

Omni Environmental Group

Environmental Consulting and Compliance Services

September 25, 2006

Project: 3659

U.S. Environmental Protection Agency
RGP-NOC Processing
Municipal Assistance Unit (CMU)
One Congress Street, Suite 1100
Boston, MA 02114-2023

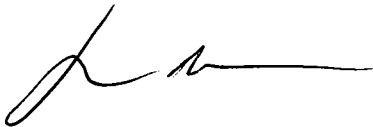
Re: RGP Notice of Intent
Former Ginn Oil Facility
57 Winn Street
Woburn, Massachusetts

To Whom It May Concern:

Omni Environmental Group, on behalf of Harris Cohen, is submitting the attached Notice of Intent for coverage under the National Pollutant Discharge Elimination System Remediation General Permit. The Notice of Intent is for the discharge of treated ground water generated during construction dewatering at 57 Winn Street in Woburn, Massachusetts.

If you should need any additional information, please feel free to contact me at (978) 256-6766.

Sincerely,
Omni Environmental Group



Jonathan S. Moore, L.S.P.
Principal

attachment

cc: Massachusetts Department of Environmental Protection – Northeast Regional Office

Address of operator (if different from owner):		Street: 20 Peachtree Road	
Town: Lexington	State: MA	Zip: 02420	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 #: 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: RTN 3-19134 2. permit or license # assigned: 3. state agency contact information: name, location, and telephone number: MADEP - NERO 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: Groundwater recovery and treatment system to be operated during construction excavation dewatering at an MCP listed site- treatment system consists of two granular activated carbon vessels, directing discharge to the local storm sewer system. Storm sewer discharges to Horn Pond which ultimately flows to the Mystic River.		
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 0.02 Average flow 0.02 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. estimated flow rate
3) Latitude and longitude of each discharge within 100 feet: pt.1:long. lat. ; 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.		

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 : Former Ginn Oil Company		Facility/site address: 57 Winn Street Woburn MA	
Location of facility/site : longitude: <u>71919</u> latitude: <u>42285</u>	Facility SIC code(s): 5541	Street: 57 Winn Street	
b) Name of facility/site owner : Harris Cohen - former property owner		Town: Woburn	
Email address of owner: rcohen20@rcn.com		State: MA	Zip: 01801
Telephone no. of facility/site owner :		County: Middlesex	
Fax no. of facility/site owner :		Owner is (check one): 1. Federal ____ 2. State/Tribal ____ 3. Private ☒ 4. other, if so, describe:	
Address of owner (if different from site):			
Street: 20 Peachtree Road			
Town: Lexington	State: MA	Zip: 02452	County: Middlesex
c) Legal name of operator : Former Ginn Oil	Operator telephone no: (781) 862-6856		
	Operator fax no.:		Operator email: rcohen20@rcn.com
Operator contact name and title: Harris Cohen			

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>10/16/06</u> end <u>11/15/06</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).	

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 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)
1. Total Suspended Solids		✓	1	grab	160.2	5 mg/l	5.1			
2. Total Residual Chlorine	✓		1	grab	330.5	.05mg/l				
3. Total Petroleum Hydrocarbons		✓	1	grab	1664A	4.0	ND			
4. Cyanide	✓		1	grab	335.2	.005mg/				
5. Benzene		✓	1	grab	624	1.0	ND			
6. Toluene		✓	1	grab	624	1.0	ND			
7. Ethylbenzene		✓	1	grab	624	1.0	ND			
8. (m,p,o) Xylenes		✓	1	grab	624	2.0	ND			
9. Total BTEX ⁴		✓	1	grab	624	2.0	ND			

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)	✓		1	grab	624	0.019				
11. Methyl-tert-Butyl Ether (MtBE)		✓	1	grab	8260B	20	23			
12. tert-Butyl Alcohol (TBA)	✓		1	grab	8260B	100				
13. tert-Amyl Methyl Ether (TAME)	✓		1	grab	8260b	20				
14. Naphthalene	✓		1	grab	8270	5.0				
15. Carbon Tetra-chloride	✓		1	grab	624	1.0				
16. 1,4 Dichlorobenzene	✓		1	grab	624	5.0				
17. 1,2 Dichlorobenzene	✓		1	grab	624	5.0				
18. 1,3 Dichlorobenzene	✓		1	grab	624	5.0				
19. 1,1 Dichloroethane	✓		1	grab	624	1.5				
20. 1,2 Dichloroethane	✓		1	grab	624	1.5				
21. 1,1 Dichloroethylene	✓		1	grab	624	1.0				
22. cis-1,2 Dichloro-ethylene	✓		1	grab	624	1.0				
23. Dichloromethane (Methylene Chloride)	✓		1	grab	624	5.0				
24. Tetrachloroethylene	✓		1	grab	624	1.5				

