

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: Highgate Associates Realty Trust		Facility/site address: 1105 East Street, Dedham, Massachusetts	
Location of facility/site: longitude: <u>71095</u> latitude: <u>42133</u>	Facility SIC code(s): 7538	Street: 1105 East Street	
b) Name of facility/site owner: Norman Thomas		Town: Dedham	
Email address of owner:	State: MA	Zip: 02026	County: Norfolk
Telephone no. of facility/site owner: (781) 308-4401			
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: 1069 East Street			
Town: Dedham	State: MA	Zip: 02026	County: Norfolk
c) Legal name of operator: Comprehensive Environmental Inc. (CEI)	Operator telephone no: (800) 725-2550		
	Operator fax no.: (800) 331-0892		Operator email: rcote@ceiengineers.com
Operator contact name and title: Richard Cote, P.E., LSP, Manager of Engineering			

Address of operator (if different from owner):	Street: 64 Dilla Street		
Town: Milford	State: MA	Zip: 01757	County: Worcester
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: 2. permit or license # assigned: 3. state agency contact information: name, location, and telephone number:		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: The discharge will be conducted during the excavation dewatering activities to remediate petroleum impacted soils in accordance with the Massachusetts Contingency Plan (MCP) and the Release Abatement Measure (RAM) Plan dated March 26, 2007 for RTN 3-4448. Pumped groundwater will be treated using 2 fractionation tanks with weir walls, an oil/water separator, a sand filter, bag filters and a granular activated carbon (GAC) system. The treated effluent will be discharged to an existing on-site drainage swale >200' from the wetlands bordering Little Wigwam Pond. Additional information is discussed on the next page.		
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>0.45</u> Average flow <u>0.33</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. 150 gpm - estimate value
3) Latitude and longitude of each discharge within 100 feet: pt.1: long. <u>71095</u> lat. <u>42133</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>05/15/07</u> end <u>07/15/07</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).	

a) (continued): The treatment system is designed to handle light non-aqueous phase liquid (LNAPL) that is present at the site. A dewatering and treatment system schematic and site map are attached. Dewatering activities are anticipated for removal of soils at the Phase I area depicted on the site map. Excavation activities at the Phase II area will be conducted at a later date; however, dewatering activities are expected to be consistent with that described in this RGP application.

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		☒	1	grab	160.2	<4 mg/L			74000	80.6
2. Total Residual Chlorine	☒		1	grab	8167	16ug/L			ND	0
3. Total Petroleum Hydrocarbons		☒	1	grab	8100	21 mg/L			147000	160.2
4. Cyanide	☒		1	grab	335.2	16ug/L			ND	0
5. Benzene	☒		1	grab	8260B	<5 ug/L			ND	0
6. Toluene	☒		1	grab	8260B	<5 ug/L			ND	0
7. Ethylbenzene		☒	1	grab	8260B	<5 ug/L			5.62	0.0061
8. (m,p,o) Xylenes	☒		1	grab	8260B	<5 ug/L			ND	0
9. Total BTEX ⁴		☒	1	grab	8260B	<5 ug/L			5.62	0.0061

⁴ BTEX = 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	8260B	2ug/L			ND	0
11. Methyl-tert-Butyl Ether (MtBE)	✓		1	grab	8260B	5ug/L			ND	0
12. tert-Butyl Alcohol (TBA)	✓		1	grab	8260B				ND	0
13. tert-Amyl Methyl Ether (TAME)	✓		1	grab	8260B				ND	0
14. Naphthalene		✓	1	grab	8260B	20ug/L			39.4	0.043
15. Carbon Tetra-chloride	✓		1	grab	8260B	2ug/L			ND	0
16. 1,4 Dichlorobenzene	✓		1	grab	8260B	5ug/L			ND	0
17. 1,2 Dichlorobenzene	✓		1	grab	8260B	5ug/L			ND	0
18. 1,3 Dichlorobenzene	✓		1	grab	8260B	5ug/L			ND	0
19. 1,1 Dichloroethane	✓		1	grab	8260B	5ug/L			ND	0
20. 1,2 Dichloroethane	✓		1	grab	8260B	2ug/L			ND	0
21. 1,1 Dichloroethylene	✓		1	grab	8260B	5ug/L			ND	0
22. cis-1,2 Dichloro-ethylene		✓	1	grab	8260B	5ug/L			6.57	0.007
23. Dichloromethane (Methylene Chloride)	✓		1	grab	8260B	5ug/L			ND	0
24. Tetrachloroethylene	✓		1	grab	8260B	5ug/L			ND	0

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (c.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	8260B	5ug/L			ND	0
26. 1,1,2 Trichloroethane	✓		1	grab	8260B	5ug/L			ND	0
27. Trichloroethylene		✓	1	grab	8260B	5ug/L			6.03	0.007
28. Vinyl Chloride	✓		1	grab	8260B	2ug/L			ND	0
29. Acetone	✓		1	grab	8260B	50ug/L			ND	0
30. 1,4 Dioxane	✓		1	grab	8270C				ND	0
31. Total Phenols		✓	1	grab	8270C	0.5ug/L			3.516	0.004
32. Pentachlorophenol	✓		1	grab	8270C	0.5ug/L			ND	0
33. Total Phthalates ⁵ (Phthalate esthers)		✓	1	grab	8270C	0.5ug/L			4.29	0.005
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]		✓	1	grab	8270C	0.5ug/L			4.29	0.005
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		✓	1	grab	8270C	1ug/L			0.180	0.0002
a. Benzo(a) Anthracene		✓	1	grab	8270C	0.1ug/L			0.180	0.0002
b. Benzo(a) Pyrene	✓		1	grab	8270C	0.1ug/L			ND	0
c. Benzo(b)Fluoranthene	✓		1	grab	8270C	1ug/L			ND	0
d. Benzo(k) Fluoranthene	✓		1	grab	8270C	1ug/L			ND	0
e. Chrysene	✓		1	grab	8270C	1ug/L			ND	0

⁵ The 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	8270C	0.1ug/L			ND	0
g. Indeno(1,2,3-cd) Pyrene	✓		1	grab	8270C	0.1ug/L			ND	0
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		✓	1	grab	8270C	1 ug/L			132.8	0.145
h. Acenaphthene	✓		1	grab	8270C	1 ug/L			ND	0
i. Acenaphthylene	✓		1	grab	8270C	1 ug/L			ND	0
j. Anthracene		✓	1	grab	8270C	1 ug/L			2.24	0.002
k. Benzo(ghi) Perylene	✓		1	grab	8270C	1 ug/L			ND	0
l. Fluoranthene		✓	1	grab	8270C	1 ug/L			2.58	0.003
m. Fluorene	✓		1	grab	8270C	1 ug/L			ND	0
n. Naphthalene-		✓	1	grab	8270C	1 ug/L			87.9	0.096
o. Phenanthrene		✓	1	grab	8270C	1 ug/L			32.1	0.035
p. Pyrene		✓	1	grab	8270C	1 ug/L			7.93	0.009
37. Total Polychlorinated Biphenyls (PCBs)	✓		1	grab	8082	.25ug/L			ND	0
38. Antimony	✓		1	grab	6020A	1ug/L			ND	0
39. Arsenic		✓	1	grab	6020A	1ug/L			3.53	0.004
40. Cadmium	✓		1	grab	200.7	<5ug/L			ND	0
41. Chromium III	✓		1	grab	200.7	60ug/L			ND	0
42. Chromium VI	✓		1	grab	3500	50ug/L			ND	0

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)
43. Copper	✓		1	grab	200.7	<3ug/L			ND	0
44. Lead	✓		1	grab	200.7	<10ug/L			ND	0
45. Mercury	✓		1	grab	245.1	0.2ug/L			ND	0
46. Nickel	✓		1	grab	200.7	<10ug/L			ND	0
47. Selenium	✓		1	grab	200.7	<50ug/L			ND	0
48. Silver	✓		1	grab	200.7	2ug/L			ND	0
49. Zinc		✓	1	grab	200.7	10ug/L			47.2	0.514
50. Iron		✓	1	grab	200.7	50ug/L			18.99	0.021
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?
<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: _____	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:

Pumped groundwater will be treated using 2 fractionation tanks with weir walls, an oil/water separator, a sand filter, bag filters and a granular activated carbon (GAC) system. The treatment system is designed to handle light non-aqueous phase liquid (LNAPL) that is present at the site. A dewatering and treatment system schematic and site map are attached. The discharge point is an existing on-site drainage swale located in the northern corner of 1105 East Street. Additional erosion controls will be added if necessary to dissipate the velocity at the discharge and prevent scouring.

