22. cis-1,2 Dichloro-ethylene	✓									
23. Dichloromethane (Methylene Chloride)	✓									
24. Tetrachloroethylene	✓									

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓									
26. 1,1,2 Trichloroethane	✓									
27. Trichloroethylene	✓									
28. Vinyl Chloride	✓									
29. Acetone	✓									
30. 1,4 Dioxane	✓									
31. Total Phenols	✓									
32. Pentachlorophenol	✓									
33. Total Phthalates ⁵ (Phthalate esthers)	✓									
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]		✓	2	composite	8270	200	840			
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✓									
a. Benzo(a) Anthracene	✓									
b. Benzo(a) Pyrene	✓									
c. Benzo(b)Fluoranthene	✓									
d. Benzo(k) Fluoranthene	✓									
e. Chrysene	✓									

⁵The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✓									
g. Indeno(1,2,3-cd) Pyrene	✓									
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	✓									
h. Acenaphthene	✓									
i. Acenaphthylene	✓									
j. Anthracene	✓									
k. Benzo(ghi) Perylene	✓									
l. Fluoranthene	✓									
m. Fluorene		✓	2	composite	8270	100	130			
n. Naphthalene-		✓	2	composite	8270	100	420			
o. Phenanthrene		✓	2	composite	8270	100	240			
p. Pyrene	✓									
37. Total Polychlorinated Biphenyls (PCBs)	✓									
38. Antimony	✓									
39. Arsenic	✓									
40. Cadmium	✓									
41. Chromium III	✓									
42. Chromium VI	✓									

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min- imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper	✓									
44. Lead	✓									
45. Mercury	✓									
46. Nickel	✓									
47. Selenium	✓									
48. Silver	✓									
49. Zinc	✓									
50. Iron		✓	2	composite	6010b	50	18000			
Other (describe):	✓									

c) For discharges where **metals** are believed present, please fill out the following:

<i>Step 1:</i> Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y ☒ N ☐	If yes, which metals? Lead
<i>Step 2:</i> For any metals which have reasonable potential to exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: _____ DF: <u>7.6</u>	Look up the limit calculated at the corresponding dilution factor in Appendix IV. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y ☐ N ☒ If “Yes,” list which metals:

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system: Hi-vac extraction system including oil water separator, bag filters and carbon filtration (diagram attached)						
b) Identify each applicable treatment unit (check all that apply):	Frac. tank	Air stripper	Oil/water separator ✓	Equalization tanks	Bag filter ✓	GAC filter ✓
	Chlorination	Dechlorination	Other (please describe):			
c) Proposed average and maximum flow rates (gallons per minute) for the discharge and the design flow rate(s) (gallons per minute) of the treatment system: Average flow rate of discharge <u>15</u> Maximum flow rate of treatment system <u>30</u> Design flow rate of treatment system <u>35</u>						
d) A description of chemical additives being used or planned to be used (attach MSDS sheets): None						

5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct _____	Within facility__	Storm drain ✓	River/brook _____	Wetlands _____	Other (describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters: Treated water will be discharged to DMH P-1, a storm water drain that discharges to the Muddy River.						

c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water: 1. For multiple discharges, number the discharges sequentially. 2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.
d) Provide the state water quality classification of the receiving water <u> B </u>,
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water <u> 0.46 </u> cfs Please attach any calculation sheets used to support stream flow and dilution calculations.
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes <u> </u> No <u> ✓ </u> If yes, for which pollutant(s)? Is there a TMDL? Yes <u> </u> No <u> ✓ </u> If yes, for which pollutant(s)?

6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes <u> </u> No <u> ✓ </u> Has any consultation with the federal services been completed? <u> ✓ </u> No <u> </u> or is consultation underway? <u> </u> No <u> </u> What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service <u> Yes </u> (check one): a “no jeopardy” opinion? <u> ✓ </u> or written concurrence <u> </u> on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?
b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge? Yes <u> </u> No <u> ✓ </u> Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes <u> </u> No <u> ✓ </u>

7. Supplemental information. :

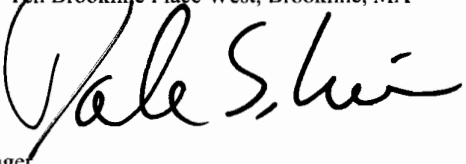
Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility/Site Name: Ten Brookline Place West, Brookline, MA

Operator signature:

A handwritten signature in black ink, appearing to read "Dale S. Wei", is written over the "Operator signature:" label.

Title: Project Manager

Date: 06/13/06



BASE MAP IS A PORTION OF THE FOLLOWING
7.5' X 15' USGS TOPOGRAPHIC QUADRANGLES:
BOSTON SOUTH, MA 1987

APPROXIMATE GRAPHIC SCALE

0' 1,000' 2,000' 4,000'



RTN 3-25017
TEN BROOKLINE PLACE, LLC
BROOKLINE, MASSACHUSETTS

SITE LOCATION PLAN

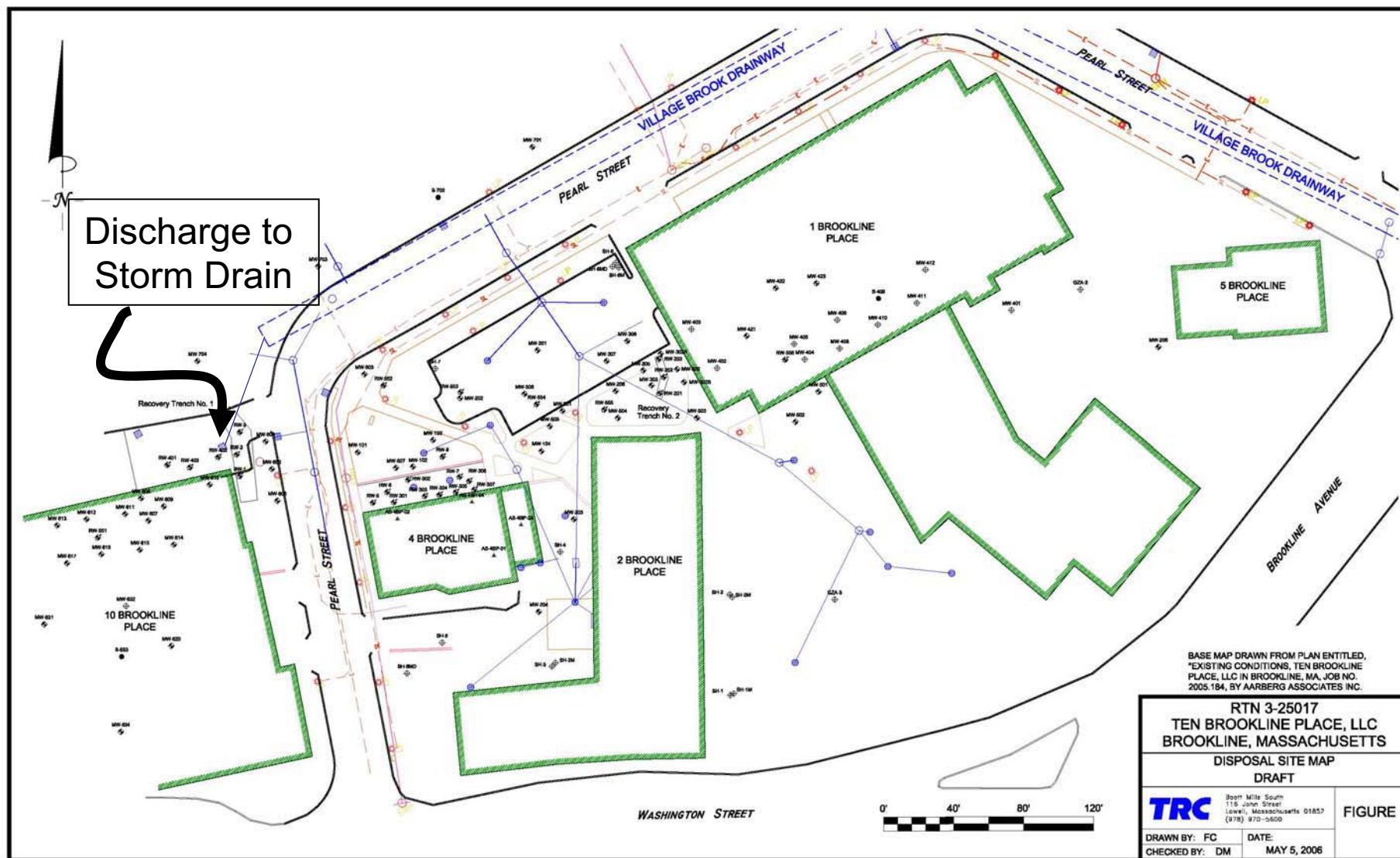
TRC

Boott Mills South
116 John Street
Lowell, Massachusetts 01852
(978) 970-5600

DRAWN BY: JME
CHECKED BY: FC

DATE:
MAY 2, 2006

FIGURE
1



BASE MAP DRAWN FROM PLAN ENTITLED,
"EXISTING CONDITIONS, TEN BROOKLINE
PLACE, LLC IN BROOKLINE, MA, JOB NO.
2005.184, BY AARBERG ASSOCIATES INC.