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	✓		1	grab	624	2.0				
26. 1,1,2 Trichloroethane	✓		1	grab	624	1.5				
27. Trichloroethylene	✓		1	grab	624	1.0				
28. Vinyl Chloride	✓		1	grab	624	2.0				
29. Acetone	✓		1	grab	624	10				
30. 1,4 Dioxane	✓		1	grab	8260B	2000				
31. Total Phenols	✓		1	grab	420.1	0.03				
32. Pentachlorophenol	✓		1	grab	8270	20				
33. Total Phthalates ⁵ (Phthalate esters)	✓		1	grab	8270	5.0				
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓		1	grab	8270	10				
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✓		1	grab	8270	5.0				
a. Benzo(a) Anthracene	✓		1	grab	8270	5.0				
b. Benzo(a) Pyrene	✓		1	grab	8270	5.0				
c. Benzo(b) Fluoranthene	✓		1	grab	8270	5.0				
d. Benzo(k) Fluoranthene	✓		1	grab	8270	5.0				
e. Chrysene	✓		1	grab	8270	5.0				

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	✓		1	grab	8270	5.0				
g. Indeno(1,2,3-cd) Pyrene	✓		1	grab	8270	7.0				
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	✓		1	grab	8270	4.8				
h. Acenaphthene	✓		1	grab	8270	0.97				
i. Acenaphthylene	✓					0.97				
j. Anthracene	✓		1	grab	8270	0.97				
k. Benzo(ghi) Perylene	✓		1	grab	8270	5.0				
l. Fluoranthene	✓		1	grab	8270	5.0				
m. Fluorene	✓		1	grab	8270	5.0				
n. Naphthalene-	✓		1	grab	8270	5.0				
o. Phenanthrene	✓		1	grab	8270	0.97				
p. Pyrene	✓		1	grab	8270	5.0				
37. Total Polychlorinated Biphenyls (PCBs)	✓		1	grab		0.255				
38. Antimony	✓		1	grab	6020	0.0005				
39. Arsenic		✓	1	grab	6020	0.0005	2.4			
40. Cadmium	✓		1	grab	6020	0.0005				
41. Chromium III	✓		1	grab	6020	0.0005				
42. Chromium VI	✓		1	grab	3500C	0.02				

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: The treatment system will remove petroleum present in the groundwater. Groundwater will be pumped from an excavation as part of construction dewatering. The ground water will be stored in a frac tank prior to treatment. The treatment system will consist of a bag filter to remove particulates followed by two liquid phase granular activated carbon treatment vessels. Each vessel will contain 200 pounds of activated carbon and the vessels will be plumbed in series. Discharge will be directed to a storm drain located on Winn Street. The ultimate discharge location of the storm sewer is Horn Pond located approximately 3000 feet south of the site.						
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>5-10</u> Maximum flow rate of treatment system <u>15</u> Design flow rate of treatment system <u>10</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 <u>✓</u>	River/brook _____	Wetlands _____	Other (describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters: The discharge is connected to the City of Woburn storm drain system. The storm drain runs from the site down Winn Street, to Pleasant Street, to Arlington Street and discharges to Horn Pond.						

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 B

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 0.28 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 No ✓ If yes, for which pollutant(s)?

Is there a TMDL? Yes No ✓ 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 No ✓

Has any consultation with the federal services been completed? No ✓ or is consultation underway? Yes No ✓

What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (check one):

a "no jeopardy" opinion? or written concurrence 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 No ✓ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes No ✓

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.

Numerous assessment activities previously completed at the site indicate the subsurface is impacted with gasoline, diesel fuel and/or fuel oil. The source of the petroleum appears to be historic releases from a number of different underground storage tanks systems that were formerly located at the property. As part of the remediation of the site, an area of impacted soil will be excavated in the northeast portion of the site adjacent to two former underground storage tank areas (refer to the attached site plan). Dewatering of petroleum impacted ground water will be necessary as part of the soil excavation.

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: Former Ginn Oil

Operator signature:

Title: Former Owner

Date:

