CORPORATE ENVIRONMENTAL ADVISORS, INC.

PROUDLY CELEBRATING 20 YEARS Of Outstanding Service 1985 - 2005

January 4, 2006

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

RE: NOI Submittal
170 South Great Road
Lincoln, Massachusetts 01773
DEP Release Tracking No.3-001796

To Whom It May Concern:

On behalf of RCG LLC, Corporate Environmental Advisors, Inc. (CEA) is submitting this Notice of Intent (NOI) for the above-referenced site. The NOI is being submitted in accordance with the new Remediation General Permit (RGP). CEA is proposing to discharge treated groundwater via a dewatering system. Please note analytes in the influent sample that exceeded discharge limits shall be tested for in the effluent of the treatment system and the results forwarded to the EPA.

If you have any questions, please feel free to contact the undersigned at 508-835-8822.

Sincerely,

Maureen Daley for,

Michael P. Bingham, L.S.P.
Senior Associate

Pc: Alex Steinbergh, Manager, RCG LLC.
Bureau of Waste Site Cleanup, MADEP NERO
CEA File No. 6006-05

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 Lincoln Service Station		**Facility/site** address:		
Location of **facility/site:** (See Figures 1 and 2) longitude: 71°20'9" latitude: 42° 24' 42"	Facility SIC code (s): 5541	Street: 170 South Great Road		
b) Name of facility/site **owner:** RCG LLC		Town: Lincoln		
Email address of owner: asteinbergh@resourcecapitalgroup.com		State: MA	Zip: 01773	County: Middlesex
Telephone no. of facility/site **owner:** 671-625-8315				
Fax no. of facility/site **owner:** (617) 625-7528		**Owner** is (check one) 1. Federal ☐ 2. State/Tribal ☐ 3. Private ☐ 4. other, ☒ if so, describe: Corporation		
Address of **owner** (if different from site):				
Street: 17 Ivaloo Street, Suite 100				
Town: Somerville	State: MA	Zip: 02143	County: Middlesex	
c.) Legal name of **operator:** RCG LLC	**Operator** telephone no.: 671-625-8315			
	Operator fax no.: (617) 625-7528		**Operator** email: asteinbergh@resourcecapitalgroup.com	
Operator contact name and title: Alex Steinbergh				

Address of **operator** (if different from owner): Same as owner	Street: Same as owner		
Town: Same as owner	State: Same as owner	Zip: Same as owner	County: Same as owner

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 EP A permit, including: 1. multi-sector storm water general permit? Yes ☐ No ☒, if Y, number: 2. phase I or II construction storm water general permit? Yes ☐ No ☒, if Y, number: 3. individual NPDES permit? Yes ☐ No ☒, if Y, number: 4. any other water quality related permit? Yes ☐ No ☒, 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: Dewatering activities to be preformed during the installation of a gasoline USTs.		
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, W/s)? Max. flow 0.046 ft^3/sec Average flow 0.046 ft^3/sec Is maximum flow a **design value**? Yes ☐ No ☒, For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.
3) Latitude and longitude of each discharge within 100 feet: pt.1 :long.71 °20'11" lat. 42° 24'41" ; 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): N/A	5) Is the discharge intermittent ☒ Or seasonal ☐ ? Is discharge ongoing Yes ☐ No ☐,?
c) Expected dates of discharge (mm/dd/yy): start 1-26-06 end 2-28-06	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: See figures 1, 2, 5, and 6 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 (ug/l)	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass ~~(kg)~~ (kg/day)	concentration (ug/l)	mass ~~(kg)~~ (kg/day)
1. Total Suspended Solids		√	1	GRAB	SM2540D	<5,000	500,000	54		
2. Total Residual Chlorine	√		1	GRAB	Hatch 8167	20	<20	<0.018		
3. Total Petroleum	√		1	GRAB	EPA 1664	1,000	<1,000	<0.0896		
4. Cyanide	√		1	GRAB	SW-846-9012A	10	<10	<0.0009		
5. Benzene		√	1	GRAB	SW 846 8260B	5.0	127	0.0114		
6. Toluene	√		1	GRAB	SW 846 8260B	5.0	<5.0	<0.0004		
7. Ethylbenzene	√		1	GRAB	SW 846 8260B	5.0	<5.0	<0.0004		
8. (m,p,o) Xylenes	√		1	GRAB	SW 846 8260B	10.0	<10.0	<0.0009		
9. Total BTEX[4]		√	1	GRAB	SW 846 8260B	25.0	127	0.0114		

[4]BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes

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 (ug/l)	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass ~~(kg)~~ (kg/day)	concentration (ug/l)	mass ~~(kg)~~ (kg/day)
10. Ethylene Dibromide (1,2- Dibromo-methane)	√		1	GRAB	EPA 504.1	0.0100	<0.0100	<0		
11. Methyl-tert-Butyl Ether (MtBE)		√	1	GRAB	SW846 8260B	5.0	51.4	0.0046		
12. tert-Butyl Alcohol (TBA)	√		1	GRAB	SW846 8260B	5.0	<5.0	<0.0004		
13. tert-Amyl Methyl Ether (TAME)	√		1	GRAB	SW846 8260B	5.0	<5.0	<0.0004		
14. Naphthalene	√		1	GRAB	SW846 8260B	5.0	<5.0	<0.0004		
15. Carbon Tetra-chloride	√		1	GRAB	SW846 8260B	5.0	<5.0	<0.0004		
16. 1,4 Dichlorobenzene	√		1	GRAB	EPA 625	5.0	<5.0	<0.0004		
17.1,2 Dichlorobenzene	√		1	GRAB	SW846 8260B	5.0	<5.0	<0.0004		
18. 1,3 Dichlorobenzene	√		1	GRAB	SW846 8260B	5.0	<5.0	<0.0004		
19. 1,1 Dichloroethane	√		1	GRAB	SW846 8260B	5.0	<5.0	<0.0004		
20. 1,2 Dichloroethane	√		1	GRAB	SW846 8260B	5.0	<5.0	<0.0004		
21. 1,1 Dichloroethylene	√		1	GRAB	SW846 8260B	5.0	<5.0	<0.0004		
22. cis-l,2 Dichloro-ethylene	√		1	GRAB	SW846 8260B	5.0	<5.0	<0.0004		
23. Dichloromethane (Methylene Chloride)	√		1	GRAB	SW846 8260B	5.0	<5.0	<0.0004		
24. Tetrachloroethylene	√		1	GRAB	SW846 8260B	5.0	<5.0	<0.0004		

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 (ug/l)	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (~~kg~~) (kg/day)	concentration (ug/l)	mass (~~kg~~) (kg/day)
25. 1,1,1 Trichloroethane	√		1	GRAB	SW846 8260B	5.0	<5.0	<0.0004		
26. 1,1,2 Trichloroethane	√		1	GRAB	SW846 8260B	5.0	<5.0	<0.0004		
27. Trichloroethylene	√		1	GRAB	SW846 8260B	5.0	<5.0	<0.0004		
28. Vinyl Chloride	√		1	GRAB	SW846 8260B	5.0	<5.0	<0.0004		
29. Acetone	√		1	GRAB	SW846 8260B	5.0	<5.0	<0.0004		
30. 1,4 Dioxane	√		1	GRAB	SW846 8260B	100	<100	<0.009		
31. Total Phenols	√		1	GRAB	EPA 625	10	<10	<0.0009		
32. Pentachlorophenol	√		1	GRAB	EPA 625	5.0	<5.0	<0.0004		
33. Total Phthalates [6] (phthalate esthers)	√		1	GRAB	EPA 625	10	<10	<0.0009		
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	√		1	GRAB	EPA 625	5.0	<5.0	<0.0004		
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	√		1	GRAB	EPA 625	35	<35	<0.0031		
a. Benzo(a) Anthracene	√		1	GRAB	EPA 625	5.0	<5.0	<0.0004		
b. Benzo(a) Pyrene	√		1	GRAB	EPA 625	5.0	<5.0	<0.0004		
c. Benzo(b)Fluoranthene	√		1	GRAB	EPA 625	5.0	<5.0	<0.0004		
d. Benzo(k) Fluoranthene	√		1	GRAB	EPA 625	5.0	<5.0	<0.0004		
e. Chrysene	√		1	GRAB	EPA 625	5.0	<5.0	<0.0004		

[6]The sum of individual phthalate compounds.