RTN 3-25017
TEN BROOKLINE PLACE, LLC
BROOKLINE, MASSACHUSETTS
DISPOSAL SITE MAP
DRAFT

TRC

Booth Mills South
118 John Street
Lowell, Massachusetts 01857
(978) 970-5608

FIGURE

DRAWN BY: FC
CHECKED BY: DM
DATE: MAY 5, 2006

Dale Weiss

From: "Schafer, Dave" <DSchafer@TRCSOLUTIONS.com>
To: "Weiss, Dale" <DWeiss@TRCSOLUTIONS.com>
Sent: Monday, June 12, 2006 11:35 PM
Subject: 7Q10 Flow for Muddy River

Dale,

The 7Q10 flow for the Muddy River is estimated to be 0.46 cfs. The estimate is based on the following:

Nearest USGS gage : Muddy River Station No. 01104683

Drainage Area: 5.93 sq. mi.

Nearest long term flow gage: Charles River at Waltham USGS No. 01104500

Drainage Area: 227 sq. mi.

7Q10 estimate for Charles River @ Waltham 17.5 cfs

7Q10 for Muddy River = (7Q10 for Charles) * (DA for Muddy River)/(DA for Charles River)

7Q10 for Muddy River = 17.5 cfs * (5.93 sq. mi.) / (227 sq. mi.)

7Q10 for Muddy River = 0.46 cfs

Dave

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

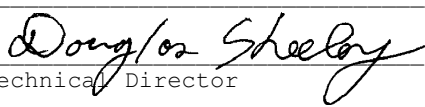
MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: TRC Environmental Corporation **Laboratory Job Number:** L0604320
Address: Boott Mills South
116 John Street
Lowell, MA 01852 **Date Received:** 28-MAR-2006
Attn: Ms. Dorothy McGlinchy **Date Reported:** 04-APR-2006
Project Number: 49798 **Delivery Method:** Alpha
Site: BROOKLINE

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0604320-01	PILOT-2	
L0604320-02	TB	

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: 

Technical Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0604320

Volatile Organics

L0604320-01 has elevated limits of detection due to the 100x dilution required by the elevated concentrations of non-target compounds in the sample.

SemiVolatile Organics

L0604320-01 has elevated limits of detection due to the 20x dilution required by the elevated concentrations of target compounds in the sample. The surrogates could not be recovered due to this dilution.

The LCS % recovery for 2,4-Dinitrotoluene is above the acceptance criteria for the method.

TPH-DRO

L0604320-01 has an elevated limit of detection due to the 10x dilution required by the elevated concentration of target compound in the sample.

L0604320-01 and the Laboratory duplicate have high surrogates for OTP, due to coelution with product.

Total Cyanide

L0604320-01: The initial pH of 10 was adjusted to 12 using 0.5ml of 50% NaOH

**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: I0604320-01 PILOT-2 Sample Matrix: WATER Condition of Sample: Satisfactory	Date Collected: 28-MAR-2006 14:30 Date Received : 28-MAR-2006 Date Reported : 04-APR-2006 Field Prep: None
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Number & Type of Containers: 4-Amber,4-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Alkalinity, Total	380	mg CaCO3/L2.0		30 2320B		0331 13:51	JT
Cyanide, Total	0.032	mg/l	0.005	1 9010B	0329 10:15	0329 19:55	DD
Cyanide, Free	ND	mg/l	0.010	30 4500CN-E (M)		0329 14:00	JH
pH	7.4	SU	-	1 9040B		0328 20:48	DP
Total Metals				1 3015			
Iron, Total	8.2	mg/l	0.05	1 6010B	0329 16:15	0330 17:57	MG
Lead, Total	ND	mg/l	0.010	1 6010B	0329 16:15	0330 17:57	MG
Volatile Organics by GC/MS 8260				1 8260B		0330 17:04	BT
Benzene	ND	ug/l	50.				
Toluene	ND	ug/l	75.				
Ethylbenzene	ND	ug/l	50.				
Methyl tert butyl ether	ND	ug/l	100				
p/m-Xylene	ND	ug/l	100				
o-Xylene	ND	ug/l	100				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	110	%	70-130				
Toluene-d8	100	%	70-130				
4-Bromofluorobenzene	98.0	%	70-130				
Dibromofluoromethane	103	%	70-130				
SVOC's by GC/MS 8270				1 8270C	0329 17:30	0331 20:22	RL
Acenaphthene	ND	ug/l	100				
Benzidine	ND	ug/l	1000				
1,2,4-Trichlorobenzene	ND	ug/l	100				
Hexachlorobenzene	ND	ug/l	100				
Bis(2-chloroethyl)ether	ND	ug/l	100				
1-Chloronaphthalene	ND	ug/l	100				
2-Chloronaphthalene	ND	ug/l	120				
1,2-Dichlorobenzene	ND	ug/l	100				
1,3-Dichlorobenzene	ND	ug/l	100				
1,4-Dichlorobenzene	ND	ug/l	100				
3,3'-Dichlorobenzidine	ND	ug/l	1000				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0604320-01
PILOT-2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1 8270C	0329 17:30	0331 20:22	RL
2,4-Dinitrotoluene	ND	ug/l	120				
2,6-Dinitrotoluene	ND	ug/l	100				
Azobenzene	ND	ug/l	100				
Fluoranthene	ND	ug/l	100				
4-Chlorophenyl phenyl ether	ND	ug/l	100				
4-Bromophenyl phenyl ether	ND	ug/l	100				
Bis(2-chloroisopropyl) ether	ND	ug/l	100				
Bis(2-chloroethoxy) methane	ND	ug/l	100				
Hexachlorobutadiene	ND	ug/l	200				
Hexachlorocyclopentadiene	ND	ug/l	200				
Hexachloroethane	ND	ug/l	100				
Isophorone	ND	ug/l	100				
Naphthalene	420	ug/l	100				
Nitrobenzene	ND	ug/l	100				
NDPA/DPA	ND	ug/l	300				
n-Nitrosodi-n-propylamine	ND	ug/l	100				
Bis(2-ethylhexyl) phthalate	840	ug/l	200				
Butyl benzyl phthalate	ND	ug/l	100				
Di-n-butylphthalate	ND	ug/l	100				
Di-n-octylphthalate	ND	ug/l	100				
Diethyl phthalate	ND	ug/l	100				
Dimethyl phthalate	ND	ug/l	100				
Benzo (a) anthracene	ND	ug/l	100				
Benzo (a) pyrene	ND	ug/l	100				
Benzo (b) fluoranthene	ND	ug/l	100				
Benzo (k) fluoranthene	ND	ug/l	100				
Chrysene	ND	ug/l	100				
Acenaphthylene	ND	ug/l	100				
Anthracene	ND	ug/l	100				
Benzo (ghi) perylene	ND	ug/l	100				
Fluorene	130	ug/l	100				
Phenanthrene	240	ug/l	100				
Dibenzo (a,h) anthracene	ND	ug/l	100				
Indeno (1,2,3-cd) pyrene	ND	ug/l	140				
Pyrene	ND	ug/l	100				
Benzo (e) pyrene	ND	ug/l	100				
Biphenyl	ND	ug/l	100				
Perylene	ND	ug/l	100				
Aniline	ND	ug/l	200				
4-Chloroaniline	ND	ug/l	100				
1-Methylnaphthalene	1400	ug/l	100				
2-Nitroaniline	ND	ug/l	100				
3-Nitroaniline	ND	ug/l	100				
4-Nitroaniline	ND	ug/l	140				
Dibenzofuran	ND	ug/l	100				
a,a-Dimethylphenethylamine	ND	ug/l	1000				
Hexachloropropene	ND	ug/l	200				
Nitrosodi-n-butylamine	ND	ug/l	200				
2-Methylnaphthalene	1400	ug/l	100				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0604320-01
PILOT-2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1	8270C	0329 17:30 0331 20:22	RL
1,2,4,5-Tetrachlorobenzene	ND	ug/l	400				
Pentachlorobenzene	ND	ug/l	400				
a-Naphthylamine	ND	ug/l	400				
b-Naphthylamine	ND	ug/l	400				
Phenacetin	ND	ug/l	200				
Dimethoate	ND	ug/l	400				
4-Aminobiphenyl	ND	ug/l	200				
Pentachloronitrobenzene	ND	ug/l	200				
Isodrin	ND	ug/l	200				
p-Dimethylaminoazobenzene	ND	ug/l	200				
Chlorobenzilate	ND	ug/l	400				
3-Methylcholanthrene	ND	ug/l	400				
Ethyl Methanesulfonate	ND	ug/l	300				
Acetophenone	ND	ug/l	400				
Nitrosodipiperidine	ND	ug/l	400				
7,12-Dimethylbenz (a) anthracene	ND	ug/l	200				
n-Nitrosodimethylamine	ND	ug/l	1000				
2,4,6-Trichlorophenol	ND	ug/l	100				
p-Chloro-m-cresol	ND	ug/l	100				
2-Chlorophenol	ND	ug/l	120				
2,4-Dichlorophenol	ND	ug/l	200				
2,4-Dimethylphenol	ND	ug/l	200				
2-Nitrophenol	ND	ug/l	400				
4-Nitrophenol	ND	ug/l	200				
2,4-Dinitrophenol	ND	ug/l	400				
4,6-Dinitro-o-cresol	ND	ug/l	400				
Pentachlorophenol	ND	ug/l	400				
Phenol	ND	ug/l	140				
2-Methylphenol	ND	ug/l	120				
3-Methylphenol/4-Methylphenol	ND	ug/l	120				
2,4,5-Trichlorophenol	ND	ug/l	100				
2,6-Dichlorophenol	ND	ug/l	200				
Benzoic Acid	ND	ug/l	1000				
Benzyl Alcohol	ND	ug/l	200				
Carbazole	ND	ug/l	100				
Pyridine	ND	ug/l	1000				
2-Picoline	ND	ug/l	400				
Pronamide	ND	ug/l	400				
Methyl methanesulfonate	ND	ug/l	400				
Surrogate (s)	Recovery		QC Criteria				
2-Fluorophenol	ND	%	21-120				
Phenol-d6	ND	%	10-120				
Nitrobenzene-d5	ND	%	23-120				
2-Fluorobiphenyl	ND	%	43-120				
2,4,6-Tribromophenol	ND	%	10-120				
4-Terphenyl-d14	ND	%	33-120				
Petroleum Hydrocarbon Quantitation by GC-FID				1	8015B (M)	0329 16:20 0401 03:28	LW