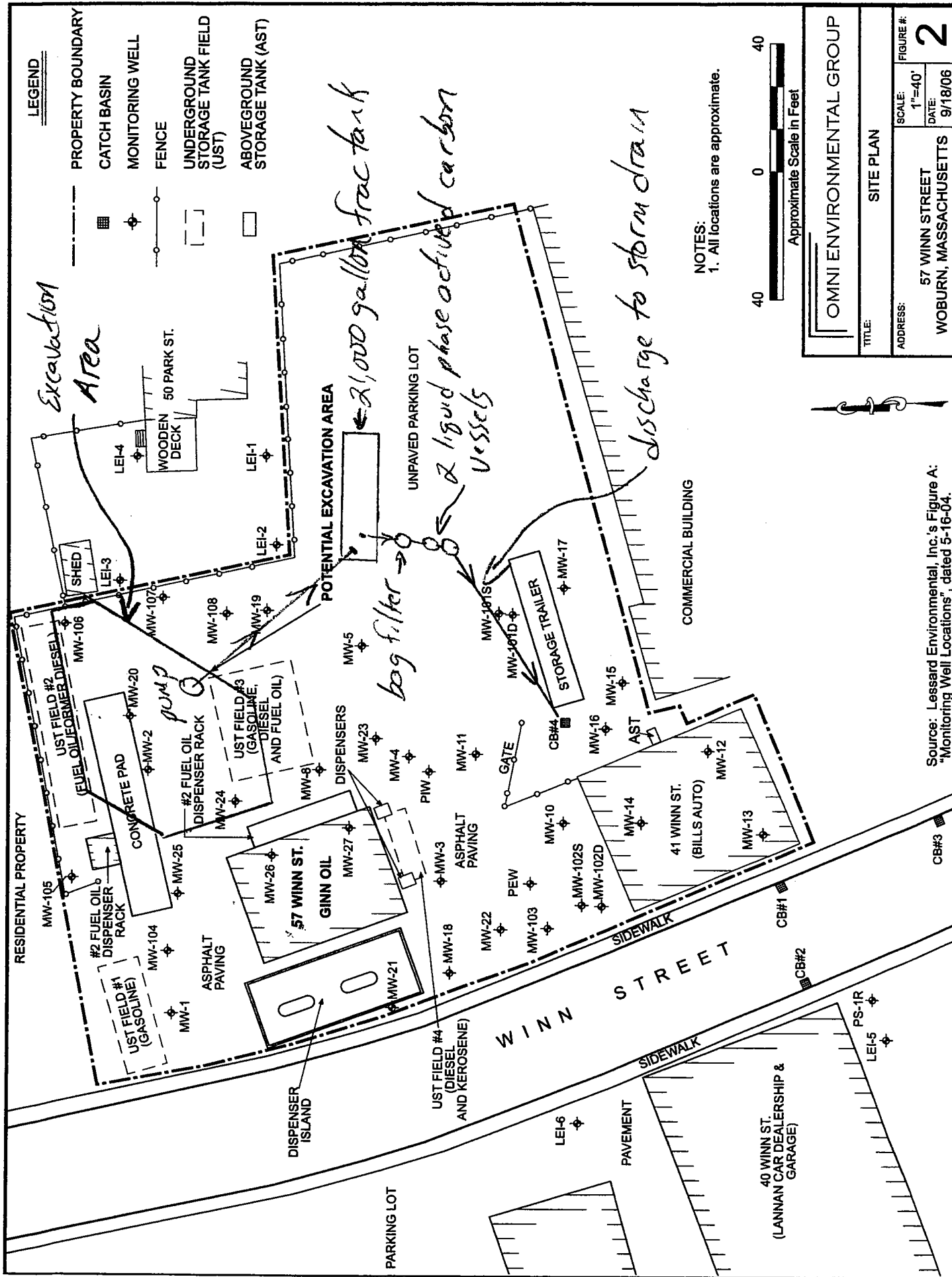
9/22/06



SOURCE:
United States Geological Survey quadrangle map for
Boston N, Massachusetts, dated 1985



OMNI ENVIRONMENTAL GROUP		
TITLE: SITE LOCUS		
ADDRESS:	DATE:	FIGURE:
57 WINN STREET	5/23/06	1
WOBBURN, MASSACHUSETTS	SCALE: See SCALE	



Source: Lessard Environmental, Inc.'s Figure A:
"Monitoring Well Locations", dated 5-16-04.

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: Omni Environmental Group

Laboratory Job Number: L0612794

Address: 227 Chelmsford Street

Chelmsford, MA 01824

Date Received: 08-SEP-2006

Attn: Mr. Jonathan Moore

Date Reported: 20-SEP-2006

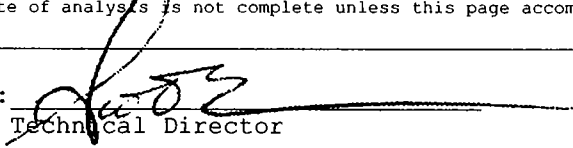
Project Number:

Delivery Method: Client

Site: WINN ST

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0612794-01	MW-108	WOBURN, MA
L0612794-02	UST HOLE	WOBURN, MA
L0612794-03	TRIP BLANK	WOBURN, MA

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: L0612794

Report Submission

This report replaces the report issued on September 15, 2006 to include the project specific list of compounds for Volatile Organics.

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.

PAH

L0612794-01 has elevated detection limits due to the 5x dilution required by the sample matrix.

SemiVolatile Organics

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

The MS/MSD % recoveries for Pentachlorophenol and the MS % recovery for 4-Nitrophenol are above the acceptance criteria for the method.

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: L0612794-01

MW-108

Sample Matrix: WATER

Date Collected: 08-SEP-2006 11:30

Date Received : 08-SEP-2006

Date Reported : 20-SEP-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M				1 8270C-M	0912 14:30	0914 12:36	RL
Acenaphthene	ND	ug/l	0.97				
2-Chloronaphthalene	ND	ug/l	0.97				
Fluoranthene	ND	ug/l	0.97				
Naphthalene	ND	ug/l	0.97				
Benzo(a)anthracene	ND	ug/l	0.97				
Benzo(a)pyrene	ND	ug/l	0.97				
Benzo(b)fluoranthene	ND	ug/l	0.97				
Benzo(k)fluoranthene	ND	ug/l	0.97				
Chrysene	ND	ug/l	0.97				
Acenaphthylene	ND	ug/l	0.97				
Anthracene	ND	ug/l	0.97				
Benzo(ghi)perylene	ND	ug/l	0.97				
Fluorene	ND	ug/l	0.97				
Phenanthrene	ND	ug/l	0.97				
Dibenzo(a,h)anthracene	ND	ug/l	0.97				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.97				
Pyrene	ND	ug/l	0.97				
1-Methylnaphthalene	ND	ug/l	0.97				
2-Methylnaphthalene	ND	ug/l	0.97				
Perylene	ND	ug/l	0.97				
Biphenyl	ND	ug/l	0.97				
Benzo(e)Pyrene	ND	ug/l	0.97				
Surrogate(s)	Recovery		QC Criteria				
Nitrobenzene-d5	80.0	%	23-120				
2-Fluorobiphenyl	76.0	%	43-120				
4-Terphenyl-d14	91.0	%	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: L0612794-02