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 (ug/l)	Maximum daily value		Average daily value	
							concentration (ug/l)	mass ~~(kg)~~ (kg/day)	concentration (ug/l)	mass ~~(kg)~~ (kg/day)
f. Dibenzo(a,h) anthracene	√		1	GRAB	EPA 625	5.0	<5.0	<0.0004		
g. Indeno(1,2,3-cd) Pyrene	√		1	GRAB	EPA 625	5.0	<5.0	<0.0004		
36. Total Group II Polycyclic Aromatic Hydrocarbons (pAR)	√		1	GRAB	EPA 625	5.0	<5.0	<0.0004		
h. Acenaphthene	√		1	GRAB	EPA 625	5.0	<5.0	<0.0004		
i. Acenaphthylene	√		1	GRAB	EPA 625	5.0	<5.0	<0.0004		
j. Anthracene	√		1	GRAB	EPA 625	5.0	<5.0	<0.0004		
k. Benzo(ghi) Perylene	√		1	GRAB	EPA 625	5.0	<5.0	<0.0004		
I. Fluoranthene	√		1	GRAB	EPA 625	5.0	<5.0	<0.0004		
m. Fluorene	√		1	GRAB	EPA 625	5.0	<5.0	<0.0004		
n. Naphthalene-	√		1	GRAB	EPA 625	5.0	<5.0	<0.0004		
o. Phenanthrene	√		1	GRAB	EPA 625	5.0	<5.0	<0.0004		
p. Pyrene	√		1	GRAB	EPA 625	5.0	<5.0	<0.0004		
37. Total Polychlorinated Biphenyls (PCBs)	√		1	GRAB	EPA 625	0.33	<0.33	<0		
38. Antimony	√		1	GRAB	EPA 200.7	6.0	<6.0	<<0.0005		
39. Arsenic		√	1	GRAB	EPA 200.7	4.0	91.4	0.0082		
40. Cadmium	√		1	GRAB	EPA 200.7	1.2	<1.2	<0.0001		
41. Chromium III (1)	√		1	GRAB	EPA 200.7	25	<25	<0.0022		
42. Chromium VI	√		1	GRAB	96A	10	<10	<0.0009		

NOTES: (1) Chromium III = Total Chromium – Hexavalent Chromium

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 (ug/l)	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass ~~(kg)~~ (kg/day)	concentration (ug/l)	mass ~~(kg)~~ (kg/day)
43. Copper (2)	√		1	GRAB	EPA 200.7	2.5	<2.5	<0.0002		
44. Lead	√		1	GRAB	EPA 200.7	3.8	<3.8	<0.0003		
45. Mercury	√		1	GRAB	EPA 200.7	0.2	<0.2	<0		
46. Nickel	√		1	GRAB	EPA 200.7	2.5	<2.5	<0.0002		
47. Selenium	√		1	GRAB	EPA 200.7	7.5	<7.5	<0.0007		
48. Silver	√		1	GRAB	EPA 200.7	5.0	<5.0	<0.0004		
49. Zinc	√		1	GRAB	EPA 200.7	5.5	<5.5	<0.0005		
50. Iron		√	1	GRAB	EPA 200.7	2.5	35,000	3.1366		
Other (describe):	----	----	----	----	----	----	----		----	----
n-propylbenzene		√	1	GRAB	SW846 8260B	----	46.2	0.0041		
Isopropylbenzene		√	1	GRAB	SW846 8260B	----	15.2	0.0014		

NOTES: (2) Total Copper, Instrument Detection Level (IDL) = 5 ug/l

Step 1: Do any of the metals in the influent have a reasonable potential to exceed the c. For discharges where **metals** are believed present, please fill out the following: effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y ☒ N ☐	If yes, which metals? Arsenic and Iron
Step 2: 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: Arsenic and Iron. DF: NA	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: Arsenic and Iron

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:
Groundwater is extracted from a sump installed in the excavation and treated by two bag filters and two granular activated carbon units operated in series. See Figure 3.

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 20 GPM Maximum flow rate of treatment system 20 GPM Design flow rate of treatment system 20 GPM

d) A description of chemical additives being used or planned to be used (attach MSDS sheets): Not Applicable

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

a) Identify the discharge pathway:	Direct ☐	Within facility ☐	Storm drain ☒	River/brook ☐	Wetlands _☐	Other (describe):

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:
Discharge to an on-site stormwater catch basin which discharges to an unnamed brook located across the street to the south. The unnamed brook connects into a wetland area which flows into Farrar Pond. Farrar Pond flows to the Sudbury 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. See Figures 2, 4, 5, and 6

d) Provide the state water quality classification of the receiving water Class B (freshwater)

e) Provide the reported or calculated seven day-ten year low flow (7QlO) of the receiving water: NA

Please attach any calculation sheets used to support stream flow and dilution calculations. NA

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? Yes ☐ 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): Not applicable

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.

Although the levels of arsenic, iron and TSS have the potential to exceed the effluent discharge limits, the treatment system consists of a settling tank, bag filters, and granular activated carbon (GAC) units which will trap suspended solids before the groundwater is discharged. It is believed that removal of TSS will reduce concentrations of arsenic and iron. In addition, the effluent will be sampled for TSS, iron and arsenic in addition to the compounds of concern at the site. Arsenic concentrations in groundwater are not believed to be a result of releases from the service station.

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.

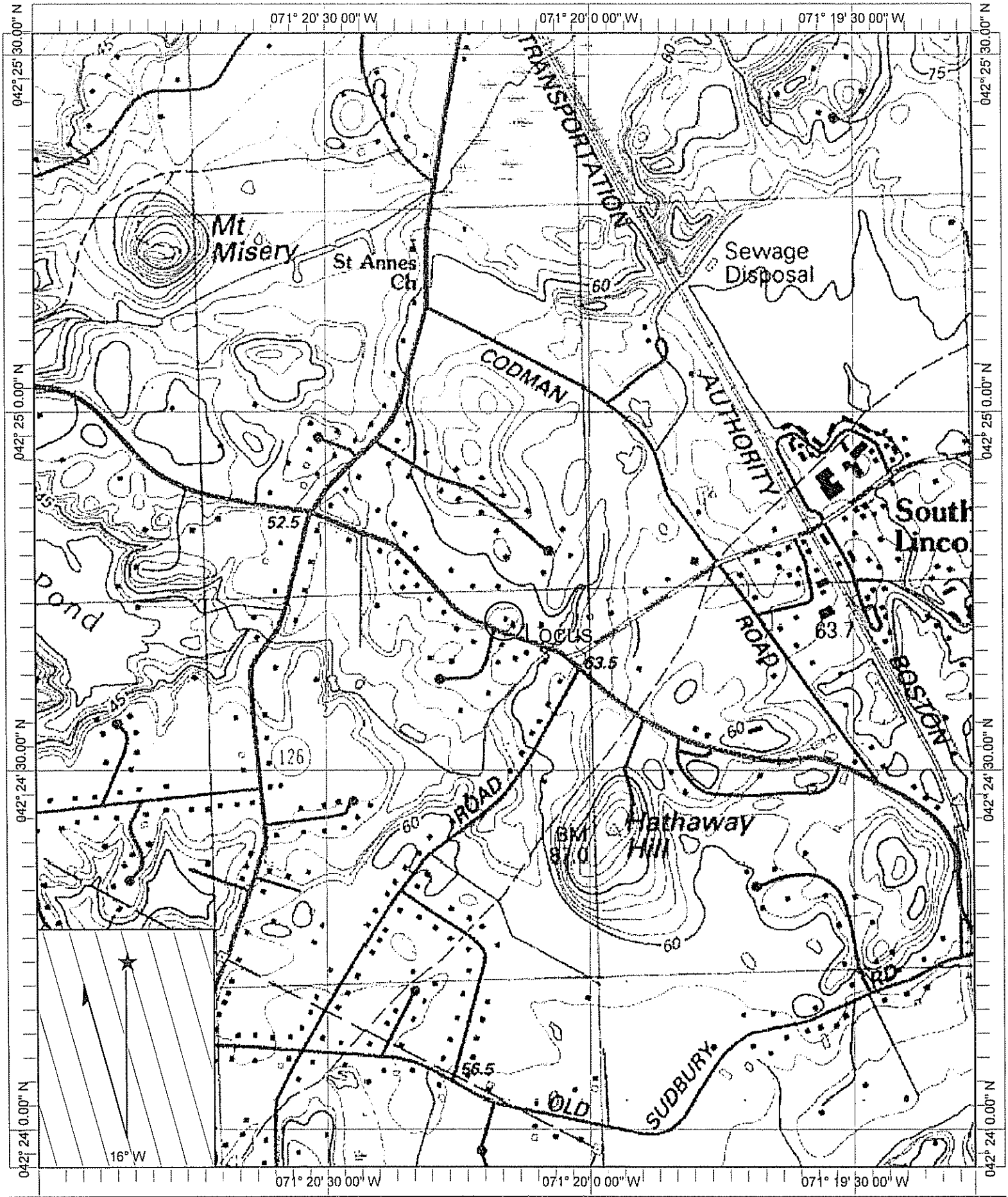
Facility/Site Name: 170 South Great Road, Lincoln, MA 01773.