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): Sand filter before bag filters			

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 150 Maximum flow rate of treatment system 200 Design flow rate of treatment system 200

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): Swale
------------------------------------	-------------	-------------------	-----------------	-----------------	---------------	----------------------------

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:

The existing drainage swale is located downgradient of the excavation activities at the northern part of 1105 East Street (see attached site map). The treated effluent will be discharged into the drainage swale and travel approximately 225 feet through the swale to Little Wigwam Pond. Little Wigwam Pond discharges into Wigwam Pond and Wigwam Pond eventually discharges into the Charles 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 B

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 185.57 cfs 7Q10 for the Charles River, not available for Little Wigwam Pond
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)?

The Charles River (segment ID MA72-07_2004) is listed for priority organics, nutrients, organic enrichment/low DO, pathogens, noxious aquatic plants & turbidity.

Is there a TMDL? Yes No ✓ If yes, for which pollutant(s)?

Draft TMDLs have been prepared for the Charles River to address pathogens and nutrients (phosphorous).

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 ✓

Based on a review of the Massachusetts Natural Heritage Atlas (12th Edition, Effective October 1, 2006), Northwood Quad, there are no priority habitats, estimated habitats or certified vernal pools located in proximity to the proposed discharge. Confirmation of this information with the MA Natural Heritage and Endangered Species Program is underway.

Based on a review of the MA GIS Database for the location of historic properties maintained by the Massachusetts Historic Commission, the site is not a historic property and there are no historic properties/places in proximity to the proposed discharge.

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.

Analytical data used in this NOI application were collected from an on-site monitoring well in the proposed area of dewatering/excavation. The site and/or proposed discharge are not located in an Area of Critical Environmental Concern, Outstanding Resource Water or existing drinking water supply protection area. A sensitive resource map is attached for reference. The Little Wigwam Pond area is a Protected Open Space that is managed by the Dedham Conservation Commission. The proposed discharge is not expected to adversely affect the value and/or function of this open space. Additional protection measures such as erosion and sediment controls will be implemented as part of the Stormwater Pollution Prevention Plan (SWPPP) under the NPDES Construction General Permit (CGP) that is pending.

Attachments: Dewatering & Treatment System Schematic, Site Plan, sensitive resource map, laboratory data sheets

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: 1105 East Street

Operator signature:

 5/24/07

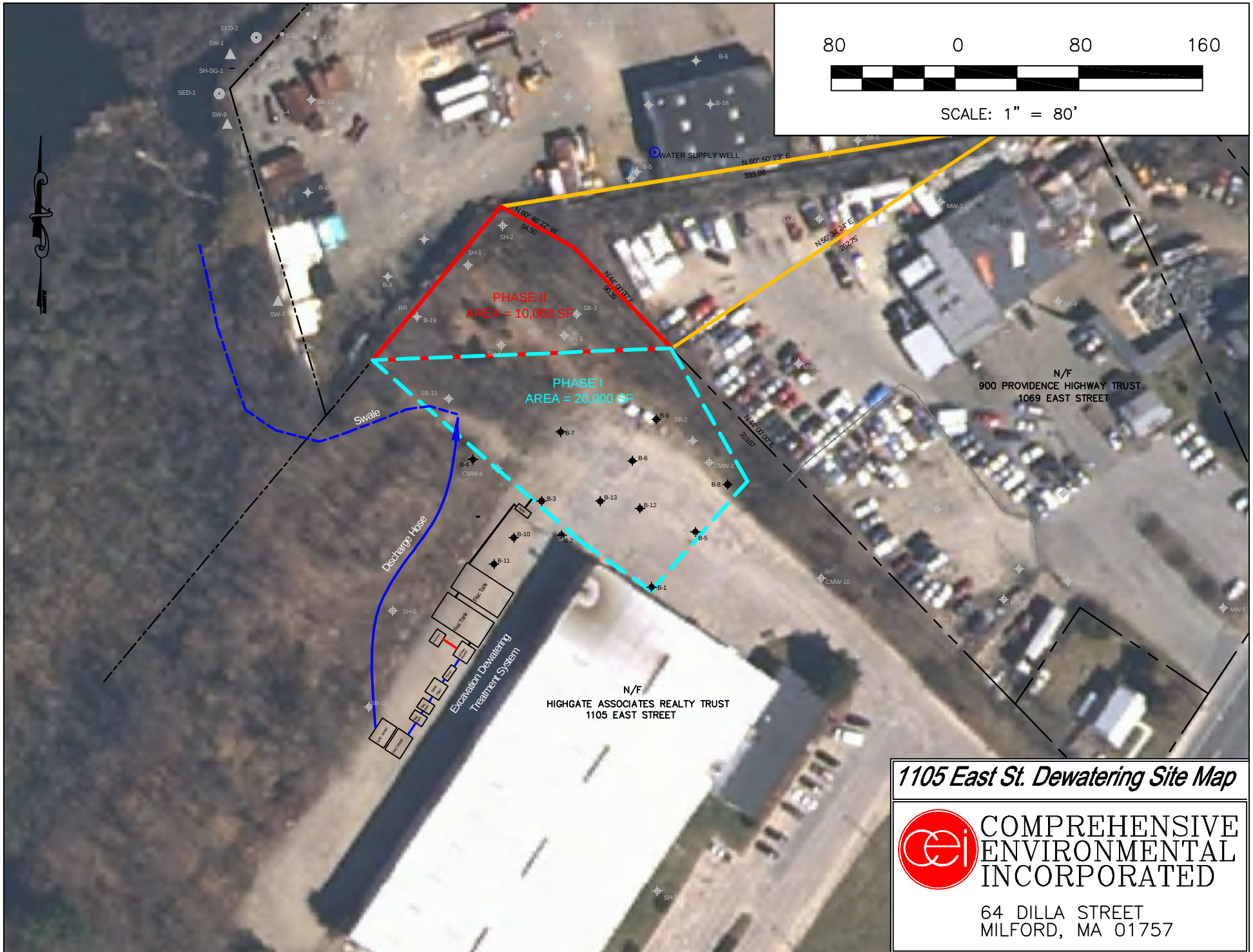
Title: P.E., LSP, Manager of Engineering

Date:

DEP Priority Resource Map

This map displays the Dedham area and surrounding regions, highlighting various environmental and infrastructure resources. Key features include:

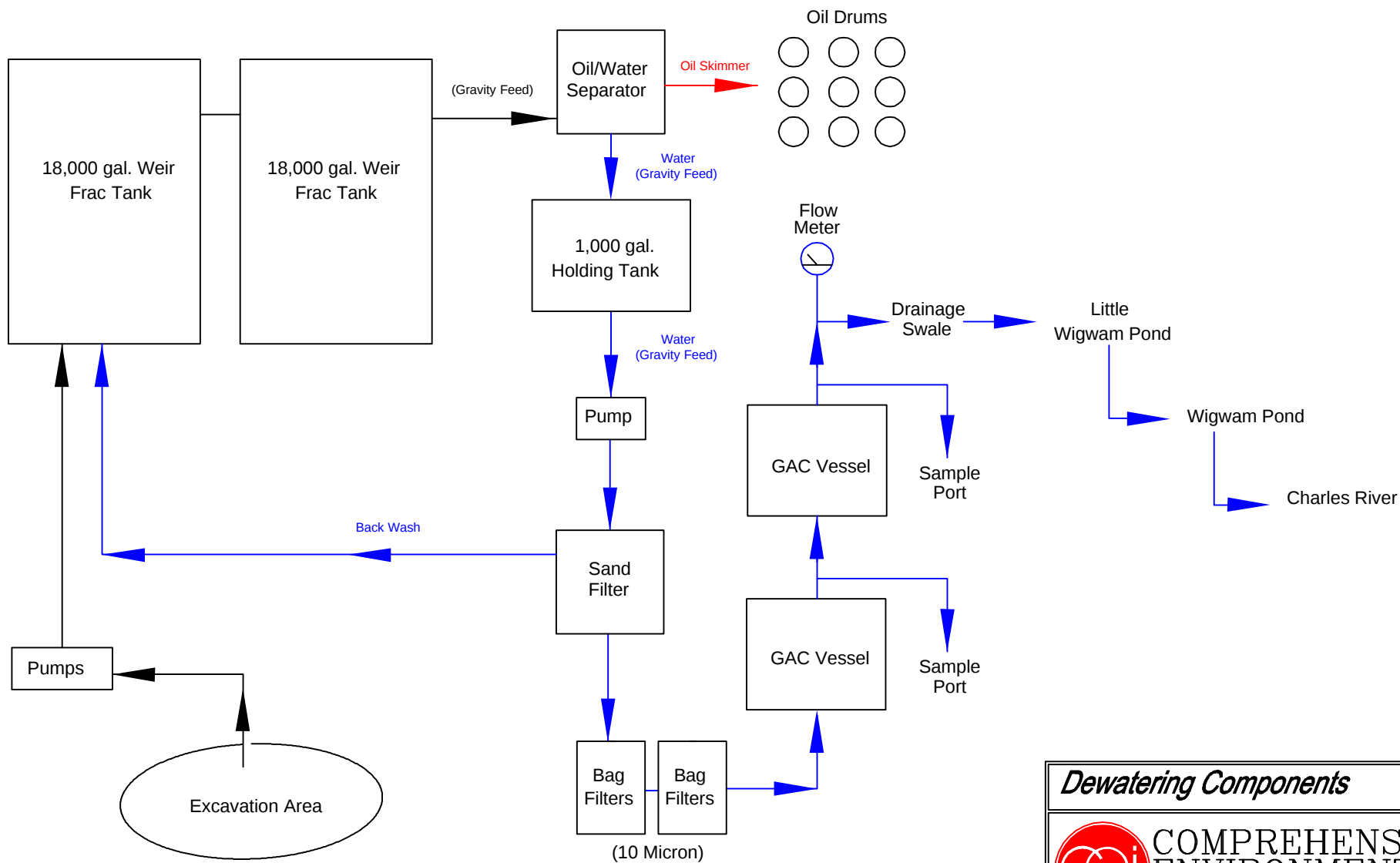
- Towns and Locations:** DEDHAM, OAKDALE, READVILLE, BOSTON, ASHCROFT, GREENLODGE, WESTWOOD, NORWOOD, CANTON, ISLINGTON, CHARLES, DEDHAM, BOSTON HARBOR.
- Water Bodies:** RODMAN POND, WIGWAM POND, LITTLE WIGWAM POND, PUGBURY POND, LAURA LAKE, JADE LAKE, WILSON POND.
- Infrastructure:** I-95, I-495, I-93, I-90, I-290, I-1, I-2, I-3, I-4, I-5, I-6, I-7, I-8, I-9, I-10, I-11, I-12, I-13, I-14, I-15, I-16, I-17, I-18, I-19, I-20, I-21, I-22, I-23, I-24, I-25, I-26, I-27, I-28, I-29, I-30, I-31, I-32, I-33, I-34, I-35, I-36, I-37, I-38, I-39, I-40, I-41, I-42, I-43, I-44, I-45, I-46, I-47, I-48, I-49, I-50, I-51, I-52, I-53, I-54, I-55, I-56, I-57, I-58, I-59, I-60, I-61, I-62, I-63, I-64, I-65, I-66, I-67, I-68, I-69, I-70, I-71, I-72, I-73, I-74, I-75, I-76, I-77, I-78, I-79, I-80, I-81, I-82, I-83, I-84, I-85, I-86, I-87, I-88, I-89, I-90, I-91, I-92, I-93, I-94, I-95, I-96, I-97, I-98, I-99, I-100, I-101, I-102, I-103, I-104, I-105, I-106, I-107, I-108, I-109, I-110, I-111, I-112, I-113, I-114, I-115, I-116, I-117, I-118, I-119, I-120, I-121, I-122, I-123, I-124, I-125, I-126, I-127, I-128, I-129, I-130, I-131, I-132, I-133, I-134, I-135, I-136, I-137, I-138, I-139, I-140, I-141, I-142, I-143, I-144, I-145, I-146, I-147, I-148, I-149, I-150, I-151, I-152, I-153, I-154, I-155, I-156, I-157, I-158, I-159, I-160, I-161, I-162, I-163, I-164, I-165, I-166, I-167, I-168, I-169, I-170, I-171, I-172, I-173, I-174, I-175, I-176, I-177, I-178, I-179, I-180, I-181, I-182, I-183, I-184, I-185, I-186, I-187, I-188, I-189, I-190, I-191, I-192, I-193, I-194, I-195, I-196, I-197, I-198, I-199, I-200, I-201, I-202, I-203, I-204, I-205, I-206, I-207, I-208, I-209, I-210, I-211, I-212, I-213, I-214, I-215, I-216, I-217, I-218, I-219, I-220, I-221, I-222, I-223, I-224, I-225, I-226, I-227, I-228, I-229, I-230, I-231, I-232, I-233, I-234, I-235, I-236, I-237, I-238, I-239, I-240, I-241, I-242, I-243, I-244, I-245, I-246, I-247, I-248, I-249, I-250, I-251, I-252, I-253, I-254, I-255, I-256, I-257, I-258, I-259, I-260, I-261, I-262, I-263, I-264, I-265, I-266, I-267, I-268, I-269, I-270, I-271, I-272, I-273, I-274, I-275, I-276, I-277, I-278, I-279, I-280, I-281, I-282, I-283, I-284, I-285, I-286, I-287, I-288, I-289, I-290, I-291, I-292, I-293, I-294, I-295, I-296, I-297, I-298, I-299, I-300, I-301, I-302, I-303, I-304, I-305, I-306, I-307, I-308, I-309, I-310, I-311, I-312, I-313, I-314, I-315, I-316, I-317, I-318, I-319, I-320, I-321, I-322, I-323, I-324, I-325, I-326, I-327, I-328, I-329, I-330, I-331, I-332, I-333, I-334, I-335, I-336, I-337, I-338, I-339, I-340, I-341, I-342, I-343, I-344, I-345, I-346, I-347, I-348, I-349, I-350, I-351, I-352, I-353, I-354, I-355, I-356, I-357, I-358, I-359, I-360, I-361, I-362, I-363, I-364, I-365, I-366, I-367, I-368, I-369, I-370, I-371, I-372, I-373, I-374, I-375, I-376, I-377, I-378, I-379, I-380, I-381, I-382, I-383, I-384, I-385, I-386, I-387, I-388, I-389, I-390, I-391, I-392, I-393, I-394, I-395, I-396, I-397, I-398, I-399, I-400, I-401, I-402, I-403, I-404, I-405, I-406, I-407, I-408, I-409, I-410, I-411, I-412, I-413, I-414, I-415, I-416, I-417, I-418, I-419, I-420, I-421, I-422, I-423, I-424, I-425, I-426, I-427, I-428, I-429, I-430, I-431, I-432, I-433, I-434, I-435, I-436, I-437, I-438, I-439, I-440, I-441, I-442, I-443, I-444, I-445, I-446, I-447, I-448, I-449, I-450, I-451, I-452, I-453, I-454, I-455, I-456, I-457, I-458, I-459, I-460, I-461, I-462, I-463, I-464, I-465, I-466, I-467, I-468, I-469, I-470, I-471, I-472, I-473, I-474, I-475, I-476, I-477, I-478, I-479, I-480, I-481, I-482, I-483, I-484, I-485, I-486, I-487, I-488, I-489, I-490, I-491, I-492, I-493, I-494, I-495, I-496, I-497, I-498, I-499, I-500, I-501, I-502, I-503, I-504, I-505, I-506, I-507, I-508, I-509, I-510, I-511, I-512, I-513, I-514, I-515, I-516, I-517, I-518, I-519, I-520, I-521, I-522, I-523, I-524, I-525, I-526, I-527, I-528, I-529, I-530, I-531, I-532, I-533, I-534, I-535, I-536, I-537, I-538, I-539, I-540, I-541, I-542, I-543, I-544, I-545, I-546, I-547, I-548, I-549, I-550, I-551, I-552, I-553, I-554, I-555, I-556, I-557, I-558, I-559, I-560, I-561, I-562, I-563, I-564, I-565, I-566, I-567, I-568, I-569, I-570, I-571, I-572, I-573, I-574, I-575, I-576, I-577, I-578, I-579, I-580, I-581, I-582, I-583, I-584, I-585, I-586, I-587, I-588, I-589, I-590, I-591, I-592, I-593, I-594, I-595, I-596, I-597, I-598, I-599, I-600, I-601, I-602, I-603, I-604, I-605, I-606, I-607, I-608, I-609, I-610, I-611, I-612, I-613, I-614, I-615, I-616, I-617, I-618, I-619, I-620, I-621, I-622, I-623, I-624, I-625, I-626, I-627, I-628, I-629, I-630, I-631, I-632, I-633, I-634, I-635, I-636, I-637, I-638, I-639, I-640, I-641, I-642, I-643, I-644, I-645, I-646, I-647, I-648, I-649, I-650, I-651, I-652, I-653, I-654, I-655, I



1105 East St. Dewatering Site Map

 **COMPREHENSIVE
ENVIRONMENTAL
INCORPORATED**

64 DILLA STREET
MILFORD, MA 01757



200 GPM Treatment System

Dewatering Components



COMPREHENSIVE
ENVIRONMENTAL
INCORPORATED

64 DILLA STREET
MILFORD, MA 01757



Tuesday, April 10, 2007

Jason Guertin
CEI
64 Dilla Street
Milford, MA 01757

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

TEL: (508) 482-5557

FAX: (508) 482-5445

Project: 587-2

Location: 1105 East Street

Order No.: 0704035

Dear Jason Guertin:

GeoLabs, Inc. received 1 sample(s) on 4/3/2007 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

Analytical methods and results meet requirements of 310CMR 40.1056(J) as per MADEP Compendium of Analytical Methods (CAM).