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0604320-01
PILOT-2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Petroleum Hydrocarbon Quantitation by GC-FID cont'd							
TPH	179000	ug/l	5100	1 8015B (M)	0329 16:20	0401 03:28	LW
Surrogate(s)	Recovery		QC Criteria				
o-Terphenyl	235	%	40-140				

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: I0604320-02

Date Collected: 27-MAR-2006 08:00

TB

Date Received : 28-MAR-2006

Sample Matrix: WATER

Date Reported : 04-APR-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260				1 8260B	0330 17:42 BT		
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	1.0				
o-Xylene	ND	ug/l	1.0				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	113	%	70-130				
Toluene-d8	98.0	%	70-130				
4-Bromofluorobenzene	98.0	%	70-130				
Dibromofluoromethane	103	%	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: L0604320

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Alkalinity, Total for sample(s) 01 (L0603926-17, WG234504-4)					
Alkalinity, Total	350	350	mg CaCO3/L	0	4
Cyanide, Free for sample(s) 01 (L0604320-01, WG234166-4)					
Cyanide, Free	ND	ND	mg/l	NC	
pH for sample(s) 01 (L0604301-04, WG234127-2)					
pH	10.9	10.9	SU	0	
Total Metals for sample(s) 01 (L0604301-01, WG234269-1)					
Iron, Total	39	38	mg/l	3	20
Lead, Total	ND	ND	mg/l	NC	20
Petroleum Hydrocarbon Quantitation by GC-FID for sample(s) 01 (L0604320-01, WG234263-3)					
TPH	179000	165000	ug/l	8	40
Surrogate(s)	Recovery				QC Criteria
o-Terphenyl	235	207	%		40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0604320

Parameter	% Recovery	QC Criteria
Alkalinity, Total LCS for sample(s) 01 (WG234504-2)		
Alkalinity, Total	102	85-115
Cyanide, Total LCS for sample(s) 01 (WG234161-2)		
Cyanide, Total	97	80-120
Cyanide, Free LCS for sample(s) 01 (WG234166-2)		
Cyanide, Free	104	
pH LCS for sample(s) 01 (WG234127-1)		
pH	100	
Total Metals LCS for sample(s) 01 (WG234269-4)		
Iron, Total	94	75-125
Lead, Total	100	75-125
Volatile Organics by GC/MS 8260 LCS for sample(s) 01-02 (WG233988-7)		
Chlorobenzene	100	75-130
Benzene	96	76-127
Toluene	98	76-125
1,1-Dichloroethene	92	61-145
Trichloroethene	98	71-120
Surrogate(s)		
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	103	70-130
Dibromofluoromethane	109	70-130
SVOC's by GC/MS 8270 LCS for sample(s) 01 (WG234314-2)		
Acenaphthene	88	46-118
1,2,4-Trichlorobenzene	77	39-98
2-Chloronaphthalene	90	40-140
1,2-Dichlorobenzene	68	40-140
1,4-Dichlorobenzene	65	36-97
2,4-Dinitrotoluene	113	24-96
2,6-Dinitrotoluene	119	40-140
Fluoranthene	104	40-140
4-Chlorophenyl phenyl ether	100	40-140
n-Nitrosodi-n-propylamine	72	41-116
Butyl benzyl phthalate	115	40-140
Anthracene	86	40-140
Pyrene	96	26-127
Hexachloropropene	86	40-140
P-Chloro-M-Cresol	90	23-97
2-Chlorophenol	71	27-123
2-Nitrophenol	88	30-130
4-Nitrophenol	55	10-80
2,4-Dinitrophenol	118	30-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0604320

Continued

Parameter	% Recovery	QC Criteria
SVOC's by GC/MS 8270 LCS for sample(s) 01 (WG234314-2)		
Pentachlorophenol	100	9-103
Phenol	34	12-110
Surrogate(s)		
2-Fluorophenol	51	21-120
Phenol-d6	45	10-120
Nitrobenzene-d5	92	23-120
2-Fluorobiphenyl	90	43-120
2,4,6-Tribromophenol	97	10-120
4-Terphenyl-d14	111	33-120
Petroleum Hydrocarbon Quantitation by GC-FID LCS for sample(s) 01 (WG234263-2)		
TPH	99	40-140
Surrogate(s)		
o-Terphenyl	87	40-140
Alkalinity, Total SPIKE for sample(s) 01 (L0603926-03, WG234504-3)		
Alkalinity, Total	101	86-116
Cyanide, Free SPIKE for sample(s) 01 (L0604320-01, WG234166-3)		
Cyanide, Free	64	
Total Metals SPIKE for sample(s) 01 (L0604301-01, WG234269-2)		
Iron, Total	0	75-125
Lead, Total	88	75-125

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0604320

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Cyanide, Total for sample(s) 01 (L0604320-01, WG234161-4)					
Cyanide, Total	96	93	3	30	80-120
Volatile Organics by GC/MS 8260 for sample(s) 01-02 (L0603926-14, WG233988-2)					
Chlorobenzene	105	101	4	20	75-130
Benzene	106	101	5	20	76-127
Toluene	105	99	6	20	76-125
1,1-Dichloroethene	109	102	7	20	61-145
Trichloroethene	107	103	4	20	71-120
Surrogate(s)					
1,2-Dichloroethane-d4	113	114	1		70-130
Toluene-d8	99	99	0		70-130
4-Bromofluorobenzene	98	99	1		70-130
Dibromofluoromethane	105	105	0		70-130
SVOC's by GC/MS 8270 for sample(s) 01 (L0604263-01, WG234314-4)					
Acenaphthene	117	100	18	30	46-118
1,2,4-Trichlorobenzene	90	90	0	30	39-98
2-Chloronaphthalene	100	95	5	30	40-140
1,2-Dichlorobenzene	90	85	6	30	40-140
1,4-Dichlorobenzene	85	80	6	30	36-97
2,4-Dinitrotoluene	181	150	18	30	24-96
2,6-Dinitrotoluene	140	140	0	30	40-140
Fluoranthene	120	110	9	30	40-140
4-Chlorophenyl phenyl ether	100	100	0	30	40-140
n-Nitrosodi-n-propylamine	95	85	11	30	41-116
Butyl benzyl phthalate	130	110	17	30	40-140
Anthracene	100	90	11	30	40-140
Pyrene	110	100	10	30	26-127
Hexachloropropene	80	75	6	30	40-140
P-Chloro-M-Cresol	103	105	10	30	23-97
2-Chlorophenol	93	88	6	30	27-123
2-Nitrophenol	110	98	12	30	30-130
4-Nitrophenol	89	80	12	30	10-80
2,4-Dinitrophenol	75	75	0	30	30-130
Pentachlorophenol	93	90	3	30	9-103
Phenol	58	58	0	30	12-110
Surrogate(s)					
2-Fluorophenol	78	76	3		21-120
Phenol-d6	79	79	0		10-120
Nitrobenzene-d5	114	116	2		23-120
2-Fluorobiphenyl	106	102	4		43-120
2,4,6-Tribromophenol	97	96	1		10-120
4-Terphenyl-d14	114	107	6		33-120