Operator signature: _____

Title: Alex Steinbergh, Manager

Date: 12-19-05

Figure 1
Site Locus

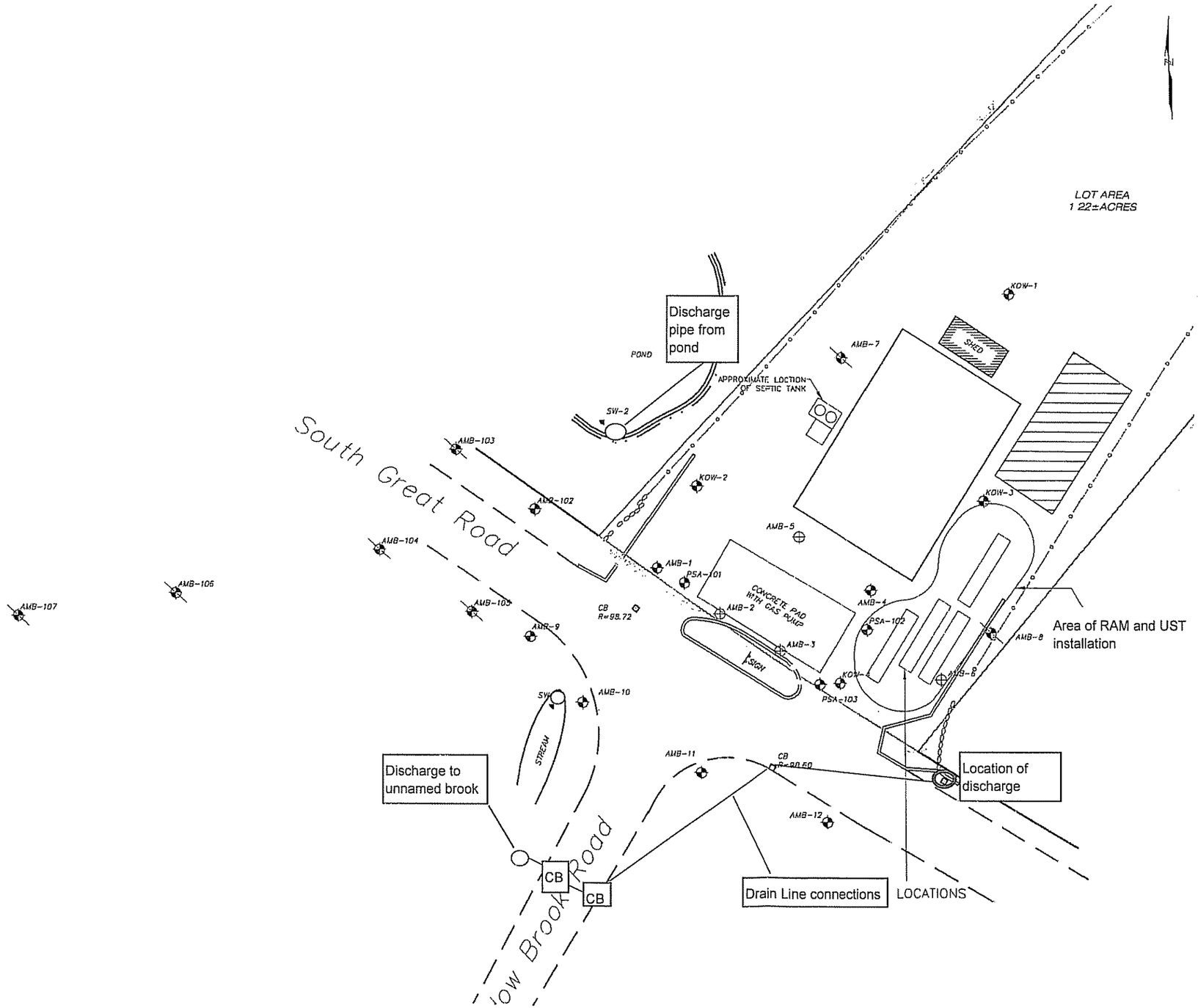


Name: MAYNARD
Date: 12/21/2005
Scale: 1 inch equals 1000 feet

Location: 042° 24' 44.4" N 071° 20' 09.7" W
Caption: 170 South Great Road
Lincoln, MA 01773

Copyright (C) 1997, Maptech. Inc

Figure 2
Site Layout



LEGEND

- GROUNDWATER MONITORING WELL LOCATION
- SOIL BORING LOCATION
- SURFACE WATER AND SEDIMENT SAMPLING LOCATION
- KOW-1 WELL INSTALLED BY KURZ ASSOCIATES
- AMB-1 WELL INSTALLED BY AMBIENT ENGINEERING
- SW-1 SURFACE WATER AND SEDIMENT SAMPLE BY AMBIENT ENGINEERING
- PSA-101 WELL PRESUMABLY INSTALLED BY PINE AND SWALLOW ENGINEERS
- WELL DESTROYED OR NOT LOCATED
- SOIL STOCKPILE AREA

NOTES

1. BASE MAP PROVIDED BY EDWARD J. FARRELL, PLS, WOBURN, MA BASED ON A SURVEY OF APRIL 12 AND APRIL 17, 2001.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

CEA CORPORATE ENVIRONMENTAL ADVISORS, INC.