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Jim Chen
Laboratory Director

Certifications:

CT (PH-0148) - MA (M-MA015) - NH (2508) - NJ (MA009) - NY (11796) - RI (LA000252)

CLIENT: CEI
Project: 587-2
Lab Order: 0704035

CASE NARRATIVE**MADEP MCP Response Action Analytical Report Certification Form**

Laboratory Name: GeoLabs, Inc. Project # 587-2
Project Location: 1105 East St MADEP RTN #:

This form provides certification for the following data set: 0704035 (001)

Sample Matrix: Groundwater

MCP SW-846 Methods Used: 8082, 200.7, 245.1, 6020A, 8260B, 335.2, 8100M, 8167, 160.2, 8270C, 3500 Cr-D

An affirmative answer to questions A, B and C are required for "Presumptive Certainty" status

A. Were all samples received by the laboratory in a condition consistent with that described on the Chain of custody documentation for the data set? YES

B. Were all QA/QC procedures required for the specified method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate standards or guidelines? YES

C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty" as described in Section 2.0 of the MADEP documents CAM VII A "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? YES

D. VPH and EPH Methods only: Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods) N/A

A response to questions E and F are required for "Presumptive Certainty" status

E. Were all QC performance standards and recommendations for the specified methods achieved? NO

F. Were results for all analyte-list compounds/elements for the specified method(s) reported? YES

All NO answers need to be addressed in an attached Environmental Laboratory case narrative.

CLIENT: CEI
Project: 587-2
Lab Order: 0704035

CASE NARRATIVE

CASE NARRATIVE

Physical Condition of Samples

The project was received by the laboratory in satisfactory condition. The sample(s) were received undamaged, in appropriate containers with the correct preservation.

Project Documentation

The project was accompanied by satisfactory Chain of Custody documentation.

Analysis of Sample(s)

The following analytical anomalies or non-conformances were noted by the laboratory during the processing of these samples:

PCB Method Blank and LCS recoveries for Decachlorobiphenyl Signal 1 fail due to lab contamination.

8260 LCS percent recovery for Acrolein does not meet MCP limits and is above the quantitation range.

EDB by 8260 is not achievable at GW-1 limits.

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 analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:



Position: Lab Director

Printed Name: Jim Chen

Date: April 10, 2007

GeoLabs, Inc.

Reported Date:

CLIENT:	CEI	Client Sample ID:	SH-3
Lab Order:	0704035	Collection Date:	4/2/2007 4:20:00 PM
Project:	587-2	Date Received:	4/3/2007
Lab ID:	0704035-001	Matrix:	GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS - E160.2						
Total Suspended Solids	74.0	4.00		mg/L	1	4/3/2007
TOTAL PETROLEUM HYDROCARBONS - 8100M						
Total Petroleum Hydrocarbons	147	20.6		mg/L	100	4/4/2007
Surr: o-Terphenyl	62.0	40-140		%REC	1	4/4/2007
POLYCHLORINATED BIPHENYLS - SW8082						
Aroclor 1016/1242	ND	0.250		µg/L	1	4/5/2007
Aroclor 1221	ND	0.250		µg/L	1	4/5/2007
Aroclor 1232	ND	0.250		µg/L	1	4/5/2007
Aroclor 1248	ND	0.250		µg/L	1	4/5/2007
Aroclor 1254	ND	0.250		µg/L	1	4/5/2007
Aroclor 1260	ND	0.250		µg/L	1	4/5/2007
Aroclor 1262	ND	0.250		µg/L	1	4/5/2007
Aroclor 1268	ND	0.250		µg/L	1	4/5/2007
Surr: Decachlorobiphenyl Sig 1	178	30-150	S	%REC	1	4/5/2007
Surr: Decachlorobiphenyl Sig 2	98.0	30-150		%REC	1	4/5/2007
Surr: Tetrachloro-m-Xylene Sig 1	114	30-150		%REC	1	4/5/2007
Surr: Tetrachloro-m-Xylene Sig 2	130	30-150		%REC	1	4/5/2007
NOTES:						
DCBP signal 1 fails due to lab contamination.						
TOTAL METALS BY ICP - E200.7						
Beryllium	ND	0.00200		mg/L	1	4/4/2007
Cadmium	ND	0.00500		mg/L	1	4/4/2007
Chromium	ND	0.0600		mg/L	1	4/4/2007
Copper	ND	0.00800		mg/L	1	4/4/2007
Lead	ND	0.0100		mg/L	1	4/4/2007
Nickel	ND	0.0100		mg/L	1	4/4/2007
Selenium	ND	0.0500		mg/L	1	4/4/2007
Zinc	0.0472	0.0100		mg/L	1	4/4/2007
METALS BY ICP / MS - SW6020A						
Antimony	ND	0.00100		mg/L	1	4/6/2007
Arsenic	0.00353	0.00100		mg/L	1	4/6/2007
Thallium	ND	0.00100		mg/L	1	4/6/2007
TOTAL SILVER - E200.7						
Silver	ND	0.00200		mg/L	1	4/5/2007

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

GeoLabs, Inc.

Reported Date:

CLIENT:	CEI	Client Sample ID:	SH-3
Lab Order:	0704035	Collection Date:	4/2/2007 4:20:00 PM
Project:	587-2	Date Received:	4/3/2007
Lab ID:	0704035-001	Matrix:	GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL SILVER - E200.7						
				(SW3010A)		Analyst: QS
TOTAL MERCURY - E245.1						
Mercury	ND	0.0002		mg/L	1	Analyst: BF 4/4/2007
PAH - SW8270C						
				(SW3510)		Analyst: ZYZ
2-Methylnaphthalene	98.6	1.03		µg/L	1	4/3/2007 5:07:00 PM
Acenaphthene	ND	1.03		µg/L	1	4/3/2007 5:07:00 PM
Acenaphthylene	ND	1.03		µg/L	1	4/3/2007 5:07:00 PM
Anthracene	2.24	1.03		µg/L	1	4/3/2007 5:07:00 PM
Benz(a)Anthracene	0.180	0.103		µg/L	1	4/3/2007 5:07:00 PM
Benzo(a)Pyrene	ND	0.103		µg/L	1	4/3/2007 5:07:00 PM
Benzo(b)Fluoranthene	ND	1.03		µg/L	1	4/3/2007 5:07:00 PM
Benzo(g,h,i)Perylene	ND	1.03		µg/L	1	4/3/2007 5:07:00 PM
Benzo(k)Fluoranthene	ND	1.03		µg/L	1	4/3/2007 5:07:00 PM
Chrysene	ND	1.03		µg/L	1	4/3/2007 5:07:00 PM
Dibenz(a,h)Anthracene	ND	0.103		µg/L	1	4/3/2007 5:07:00 PM
Fluoranthene	2.58	1.03		µg/L	1	4/3/2007 5:07:00 PM
Fluorene	ND	1.03		µg/L	1	4/3/2007 5:07:00 PM
Indeno(1,2,3-cd)Pyrene	ND	0.103		µg/L	1	4/3/2007 5:07:00 PM
Naphthalene	87.9	1.03		µg/L	1	4/3/2007 5:07:00 PM
Phenanthrene	32.1	1.03		µg/L	1	4/3/2007 5:07:00 PM
Pyrene	7.93	1.03		µg/L	1	4/3/2007 5:07:00 PM
Surr: 2-Fluorobiphenyl	63.4	30-130		%REC	1	4/3/2007 5:07:00 PM
Surr: Nitrobenzene-d5	55.1	30-130		%REC	1	4/3/2007 5:07:00 PM
Surr: Terphenyl-d14	52.5	30-130		%REC	1	4/3/2007 5:07:00 PM
VOLATILE ORGANIC COMPOUNDS - SW8260B						
						Analyst: JG
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
1,1,2,2-Tetrachloroethane	5.35	2.00		µg/L	1	4/5/2007 6:30:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
1,2,4-Trimethylbenzene	45.4	5.00		µg/L	1	4/5/2007 6:30:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

GeoLabs, Inc.