UST HOLE

Sample Matrix: WATER

Date Collected: 08-SEP-2006 12:30

Date Received : 08-SEP-2006

Date Reported : 20-SEP-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 9-Amber,4-Plastic,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total Suspended	5.1	mg/l	5.0	4 160.2		0911 12:10	DW
Cyanide, Total	ND	mg/l	0.005	4 335.2	0912 09:00	0912 17:01	DD
Chlorine, Total Residual	ND	mg/l	0.05	4 330.1		0908 18:50	DP
pH	7.9	SU	-	4 150.1		0908 19:40	DP
TPH	ND	mg/l	4.00	74 1664A	0913 10:00	0913 16:00	AT
Phenolics, Total	ND	mg/l	0.03	4 420.1		0913 10:45	AT
Chromium, Hexavalent	ND	mg/l	0.02	30 3500CR-D	0908 19:45	0908 19:45	HS
Total Metals							
Antimony, Total	ND	mg/l	0.0005	1 6020	0911 15:30	0913 03:57	BM
Arsenic, Total	0.0024	mg/l	0.0005	1 6020	0911 15:30	0913 03:57	BM
Cadmium, Total	ND	mg/l	0.0005	1 6020	0911 15:30	0913 03:57	BM
Chromium, Total	ND	mg/l	0.0005	1 6020	0911 15:30	0913 03:57	BM
Copper, Total	0.0066	mg/l	0.0005	1 6020	0911 15:30	0913 03:57	BM
Iron, Total	0.28	mg/l	0.05	19 200.7	0911 15:30	0914 23:38	CF
Lead, Total	0.0031	mg/l	0.0005	1 6020	0911 15:30	0913 03:57	BM
Mercury, Total	ND	mg/l	0.0002	4 245.2	0911 15:25	0912 09:55	DM
Nickel, Total	0.0013	mg/l	0.0005	1 6020	0911 15:30	0913 03:57	BM
Selenium, Total	ND	mg/l	0.001	1 6020	0911 15:30	0913 03:57	BM
Silver, Total	ND	mg/l	0.0005	1 6020	0911 15:30	0913 03:57	BM
Zinc, Total	0.0092	mg/l	0.0050	1 6020	0911 15:30	0913 03:57	BM
Pesticides by GC 504							
1,2-Dibromoethane	ND	ug/l	0.019	14 504.1	0915 10:20	0915 14:35	AK
Volatile Organics by GC/MS 624							
Methylene chloride	ND	ug/l	5.0	5 624		0912 11:01	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				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0612794-02
UST HOLE

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 624 cont'd				5 624		0912 11:01 MM	
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				
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	23	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	100	%	80-120				
Fluorobenzene	98.0	%	80-120				
4-Bromofluorobenzene	105	%	80-120				
SVOC's by GC/MS 8270				1 8270C		0912 14:30 0913 16:51 RL	

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0612794-02
UST HOLE

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1 8270C	0912 14:30	0913 16:51	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				
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				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0612794-02
UST HOLE

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1 8270C	0912 14:30	0913 16:51	RL
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.				
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.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0612794-02
UST HOLE

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1 8270C	0912 14:30	0913 16:51	RL
Methyl methanesulfonate	ND	ug/l	20.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	48.0	%	21-120				
Phenol-d6	48.0	%	10-120				
Nitrobenzene-d5	86.0	%	23-120				
2-Fluorobiphenyl	80.0	%	43-120				
2,4,6-Tribromophenol	108	%	10-120				
4-Terphenyl-d14	111	%	33-120				
PAH by GC/MS SIM 8270M				1 8270C-M	0912 14:30	0914 04:14	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				
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	41.0	%	21-120				
Phenol-d6	38.0	%	10-120				
Nitrobenzene-d5	57.0	%	23-120				
2-Fluorobiphenyl	54.0	%	43-120				
2,4,6-Tribromophenol	73.0	%	10-120				
4-Terphenyl-d14	73.0	%	33-120				
Polychlorinated Biphenyls				5 608	0912 19:00	0914 22:49	AK

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0612794-02
UST HOLE

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Polychlorinated Biphenyls cont'd				5 608	0912 19:00	0914 22:49	AK
Aroclor 1016	ND	ug/l	0.255				
Aroclor 1221	ND	ug/l	0.255				
Aroclor 1232	ND	ug/l	0.255				
Aroclor 1242	ND	ug/l	0.255				
Aroclor 1248	ND	ug/l	0.255				
Aroclor 1254	ND	ug/l	0.255				
Aroclor 1260	ND	ug/l	0.255				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	65.0	%	30-150				
Decachlorobiphenyl	54.0	%	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: L0612794-03

TRIP BLANK

Sample Matrix:

WATER

Date Collected: 06-SEP-2006 20:35

Date Received : 08-SEP-2006

Date Reported : 20-SEP-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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***** THIS SAMPLE IS ON HOLD *****