Assessments - Remediation - Emergency Response

127 HARTWELL ST W BOYLSTON, MA

SCALE: NOT TO SCALE		DR. BY: K. HAZEL
DATE: 12/20/05	APP. BY: MB	JOB NO.: 6006-05

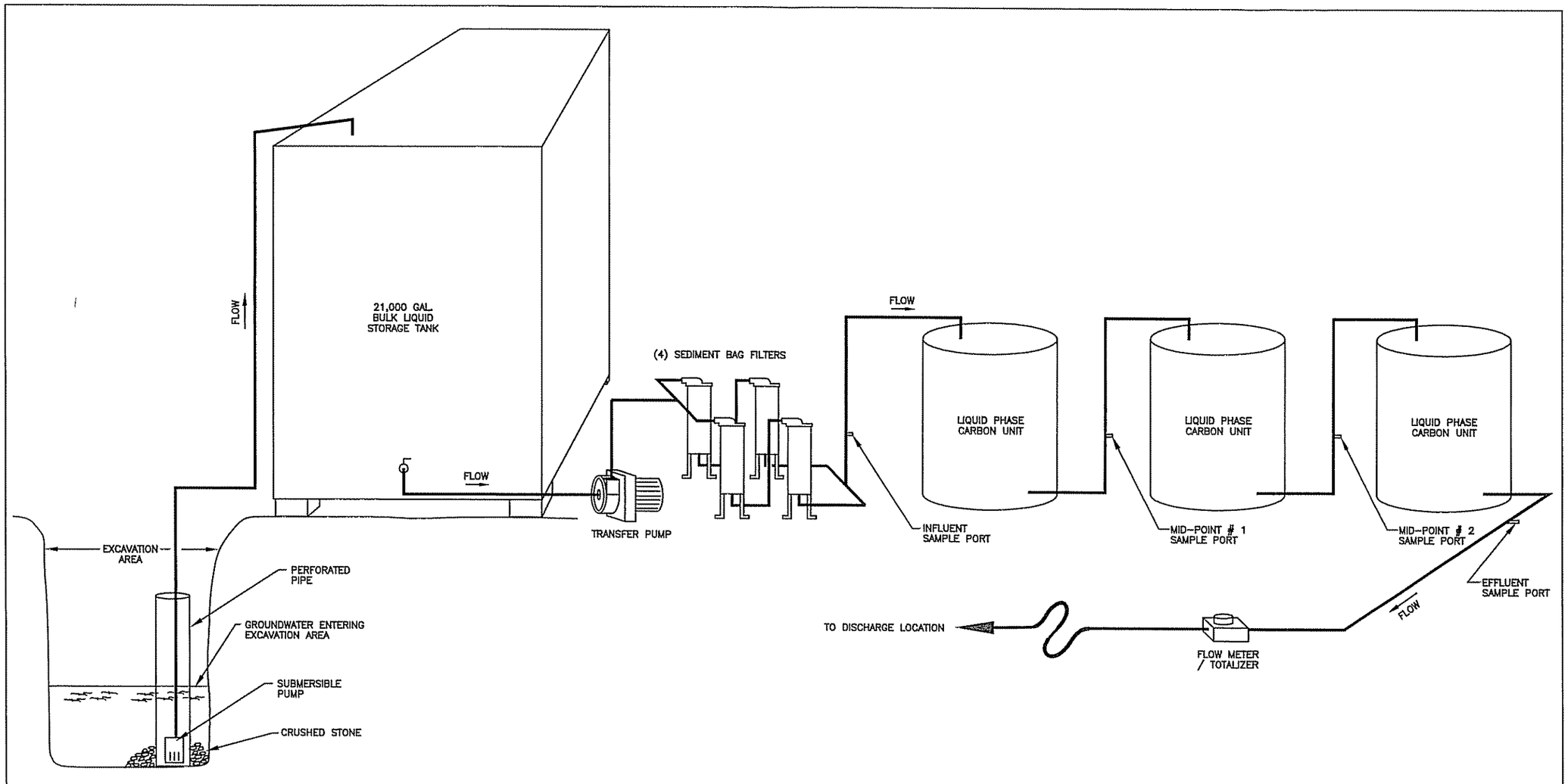
SITE LAYOUT

RCG

170 SOUTH GREAT RD LINCOLN, MA

FIGURE 2

Figure 3
Process and Instrumentation Diagram



CORPORATE ENVIRONMENTAL ADVISORS, INC.

Assessments – Remediation – Emergency Response

127 HARTWELL ST W BOYLSTON, MA.

SCALE: NOT TO SCALE		DR. BY: K. HAZEL
DATE: 12/20/05	APP. BY: MB	JOB NO.: 6006-05

EXCAVATION DEWATERING
PROCESS & INSTRUMENTATION DIAGRAM

RCG

170 SOUTH GREAT RD. LINCOLN, MA.

FIGURE 3

Figure 4
BWSC Site Scoring Map

MA DEP - Bureau of Waste Site Cleanup

Site Scoring Map: 500 feet & 0.5 Mile Radii

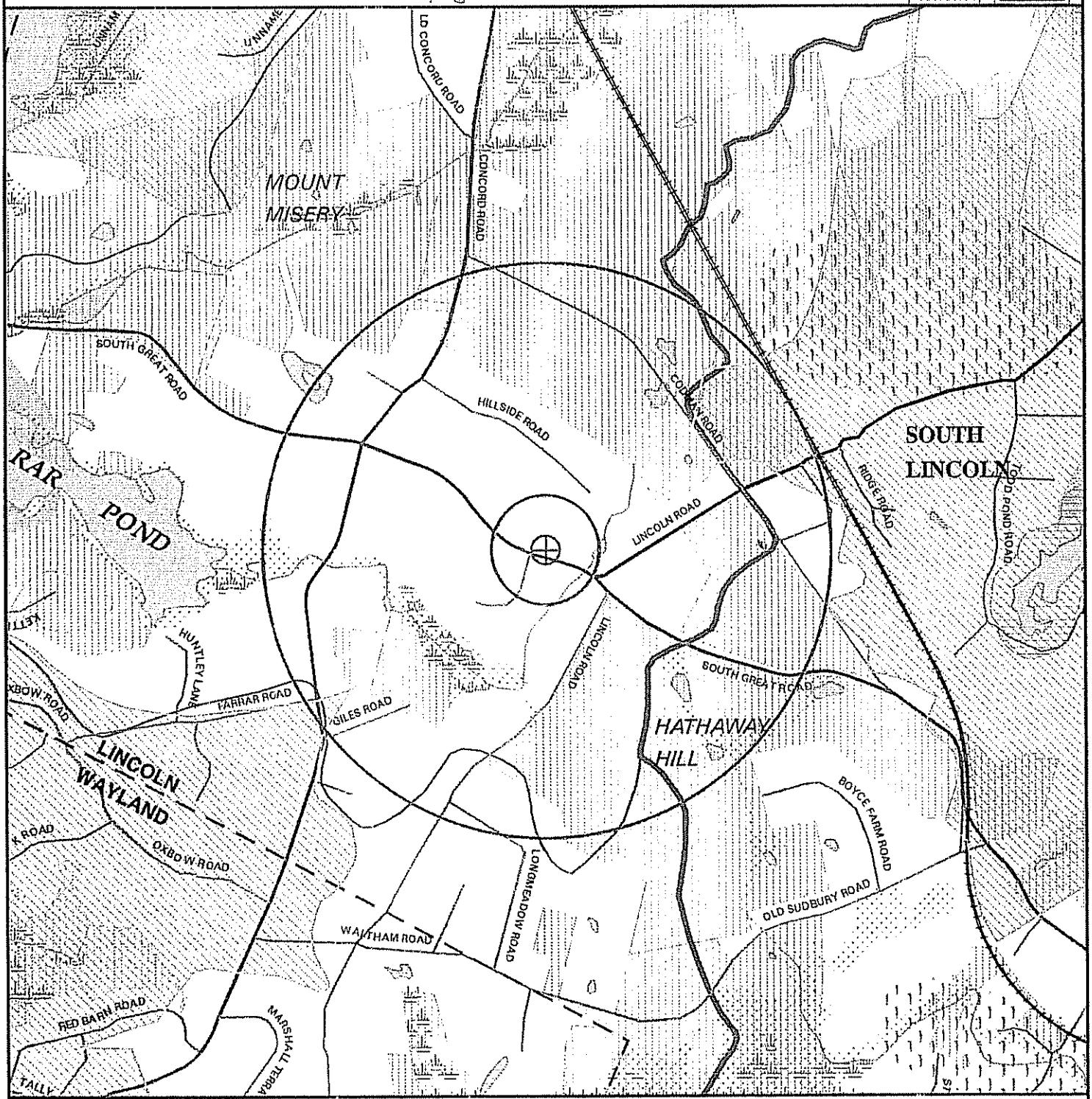
SITE NAME:

170 South Great Road
LINCOLN, MA 01773
422442n 712009ew

Site Location

The information shown on this map is the best available at the date of printing. Please refer to the data source descriptions document.

MASS GIS — Massachusetts Geographic Information System
Massachusetts Executive Office of Environmental Affairs - 2005



Roads: Limited Access, Divided, Major Road, Connector, Street, Track, Trail
Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct
Basins: Major, Sub; Streams: Perennial, Intermittent, Man Made Shore, Dams
Potentially Productive Aquifers: Medium, High Yield
Non-Potential Drinking Water Source Area: Medium, High Yield

EPA Sole Source Aquifer; FEMA 100-year floodplain
Public Water Supplies: Ground, Surface, Non Community
Approved Zone2; IWPA; Surface Water Supply Zone A
Hydrography: Water Features, Public Surface Water Supply
Wetlands: Fresh, Salt, NHESP Wetlands Habitat
Protected Open Space; ACEC
DEP Permitted Solid Waste Facilities; Certified Vernal Pools