Reported Date:

CLIENT: CEI
Lab Order: 0704035
Project: 587-2
Lab ID: 0704035-001

Client Sample ID: SH-3
Collection Date: 4/2/2007 4:20:00 PM
Date Received: 4/3/2007
Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: JG
1,2-Dibromoethane	ND	2.00		µg/L	1	4/5/2007 6:30:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	4/5/2007 6:30:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	4/5/2007 6:30:00 PM
1,3,5-Trimethylbenzene	21.7	5.00		µg/L	1	4/5/2007 6:30:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
2-Butanone	ND	10.0		µg/L	1	4/5/2007 6:30:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
2-Hexanone	ND	10.0		µg/L	1	4/5/2007 6:30:00 PM
4-Chlorotoluene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
4-Isopropyltoluene	7.97	5.00		µg/L	1	4/5/2007 6:30:00 PM
4-Methyl-2-Pentanone	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
Acetone	ND	50.0		µg/L	1	4/5/2007 6:30:00 PM
Acrolein	ND	50.0		µg/L	1	4/5/2007 6:30:00 PM
Acrylonitrile	ND	50.0		µg/L	1	4/5/2007 6:30:00 PM
Benzene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
Bromobenzene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
Bromochloromethane	ND	2.00		µg/L	1	4/5/2007 6:30:00 PM
Bromodichloromethane	ND	2.00		µg/L	1	4/5/2007 6:30:00 PM
Bromoform	ND	2.00		µg/L	1	4/5/2007 6:30:00 PM
Bromomethane	ND	2.00		µg/L	1	4/5/2007 6:30:00 PM
Carbon Disulfide	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
Carbon Tetrachloride	ND	2.00		µg/L	1	4/5/2007 6:30:00 PM
Chlorobenzene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
Chloroethane	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
Chloroform	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
Chloromethane	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
cis-1,2-Dichloroethene	6.57	5.00		µg/L	1	4/5/2007 6:30:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	4/5/2007 6:30:00 PM
Dibromochloromethane	ND	2.00		µg/L	1	4/5/2007 6:30:00 PM
Dibromomethane	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
Dichlorodifluoromethane	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
Ethylbenzene	5.62	5.00		µg/L	1	4/5/2007 6:30:00 PM
Hexachlorobutadiene	ND	0.500		µg/L	1	4/5/2007 6:30:00 PM
Isopropylbenzene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
Methyl Tert-Butyl Ether	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

GeoLabs, Inc.

Reported Date:

CLIENT:	CEI	Client Sample ID:	SH-3
Lab Order:	0704035	Collection Date:	4/2/2007 4:20:00 PM
Project:	587-2	Date Received:	4/3/2007
Lab ID:	0704035-001	Matrix:	GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: JG
Methylene Chloride	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
Naphthalene	39.4	20.0		µg/L	1	4/5/2007 6:30:00 PM
n-Butylbenzene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
n-Propylbenzene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
sec-Butylbenzene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
Styrene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
tert-Butylbenzene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
Tetrachloroethene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
Toluene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
trans-1,2-Dichloroethene	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	4/5/2007 6:30:00 PM
Trichloroethene	6.03	5.00		µg/L	1	4/5/2007 6:30:00 PM
Trichlorofluoromethane	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
Vinyl Chloride	ND	2.00		µg/L	1	4/5/2007 6:30:00 PM
Xylenes, Total	ND	5.00		µg/L	1	4/5/2007 6:30:00 PM
Surr: 1,2-Dichloroethane-d4	99.9	70-130		%REC	1	4/5/2007 6:30:00 PM
Surr: 4-Bromofluorobenzene	93.9	70-130		%REC	1	4/5/2007 6:30:00 PM
Surr: Dibromofluoromethane	105	70-130		%REC	1	4/5/2007 6:30:00 PM
Surr: Toluene-d8	97.2	70-130		%REC	1	4/5/2007 6:30:00 PM
CYANIDE, TOTAL - E335.2						Analyst: WFR
Cyanide, Total	ND	0.016		mg/L	1	4/4/2007
HEXAVALENT CHROMIUM - SM3500-CR-D						Analyst: RP
Chromium, Hexavalent	ND	0.0500		mg/L	1	4/3/2007
TOTAL RESIDUAL CHLORINE - HACH 8167						Analyst: RP
Total Residual Chlorine	ND	0.162		mg/L	1	4/3/2007

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

CLIENT: CEI
 Work Order: 0704035
 Project: 587-2

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_W

Sample ID: MB-6910	SampType: MBLK	TestCode: 200.7_W	Units: mg/L	Prep Date:	RunNo: 16276						
Client ID: ZZZZZ	Batch ID: 6910	TestNo: E200.7	(SW3010A)	Analysis Date: 4/4/2007	SeqNo: 143321						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	ND	0.00200									
Cadmium	ND	0.00500									
Chromium	ND	0.0600									
Copper	ND	0.00800									
Lead	ND	0.0150									
Nickel	ND	0.0100									
Selenium	ND	0.0500									
Zinc	ND	0.100									

LINE

Sample ID: LCS-6910	SampType: LCS	TestCode: 200.7_W	Units: mg/L	Prep Date:	RunNo: 16276						
Client ID: ZZZZZ	Batch ID: 6910	TestNo: E200.7	(SW3010A)	Analysis Date: 4/4/2007	SeqNo: 143322						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	2.150	0.00200	2	0	108	85	115				
Cadmium	2.010	0.00500	2	0	101	85	115				
Chromium	2.090	0.0600	2	0	104	85	115				
Copper	2.060	0.00800	2	0	103	85	115				
Lead	1.950	0.0150	2	0	97.5	85	115				
Nickel	2.030	0.0100	2	0	102	85	115				
Selenium	2.110	0.0500	2	0.0123	105	85	115				
Zinc	2.120	0.100	2	0.0115	105	85	115				

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

CLIENT: CEI
Work Order: 0704035
Project: 587-2

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020A_W

Sample ID: MB-R16324	SampType: MBLK	TestCode: 6020A_W	Units: mg/L	Prep Date:	RunNo: 16324						
Client ID: ZZZZZ	Batch ID: R16324	TestNo: SW6020		Analysis Date: 4/6/2007	SeqNo: 143624						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.00100									
Arsenic	ND	0.00100									
Thallium	ND	0.00100									

Sample ID: LCS-R16324	SampType: LCS	TestCode: 6020A_W	Units: mg/L	Prep Date:	RunNo: 16324						
Client ID: ZZZZZ	Batch ID: R16324	TestNo: SW6020		Analysis Date: 4/6/2007	SeqNo: 143625						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.01764	0.00100	0.02	0	88.2	80	120				
Arsenic	0.01814	0.00100	0.02	0	90.7	80	120				
Thallium	0.01758	0.00100	0.02	0	87.9	80	120				

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: CEI
 Work Order: 0704035
 Project: 587-2

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_w

Sample ID: MB-6915		SampType: MBLK	TestCode: 8082_w		Units: µg/L	Prep Date: 4/5/2007		RunNo: 16313			
Client ID: ZZZZZ		Batch ID: 6915	TestNo: SW8082		(SW3510B)	Analysis Date: 4/5/2007		SeqNo: 143631			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1221	ND	0.250									
Aroclor 1232	ND	0.250									
Aroclor 1248	ND	0.250									
Aroclor 1254	ND	0.250									
Aroclor 1260	ND	0.250									
Aroclor 1262	ND	0.250									
Aroclor 1268	ND	0.250									
Surr: Decachlorobiphenyl Sig 1	264.0	0	50	0	528	30	150				S
Surr: Decachlorobiphenyl Sig 2	49.00	0	50	0	98.0	30	150				
Surr: Tetrachloro-m-Xylene Sig 1	35.00	0	50	0	70.0	30	150				
Surr: Tetrachloro-m-Xylene Sig 2	44.00	0	50	0	88.0	30	150				