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0612794

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Solids, Total Suspended for sample(s) 02 (L0612783-02, WG252738-2)					
Solids, Total Suspended	4600	4600	mg/l	0	20
Cyanide, Total for sample(s) 02 (L0612794-02, WG252911-4)					
Cyanide, Total	ND	ND	mg/l	NC	30
Chlorine, Total Residual for sample(s) 02 (L0612794-02, WG252708-3)					
Chlorine, Total Residual	ND	ND	mg/l	NC	
pH for sample(s) 02 (L0612778-01, WG252705-2)					
pH	7.5	7.5	SU	0	
TPH for sample(s) 02 (L0612726-01, WG253118-4)					
TPH	ND	ND	mg/l	NC	34
Phenolics, Total for sample(s) 02 (L0612726-01, WG253124-4)					
Phenolics, Total	0.39	0.38	mg/l	3	
Chromium, Hexavalent for sample(s) 02 (L0612794-02, WG252683-3)					
Chromium, Hexavalent	ND	ND	mg/l	NC	
Total Metals for sample(s) 02 (L0612794-02, WG252825-1)					
Antimony, Total	ND	ND	mg/l	NC	20
Arsenic, Total	0.0024	0.0024	mg/l	2	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Copper, Total	0.0066	0.0065	mg/l	2	20
Lead, Total	0.0031	0.0031	mg/l	2	20
Nickel, Total	0.0013	0.0012	mg/l	5	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Zinc, Total	0.0092	0.0092	mg/l	0	20
Total Metals for sample(s) 02 (L0612794-02, WG252826-1)					
Iron, Total	0.28	0.28	mg/l	0	
Total Metals for sample(s) 02 (L0612683-01, WG252814-3)					
Mercury, Total	ND	ND	mg/l	NC	
Volatile Organics by GC/MS 624 for sample(s) 02 (L0612691-01, WG252742-2)					
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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0612794

Continued

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Volatile Organics by GC/MS 624 for sample(s) 02 (L0612691-01, WG252742-2)					
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
XYLENE (TOTAL)	ND	ND	ug/l	NC	30
Styrene	ND	ND	ug/l	NC	30
Acetone	280	280	ug/l	0	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	108	104	%		80-120
Fluorobenzene	101	100	%		80-120
4-Bromofluorobenzene	98.0	102	%		80-120
Polychlorinated Biphenyls for sample(s) 02 (L0612794-02, WG253019-4)					
Aroclor 1016	ND	ND	ug/l	NC	30
Aroclor 1221	ND	ND	ug/l	NC	30
Aroclor 1232	ND	ND	ug/l	NC	30
Aroclor 1242	ND	ND	ug/l	NC	30
Aroclor 1248	ND	ND	ug/l	NC	30
Aroclor 1254	ND	ND	ug/l	NC	30

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0612794

Continued

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Polychlorinated Biphenyls for sample(s) 02 (L0612794-02, WG253019-4)					
Aroclor 1260	ND	ND	ug/l	NC	30
Surrogate(s)	Recovery				QC Criteria
2,4,5,6-Tetrachloro-m-xylene	65.0	59.0	%		30-150
Decachlorobiphenyl	54.0	61.0	%		30-150

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0612794

Parameter	% Recovery	QC Criteria
Cyanide, Total LCS for sample(s) 02 (WG252911-2)		
Cyanide, Total	103	90-110
Chlorine, Total Residual LCS for sample(s) 02 (WG252708-2)		
Chlorine, Total Residual	104	
pH LCS for sample(s) 02 (WG252705-1)		
pH	100	
TPH LCS for sample(s) 02 (WG253118-2)		
TPH	85	64-132
Phenolics, Total LCS for sample(s) 02 (WG253124-2)		
Phenolics, Total	95	
Chromium, Hexavalent LCS for sample(s) 02 (WG252683-2)		
Chromium, Hexavalent	97	
Total Metals LCS for sample(s) 02 (WG252825-4)		
Antimony, Total	94	80-120
Arsenic, Total	97	80-120
Cadmium, Total	102	80-120
Chromium, Total	98	80-120
Copper, Total	96	80-120
Lead, Total	99	80-120
Nickel, Total	99	80-120
Selenium, Total	92	80-120
Silver, Total	100	80-120
Zinc, Total	98	80-120
Total Metals LCS for sample(s) 02 (WG252826-4)		
Iron, Total	95	
Total Metals LCS for sample(s) 02 (WG252814-1)		
Mercury, Total	102	
Pesticides by GC 504 LCS for sample(s) 02 (WG253414-2)		
1,2-Dibromoethane	96	70-130
Volatile Organics by GC/MS 624 LCS for sample(s) 02 (WG252742-7)		
Methylene chloride	88	10-221
1,1-Dichloroethane	82	59-155
Chloroform	87	51-138
Carbon tetrachloride	87	70-140
1,2-Dichloropropane	84	10-210
Dibromochloromethane	95	53-149
1,1,2-Trichloroethane	96	52-150
2-Chloroethylvinyl ether	96	10-305
Tetrachloroethene	94	64-148