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0604320

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01 (WG234504-1)							
Alkalinity, Total	ND	mg CaCO3/L2.0		30	2320B		0331 13:51 JT
Blank Analysis for sample(s) 01 (WG234161-1)							
Cyanide, Total	ND	mg/l	0.005	1	9010B	0329 10:15	0329 19:39 DD
Blank Analysis for sample(s) 01 (WG234166-1)							
Cyanide, Free	ND	mg/l	0.010	30	4500CN-E (M)		0329 14:00 JH
Blank Analysis for sample(s) 01 (WG234269-3)							
Total Metals				1	3015		
Iron, Total	ND	mg/l	0.05	1	6010B	0329 16:15	0403 12:55 MG
Lead, Total	ND	mg/l	0.050	1	6010B	0329 16:15	0403 12:55 MG
Blank Analysis for sample(s) 01-02 (WG233988-8)							
Volatile Organics by GC/MS 8260				1	8260B		0330 10:52 BT
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0604320

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02 (WG233988-8)							
Volatile Organics by GC/MS 8260 cont'd				1	8260B	0330 10:52 BT	
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	1.0				
o-Xylene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	0.60				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0604320

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02 (WG233988-8)							
Volatile Organics by GC/MS 8260 cont'd				1 8260B		0330 10:52	BT
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	118	%	70-130				
Toluene-d8	102	%	70-130				
4-Bromofluorobenzene	115	%	70-130				
Dibromofluoromethane	106	%	70-130				
Blank Analysis for sample(s) 01 (WG234314-1)							
SVOC's by GC/MS 8270				1 8270C		0329 17:30 0331 11:04	RL
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	10.				
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	10.				
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				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0604320

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01 (WG234314-1)							
SVOC's by GC/MS 8270 cont'd				1 8270C	0329 17:30	0331 11:04	RL
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	10.				
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	20.				
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.				
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	10.				
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.				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0604320

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01 (WG234314-1)							
SVOC's by GC/MS 8270 cont'd				1 8270C	0329 17:30	0331 11:04	RL
2,4-Dinitrophenol	ND	ug/l	20.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
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	55.0	%	21-120				
Phenol-d6	47.0	%	10-120				
Nitrobenzene-d5	99.0	%	23-120				
2-Fluorobiphenyl	85.0	%	43-120				
2,4,6-Tribromophenol	92.0	%	10-120				
4-Terphenyl-d14	111	%	33-120				
Blank Analysis for sample(s) 01 (WG234263-1)							
Petroleum Hydrocarbon Quantitation by GC-FID				1 8015B (M)	0329 16:20	0401 02:24	LW
TPH	ND	ug/l	500.				
Surrogate(s)	Recovery		QC Criteria				
o-Terphenyl	75.0	%	40-140				

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.
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.

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.

ALPHA ANALYTICAL LABORATORIES

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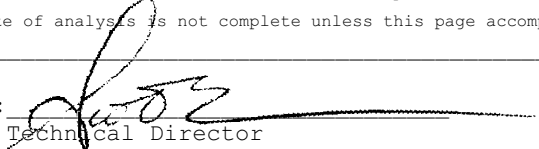
MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: TRC Environmental Corporation **Laboratory Job Number:** L0604263
Address: Boott Mills South
116 John Street
Lowell, MA 01852 **Date Received:** 27-MAR-2006
Attn: Ms. Dorothy McGlinchy **Date Reported:** 03-APR-2006
Project Number: 49798 **Delivery Method:** Alpha
Site: BROOKLINE

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0604263-01	PILOT-1	

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: 
Technical Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0604263

Volatile Organics

L0604263-01 has elevated limits of detection due to the 10x dilution required by the elevated concentrations of non-target compounds in the sample.

SemiVolatile Organics

L0604263-01 has elevated limits of detection due to the 10x dilution required by the elevated concentrations of target compounds in the sample.

The LCS and MS/MSD % recoveries for 2,4-Dinitrotoluene are above the acceptance criteria for the method.

The MS/MSD % recoveries for p-Chloro-m-cresol and the MS % recovery for 4-Nitrophenol are above the acceptance criteria for the method.

TPH-DRO

L0604263-01 has an elevated limit of detection due to the 25x dilution required by the elevated concentration of target compound in the sample.

L0604263-01 has surrogate % recovery for o-Terphenyl above acceptance criteria for the method due to co-elution with the product. No further action was performed.

Free Cyanide

The MS % recovery is below the acceptance criteria for the method due to sample matrix.

Metals

The MS % recovery for Iron is invalid because the sample concentration is greater than four times the spike amount added.

**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: L0604263-01 PILOT-1 Sample Matrix: WATER Condition of Sample: Satisfactory	Date Collected: 27-MAR-2006 15:30 Date Received : 27-MAR-2006 Date Reported : 03-APR-2006 Field Prep: None
--	---

Number & Type of Containers: 4-Amber,4-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Alkalinity, Total	330	mg CaCO3/L2.0		30 2320B		0331 13:51	JT
Cyanide, Total	ND	mg/l	0.005	1 9010B	0329 10:15	0329 19:52	DD
Cyanide, Free	ND	mg/l	0.010	30 4500CN-E (M)		0327 20:20	HS
pH	7.3	SU	-	1 9040B		0327 16:20	DP
Total Metals				1 3015			
Iron, Total	18	mg/l	0.05	1 6010B	0328 17:00	0330 17:02	MG
Lead, Total	ND	mg/l	0.010	1 6010B	0328 17:00	0330 17:02	MG
Volatile Organics by GC/MS 8260				1 8260B		0330 16:27	BT
Benzene	ND	ug/l	5.0				
Toluene	ND	ug/l	7.5				
Ethylbenzene	ND	ug/l	5.0				
Methyl tert butyl ether	ND	ug/l	10.				
p/m-Xylene	ND	ug/l	10.				
o-Xylene	ND	ug/l	10.				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	104	%	70-130				
Toluene-d8	100	%	70-130				
4-Bromofluorobenzene	97.0	%	70-130				
Dibromofluoromethane	101	%	70-130				
SVOC's by GC/MS 8270				1 8270C	0329 17:30	0331 19:57	RL
Acenaphthene	ND	ug/l	48.				
Benzidine	ND	ug/l	480				
1,2,4-Trichlorobenzene	ND	ug/l	48.				
Hexachlorobenzene	ND	ug/l	48.				
Bis(2-chloroethyl)ether	ND	ug/l	48.				
1-Chloronaphthalene	ND	ug/l	48.				
2-Chloronaphthalene	ND	ug/l	57.				
1,2-Dichlorobenzene	ND	ug/l	48.				
1,3-Dichlorobenzene	ND	ug/l	48.				
1,4-Dichlorobenzene	ND	ug/l	48.				
3,3'-Dichlorobenzidine	ND	ug/l	480				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0604263-01
PILOT-1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1 8270C	0329 17:30	0331 19:57	RL
2,4-Dinitrotoluene	ND	ug/l	57.				
2,6-Dinitrotoluene	ND	ug/l	48.				
Azobenzene	ND	ug/l	48.				
Fluoranthene	ND	ug/l	48.				
4-Chlorophenyl phenyl ether	ND	ug/l	48.				
4-Bromophenyl phenyl ether	ND	ug/l	48.				
Bis(2-chloroisopropyl) ether	ND	ug/l	48.				
Bis(2-chloroethoxy) methane	ND	ug/l	48.				
Hexachlorobutadiene	ND	ug/l	96.				
Hexachlorocyclopentadiene	ND	ug/l	96.				
Hexachloroethane	ND	ug/l	48.				
Isophorone	ND	ug/l	48.				
Naphthalene	ND	ug/l	48.				
Nitrobenzene	ND	ug/l	48.				
NDPA/DPA	ND	ug/l	140				
n-Nitrosodi-n-propylamine	ND	ug/l	48.				
Bis(2-ethylhexyl) phthalate	ND	ug/l	96.				
Butyl benzyl phthalate	ND	ug/l	48.				
Di-n-butylphthalate	ND	ug/l	48.				
Di-n-octylphthalate	ND	ug/l	48.				
Diethyl phthalate	ND	ug/l	48.				
Dimethyl phthalate	ND	ug/l	48.				
Benzo (a) anthracene	ND	ug/l	48.				
Benzo (a) pyrene	ND	ug/l	48.				
Benzo (b) fluoranthene	ND	ug/l	48.				
Benzo (k) fluoranthene	ND	ug/l	48.				
Chrysene	ND	ug/l	48.				
Acenaphthylene	ND	ug/l	48.				
Anthracene	ND	ug/l	48.				
Benzo (ghi) perylene	ND	ug/l	48.				
Fluorene	ND	ug/l	48.				
Phenanthrene	74	ug/l	48.				
Dibenzo (a,h) anthracene	ND	ug/l	48.				
Indeno (1,2,3-cd) pyrene	ND	ug/l	67.				
Pyrene	ND	ug/l	48.				
Benzo (e) pyrene	ND	ug/l	48.				
Biphenyl	ND	ug/l	48.				
Perylene	ND	ug/l	48.				
Aniline	ND	ug/l	96.				
4-Chloroaniline	ND	ug/l	48.				
1-Methylnaphthalene	320	ug/l	48.				
2-Nitroaniline	ND	ug/l	48.				
3-Nitroaniline	ND	ug/l	48.				
4-Nitroaniline	ND	ug/l	67.				
Dibenzofuran	ND	ug/l	48.				
a,a-Dimethylphenethylamine	ND	ug/l	480				
Hexachloropropene	ND	ug/l	96.				
Nitrosodi-n-butylamine	ND	ug/l	96.				
2-Methylnaphthalene	250	ug/l	48.				