Sample ID: LCS-6915		SampType: LCS	TestCode: 8082_w		Units: µg/L	Prep Date: 4/5/2007		RunNo: 16313			
Client ID: ZZZZZ		Batch ID: 6915	TestNo: SW8082		(SW3510B)	Analysis Date: 4/5/2007		SeqNo: 143632			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1242	60.50	0.250	50	0	121	40	140				
Aroclor 1260	52.50	0.250	50	0	105	40	140				
Surr: Decachlorobiphenyl Sig 1	91.00	0	50	0	182	30	150				S
Surr: Decachlorobiphenyl Sig 2	48.50	0	50	0	97.0	30	150				
Surr: Tetrachloro-m-Xylene Sig 1	52.50	0	50	0	105	30	150				
Surr: Tetrachloro-m-Xylene Sig 2	43.50	0	50	0	87.0	30	150				

Sample ID: LCS2-6915		SampType: LCS	TestCode: 8082_w		Units: µg/L	Prep Date: 4/5/2007		RunNo: 16313			
Client ID: ZZZZZ		Batch ID: 6915	TestNo: SW8082		(SW3510B)	Analysis Date: 4/5/2007		SeqNo: 143634			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1242	59.50	0.250	50	0	119	40	140				
Aroclor 1221	ND	0.250									
Aroclor 1232	ND	0.250									

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: CEI
Work Order: 0704035
Project: 587-2

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_w

Sample ID: LCS2-6915	SampType: LCS	TestCode: 8082_w	Units: µg/L	Prep Date: 4/5/2007	RunNo: 16313						
Client ID: ZZZZZ	Batch ID: 6915	TestNo: SW8082	(SW3510B)	Analysis Date: 4/5/2007	SeqNo: 143634						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1248	ND	0.250									
Aroclor 1254	ND	0.250									
Aroclor 1260	53.00	0.250	50	0	106	40	140				
Aroclor 1262	ND	0.250									
Aroclor 1268	ND	0.250									
Surr: Decachlorobiphenyl Sig 1	77.50	0	50	0	155	30	150				S
Surr: Decachlorobiphenyl Sig 2	23.00	0	50	0	46.0	30	150				
Surr: Tetrachloro-m-Xylene Sig 1	22.50	0	50	0	45.0	30	150				
Surr: Tetrachloro-m-Xylene Sig 2	23.00	0	50	0	46.0	30	150				

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: CEI
 Work Order: 0704035
 Project: 587-2

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: MB	SampType: MBLK	TestCode: 8260B_W	Units: µg/L	Prep Date:	RunNo: 16311						
Client ID: ZZZZZ	Batch ID: R16311	TestNo: SW8260B		Analysis Date: 4/5/2007	SeqNo: 143635						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.00									
1,1,1-Trichloroethane	ND	5.00									
1,1,2,2-Tetrachloroethane	ND	2.00									
1,1,2-Trichloroethane	ND	5.00									
1,1-Dichloroethane	ND	5.00									
1,1-Dichloroethene	ND	5.00									
1,1-Dichloropropene	ND	5.00									
1,2,3-Trichlorobenzene	ND	5.00									
1,2,3-Trichloropropane	ND	5.00									
1,2,4-Trichlorobenzene	ND	5.00									
1,2,4-Trimethylbenzene	ND	5.00									
1,2-Dibromo-3-Chloropropane	ND	5.00									
1,2-Dibromoethane	ND	2.00									
1,2-Dichlorobenzene	ND	5.00									
1,2-Dichloroethane	ND	2.00									
1,2-Dichloropropane	ND	2.00									
1,3,5-Trimethylbenzene	ND	5.00									
1,3-Dichlorobenzene	ND	5.00									
1,3-Dichloropropane	ND	5.00									
1,4-Dichlorobenzene	ND	5.00									
2,2-Dichloropropane	ND	5.00									
2-Butanone	ND	10.0									
2-Chloroethyl Vinyl Ether	ND	5.00									
2-Chlorotoluene	ND	5.00									
2-Hexanone	ND	10.0									
4-Chlorotoluene	ND	5.00									
4-Isopropyltoluene	ND	5.00									
4-Methyl-2-Pentanone	ND	5.00									
Acetone	ND	50.0									
Acrolein	ND	50.0									
Acrylonitrile	ND	50.0									

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

CLIENT: CEI
Work Order: 0704035
Project: 587-2

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: MB	SampType: MBLK	TestCode: 8260B_W	Units: µg/L	Prep Date:	RunNo: 16311						
Client ID: ZZZZZ	Batch ID: R16311	TestNo: SW8260B		Analysis Date: 4/5/2007	SeqNo: 143635						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	5.00									
Bromobenzene	ND	5.00									
Bromochloromethane	ND	2.00									
Bromodichloromethane	ND	2.00									
Bromoform	ND	2.00									
Bromomethane	ND	2.00									
Carbon Disulfide	ND	5.00									
Carbon Tetrachloride	ND	2.00									
Chlorobenzene	ND	5.00									
Chloroethane	ND	5.00									
Chloroform	ND	5.00									
Chloromethane	ND	5.00									
cis-1,2-Dichloroethene	ND	5.00									
cis-1,3-Dichloropropene	ND	0.500									
Dibromochloromethane	ND	2.00									
Dibromomethane	ND	5.00									
Dichlorodifluoromethane	ND	5.00									
Ethylbenzene	ND	5.00									
Hexachlorobutadiene	ND	0.500									
Isopropylbenzene	ND	5.00									
Methyl Tert-Butyl Ether	ND	5.00									
Methylene Chloride	ND	5.00									
Naphthalene	ND	20.0									
n-Butylbenzene	ND	5.00									
n-Propylbenzene	ND	5.00									
sec-Butylbenzene	ND	5.00									
Styrene	ND	5.00									
tert-Butylbenzene	ND	5.00									
Tetrachloroethene	ND	5.00									
Toluene	ND	5.00									
trans-1,2-Dichloroethene	ND	5.00									

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: CEI
 Work Order: 0704035
 Project: 587-2

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: LCS	SampType: LCS	TestCode: 8260B_W	Units: µg/L	Prep Date:	RunNo: 16311						
Client ID: ZZZZZ	Batch ID: R16311	TestNo: SW8260B		Analysis Date: 4/5/2007	SeqNo: 143499						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	54.41	5.00	50	0	109	70	130				
1,3-Dichlorobenzene	52.55	5.00	50	0	105	70	130				
1,3-Dichloropropane	49.68	5.00	50	0	99.4	70	130				
1,4-Dichlorobenzene	52.09	5.00	50	0	104	70	130				
2,2-Dichloropropane	62.06	5.00	50	0	124	70	130				
2-Butanone	40.41	10.0	50	0	80.8	70	130				
2-Chloroethyl Vinyl Ether	45.44	5.00	50	0	90.9	70	130				
2-Chlorotoluene	57.14	5.00	50	0	114	70	130				
2-Hexanone	39.99	10.0	50	0	80.0	70	130				
4-Chlorotoluene	50.46	5.00	50	0	101	70	130				
4-Isopropyltoluene	50.86	5.00									
4-Methyl-2-Pentanone	39.49	5.00	50	0	79.0	70	130				
Acetone	ND	50.0	50	0	93.2	70	130				
Acrolein	289.6	50.0	100	0	290	70	130				SE
Acrylonitrile	90.61	50.0	100	0	90.6	70	130				
Benzene	49.13	5.00	50	0	98.3	70	130				
Bromobenzene	54.99	5.00	50	0	110	70	130				
Bromochloromethane	49.78	2.00	50	0	99.6	70	130				
Bromodichloromethane	51.98	2.00	50	0	104	70	130				
Bromoform	50.24	2.00	50	0	100	70	130				
Bromomethane	63.90	2.00	50	0	128	70	130				
Carbon Disulfide	53.61	5.00	50	0	107	70	130				
Carbon Tetrachloride	57.56	2.00	50	0	115	70	130				
Chlorobenzene	51.87	5.00	50	0	104	70	130				
Chloroethane	59.70	5.00	50	0	119	70	130				
Chloroform	57.63	5.00	50	0	115	70	130				
Chloromethane	44.67	5.00	50	0	89.3	70	130				
cis-1,2-Dichloroethene	51.68	5.00	50	0	103	70	130				
cis-1,3-Dichloropropene	47.95	0.500	50	0	95.9	70	130				
Dibromochloromethane	51.70	2.00	50	0	103	70	130				
Dibromomethane	49.37	5.00	50	0	98.7	70	130				