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0612794

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 624 LCS for sample(s) 02 (WG252742-7)		
Chlorobenzene	106	37-160
Trichlorofluoromethane	94	17-181
1,2-Dichloroethane	83	49-155
1,1,1-Trichloroethane	81	52-162
Bromodichloromethane	96	35-155
trans-1,3-Dichloropropene	92	17-183
cis-1,3-Dichloropropene	95	10-227
Bromoform	100	45-169
1,1,2,2-Tetrachloroethane	100	46-157
Benzene	88	37-151
Toluene	101	47-150
Ethylbenzene	111	37-162
Chloromethane	81	10-273
Bromomethane	99	10-242
Vinyl chloride	105	10-251
Chloroethane	101	14-230
1,1-Dichloroethene	90	10-234
trans-1,2-Dichloroethene	83	54-156
cis-1,2-Dichloroethene	82	60-140
Trichloroethene	84	71-157
1,2-Dichlorobenzene	100	18-190
1,3-Dichlorobenzene	100	59-156
1,4-Dichlorobenzene	103	18-190
p/m-Xylene	109	40-160
o-Xylene	109	40-160
XYLENE (TOTAL)	109	40-160
Styrene	102	40-160
Acetone	100	40-160
Carbon disulfide	89	40-160
2-Butanone	87	40-160
Vinyl acetate	61	40-160
4-Methyl-2-pentanone	105	40-160
2-Hexanone	105	40-160
Acrolein	126	40-160
Acrylonitrile	82	40-160
Surrogate(s)		
Pentafluorobenzene	103	80-120
Fluorobenzene	101	80-120
4-Bromofluorobenzene	100	80-120
SVOC's by GC/MS 8270 LCS for sample(s) 02 (WG252964-2)		
Acenaphthene	87	46-118
1,2,4-Trichlorobenzene	81	39-98
2-Chloronaphthalene	94	40-140
1,2-Dichlorobenzene	69	40-140
1,4-Dichlorobenzene	66	36-97
2,4-Dinitrotoluene	103	24-96

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0612794

Continued

Parameter	% Recovery	QC Criteria
SVOC's by GC/MS 8270 LCS for sample(s) 02 (WG252964-2)		
2,6-Dinitrotoluene	124	40-140
Fluoranthene	108	40-140
4-Chlorophenyl phenyl ether	97	40-140
n-Nitrosodi-n-propylamine	70	41-116
Butyl benzyl phthalate	109	40-140
Anthracene	77	40-140
Pyrene	104	26-127
Hexachloropropene	84	40-140
P-Chloro-M-Cresol	88	23-97
2-Chlorophenol	64	27-123
2-Nitrophenol	79	30-130
4-Nitrophenol	55	10-80
2,4-Dinitrophenol	98	30-130
Pentachlorophenol	100	9-103
Phenol	30	12-110
Surrogate(s)		
2-Fluorophenol	47	21-120
Phenol-d6	45	10-120
Nitrobenzene-d5	84	23-120
2-Fluorobiphenyl	92	43-120
2,4,6-Tribromophenol	101	10-120
4-Terphenyl-d14	112	33-120
PAH by GC/MS SIM 8270M LCS for sample(s) 01-02 (WG252966-2)		
Acenaphthene	75	46-118
2-Chloronaphthalene	63	
Fluoranthene	82	
Anthracene	71	
Pyrene	92	26-127
Pentachlorophenol	46	9-103
Surrogate(s)		
2-Fluorophenol	38	21-120
Phenol-d6	37	10-120
Nitrobenzene-d5	70	23-120
2-Fluorobiphenyl	58	43-120
2,4,6-Tribromophenol	70	10-120
4-Terphenyl-d14	97	33-120
Polychlorinated Biphenyls LCS for sample(s) 02 (WG253019-2)		
Aroclor 1016	67	40-140
Aroclor 1260	84	40-140
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	57	30-150
Decachlorobiphenyl	43	30-150

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0612794

Continued

Parameter	% Recovery	QC Criteria
Cyanide, Total SPIKE for sample(s) 02 (L0612794-02, WG252911-3)		
Cyanide, Total	108	80-120
TPH SPIKE for sample(s) 02 (L0612983-01, WG253118-3)		
TPH	86	64-132
Phenolics, Total SPIKE for sample(s) 02 (L0612726-02, WG253124-3)		
Phenolics, Total	97	
Chromium, Hexavalent SPIKE for sample(s) 02 (L0612819-02, WG252683-4)		
Chromium, Hexavalent	0	
Total Metals SPIKE for sample(s) 02 (L0612794-02, WG252825-2)		
Antimony, Total	94	80-120
Arsenic, Total	96	80-120
Cadmium, Total	103	80-120
Chromium, Total	99	80-120
Copper, Total	98	80-120
Lead, Total	99	80-120
Nickel, Total	99	80-120
Selenium, Total	92	80-120
Silver, Total	100	80-120
Zinc, Total	99	80-120
Total Metals SPIKE for sample(s) 02 (L0612794-02, WG252826-2)		
Iron, Total	102	
Total Metals SPIKE for sample(s) 02 (L0612683-01, WG252814-2)		
Mercury, Total	88	
Pesticides by GC 504 SPIKE for sample(s) 02 (L0612778-01, WG253414-3)		
1,2-Dibromoethane	90	
Volatile Organics by GC/MS 624 SPIKE for sample(s) 02 (L0612673-03, WG252742-1)		
Methylene chloride	80	10-221
1,1-Dichloroethane	78	59-155
Chloroform	80	51-138
Carbon tetrachloride	74	70-140
1,2-Dichloropropane	78	10-210
Dibromochloromethane	82	53-149
1,1,2-Trichloroethane	92	52-150
2-Chloroethylvinyl ether	94	10-305
Tetrachloroethene	91	64-148
Chlorobenzene	104	37-160
Trichlorofluoromethane	85	17-181
1,2-Dichloroethane	77	49-155
1,1,1-Trichloroethane	75	52-162
Bromodichloromethane	85	35-155
trans-1,3-Dichloropropene	73	17-183