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0604263-01
PILOT-1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1 8270C	0329 17:30	0331 19:57	RL
1,2,4,5-Tetrachlorobenzene	ND	ug/l	190				
Pentachlorobenzene	ND	ug/l	190				
a-Naphthylamine	ND	ug/l	190				
b-Naphthylamine	ND	ug/l	190				
Phenacetin	ND	ug/l	96.				
Dimethoate	ND	ug/l	190				
4-Aminobiphenyl	ND	ug/l	96.				
Pentachloronitrobenzene	ND	ug/l	96.				
Isodrin	ND	ug/l	96.				
p-Dimethylaminoazobenzene	ND	ug/l	96.				
Chlorobenzilate	ND	ug/l	190				
3-Methylcholanthrene	ND	ug/l	190				
Ethyl Methanesulfonate	ND	ug/l	140				
Acetophenone	ND	ug/l	190				
Nitrosodipiperidine	ND	ug/l	190				
7,12-Dimethylbenz (a) anthracene	ND	ug/l	96.				
n-Nitrosodimethylamine	ND	ug/l	480				
2,4,6-Trichlorophenol	ND	ug/l	48.				
p-Chloro-m-cresol	ND	ug/l	48.				
2-Chlorophenol	ND	ug/l	57.				
2,4-Dichlorophenol	ND	ug/l	96.				
2,4-Dimethylphenol	ND	ug/l	96.				
2-Nitrophenol	ND	ug/l	190				
4-Nitrophenol	ND	ug/l	96.				
2,4-Dinitrophenol	ND	ug/l	190				
4,6-Dinitro-o-cresol	ND	ug/l	190				
Pentachlorophenol	ND	ug/l	190				
Phenol	ND	ug/l	67.				
2-Methylphenol	ND	ug/l	57.				
3-Methylphenol/4-Methylphenol	ND	ug/l	57.				
2,4,5-Trichlorophenol	ND	ug/l	48.				
2,6-Dichlorophenol	ND	ug/l	96.				
Benzoic Acid	ND	ug/l	480				
Benzyl Alcohol	ND	ug/l	96.				
Carbazole	ND	ug/l	48.				
Pyridine	ND	ug/l	480				
2-Picoline	ND	ug/l	190				
Pronamide	ND	ug/l	190				
Methyl methanesulfonate	ND	ug/l	190				
Surrogate (s)	Recovery		QC Criteria				
2-Fluorophenol	37.0	%	21-120				
Phenol-d6	35.0	%	10-120				
Nitrobenzene-d5	97.0	%	23-120				
2-Fluorobiphenyl	82.0	%	43-120				
2,4,6-Tribromophenol	76.0	%	10-120				
4-Terphenyl-d14	88.0	%	33-120				
Petroleum Hydrocarbon Quantitation by GC-FID				1 8015B (M)	0328 17:00	0330 15:56	AJ

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0604263-01
PILOT-1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID	
					PREP	ANAL		
Petroleum Hydrocarbon Quantitation by GC-FID cont'd				1	8015B(M)	0328 17:00	0330 15:56	AJ
TPH	63700	ug/l	13900					
Surrogate(s)	Recovery		QC Criteria					
o-Terphenyl	151	%	40-140					

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0604263

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Alkalinity, Total for sample(s) 01 (L0603926-17, WG234504-4)					
Alkalinity, Total	350	350	mg CaCO3/L	0	4
Cyanide, Free for sample(s) 01 (L0604263-01, WG233960-3)					
Cyanide, Free	ND	ND	mg/l	NC	
pH for sample(s) 01 (L0604263-01, WG233969-2)					
pH	7.3	7.3	SU	0	
Total Metals for sample(s) 01 (L0604263-01, WG234100-1)					
Iron, Total	18	18	mg/l	0	20
Lead, Total	ND	ND	mg/l	NC	20
Petroleum Hydrocarbon Quantitation by GC-FID for sample(s) 01 (L0604263-01, WG234094-3)					
TPH	63700	56600	ug/l	12	40
Surrogate(s)	Recovery				QC Criteria
o-Terphenyl	151	114	%		40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0604263

Parameter	% Recovery	QC Criteria
Alkalinity, Total LCS for sample(s) 01 (WG234504-2)		
Alkalinity, Total	102	85-115
Cyanide, Total LCS for sample(s) 01 (WG234161-2)		
Cyanide, Total	97	80-120
Cyanide, Free LCS for sample(s) 01 (WG233960-2)		
Cyanide, Free	106	
pH LCS for sample(s) 01 (WG233969-1)		
pH	99	
Total Metals LCS for sample(s) 01 (WG234100-4)		
Iron, Total	100	75-125
Lead, Total	101	75-125
Volatile Organics by GC/MS 8260 LCS for sample(s) 01 (WG233988-7)		
Chlorobenzene	100	75-130
Benzene	96	76-127
Toluene	98	76-125
1,1-Dichloroethene	92	61-145
Trichloroethene	98	71-120
Surrogate(s)		
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	103	70-130
Dibromofluoromethane	109	70-130
SVOC's by GC/MS 8270 LCS for sample(s) 01 (WG234314-2)		
Acenaphthene	88	46-118
1,2,4-Trichlorobenzene	77	39-98
2-Chloronaphthalene	90	40-140
1,2-Dichlorobenzene	68	40-140
1,4-Dichlorobenzene	65	36-97
2,4-Dinitrotoluene	113	24-96
2,6-Dinitrotoluene	119	40-140
Fluoranthene	104	40-140
4-Chlorophenyl phenyl ether	100	40-140
n-Nitrosodi-n-propylamine	72	41-116
Butyl benzyl phthalate	115	40-140
Anthracene	86	40-140
Pyrene	96	26-127
Hexachloropropene	86	40-140
P-Chloro-M-Cresol	90	23-97
2-Chlorophenol	71	27-123
2-Nitrophenol	88	30-130
4-Nitrophenol	55	10-80
2,4-Dinitrophenol	118	30-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0604263

Continued

Parameter	% Recovery	QC Criteria
SVOC's by GC/MS 8270 LCS for sample(s) 01 (WG234314-2)		
Pentachlorophenol	100	9-103
Phenol	34	12-110
Surrogate(s)		
2-Fluorophenol	51	21-120
Phenol-d6	45	10-120
Nitrobenzene-d5	92	23-120
2-Fluorobiphenyl	90	43-120
2,4,6-Tribromophenol	97	10-120
4-Terphenyl-d14	111	33-120
Petroleum Hydrocarbon Quantitation by GC-FID LCS for sample(s) 01 (WG234094-2)		
TPH	98	40-140
Surrogate(s)		
o-Terphenyl	99	40-140
Alkalinity, Total SPIKE for sample(s) 01 (L0603926-03, WG234504-3)		
Alkalinity, Total	101	86-116
Cyanide, Free SPIKE for sample(s) 01 (L0604263-01, WG233960-4)		
Cyanide, Free	51	
Total Metals SPIKE for sample(s) 01 (L0604263-01, WG234100-2)		
Iron, Total	0	75-125
Lead, Total	99	75-125

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0604263

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Cyanide, Total for sample(s) 01 (L0604320-01, WG234161-4)					
Cyanide, Total	96	93	3	30	80-120
Volatile Organics by GC/MS 8260 for sample(s) 01 (L0603926-14, WG233988-2)					
Chlorobenzene	105	101	4	20	75-130
Benzene	106	101	5	20	76-127
Toluene	105	99	6	20	76-125
1,1-Dichloroethene	109	102	7	20	61-145
Trichloroethene	107	103	4	20	71-120
Surrogate(s)					
1,2-Dichloroethane-d4	113	114	1		70-130
Toluene-d8	99	99	0		70-130
4-Bromofluorobenzene	98	99	1		70-130
Dibromofluoromethane	105	105	0		70-130
SVOC's by GC/MS 8270 for sample(s) 01 (L0604263-01, WG234314-4)					
Acenaphthene	117	100	18	30	46-118
1,2,4-Trichlorobenzene	90	90	0	30	39-98
2-Chloronaphthalene	100	95	5	30	40-140
1,2-Dichlorobenzene	90	85	6	30	40-140
1,4-Dichlorobenzene	85	80	6	30	36-97
2,4-Dinitrotoluene	181	150	18	30	24-96
2,6-Dinitrotoluene	140	140	0	30	40-140
Fluoranthene	120	110	9	30	40-140
4-Chlorophenyl phenyl ether	100	100	0	30	40-140
n-Nitrosodi-n-propylamine	95	85	11	30	41-116
Butyl benzyl phthalate	130	110	17	30	40-140
Anthracene	100	90	11	30	40-140
Pyrene	110	100	10	30	26-127
Hexachloropropene	80	75	6	30	40-140
P-Chloro-M-Cresol	103	105	10	30	23-97
2-Chlorophenol	93	88	6	30	27-123
2-Nitrophenol	110	98	12	30	30-130
4-Nitrophenol	89	80	12	30	10-80
2,4-Dinitrophenol	75	75	0	30	30-130
Pentachlorophenol	93	90	3	30	9-103
Phenol	58	58	0	30	12-110
Surrogate(s)					
2-Fluorophenol	78	76	3		21-120
Phenol-d6	79	79	0		10-120
Nitrobenzene-d5	114	116	2		23-120
2-Fluorobiphenyl	106	102	4		43-120
2,4,6-Tribromophenol	97	96	1		10-120
4-Terphenyl-d14	114	107	6		33-120