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

CLIENT: CEI
Work Order: 0704035
Project: 587-2

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: LCS	SampType: LCS	TestCode: 8260B_W	Units: µg/L	Prep Date:	RunNo: 16311						
Client ID: ZZZZZ	Batch ID: R16311	TestNo: SW8260B		Analysis Date: 4/5/2007	SeqNo: 143499						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	53.68	5.00	50	0	107	70	130				
Ethylbenzene	52.21	5.00	50	0	104	70	130				
Hexachlorobutadiene	47.43	0.500	50	0	94.9	70	130				
Isopropylbenzene	53.64	5.00	50	0	107	70	130				
Methyl Tert-Butyl Ether	47.74	5.00	50	0	95.5	70	130				
Methylene Chloride	52.91	5.00	50	0	106	70	130				
Naphthalene	44.49	20.0	50	0	89.0	70	130				
n-Butylbenzene	48.04	5.00	50	0	96.1	70	130				
n-Propylbenzene	53.28	5.00	50	0	107	70	130				
sec-Butylbenzene	50.09	5.00	50	0	100	70	130				
Styrene	52.87	5.00	50	0	106	70	130				
tert-Butylbenzene	55.37	5.00	50	0	111	70	130				
Tetrachloroethene	57.73	5.00	50	0	115	70	130				
Toluene	51.73	5.00	50	0	103	70	130				
trans-1,2-Dichloroethene	52.52	5.00	50	0	105	70	130				
trans-1,3-Dichloropropene	49.12	0.500	50	0	98.2	70	130				
Trichloroethene	53.83	5.00	50	0	108	70	130				
Trichlorofluoromethane	63.80	5.00	50	0	128	70	130				
Vinyl Chloride	44.06	2.00	50	0	88.1	70	130				
Xylenes, Total	160.9	5.00	150	0	107	70	130				
Surr: 1,2-Dichloroethane-d4	30.75	0	30	0	103	70	130				
Surr: 4-Bromofluorobenzene	29.44	0	30	0	98.1	70	130				
Surr: Dibromofluoromethane	31.21	0	30	0	104	70	130				
Surr: Toluene-d8	29.84	0	30	0	99.5	70	130				

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

CLIENT: CEI
Work Order: 0704035
Project: 587-2

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_PAH

Sample ID: MB-6891		SampType: MBLK		TestCode: 8270_W_PAH Units: µg/L		Prep Date: 4/3/2007		RunNo: 16256			
Client ID: ZZZZZ		Batch ID: 6891		TestNo: SW8270C (SW3510)		Analysis Date: 4/3/2007		SeqNo: 143138			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	1.00									
Acenaphthene	ND	1.00									
Acenaphthylene	ND	1.00									
Anthracene	ND	1.00									
Benz(a)Anthracene	ND	0.100									
Benzo(a)Pyrene	ND	0.100									
Benzo(b)Fluoranthene	ND	1.00									
Benzo(g,h,i)Perylene	ND	1.00									
Benzo(k)Fluoranthene	ND	1.00									
Chrysene	ND	1.00									
Dibenz(a,h)Anthracene	ND	0.100									
Fluoranthene	ND	1.00									
Fluorene	ND	1.00									
Indeno(1,2,3-cd)Pyrene	ND	0.100									
Naphthalene	ND	1.00									
Phenanthrene	ND	1.00									
Pyrene	ND	1.00									
Surr: 2-Fluorobiphenyl	27.34	0	50	0	54.7	30	130				
Surr: Nitrobenzene-d5	26.01	0	50	0	52.0	30	130				
Surr: Terphenyl-d14	39.63	0	50	0	79.3	30	130				

Sample ID: LCS-6891		SampType: LCS		TestCode: 8270_W_PAH Units: µg/L		Prep Date: 4/3/2007		RunNo: 16256			
Client ID: ZZZZZ		Batch ID: 6891		TestNo: SW8270C (SW3510)		Analysis Date: 4/3/2007		SeqNo: 143139			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	12.95	1.00	25	0	51.8	40	140				
Acenaphthene	15.86	1.00	25	0	63.4	40	140				
Acenaphthylene	17.48	1.00	25	0	69.9	40	140				
Anthracene	19.22	1.00	25	0	76.9	40	140				
Benz(a)Anthracene	18.08	0.100	25	0	72.3	40	140				

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: CEI
Work Order: 0704035
Project: 587-2

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_PAH

Sample ID: LCS-6891	SampType: LCS	TestCode: 8270_W_PAH	Units: µg/L	Prep Date: 4/3/2007	RunNo: 16256						
Client ID: ZZZZZ	Batch ID: 6891	TestNo: SW8270C	(SW3510)	Analysis Date: 4/3/2007	SeqNo: 143139						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)Pyrene	17.38	0.100	25	0	69.5	40	140				
Benzo(b)Fluoranthene	18.74	1.00	25	0	75.0	40	140				
Benzo(g,h,i)Perylene	14.22	1.00	25	0	56.9	40	140				
Benzo(k)Fluoranthene	21.14	1.00	25	0	84.5	40	140				
Chrysene	18.65	1.00	25	0	74.6	40	140				
Dibenz(a,h)Anthracene	15.46	0.100	25	0	61.8	40	140				
Fluoranthene	16.01	1.00	25	0	64.0	40	140				
Fluorene	14.53	1.00	25	0	58.1	40	140				
Indeno(1,2,3-cd)Pyrene	15.30	0.100	25	0	61.2	40	140				
Naphthalene	14.76	1.00	25	0	59.0	40	140				
Phenanthrene	17.53	1.00	25	0	70.1	40	140				
Pyrene	24.44	1.00	25	0	97.8	40	140				
Surr: 2-Fluorobiphenyl	31.03	0	50	0	62.1	30	130				
Surr: Nitrobenzene-d5	32.87	0	50	0	65.7	30	130				
Surr: Terphenyl-d14	39.85	0	50	0	79.7	30	130				

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

CLIENT: CEI
Work Order: 0704035
Project: 587-2

ANALYTICAL QC SUMMARY REPORT

TestCode: CN_335.2_W

Sample ID: MB-R16269	SampType: MBLK	TestCode: CN_335.2_W	Units: mg/L	Prep Date:	RunNo: 16269						
Client ID: ZZZZZ	Batch ID: R16269	TestNo: E335.2		Analysis Date: 4/4/2007	SeqNo: 143242						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cyanide, Total	ND	0.0160									
----------------	----	--------	--	--	--	--	--	--	--	--	--

Cyanide, Total												
Sample ID: LCS-R16269	SampType: LCS	TestCode: CN_335.2_W	Units: mg/L	Prep Date:					RunNo: 16269			
Client ID: ZZZZZ	Batch ID: R16269	TestNo: E335.2	Analysis Date: 4/4/2007					SeqNo: 143243				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Cyanide, Total	0.1645	0.0160	0.184	0	89.4	80	120				
----------------	--------	--------	-------	---	------	----	-----	--	--	--	--

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: CEI
Work Order: 0704035
Project: 587-2

ANALYTICAL QC SUMMARY REPORT

TestCode: Cr6_WW

Sample ID: MB-R16251	SampType: MBLK	TestCode: Cr6_WW	Units: mg/L	Prep Date:	RunNo: 16251						
Client ID: ZZZZZ	Batch ID: R16251	TestNo: M3500-Cr D		Analysis Date: 4/3/2007	SeqNo: 143030						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium, Hexavalent ND 0.0500

Sample ID: LCS-R16251	SampType: LCS	TestCode: Cr6_WW	Units: mg/L	Prep Date:	RunNo: 16251						
Client ID: ZZZZZ	Batch ID: R16251	TestNo: M3500-Cr D		Analysis Date: 4/3/2007	SeqNo: 143031						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium, Hexavalent 0.5120 0.0500 0.5 0 102 85 115

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: CEI
Work Order: 0704035
Project: 587-2

ANALYTICAL QC SUMMARY REPORT

TestCode: hg-245.1_w

Sample ID: MB-6913	SampType: MBLK	TestCode: hg-245.1_w	Units: mg/L	Prep Date: 4/4/2007	RunNo: 16266						
Client ID: ZZZZZ	Batch ID: 6913	TestNo: E245.1	(SW7470A/E2	Analysis Date: 4/4/2007	SeqNo: 143207						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.000500

Mercury											
Sample ID: LCS-6913	SampType: LCS	TestCode: hg-245.1_w	Units: mg/L	Prep Date: 4/4/2007	RunNo: 16266						
Client ID: ZZZZZ	Batch ID: 6913	TestNo: E245.1	(SW7470A/E2		Analysis Date: 4/4/2007	SeqNo: 143208					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.005050 0.000500 0.005 0.00002 101 80 120