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0612794

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 624 SPIKE for sample(s) 02 (L0612673-03, WG252742-1)		
cis-1,3-Dichloropropene	59	10-227
Bromoform	81	45-169
1,1,2,2-Tetrachloroethane	98	46-157
Benzene	82	35-151
Toluene	101	47-150
Ethylbenzene	108	37-162
Chloromethane	71	10-273
Bromomethane	47	10-242
Vinyl chloride	86	10-251
Chloroethane	88	14-230
1,1-Dichloroethene	82	10-234
trans-1,2-Dichloroethene	76	54-156
cis-1,2-Dichloroethene	79	60-140
Trichloroethene	79	71-157
1,2-Dichlorobenzene	97	18-190
1,3-Dichlorobenzene	97	59-156
1,4-Dichlorobenzene	98	18-190
p/m-Xylene	105	40-160
o-Xylene	106	40-160
XYLENE (TOTAL)	106	40-160
Styrene	99	40-160
Acetone	83	40-160
Carbon disulfide	74	40-160
2-Butanone	75	40-160
Vinyl acetate	65	40-160
4-Methyl-2-pentanone	100	40-160
2-Hexanone	98	40-160
Acrolein	110	40-160
Acrylonitrile	81	40-160
Surrogate(s)		
Pentafluorobenzene	105	80-120
Fluorobenzene	100	80-120
4-Bromofluorobenzene	101	80-120
Polychlorinated Biphenyls SPIKE for sample(s) 02 (L0612794-02, WG253019-3)		
Aroclor 1016	75	40-140
Aroclor 1260	86	40-140
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	58	30-150
Decachlorobiphenyl	61	30-150

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0612794

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
SVOC's by GC/MS 8270 for sample(s) 02 (L0612794-02, WG252964-4)					
Acenaphthene	84	79	6	30	46-118
1,2,4-Trichlorobenzene	79	74	7	30	39-98
2-Chloronaphthalene	94	89	5	30	40-140
1,2-Dichlorobenzene	64	64	0	30	40-140
1,4-Dichlorobenzene	64	59	8	30	36-97
2,4-Dinitrotoluene	108	106	10	30	24-96
2,6-Dinitrotoluene	130	130	0	30	40-140
Fluoranthene	110	110	0	30	40-140
4-Chlorophenyl phenyl ether	99	99	0	30	40-140
n-Nitrosodi-n-propylamine	69	64	8	30	41-116
Butyl benzyl phthalate	110	110	0	30	40-140
Anthracene	74	74	0	30	40-140
Pyrene	110	110	0	30	26-127
Hexachloropropene	84	74	13	30	40-140
P-Chloro-M-Cresol	94	92	2	30	23-97
2-Chlorophenol	64	62	3	30	27-123
2-Nitrophenol	82	74	10	30	30-130
4-Nitrophenol	81	79	4	30	10-80
2,4-Dinitrophenol	110	110	0	30	30-130
Pentachlorophenol	110	109	0	30	9-103
Phenol	42	40	5	30	12-110
Surrogate(s)					
2-Fluorophenol	55	53	4		21-120
Phenol-d6	65	61	6		10-120
Nitrobenzene-d5	83	78	6		23-120
2-Fluorobiphenyl	91	83	9		43-120
2,4,6-Tribromophenol	109	106	3		10-120
4-Terphenyl-d14	116	115	1		33-120
PAH by GC/MS SIM 8270M for sample(s) 01-02 (L0612794-02, WG252966-4)					
Acenaphthene	84	84	0	40	46-118
2-Chloronaphthalene	74	74	0	40	
Fluoranthene	94	99	5	40	
Anthracene	69	74	7	40	
Pyrene	100	110	10	40	26-127
Pentachlorophenol	67	72	7	40	9-103
Surrogate(s)					
2-Fluorophenol	55	56	2		21-120
Phenol-d6	62	60	3		10-120
Nitrobenzene-d5	81	75	8		23-120
2-Fluorobiphenyl	77	73	5		43-120
2,4,6-Tribromophenol	80	86	7		10-120
4-Terphenyl-d14	101	101	0		33-120