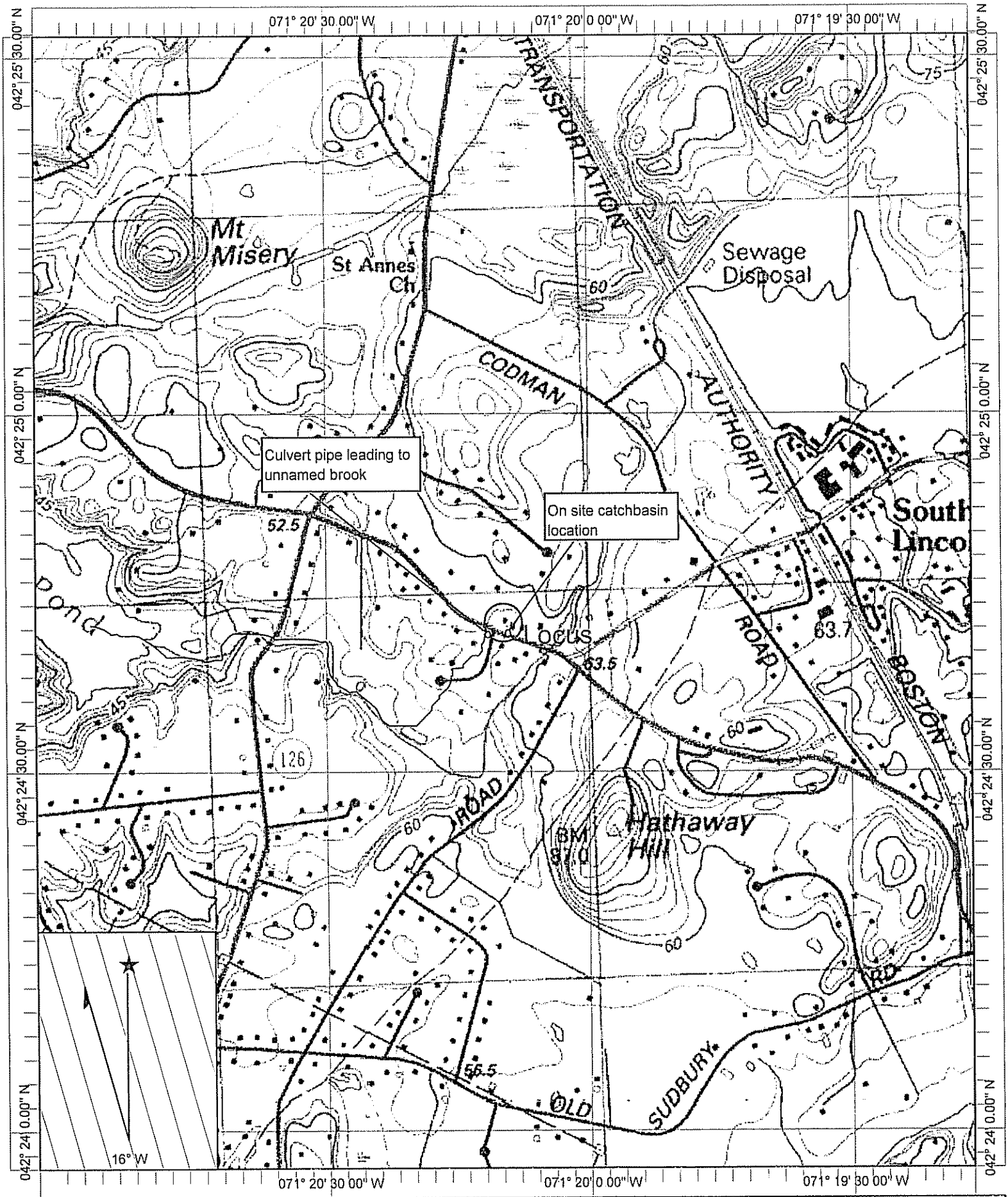
N W E S

SCALE 1:15000

0 1/2 1/2 MILES
0 KILOMETERS 1

December 20, 2005

Figure 5
Discharge Location and Receiving Waters



Name: MAYNARD
Date: 12/21/2005
Scale: 1 inch equals 1000 feet

Location: 042° 24' 44 4" N 071° 20' 09 7" W
Caption: 170 South Great Road
Lincoln, MA 01773

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Figure 6
Town of Lincoln Drain Map

TOWN OF LINCOLN

CONSERVATION COMMISSION

TOWN OFFICES P.O. BOX 6353
LINCOLN CENTER MA 01773
P. 781.259.2612 F. 781.259.1677

JIM HENDERSON
DAVID KATSUKI
MARY LINCOLN, CHAIR
JIM MEADORS
SARA SILVERSTEIN
TOBY FEIBELMAN
PETER VON MERTENS

Groundwater Laboratory Analytical Data

Report Date:
03-Jan-06 15:48

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

CEA, Inc.
1725 Mendon Rd, Suite 201
Cumberland, RI 02864
Attn: Chris Gill

Project: RCG-170 S. Great Rd-Lincoln, MA
Project #: 6606-05

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA38809-01	KOW-1	Ground Water	22-Dec-05 11:37	22-Dec-05 15:22
SA38809-02	KOW-4	Ground Water	22-Dec-05 10:18	22-Dec-05 15:22

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. All applicable NELAC requirements have been met.
Please note that this report contains 5 pages of analytical data including Chain of Custody document(s).
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Massachusetts Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538/2972
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method indicated. Please refer to our "Quality" webpage at www.spectrum-analytical.com for a full listing of our current certifications.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
KOW-1 SA38809-01	6606-05	Ground Water	22-Dec-05 11:37	22-Dec-05

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Total Metals by EPA 200 Series Methods											
7440-38-2	Arsenic	BRL		mg/l	0.0040	1	EPA 200.7	29-Dec-05	30-Dec-05	5121692	RE
7439-89-6	Iron	0.839		mg/l	0.0025	1	"	"	"	"	"
Subcontracted Analyses											
	Total Suspended Solids	28		mg/l	5		SM2540D		27-Dec-05	'[none]'	CT007

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
KOW-4 SA38809-02	6606-05	Ground Water	22-Dec-05 10:18	22-Dec-05

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Total Metals by EPA 200 Series Methods											
7440-38-2	Arsenic	0.211		mg/l	0.0040	1	EPA 200.7	29-Dec-05	30-Dec-05	5121692	RE
7439-89-6	Iron	31.8		mg/l	0.0025	1	"	"	"	"	"
Subcontracted Analyses											
	Total Suspended Solids	85		mg/l	5		SM2540D		27-Dec-05	'[none]'	CT007

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 5121692 - EPA 200 Series										
Blank (5121692-BLK1)										
Prepared: 29-Dec-05 Analyzed: 30-Dec-05										
Iron	0.0127	QB-01	mg/l	0.0025						
Arsenic	BRL		mg/l	0.0040						
LCS (5121692-BS1)										
Prepared: 29-Dec-05 Analyzed: 30-Dec-05										
Iron	0.109		mg/l	0.0025	0.100		109	85-115		
Arsenic	0.0922		mg/l	0.0040	0.100		92.2	85-115		
Duplicate (5121692-DUP1)	Source: SA38809-01									
Prepared: 29-Dec-05 Analyzed: 30-Dec-05										
Iron	0.813		mg/l	0.0025		0.839			3.15	20
Arsenic	BRL		mg/l	0.0040		BRL				20
Matrix Spike (5121692-MS1)	Source: SA38809-02									
Prepared: 29-Dec-05 Analyzed: 30-Dec-05										
Iron	32.0	QM-02	mg/l	0.0025	0.100	31.8	200	70-130		
Arsenic	0.285		mg/l	0.0040	0.100	0.211	74.0	70-130		
Matrix Spike Dup (5121692-MSD1)	Source: SA38809-02									
Prepared: 29-Dec-05 Analyzed: 30-Dec-05										
Iron	30.2	QM-02	mg/l	0.0025	0.100	31.8	NR	70-130	5.79	20
Arsenic	0.275	QM-07	mg/l	0.0040	0.100	0.211	64.0	70-130	3.57	20
Post Spike (5121692-PS1)	Source: SA38809-02									
Prepared: 29-Dec-05 Analyzed: 30-Dec-05										
Iron	33.2	QM-02	mg/l	0.0025	0.100	31.8	NR	85-115		
Arsenic	0.306		mg/l	0.0040	0.100	0.211	95.0	85-115		

Notes and Definitions

QB-01	The method blank contains analyte at a concentration above the MRL; however, concentration is less than 10% of the sample result, which is negligible according to method criteria.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown

* Part of a MADEP shipment, need MDLs of 5 ug/L

SAT 38809 (2)

SPECTRUM ANALYTICAL INC.
Featuring
HANNIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: CEA, Inc
1725 Mendon Rd. Suite 201
Cumberland, RI 02864

Invoice To: CEA, Inc
West Bay Isl. Fall River, MA

Project No.: 6606-05
Site Name: RCG-Lincoln
Location: 170 S. Great RD. Lincoln State: MA
Sampler(s): Tim Nevins