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: CEI
Work Order: 0704035
Project: 587-2

ANALYTICAL QC SUMMARY REPORT

TestCode: TPH_W

Sample ID: MB-6896	SampType: MBLK	TestCode: TPH_W	Units: mg/L	Prep Date: 4/3/2007	RunNo: 16261						
Client ID: ZZZZZ	Batch ID: 6896	TestNo: 8100M	(8100M)	Analysis Date: 4/3/2007	SeqNo: 143151						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	ND	0.200									
Surr: o-Terphenyl	95.00	0	100	0	95.0	40	140				

Sample ID: LCS-6896	SampType: LCS	TestCode: TPH_W	Units: mg/L	Prep Date: 4/3/2007	RunNo: 16261						
Client ID: ZZZZZ	Batch ID: 6896	TestNo: 8100M	(8100M)	Analysis Date: 4/3/2007	SeqNo: 143152						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	1.414	0.200	2	0	70.7	40	140				
Surr: o-Terphenyl	75.00	0	100	0	75.0	40	140				

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: CEI
Work Order: 0704035
Project: 587-2

ANALYTICAL QC SUMMARY REPORT

TestCode: TRC_W

Sample ID: MB-R16246	SampType: MBLK	TestCode: TRC_W	Units: mg/L	Prep Date:	RunNo: 16246						
Client ID: ZZZZZ	Batch ID: R16246	TestNo: Hach 8167		Analysis Date: 4/3/2007	SeqNo: 142988						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Residual Chlorine ND 0.162

Total Residual Chlorine											
Sample ID: LCS-R16246		SampType: LCS		TestCode: TRC_W		Units: mg/L		Prep Date:		RunNo: 16246	
Client ID: ZZZZZ		Batch ID: R16246		TestNo: Hach 8167				Analysis Date: 4/3/2007		SeqNo: 142989	
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Total Residual Chlorine 1.090 0.162 1 0 109 85 115

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: CEI
Work Order: 0704035
Project: 587-2

ANALYTICAL QC SUMMARY REPORT

TestCode: TSS

Sample ID: MB-R16264	SampType: MBLK	TestCode: TSS	Units: mg/L	Prep Date:	RunNo: 16264						
Client ID: ZZZZZ	Batch ID: R16264	TestNo: E160.2		Analysis Date: 4/3/2007	SeqNo: 143192						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Suspended Solids	ND	4.00									
------------------------	----	------	--	--	--	--	--	--	--	--	--

Total Suspended Solids											
Sample ID: LCS-R16264		SampType: LCS		TestCode: TSS		Units: mg/L		Prep Date:		RunNo: 16264	
Client ID: ZZZZZ		Batch ID: R16264		TestNo: E160.2				Analysis Date: 4/3/2007		SeqNo: 143193	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Suspended Solids	66.00	4.00	74.3	0	88.8	80	120				
------------------------	-------	------	------	---	------	----	-----	--	--	--	--

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CHAIN OF CUSTODY										GeoLabs CHAIN NUMBER:														
CHECKED ITEMS MUST BE FILLED IN					24/48 HOUR RUSHES ONLY WITH APPROVAL OF D. KAHLER OR LAB DIRECTOR																			
GeoLabs, Inc. Environmental Laboratories 45 Johnson Lane Braintree, MA 02184 Office: 781-848-7844 Fax: 781-848-7811					Turnaround Time RUSH: 24hrs ☐ 48hrs ☐ 72hrs ☐ STANDARD: 5-7 Days ☒					0704035 Page 1 of 2 SPECIAL INSTRUCTIONS														
Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION																								
TYPE OF CLIENT: BUS LAB HOMEOWNER										NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES														
Client: X CEC					Project Number: X 587-2					CHANGES REQUESTED? Y N														
Address: X 64 Dilla St. NO P.O. BOXES					Project Location: X 1105 East St.					BY DATE														
M. Ford, MA 01857																								
Phone: X 508-482-5557																								
Fax:					Purchase Order #:					Received on ice? ☐														
Contact: X Jason Guertin					Collected By: X JG					ANALYSES REQUESTED														
E-mail: Jguertin@ceiengineers.com																								
SAMPLE ID	COLLECTION			SAMPLE LOCATION	CONTAINER					GEOLABS SAMPLE NUMBER														
	DATE	TIME	SAMPLED BY		TYPE	QUANT	MATRIX	COMP	GRAB		PRES	7	2	13	8	7	7	TEMPERATURE	L	B	P	H		
SH-3	4-2-07	4:20	JG	1105 East St.	1/1V	3/3/2	GW		X	3/5	4035-001	X	X	X	X	X	X	X	X	X	X	40		
Verbal results given to										by (date/initial)														
MATRIX CODES:		CONTAINER CODES:			PRESERVATIVE CODES:			Relinquished By:			Date/Time:			Received By:			Date/Time:							
GW = Ground Water		A = Amber B = Bag			1 = HCl 5 = NaOH			Jason Guertin			4-3-07			Jason Guertin			4/3/07							
WW = Wastewater		G = Glass P = Plastic			2 = HNO ₃ 6 = MeOH			PRINT: Jason Guertin						10:55										
DW = Drinking Water		S = Summa Canister			3 = H ₂ SO ₄ 7 = ICE			Relinquished By:						Received By:										
SL = Sludge		O = Other V = VOA			4 = Na ₂ S ₂ O ₃																			
S = Soil A = Air		Terms: Payment due within 30 days unless other arrangements are made.			Relinquished By:			4/3/07			Received By GeoLabs:													
O = Oil OT = Other		Past due balances subject to interest and collection costs.			Jason Guertin			11:50			Sally Bailey			4/3/07			11:50							

Thursday, April 26, 2007

Jason Guertin
CEI
64 Dilla Street
Milford, MA 01757

TEL: (508) 482-5557

FAX: (508) 482-5445

Project: 587-2

Location: Dedham, MA



GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

Order No.: 0704263

Dear Jason Guertin:

GeoLabs, Inc. received 1 sample(s) on 4/20/2007 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Jim Chen
Laboratory Director

Certifications:

CT (PH-0148) - MA (M-MA015) - NH (2508) - NJ (MA009) - NY (11796) - RI (LA000252)

CLIENT: CEI
 Lab Order: 0704263
 Project: 587-2
 Lab ID: 0704263-001

Client Sample ID: SH-3
 Collection Date: 4/18/2007 1:00:00 PM
 Date Received: 4/20/2007
 Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS - SW8270C			(SW3510)		Analyst: ZYZ	
2,3,4,6-Tetrachlorophenol	ND	0.521		µg/L	1	4/25/2007 12:09:00 PM
2,4,5-Trichlorophenol	ND	0.521		µg/L	1	4/25/2007 12:09:00 PM
2,4,6-Trichlorophenol	ND	0.521		µg/L	1	4/25/2007 12:09:00 PM
2,4-Dichlorophenol	ND	0.521		µg/L	1	4/25/2007 12:09:00 PM
2,4-Dimethylphenol	ND	0.521		µg/L	1	4/25/2007 12:09:00 PM
2,4-Dinitrophenol	ND	2.60		µg/L	1	4/25/2007 12:09:00 PM
2-Chlorophenol	ND	0.521		µg/L	1	4/25/2007 12:09:00 PM
2-Methylphenol	0.846	0.521		µg/L	1	4/25/2007 12:09:00 PM
2-Nitrophenol	ND	0.521		µg/L	1	4/25/2007 12:09:00 PM
3-Methylphenol/4-Methylphenol	2.67	0.521		µg/L	1	4/25/2007 12:09:00 PM
4,6-Dinitro-2-Methylphenol	ND	2.60		µg/L	1	4/25/2007 12:09:00 PM
4-Chloro-3-Methylphenol	ND	0.521		µg/L	1	4/25/2007 12:09:00 PM
4-Nitrophenol	ND	0.521		µg/L	1	4/25/2007 12:09:00 PM
Pentachlorophenol	ND	0.521		µg/L	1	4/25/2007 12:09:00 PM
Phenol	ND	0.521		µg/L	1	4/25/2007 12:09:00 PM
Surr: 2,4,6-Tribromophenol	49.9	15-110		%REC	1	4/25/2007 12:09:00 PM
Surr: 2-Fluorophenol	28.8	15-110		%REC	1	4/25/2007 12:09:00 PM
Surr: Phenol-d6	28.0	15-110		%REC	1	4/25/2007 12:09:00 PM

NOTES:

TIC: 1,4-Dioxane is ND

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