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0612794

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02 (WG252738-1)							
Solids, Total Suspended	ND	mg/l	5.0	4	160.2		0911 12:10 DW
Blank Analysis for sample(s) 02 (WG252911-1)							
Cyanide, Total	ND	mg/l	0.005	4	335.2	0912 09:00	0912 16:52 DD
Blank Analysis for sample(s) 02 (WG252708-1)							
Chlorine, Total Residual	ND	mg/l	0.05	4	330.1		0908 18:50 DP
Blank Analysis for sample(s) 02 (WG253118-1)							
TPH	ND	mg/l	4.00	74	1664A	0913 10:00	0913 16:00 AT
Blank Analysis for sample(s) 02 (WG253124-1)							
Phenolics, Total	ND	mg/l	0.03	4	420.1		0913 10:45 AT
Blank Analysis for sample(s) 02 (WG252683-1)							
Chromium, Hexavalent	ND	mg/l	0.02	30	3500CR-D	0908 19:45	0908 19:45 HS
Blank Analysis for sample(s) 02 (WG252825-3)							
Total Metals							
Antimony, Total	ND	mg/l	0.0005	1	6020	0911 15:30	0913 03:19 BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0911 15:30	0913 03:19 BM
Cadmium, Total	ND	mg/l	0.0005	1	6020	0911 15:30	0913 03:19 BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0911 15:30	0913 03:19 BM
Copper, Total	ND	mg/l	0.0005	1	6020	0911 15:30	0913 03:19 BM
Lead, Total	ND	mg/l	0.0005	1	6020	0911 15:30	0913 03:19 BM
Nickel, Total	ND	mg/l	0.0005	1	6020	0911 15:30	0913 03:19 BM
Selenium, Total	ND	mg/l	0.001	1	6020	0911 15:30	0913 03:19 BM
Silver, Total	ND	mg/l	0.0005	1	6020	0911 15:30	0913 03:19 BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0911 15:30	0913 03:19 BM
Blank Analysis for sample(s) 02 (WG252826-3)							
Total Metals				19		200.7	
Iron, Total	ND	mg/l	0.05	19	200.7	0911 15:30	0914 23:01 CF

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0612794

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02 (WG252814-4)							
Total Metals							
Mercury, Total	ND	mg/l	0.0002	4 245.2	0911 15:25	0912 09:31	DM
Blank Analysis for sample(s) 02 (WG253414-1)							
Pesticides by GC 504				14 504.1	0915 10:20	0915 12:43	AK
1,2-Dibromoethane	ND	ug/l	0.020				
Blank Analysis for sample(s) 02 (WG252742-8)							
Volatile Organics by GC/MS 624				5 624		0912 10:24	MM
Methylene chloride	ND	ug/l	5.0				
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				
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.				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0612794

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ID ANAL
Blank Analysis for sample(s) 02 (WG252742-8)						
Volatile Organics by GC/MS 624 cont'd				5 624		0912 10:24 MM
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	100	%	80-120			
Fluorobenzene	100	%	80-120			
4-Bromofluorobenzene	103	%	80-120			
Blank Analysis for sample(s) 02 (WG252742-8)						
Volatile Organics by GC/MS 624				5 624		0912 10:24 MM
Tentatively Identified Compounds						
No Tentatively Identified						
Compounds	ND	ug/l				
Blank Analysis for sample(s) 02 (WG252964-1)						
SVOC's by GC/MS 8270				1 8270C		0912 14:30 0913 15:11 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.			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0612794

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02 (WG252964-1)							
SVOC's by GC/MS 8270 cont'd				1 8270C	0912 14:30	0913 15:11	RL
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				
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.				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0612794

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02 (WG252964-1)							
SVOC's by GC/MS 8270 cont'd				1 8270C	0912 14:30	0913 15:11	RL
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.				
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	46.0	%	21-120				
Phenol-d6	42.0	%	10-120				
Nitrobenzene-d5	78.0	%	23-120				
2-Fluorobiphenyl	70.0	%	43-120				
2,4,6-Tribromophenol	78.0	%	10-120				
4-Terphenyl-d14	87.0	%	33-120				
Blank Analysis for sample(s) 01-02 (WG252966-1)							
PAH by GC/MS SIM 8270M				1 8270C-M	0912 14:30	0913 18:20	RL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	ND	ug/l	0.20				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0612794

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02 (WG252966-1)							
PAH by GC/MS SIM 8270M cont'd				1 8270C-M	0912 14:30	0913 18:20	RL
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				
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	40.0	%	21-120				
Phenol-d6	36.0	%	10-120				
Nitrobenzene-d5	56.0	%	23-120				
2-Fluorobiphenyl	52.0	%	43-120				
2,4,6-Tribromophenol	60.0	%	10-120				
4-Terphenyl-d14	71.0	%	33-120				
Blank Analysis for sample(s) 02 (WG253019-1)							
Polychlorinated Biphenyls				5 608	0912 19:00	0914 20:54	AK
Aroclor 1016	ND	ug/l	0.250				
Aroclor 1221	ND	ug/l	0.250				
Aroclor 1232	ND	ug/l	0.250				
Aroclor 1242	ND	ug/l	0.250				
Aroclor 1248	ND	ug/l	0.250				
Aroclor 1254	ND	ug/l	0.250				
Aroclor 1260	ND	ug/l	0.250				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0612794

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02 (WG253019-1)							
Polychlorinated Biphenyls cont'd				5 608	0912 19:00	0914 20:54	AK
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	62.0	%		30-150			
Decachlorobiphenyl	64.0	%		30-150			

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

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4. Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
5. Methods for the Organic Chemical Analysis of Municipal and Industrial Wastewater. Appendix A, Part 136, 40 CFR (Code of Federal Regulations).
14. Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. EPA/600/4-88/039, Revised July 1991.
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.
74. Method 1664, Revision A: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-98-002, February 1999.

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

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.

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