Project Mgr.: Chris Gill

P.O. No.: 6606-05 RQN: _____

1=Na-S2O3 2=HCl 3=H-SO4 4=HNO3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=NaHSO4 9=Ice 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1: _____ X2: _____ X3: _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: TSS by 160.2	Total As by 200.7	Tot Fe by 200.7						QA Reporting Notes: (check if needed)
38809-01	KOW-1	12/22/05	11:37	G	GW	9				1	X								State specific reporting standards: If applicable, please list below:
↓	KOW-1	12/22/05	11:37	G	GW	4				1		X	X						☐ Provide MCP CAM Report. Were all field QC requirements met as per MADEP CAM Section 2.0? ☐ Yes ☐ No
02	KOW-4	12/22/05	10:18	G	GW	9				1	X								*Allowances required for CAM report*
↓	KOW-4	12/22/05	10:18	G	GW	4				1		X	X						

☐ Fax results when available to (____) _____
☒ E-mail to Tnevins@CEA-inc.com
EDD Format _____

Condition upon receipt: ☐ Iced ☐ Ambient ☒ °C 5 LLR

Relinquished by:	Received by:	Date:	Time:
[signature]	Bill Hartz	12/22/05	1212
[signature]	Mark Feliciano	12/22/05	1522

11 Almgren Drive • Agawam, Massachusetts 01001 • 413-789-9018 • Fax 413-789-4076 • www.spectrum-analytical.com

This laboratory report is not valid without an authorized signature on the cover page

* Reportable Detection Limit BRL = Below Reporting Limit

Report Date:
08-Dec-05 12:10

☐ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

CEA, Inc.
1725 Mendon Rd, Suite 201
Cumberland, RI 02864
Attn: Chris Gill

Project: 170 S. Great Road - Lincoln, MA
Project #: 6006-05

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA37681-01	KOW-4	Ground Water	28-Nov-05 10:45	28-Nov-05 15:05

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. All applicable NELAC requirements have been met.
Please note that this report contains 22 pages of analytical data plus Chain of Custody document(s).
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Massachusetts Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538/2972
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
KOW-4 SA37681-01	6006-05	Ground Water	28-Nov-05 10:45	28-Nov-05

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
Volatile Organic Compounds			R-05								
Prepared by method	SW846 5030 Water MS										
67-64-1	Acetone	BRL		µg/l	50.0	5	SW 846 8260B	05-Dec-05	05-Dec-05	5120238	RLJ
107-13-1	Acrylonitrile	BRL		µg/l	5.0	5	"	"	"	"	"
71-43-2	Benzene	127		µg/l	5.0	5	"	"	"	"	"
108-86-1	Bromobenzene	BRL		µg/l	5.0	5	"	"	"	"	"
74-97-5	Bromochloromethane	BRL		µg/l	5.0	5	"	"	"	"	"
75-27-4	Bromodichloromethane	BRL		µg/l	5.0	5	"	"	"	"	"
75-25-2	Bromoform	BRL		µg/l	5.0	5	"	"	"	"	"
74-83-9	Bromomethane	BRL		µg/l	10.0	5	"	"	"	"	"
78-93-3	2-Butanone (MEK)	BRL		µg/l	50.0	5	"	"	"	"	"
104-51-8	n-Butylbenzene	BRL		µg/l	5.0	5	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/l	5.0	5	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/l	5.0	5	"	"	"	"	"
75-15-0	Carbon disulfide	BRL		µg/l	25.0	5	"	"	"	"	"
56-23-5	Carbon tetrachloride	BRL		µg/l	5.0	5	"	"	"	"	"
108-90-7	Chlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	"
75-00-3	Chloroethane	BRL		µg/l	10.0	5	"	"	"	"	"
67-66-3	Chloroform	BRL		µg/l	5.0	5	"	"	"	"	"
74-87-3	Chloromethane	BRL		µg/l	10.0	5	"	"	"	"	"
95-49-8	2-Chlorotoluene	BRL		µg/l	5.0	5	"	"	"	"	"
106-43-4	4-Chlorotoluene	BRL		µg/l	5.0	5	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	10.0	5	"	"	"	"	"
124-48-1	Dibromochloromethane	BRL		µg/l	5.0	5	"	"	"	"	"
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	5.0	5	"	"	"	"	"
74-95-3	Dibromomethane	BRL		µg/l	5.0	5	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	"
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	10.0	5	"	"	"	"	"
75-34-3	1,1-Dichloroethane	BRL		µg/l	5.0	5	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/l	5.0	5	"	"	"	"	"
75-35-4	1,1-Dichloroethene	BRL		µg/l	5.0	5	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	5.0	5	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	5.0	5	"	"	"	"	"
78-87-5	1,2-Dichloropropane	BRL		µg/l	5.0	5	"	"	"	"	"
142-28-9	1,3-Dichloropropane	BRL		µg/l	5.0	5	"	"	"	"	"
594-20-7	2,2-Dichloropropane	BRL		µg/l	5.0	5	"	"	"	"	"
563-58-6	1,1-Dichloropropene	BRL		µg/l	5.0	5	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	5.0	5	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	5.0	5	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/l	5.0	5	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/l	5.0	5	"	"	"	"	"
591-78-6	2-Hexanone (MBK)	BRL		µg/l	50.0	5	"	"	"	"	"
98-82-8	Isopropylbenzene	15.2		µg/l	5.0	5	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/l	5.0	5	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	51.4		µg/l	5.0	5	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	50.0	5	"	"	"	"	"
75-09-2	Methylene chloride	BRL		µg/l	50.0	5	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/l	5.0	5	"	"	"	"	"
103-65-1	n-Propylbenzene	46.2		µg/l	5.0	5	"	"	"	"	"
100-42-5	Styrene	BRL		µg/l	5.0	5	"	"	"	"	"

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
KOW-4 SA37681-01	6006-05	Ground Water	28-Nov-05 10:45	28-Nov-05

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
Volatile Organic Compounds			R-05								
Prepared by method	SW846 5030 Water MS										
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	5.0	5	SW 846 8260B	05-Dec-05	05-Dec-05	5120236	RLJ
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	5.0	5	"	"	"	"	"
127-18-4	Tetrachloroethene	BRL		µg/l	5.0	5	"	"	"	"	"
108-88-3	Toluene	BRL		µg/l	5.0	5	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	5.0	5	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	5.0	5	"	"	"	"	"
79-01-6	Trichloroethene	BRL		µg/l	5.0	5	"	"	"	"	"
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	5.0	5	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	5.0	5	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	5.0	5	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	5.0	5	"	"	"	"	"
75-01-4	Vinyl chloride	BRL		µg/l	5.0	5	"	"	"	"	"
1330-20-7	m,p-Xylene	BRL		µg/l	10.0	5	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/l	5.0	5	"	"	"	"	"
109-99-9	Tetrahydrofuran	BRL		µg/l	50.0	5	"	"	"	"	"
60-29-7	Ethyl ether	BRL		µg/l	5.0	5	"	"	"	"	"
994-05-8	Tert-amyl methyl ether	BRL		µg/l	5.0	5	"	"	"	"	"
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	5.0	5	"	"	"	"	"
108-20-3	Di-isopropyl ether	BRL		µg/l	5.0	5	"	"	"	"	"
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	50.0	5	"	"	"	"	"
123-91-1	1,4-Dioxane	BRL		µg/l	100	5	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*95.8*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*98.0*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*82 6*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*93.0*		*70-130 %*			"	"	"	"	"
Microextractable Organic Compounds											
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.0100	1	EPA 504.1	29-Nov-05	30-Nov-05	5111770	SM
Extractable Petroleum Hydrocarbons											
	Non-polar material (SGT-HEM)	BRL		mg/l	1.0	1	EPA 1664	29-Nov-05	01-Dec-05	5111847	JK
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by EPA 608											
Prepared by method	SW846 3535										
12674-11-2	PCB 1016	BRL		µg/l	0.333	1	EPA 608	29-Nov-05	01-Dec-05	5111833	SM
11104-28-2	PCB 1221	BRL		µg/l	0.333	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/l	0.333	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/l	0.333	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/l	0.333	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/l	0.333	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/l	0.333	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/l	0.333	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/l	0.333	1	"	"	"	"	"
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*50.2*		*30-150 %*			"	"	"	"	"
2051-24-3	*Decachlorobiphenyl (Sr)*	*90.1*		*30-150 %*			"	"	"	"	"
Semivolatile Organic Compounds by GCMS											