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0604263

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01 (WG234504-1)							
Alkalinity, Total	ND	mg CaCO3/L2.0		30 2320B		0331 13:51	JT
Blank Analysis for sample(s) 01 (WG234161-1)							
Cyanide, Total	ND	mg/l	0.005	1 9010B	0329 10:15	0329 19:39	DD
Blank Analysis for sample(s) 01 (WG233960-1)							
Cyanide, Free	ND	mg/l	0.010	30 4500CN-E (M)		0327 20:20	HS
Blank Analysis for sample(s) 01 (WG234100-3)							
Total Metals				1 3015			
Iron, Total	ND	mg/l	0.05	1 6010B	0328 17:00	0330 16:54	MG
Lead, Total	ND	mg/l	0.010	1 6010B	0328 17:00	0330 16:54	MG
Blank Analysis for sample(s) 01 (WG233988-8)							
Volatile Organics by GC/MS 8260				1 8260B		0330 10:52	BT
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0604263

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01 (WG233988-8)							
Volatile Organics by GC/MS 8260 cont'd				1	8260B	0330 10:52	BT
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	1.0				
o-Xylene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	0.60				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0604263

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01 (WG233988-8)							
Volatile Organics by GC/MS 8260 cont'd				1 8260B	0330 10:52 BT		
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	118	%	70-130				
Toluene-d8	102	%	70-130				
4-Bromofluorobenzene	115	%	70-130				
Dibromofluoromethane	106	%	70-130				
Blank Analysis for sample(s) 01 (WG234314-1)							
SVOC's by GC/MS 8270				1 8270C	0329 17:30	0331 11:04	RL
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	10.				
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	10.				
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				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0604263

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01 (WG234314-1)							
SVOC's by GC/MS 8270 cont'd				1 8270C	0329 17:30	0331 11:04	RL
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	10.				
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	20.				
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.				
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	10.				
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.				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0604263

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01 (WG234314-1)							
SVOC's by GC/MS 8270 cont'd				1 8270C	0329 17:30	0331 11:04	RL
2,4-Dinitrophenol	ND	ug/l	20.				
4,6-Dinitro-o-cresol	ND	ug/l	20.				
Pentachlorophenol	ND	ug/l	20.				
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	55.0	%	21-120				
Phenol-d6	47.0	%	10-120				
Nitrobenzene-d5	99.0	%	23-120				
2-Fluorobiphenyl	85.0	%	43-120				
2,4,6-Tribromophenol	92.0	%	10-120				
4-Terphenyl-d14	111	%	33-120				
Blank Analysis for sample(s) 01 (WG234094-1)							
Petroleum Hydrocarbon Quantitation by GC-FID				1 8015B(M)	0328 17:00	0329 18:35	AJ
TPH	ND	ug/l	500.				
Surrogate(s)	Recovery		QC Criteria				
o-Terphenyl	92.0	%	40-140				

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.
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.

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.



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

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 3/27

ALPHA Job #: LO604263

Client Information

Client: TRC
Address: 116 John St
Lowell, MA
Phone: 978-656-3688
Fax: 978-453-1985
Email: DMcGlinchey@TRCsolidations.com

Project Information

Project Name: Brookline
Project Location:
Project #: 49798
Project Manager:
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: 4/3 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 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:

Call Dot McGlinchey @ TRC w/ questions.

ANALYSIS		TOTAL # BOTTLES
Total Cr	Total Pb	
pH, Alk, Conductivity	TPH, DRP	
Sub C 5270	Sub C 5270	
Total Cr	Total Pb	

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

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials
-----------------------------	-----------	-----------------	------	---------------	--------------------

042630 PILOT-1		3/27/06	1530	GW	MDG	1112221
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PLEASE ANSWER QUESTIONS ABOVE!

Container Type
Preservative

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By:

Date/Time

Received By:

Date/Time

MDG
4/3/06

3/27/06 1200

3/27/06 1805

Karla Jones

3/27/06 1100
3/27/06 1805

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.

GROUNDWATER ANALYTICAL

Groundwater Analytical, Inc.
P.O. Box 1006
228 Main Street
Buzzards Bay MA 02532

Telephone: (508) 756-4441
FAX: (508) 756-4475
www.groundwateranalytical.com

December 20, 2005

Mr. Christopher Morris
Gale Associates, Inc.
163 Libbey Parkway
Weymouth, MA 02189

LABORATORY REPORT

Project: **Brookline/756660**
Lab ID: **90070**
Received: **12-13-05**

Dear Christopher:

Enclosed are the analytical results for the above referenced project. The project was processed for Priority turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NEIAC standards, except as may be specifically noted, or described in the project narrative. This report may only be used or reproduced in its entirety.

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

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,



Eric H. Jensen
Operations Manager

FHJ/smd
Enclosures

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project: **Brookline/756660**
Client: **Gale Associates, Inc.**
Lab ID: **90070**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **12-13-05**

Temperature: **2°C**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
90070-1	RW-1		Aqueous	12/9/05 9:00	EPA 624 Volatile Organics				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C620266	40 mL VOA Vial	Proline	BX16524	HCl	R-4297A	05-31-05	n/a		
C620260	40 mL VOA Vial	Proline	BX16524	HCl	R-4297A	05-31-05	n/a		
C620259	40 mL VOA Vial	Proline	BX16524	HCl	R-4297A	05-31-05	n/a		
C620258	40 mL VOA Vial	Proline	BX16524	HCl	R-4297A	05-31-05	n/a		
C620254	40 mL VOA Vial	Proline	BX16524	HCl	R-4297A	05-31-05	n/a		
C620253	40 mL VOA Vial	Proline	BX16524	HCl	R-4297A	05-31-05	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
90070-2	RW-1		Aqueous	12/9/05 9:00	EPA 625 Semivolatile Organics				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C748341	1 L Amber Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
90070-3	RW-1		Aqueous	12/9/05 9:00	EPA 6010B/7470A 8 RCRA Metals				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C694758	250 mL Plastic	Greenwood	BX18981	HNO3	n/a	n/a	11-01-05		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
90070-4	KW-1		Aqueous	12/13/05 9:25	EPA 6010B Cr Total EPA 7196/EPA 6010B Trivalent Chromium				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C768369	250 mL Plastic	Proline	BX19112	HNO3	R-4550E	12-07-05	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
90070-5	RW-1		Aqueous	12/9/05 9:00	SM 5520 CF Total Petroleum Hydrocarbons by IR				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C748342	1 L Amber Glass	n/a	n/a	H2SO4	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
90070-6	RW-1		Aqueous	12/13/05 9:25	SM 3500-Fe D Ferrous Iron EPA 7196A-Hexavalent Chromium				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C748343	250 mL Plastic	n/a	n/a	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

EPA Method 624 Volatile Organics by GC/MS

Field ID: RW-1
Project: Brookline/756660
Client: Gale Associates, Inc.
Laboratory ID: 90070-01
Sampled: 12-09-05 09:00
Received: 12-13-05 19:50
Analyzed: 12-16-05 08:35
Analyst: LMG

Matrix: Aqueous
Container: 40 mL VOA Vial
Preservation: HCl/Cool
QC Batch ID: VM1-1732-W1
Instrument ID: MS-1 HP 5890
Sample Volume: 5 mL
Dilution Factor: 2