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
KOW-4 SA37681-01	6006-05	Ground Water	28-Nov-05 10:45	28-Nov-05

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by EPA 625											
Prepared by method SW846 3535											
83-32-9	Acenaphthene	BRL		µg/l	5.00	1	EPA 625	29-Nov-05	30-Nov-05	5111780	
208-96-8	Acenaphthylene	BRL		µg/l	5.00	1	"	"	"	"	"
62-53-3	Aniline	BRL		µg/l	5.00	1	"	"	"	"	"
120-12-7	Anthracene	BRL		µg/l	5.00	1	"	"	"	"	"
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/l	5.00	1	"	"	"	"	"
92-87-5	Benzidine	BRL		µg/l	5.00	1	"	"	"	"	"
56-55-3	Benzo (a) anthracene	BRL		µg/l	5.00	1	"	"	"	"	"
50-32-8	Benzo (a) pyrene	BRL		µg/l	5.00	1	"	"	"	"	"
205-99-2	Benzo (b) fluoranthene	BRL		µg/l	5.00	1	"	"	"	"	"
191-24-2	Benzo (g,h,i) perylene	BRL		µg/l	5.00	1	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	BRL		µg/l	5.00	1	"	"	"	"	"
65-85-0	Benzoic acid	BRL		µg/l	5.00	1	"	"	"	"	"
100-51-6	Benzyl alcohol	BRL		µg/l	5.00	1	"	"	"	"	"
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/l	5.00	1	"	"	"	"	"
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/l	5.00	1	"	"	"	"	"
39638-32-9	Bis(2-chloroisopropyl)ether	BRL		µg/l	5.00	1	"	"	"	"	"
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/l	5.00	1	"	"	"	"	"
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/l	5.00	1	"	"	"	"	"
85-68-7	Butyl benzyl phthalate	BRL		µg/l	5.00	1	"	"	"	"	"
86-74-8	Carbazole	BRL		µg/l	5.00	1	"	"	"	"	"
59-50-7	4-Chloro-3-methylphenol	BRL		µg/l	5.00	1	"	"	"	"	"
106-47-8	4-Chloroaniline	BRL		µg/l	5.00	1	"	"	"	"	"
91-58-7	2-Chloronaphthalene	BRL		µg/l	5.00	1	"	"	"	"	"
95-57-8	2-Chlorophenol	BRL		µg/l	5.00	1	"	"	"	"	"
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/l	5.00	1	"	"	"	"	"
218-01-9	Chrysene	BRL		µg/l	5.00	1	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/l	5.00	1	"	"	"	"	"
132-64-9	Dibenzofuran	BRL		µg/l	5.00	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	5.00	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	5.00	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	5.00	1	"	"	"	"	"
91-94-1	3,3`-Dichlorobenzidine	BRL		µg/l	5.00	1	"	"	"	"	"
120-83-2	2,4-Dichlorophenol	BRL		µg/l	5.00	1	"	"	"	"	"
84-66-2	Diethyl phthalate	BRL		µg/l	5.00	1	"	"	"	"	"
131-11-3	Dimethyl phthalate	BRL		µg/l	5.00	1	"	"	"	"	"
105-67-9	2,4-Dimethylphenol	BRL		µg/l	5.00	1	"	"	"	"	"
84-74-2	Di-n-butyl phthalate	BRL		µg/l	5.00	1	"	"	"	"	"
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/l	5.00	1	"	"	"	"	"
51-28-5	2,4-Dinitrophenol	BRL		µg/l	5.00	1	"	"	"	"	"
121-14-2	2,4-Dinitrotoluene	BRL		µg/l	5.00	1	"	"	"	"	"
606-20-2	2,6-Dinitrotoluene	BRL		µg/l	5.00	1	"	"	"	"	"
117-84-0	Di-n-octyl phthalate	BRL		µg/l	5.00	1	"	"	"	"	"
206-44-0	Fluoranthene	BRL		µg/l	5.00	1	"	"	"	"	"
86-73-7	Fluorene	BRL		µg/l	5.00	1	"	"	"	"	"
118-74-1	Hexachlorobenzene	BRL		µg/l	5.00	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/l	5.00	1	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	BRL		µg/l	5.00	1	"	"	"	"	"
67-72-1	Hexachloroethane	BRL		µg/l	5.00	1	"	"	"	"	"
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.00	1	"	"	"	"	"
78-59-1	Isophorone	BRL		µg/l	5.00	1	"	"	"	"	"

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
KOW-4 SA37681-01	6006-05	Ground Water	28-Nov-05 10:45	28-Nov-05

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by EPA 625											
Prepared by method SW846 3535											
91-57-6	2-Methylnaphthalene	BRL		µg/l	5.00	1	EPA 625	29-Nov-05	30-Nov-05	5111780	
95-48-7	2-Methylphenol	BRL		µg/l	5.00	1	"	"	"	"	"
108-39-4, 106-44-5	3,4-Methylphenol	BRL		µg/l	10.0	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/l	5.00	1	"	"	"	"	"
88-74-4	2-Nitroaniline	BRL		µg/l	5.00	1	"	"	"	"	"
99-09-2	3-Nitroaniline	BRL		µg/l	5.00	1	"	"	"	"	"
100-01-6	4-Nitroaniline	BRL		µg/l	5.00	1	"	"	"	"	"
98-95-3	Nitrobenzene	BRL		µg/l	5.00	1	"	"	"	"	"
88-75-5	2-Nitrophenol	BRL		µg/l	5.00	1	"	"	"	"	"
100-02-7	4-Nitrophenol	BRL		µg/l	5.00	1	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	BRL		µg/l	5.00	1	"	"	"	"	"
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/l	5.00	1	"	"	"	"	"
86-30-6	N-Nitrosodiphenylamine	BRL		µg/l	5.00	1	"	"	"	"	"
87-86-5	Pentachlorophenol	BRL		µg/l	5.00	1	"	"	"	"	"
85-01-8	Phenanthrene	BRL		µg/l	5.00	1	"	"	"	"	"
108-95-2	Phenol	BRL		µg/l	5.00	1	"	"	"	"	"
129-00-0	Pyrene	BRL		µg/l	5.00	1	"	"	"	"	"
110-86-1	Pyridine	BRL		µg/l	5.00	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	5.00	1	"	"	"	"	"
95-95-4	2,4,5-Trichlorophenol	BRL		µg/l	5.00	1	"	"	"	"	"
88-06-2	2,4,6-Trichlorophenol	BRL		µg/l	5.00	1	"	"	"	"	"
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*77.8*		*30-130 %*			"	"	"	"	"
367-12-4	*2-Fluorophenol*	*81.6*		*15-110 %*			"	"	"	"	"
4165-60-0	*Nitrobenzene-d5*	*69.4*		*30-130 %*			"	"	"	"	"
4165-62-2	*Phenol-d5*	*71.6*		*15-110 %*			"	"	"	"	"
1718-51-0	*Terphenyl-dl4*	*99.9*		*30-130 %*			"	"	"	"	"
118-79-6	*2,4,6-Tribromophenol*	*64.0*		*15-110 %*			"	"	"	"	"
Total Metals by EPA 200 Series Methods											
7440-22-4	Silver	BRL		mg/l	0.0050	1	EPA 200.7	06-Dec-05	07-Dec-05	5120176	RE
7440-38-2	Arsenic	0.0914		mg/l	0.0040	1	"	"	"	"	"
7440-43-9	Cadmium	BRL		mg/l	0.0012	1	"	"	"	"	"
7440-47-3	Chromium	BRL		mg/l	0.0025	1	"	"	"	"	"
7440-50-8	Copper	BRL		mg/l	0.0025	1	"	"	"	"	"
7439-89-6	Iron	35.0		mg/l	0.0025	1	"	"	"	"	"
7439-97-6	Mercury	BRL		mg/l	0.00020	1	EPA 245.2/7470A	"	07-Dec-05	5120178	YP
7440-02-0	Nickel	BRL		mg/l	0.0025	1	EPA 200.7	"	07-Dec-05	5120176	RE
7439-92-1	Lead	BRL		mg/l	0.0038	1	"	"	"	"	"
7440-36-0	Antimony	BRL		mg/l	0.0060	1	"	"	"	"	"
7782-49-2	Selenium	BRL		mg/l	0.0075	1	"	"	"	"	"
7440-66-6	Zinc	BRL		mg/l	0.0055	1	"	"	"	"	"
General Chemistry Parameters											
1854-029-9	Hexavalent Chromium	BRL	R-01	mg/l	0.025	5	SM3500CrD/7196A	28-Nov-05 17:15	28-Nov-05	5111763	ES
57-12-5	Cyanide (total)	BRL		mg/l	0.0100	1	10-204-00-1-A / SW-846 9012A	05-Dec-05	05-Dec-05	5120348	EK
7782-50-5	Total Residual Chlorine	BRL	R-01	mg/l	0.200	10	Hach 8167	28-Nov-05 16:15	28-Nov-05	5111769	ES
Subcontracted Analyses											
	Total Suspended Solids	500		mg/l	10		SM2540D		01-Dec-05	'[none]'	CT007