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	20
74-87-3	Chloromethane	BRL		ug/L	20
75-01-4	Vinyl Chloride	BRL		ug/L	20
74-83-9	Bromomethane	BRL		ug/L	20
75-00-3	Chloroethane	BRL		ug/L	20
75-69-4	Trichlorofluoromethane	BRL		ug/L	20
107-02-8	Acrolein	BRL		ug/L	20
75-35-4	1,1-Dichloroethene	BRL		ug/L	10
67-64-1	Acetone	BRL		ug/L	100
75-15-0	Carbon Disulfide	BRL		ug/L	100
75-09-2	Methylene Chloride	BRL		ug/L	100
107-13-1	Acrylonitrile	BRL		ug/L	20
156-60-5	trans-1,2-Dichloroethene	BRL		ug/L	10
1634-04-4	Methyl tert-butyl Ether (MTBE)	310		ug/L	10
75-34-3	1,1-Dichloroethane	BRL		ug/L	10
108-05-4	Vinyl Acetate	BRL		ug/L	10
156-59-2	cis-1,2-Dichloroethene	BRL		ug/L	10
78-93-3	2-Butanone (MEK)	BRL		ug/L	100
67-66-3	Chloroform	BRL		ug/L	10
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	10
56-23-5	Carbon Tetrachloride	BRL		ug/L	10
71-43-2	Benzene	61		ug/L	10
107-06-2	1,2-Dichloroethane	BRL		ug/L	10
79-01-6	Trichloroethene	BRL		ug/L	10
78-87-5	1,2-Dichloropropane	BRL		ug/L	10
75-27-4	Bromodichloromethane	BRL		ug/L	10
110-75-8	2-Chloroethyl Vinyl Ether	BRL		ug/L	10
10061-01-5	cis-1,3-Dichloropropene	BRL		ug/L	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	100
108-88-3	Toluene	BRL		ug/L	10
10061-02-6	trans-1,3-Dichloropropene	BRL		ug/L	10
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	10
127-18-4	Tetrachloroethene	BRL		ug/L	10
591-78-6	2-Hexanone	BRL		ug/L	100
124-48-1	Dibromochloromethane	BRL		ug/L	10
108-90-7	Chlorobenzene	BRL		ug/L	10
100-41-4	Ethylbenzene	76		ug/L	10
108-38-3/106-42-3	meta-Xylene and para-Xylene	130		ug/L	10
95-47-6	ortho-Xylene	120		ug/L	10
100-42-5	Styrene	BRL		ug/L	10
75-25-2	Bromoform	BRL		ug/L	10
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	10
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	10
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	10
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	10

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	50	56	112 %	70 130 %
1,2-Dichloroethane-d ₄	50	54	102 %	70 130 %
Toluene-d ₈	50	62	118 %	70 130 %
4-Bromofluorobenzene	50	63	126 %	70 130 %

Method Reference: Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40 C.F.R. 136, Appendix A (1986).
Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

Groundwater Analytical, Inc., P.O. Box 1200, 228 Main Street, Buzzards Bay, MA 02532

GROUNDWATER ANALYTICAL

EPA Method 625 Semivolatile Organics by GC/MS

Field ID: RW-1
Project: Brookline/756660
Client: Gale Associates, Inc.

Laboratory ID: 90070-02
Sampled: 12-09-05 09:00
Received: 12-13-05 19:50
Extracted: 12-14-05 21:00
Analyzed: 12-20-05 12:50
Analyst: CMM

Matrix: Aqueous
Container: 1 L Amber Glass
Preservation: Cool

QC Batch ID: SV-1798-F
Instrument ID: MS-3 HP 5890
Sample Volume: 900 mL
Final Volume: 1 mL
Dilution Factor: 10

Page: 1 of 2

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
62-75-9	N-Nitrosodimethylamine	BRL		ug/L	110
110-86-1	Pyridine	BRL		ug/L	110
108-95-2	Phenol	BRL		ug/L	110
111-44-4	Bis(2-chloroethyl) ether	BRL		ug/L	110
95-57-8	2-Chlorophenol	BRL		ug/L	110
62-53-3	Aniline	BRL		ug/L	110
124-18-5	n-Decane (C10)	170		ug/L	110
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	110
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	110
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	110
108-60-1	Bis(2-chloroisopropyl) ether	BRL		ug/L	110
95-48-7	2-Methylphenol	BRL		ug/L	110
621-64-7	N-Nitrosodi-n-propylamine	BRL		ug/L	110
106-39-4/106-44-5	3 and 4-Methylphenol	BRL		ug/L	110
67-72-1	Hexachloroethane	BRL		ug/L	110
98-86-2	Acetophenone	BRL		ug/L	110
98-95-3	Nitrobenzene	BRL		ug/L	110
78-59-1	Isophorone	BRL		ug/L	110
88-75-5	2-Nitrophenol	BRL		ug/L	110
105-67-9	2,4-Dimethylphenol	BRL		ug/L	110
65-85-0	Benzoic Acid	BRL		ug/L	110
111-91-1	Bis(2-chloroethoxy) methane	BRL		ug/L	110
120-03-2	2,4-Dichlorophenol	BRL		ug/L	110
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	110
98-55-5	alpha-Terpineol	BRL		ug/L	110
91-20-3	Naphthalene	390		ug/L	110
87-68-3	Hexachlorobutadiene	BRL		ug/L	110
59-50-7	4-Chloro-3-methylphenol	BRL		ug/L	110
77-47-4	Hexachlorocyclopentadiene	BRL		ug/L	110
608-27-5	2,3-Dichloroaniline	BRL		ug/L	110
88-06-2	2,4,6-Trichlorophenol	BRL		ug/L	110
91-58-7	2-Chloronaphthalene	BRL		ug/L	110
131-11-3	Dimethyl phthalate	BRL		ug/L	110
208-96-8	Acenaphthylene	BRL		ug/L	110
606-20-2	2,6-Dinitrotoluene	BRL		ug/L	110
83-32-9	Acenaphthene	BRL		ug/L	110
51-28-5	2,4-Dinitrophenol	BRL		ug/L	110
100-02-7	4-Nitrophenol	BRL		ug/L	110
121-14-2	2,4-Dinitrotoluene	BRL		ug/L	110
84-66-2	Diethyl phthalate	BRL		ug/L	110
7005-72-3	4-Chlorophenyl phenyl ether	BRL		ug/L	110
86-73-7	Fluorene	BRL		ug/L	110
534-52-1	4,6-Dinitro-2-methylphenol	BRL		ug/L	110
86-30-6	N-Nitrosodiphenylamine [†]	BRL		ug/L	110
122-66-7	1,2-Diphenylhydrazine [°]	BRL		ug/L	110

Page 4 of 22

EPA Method 625 (Continued) Semivolatile Organics by GC/MS

Field ID: RW-1
Project: Brookline/756660
Client: Gale Associates, Inc.

Laboratory ID: 90070-02
Sampled: 12-09-05 09:00
Received: 12-13-05 19:50
Extracted: 12-14-05 21:00
Analyzed: 12-20-05 12:50
Analyst: CMM

Matrix: Aqueous
Container: 1 L Amber Glass
Preservation: Cool

QC Batch ID: SV-1798-F
Instrument ID: MS-3 HP 5890
Sample Volume: 900 mL
Final Volume: 1 mL
Dilution Factor: 10

Page: 2 of 2

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
101-55-3	4-Bromophenyl phenyl ether	BRL		ug/L	110
118-74-1	Hexachlorobenzene	BRL		ug/L	110
87-86-5	Pentachlorophenol	BRL		ug/L	110
593-45-3	n-Octadecane (C18)	450		ug/L	110
85-01-8	Phenanthrene	89	i	ug/L	110
120-12-7	Anthracene	BRL		ug/L	110
86-74-8	Carbazole	BRL		ug/L	110
84-74-2	Di-n-butyl phthalate	BRL		ug/L	110
206-44-0	Fluoranthene	BRL		ug/L	110
92-87-5	Benzidine	BRL		ug/L	110
129-00-0	Pyrene	BRL		ug/L	110
85-68-7	Butyl benzyl phthalate	BRL		ug/L	110
91-94-1	3,3'-Dichlorobenzidine	BRL		ug/L	110
56-55-3	Benzo[a]anthracene	BRL		ug/L	110
218-01-9	Chrysene	BRL		ug/L	110
117-81-7	Bis(2-ethylhexyl) phthalate	BRL		ug/L	110
117-84-0	Di-n-octyl phthalate	BRL		ug/L	110
205-99-2	Benzo[b]fluoranthene	BRL		ug/L	110
207-08-9	Benzo[k]fluoranthene	BRL		ug/L	110
50-32-8	Benzo[a]pyrene	BRL		ug/L	110
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/L	110
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/L	110
191-24-2	Benzo[g,h,i]perylene	BRL		ug/L	110

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2-Fluorophenol	220	140	65 %	15 - 110 %
Phenol-d5	220	120	54 %	15 - 110 %
Nitrobenzene-d5	110	120	108 %	30 - 130 %
2-Fluorobiphenyl	110	100	93 %	30 - 130 %
2,4,6-Tribromophenol	220	270	120 % m	15 - 110 %
Terphenyl-d14	110	110	100 %	30 - 130 %

Method Reference: Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, US EPA, 40 C.F.R. 136, Appendix A, (1986).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
+ Reported as sum of N-Nitrosodiphenylamine and Diphenylamine.
◇ Analyzed as Azobenzene.
m Surrogate recovery outside recommended limits due to sample matrix interference.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID: RW-1
Project: Brookline/756660
Client: Ciale Associates, Inc.

Matrix: Aqueous
Container: 250 mL Plastic
Preservation: HNO₃ / Cool
Preserved: 12-13-05 19:50

Laboratory ID: 90070-03
Sampled: 12-09-05 09:00
Received: 12-13-05 19:50

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B ¹	MB-1845-W	EPA 3010A	12-15-05 08:00	50 mL	ICP 1 PE 3000	MWR
EPA 7470A ²	MP-1775-W	EPA 7470A	12-15-05 11:30	25 mL	CVAA-1 PE FIMS	MFP

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	0.01		mg/L	0.01	1	12-16-05 12:23	EPA 6010B ¹
7440-39-3	Barium, Total	BRL		mg/L	0.2	1	12-16-05 12:23	EPA 6010B ¹
7440-43-9	Cadmium, Total	BRL		mg/L	0.005	1	12-19-05 13:04	EPA 6010B ¹
7440-47-3	Chromium, Total	BRL		mg/L	0.01	1	12-16-05 12:23	EPA 6010B ¹
7439-92-1	Lead, Total	0.028		mg/L	0.005	1	12-19-05 13:04	EPA 6010B ¹
7439-97-6	Mercury, Total	BRL		mg/L	0.0002	1	12-15-05 13:36	EPA 7470A ²
7782-49-2	Selenium, Total	BRL		mg/L	0.05	1	12-16-05 12:23	EPA 6010B ¹
7440-22-4	Silver, Total	BRL		mg/L	0.0017	1	12-16-05 12:23	EPA 6010B ¹

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID: RW-1
Project: Brookline/756660
Client: Gale Associates, Inc.

Matrix: Aqueous
Container: 250 mL Plastic
Preservation: HNO₃ / Cool
Preserved: 12-13-05 19:50

Laboratory ID: 90070-04
Sampled: 12-13-05 09:25
Received: 12-13-05 19:50

<u>Analysis Method</u>	<u>QC Batch ID</u>	<u>Prep Method</u>	<u>Prepared</u>	<u>Sample Volume</u>	<u>Instrument ID</u>	<u>Analyst</u>
EPA 6010B ¹	MB-1845-VV	EPA 3010A	12-15-05 08:00	50 mL	ICP 1 PE 3000	MWR

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-47-3	Chromium, Total	BRL		mg/L	0.01	1	12-16-05 12:26	EPA 6010B ¹
N/A	Chromium, Trivalent	BRL		mg/L	0.01	1	12-16-05 12:26	EPA 6010B ¹

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
DF Dilution Factor.

Inorganic Chemistry

Field ID: RW-1
Project: Brookline/756660
Client: Gale Associates, Inc.

Matrix: Aqueous
Received: 12-13-05 19:50

Lab ID: 90070-05 Sampled: 12-09-05 09:00 Container: 1 L Amber Glass Preservation: H2SO4/Cool

Analyte	Result	Units	RL	DF	Volume	Analyzed	QC Batch	Method	Inst	Analyst
Total Petroleum Hydrocarbons	22	mg/L	0.5	1	1000 mL	12-16-05 10:30	HL-1345-W	SM 5520 CF	3	MW

Lab ID: 90070-06 Sampled: 12-13-05 09:25 Container: 250 mL Plastic Preservation: Cool

Analyte	Result	Units	RL	DF	Volume	Analyzed	QC Batch	Method	Inst	Analyst
Chromium, Hexavalent	BRL	mg/L	0.01	1	5 mL	12-14-05 17:44	HC-0238-W	EPA 7196A	1	JK
Iron, Ferrous	9	mg/L	1	5	5 mL	12-14-05 15:00	FI-0153-W	SM 3500-Fe B	2	JK

Method Reference: Methods for Chemical Analysis of Water and Wastes, US EPA, EPA-600/4-790-020 (Revised 1983), and Methods for the Determination of Inorganic Substances in Environmental Samples, US EPA, EPA/600/R-93/100 (1993), and Standard Methods for the Examination of Water and Wastewater, APHA, Twentieth Edition (1998), and Test Methods for Evaluating Solid Waste, US EPA, SW 846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

RL Reporting Limit.

DF Dilution Factor.

1 Instrument ID: Lachat 8000 Autoanalyzer

2 Instrument ID: Milton Roy Spectronic 401

3 Instrument ID: PF 1625 FT-IR

Project Narrative

Project: **Brookline/756660**
Client: **Gale Associates, Inc.**

Lab ID: **90070**
Received: **12-13-05 19:50**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. Sample 90070-04 was analyzed for Trivalent Chromium, per Chris Morris, 12-14-05.
2. Sample 90070-06 was analyzed for Hexavalent Chromium and Ferrous Iron, per Chris Morris, 12-14-05.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 624 Note: Sample 90070-01. Sample was diluted prior to analysis. Dilution was required to keep all target analytes within calibration.
2. EPA 625 Note: Sample 90070-02. Sample was diluted prior to analysis. Dilution was required to keep all target analytes within calibration.
3. EPA 625 Non-conformance: Sample 90070-02. Sample had a surrogate recovery outside recommended limits due to sample matrix interference.
4. Sample 90070-05 for TPII by IR analysis was received without preservation. The sample was preserved with H2SO4 by the laboratory upon receipt.
5. Sample 90070-03 for Total Metals analysis was received without preservation. The samples were preserved with HNO3 by the laboratory upon receipt.
6. EPA 625 Non-conformance: Method Blank had a surrogate recovery above recommended limits for QC Batch SV-1798-F.



Gale Associates, Inc.

163 Libbey Parkway | P.O. Box 890189 | Weymouth, MA 02189-0004
P 781.335.6465 F 781.335.6467 www.gainc.com

December 27, 2005

Natural Heritage & Endangered Species Program
Massachusetts Division of Fisheries & Wildlife
North Drive
Westborough, MA 01581

Re: Request for Determination of Species
Brookline Place
Brookline, MA
Gale JN 756660

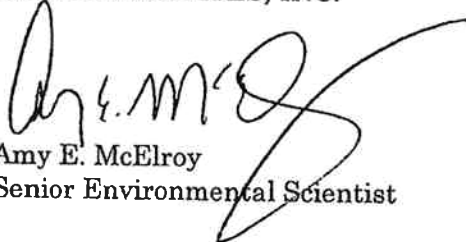
To Whom It May Concern:

Enclosed please find a check in the amount of \$50.00 and the MESA Information Request Form for a site-specific review of endangered species in the area of the referenced Property.

Thank you for your assistance in this matter. Please do not hesitate to call with questions or comments. Thank you.

Very truly yours,

GALE ASSOCIATES, INC.



Amy E. McElroy
Senior Environmental Scientist

AEM/gmc

Enclosure

G:\756660\NOI NPDES\fishandwildlife.doc

Boston
Baltimore
Orlando
San Francisco

MESA Information Request Form

Please complete this form to request site-specific information from the Natural Heritage & Endangered Species Program
(Please submit only one project per request form).

Please include a check for \$50.00 made out to the Natural Heritage & Endangered Species Fund.*

Requestor Information

Name: Amy McElroy

Affiliation: Gale Associates, Inc.

Address: 163 Libbey Parkway

City: Weymouth

State: MA

Zip Code: 02189

Daytime Phone: 781-335-6465 Ext. 223

Project Information

Project or Site Name: 10 Brookline Place

Location: 10 Brookline Pl. Brookline, MA USGS Quad: Boston South

Name of Landowner or Project Proponent:

Acreage of the Property:

2 Acres

Description of Proposed Project and Current Site Conditions: (If necessary attach additional sheet)

Groundwater remediation & NPDES

- ☐ Will this project be reviewed as a Notice of Intent by the local Conservation Commission? NO
- ☐ Will this project be undergoing MEPA review for reasons other than rare species? NO
- ☐ Have you enclosed the required copy of a USGS topographic map in the scale 1:24,000 or 1:25,000 (not copy reduced) with the site location clearly marked and centered on the copy page? (Copies of Natural Heritage Atlas pages are not accepted) YES

Please mail this completed form and topographic map to:

Regulatory Review
Natural Heritage and Endangered Species Program
MA Division of Fisheries and Wildlife
North Drive, Rte. 135
Westborough, MA 01581

Questions regarding this form should be directed to (508) 792-7270 ext. 154

Persons requesting information will receive a written response within 30 days of receipt of all information required. Please do not ask for an expedited review. *If you are requesting information for habitat management or conservation purposes and you are a non-profit conservation group, government agency or working with a government agency please fill out a Data Release Form.



Gale Associates, Inc.
163 Libbey Parkway | P. O. Box 890189
Weymouth MA 02189-0004
P 781.335-6465 F 781.335.6467

Citizens Bank
Boston, MA
5-7017 / 2110

070826

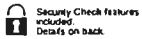
CHECK DATE
December 29, 2005

PAY Fifty and 00/100 Dollars

AMOUNT \$50.00

TO NATURAL HERITAGE & ENDANGERED
SPECIES FUND
MASS DIVISION OF FISHERIES & WILDLIFE
NORTH DRIVE
WESTBOROUGH MA 01581

AUTHORIZED SIGNATURE



⑈070826⑈ ⑆211070175⑆ 1101090240⑈

Gale Associates, Inc.
163 Libbey Parkway | P. O. Box 890189
Weymouth MA 02189-0004
P 781.335-6465 F 781.335.6467

EMILY BUSINESS FORMS 800.392.6018 ADVANTAGE

070826

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
0512290	12/29/05	0056587	50.00			50.00
MASS FISHERIES & WILDLIFE 001 1			Totals	50.00		50.00