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* Reportable Detection Limit BRL = Below Reporting Limit

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 5120236 - SW846 5030 Water MS										
Blank (5120236-BLK1)										
Prepared & Analyzed: 05-Dec-05										
Acetone	BRL		µg/l	10.0						
Acrylonitrile	BRL		µg/l	1.0						
Benzene	BRL		µg/l	1.0						
Bromobenzene	BRL		µg/l	1.0						
Bromochloromethane	BRL		µg/l	1.0						
Bromodichloromethane	BRL		µg/l	1.0						
Bromoform	BRL		µg/l	1.0						
Bromomethane	BRL		µg/l	2.0						
2-Butanone (MEK)	BRL		µg/l	10.0						
n-Butylbenzene	BRL		µg/l	1.0						
sec-Butylbenzene	BRL		µg/l	1.0						
tert-Butylbenzene	BRL		µg/l	1.0						
Carbon disulfide	BRL		µg/l	5.0						
Carbon tetrachloride	BRL		µg/l	1.0						
Chlorobenzene	BRL		µg/l	1.0						
Chloroethane	BRL		µg/l	2.0						
Chloroform	BRL		µg/l	1.0						
Chloromethane	BRL		µg/l	2.0						
2-Chlorotoluene	BRL		µg/l	1.0						
4-Chlorotoluene	BRL		µg/l	1.0						
1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0						
Dibromochloromethane	BRL		µg/l	1.0						
1,2-Dibromoethane (EDB)	BRL		µg/l	1.0						
Dibromomethane	BRL		µg/l	1.0						
1,2-Dichlorobenzene	BRL		µg/l	1.0						
1,3-Dichlorobenzene	BRL		µg/l	1.0						
1,4-Dichlorobenzene	BRL		µg/l	1.0						
Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0						
1,1-Dichloroethane	BRL		µg/l	1.0						
1,2-Dichloroethane	BRL		µg/l	1.0						
1,1-Dichloroethene	BRL		µg/l	1.0						
cis-1,2-Dichloroethene	BRL		µg/l	1.0						
trans-1,2-Dichloroethene	BRL		µg/l	1.0						
1,2-Dichloropropane	BRL		µg/l	1.0						
1,3-Dichloropropane	BRL		µg/l	1.0						
2,2-Dichloropropane	BRL		µg/l	1.0						
1,1-Dichloropropene	BRL		µg/l	1.0						
cis-1,3-Dichloropropene	BRL		µg/l	1.0						
trans-1,3-Dichloropropene	BRL		µg/l	1.0						
Ethylbenzene	BRL		µg/l	1.0						
Hexachlorobutadiene	BRL		µg/l	1.0						
2-Hexanone (MBK)	BRL		µg/l	10.0						
Isopropylbenzene	BRL		µg/l	1.0						
4-Isopropyltoluene	BRL		µg/l	1.0						
Methyl tert-butyl ether	BRL		µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0						
Methylene chloride	BRL		µg/l	10.0						
Naphthalene	BRL		µg/l	1.0						
n-Propylbenzene	BRL		µg/l	1.0						
Styrene	BRL		µg/l	1.0						
1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0						
1,1,2,2-Tetrachloroethane	BRL		µg/l	1.0						
Tetrachloroethene	BRL		µg/l	1.0						
Toluene	BRL		µg/l	1.0						
1,2,3-Trichlorobenzene	BRL		µg/l	1.0						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 5120236 - SW846 5030 Water MS										
Blank (5120236-BLK1)										
Prepared & Analyzed: 05-Dec-05										
1,2,4-Trichlorobenzene	BRL		µg/l	1 0						
1,1,1-Trichloroethane	BRL		µg/l	1 0						
1,1,2-Trichloroethane	BRL		µg/l	1 0						
Trichloroethene	BRL		µg/l	1 0						
Trichlorofluoromethane (Freon 11)	BRL		µg/l	1 0						
1,2,3-Trichloropropane	BRL		µg/l	1 0						
1,2,4-Trimethylbenzene	BRL		µg/l	1 0						
1,3,5-Trimethylbenzene	BRL		µg/l	1.0						
Vinyl chloride	BRL		µg/l	1 0						
m,p-Xylene	BRL		µg/l	2.0						
o-Xylene	BRL		µg/l	1.0						
Tetrahydrofuran	BRL		µg/l	10.0						
Ethyl ether	BRL		µg/l	1 0						
Tert-amyl methyl ether	BRL		µg/l	1 0						
Ethyl tert-butyl ether	BRL		µg/l	1 0						
Di-Isopropyl ether	BRL		µg/l	1 0						
Tert-Butanol / butyl alcohol	BRL		µg/l	10.0						
1,4-Dioxane	BRL		µg/l	20.0						
Surrogate: 4-Bromofluorobenzene	*48.3*		µg/l		*50.0*		*96.6*	*70-130*		
Surrogate: Toluene-d8	*48.6*		µg/l		*50.0*		*97.2*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*43.4*		µg/l		*50.0*		*86.8*	*70-130*		
Surrogate: Dibromofluoromethane	*49.0*		µg/l		*50.0*		*98.0*	*70-130*		
LCS (5120236-BS1)										
Prepared & Analyzed: 05-Dec-05										
Acetone	23.3		µg/l		20.0		116	2 17-194		
Acrylonitrile	24.6		µg/l		20.0		123	70-130		
Benzene	21 9		µg/l		20.0		110	70-130		
Bromobenzene	20.4		µg/l		20.0		102	70-130		
Bromochloromethane	20.1		µg/l		20.0		100	70-130		
Bromodichloromethane	18.8		µg/l		20.0		94 0	70-130		
Bromoform	20.6		µg/l		20.0		103	70-130		
Bromomethane	20.6		µg/l		20.0		103	61 9-145		
2-Butanone (MEK)	17 5		µg/l		20.0		87 5	14 9-165		
n-Butylbenzene	19.4		µg/l		20.0		97 0	70-130		
sec-Butylbenzene	20.2		µg/l		20.0		101	70-130		
tert-Butylbenzene	19 3		µg/l		20.0		96.5	70-130		
Carbon disulfide	21 5		µg/l		20.0		108	70-130		
Carbon tetrachloride	16 9		µg/l		20.0		84.5	70-130		
Chlorobenzene	21 8		µg/l		20.0		109	70-130		
Chloroethane	21 5		µg/l		20.0		108	64.4-134		
Chloroform	17 5		µg/l		20.0		87 5	70-130		
Chloromethane	31.8	QC-2	µg/l		20.0		159	70-130		
2-Chlorotoluene	21 0		µg/l		20.0		105	70-130		
4-Chlorotoluene	20.7		µg/l		20.0		104	70-130		
1,2-Dibromo-3-chloropropane	17 9		µg/l		20.0		89 5	70-130		
Dibromochloromethane	18.0		µg/l		20.0		90.0	45.3-146		
1,2-Dibromoethane (EDB)	18 9		µg/l		20.0		94.5	70-130		
Dibromomethane	19 6		µg/l		20.0		98.0	70-130		
1,2-Dichlorobenzene	20.7		µg/l		20.0		104	70-130		
1,3-Dichlorobenzene	21 0		µg/l		20.0		105	70-130		
1,4-Dichlorobenzene	19 9		µg/l		20.0		99.5	70-130		
Dichlorodifluoromethane (Freon12)	27.8		µg/l		20.0		139	49.6-201		
1,1-Dichloroethane	20.4		µg/l		20.0		102	70-130		
1,2-Dichloroethane	16.2		µg/l		20.0		81 0	70-130		
1,1-Dichloroethene	20.3		µg/l		20.0		102	70-130		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 5120236 - SW846 5030 Water MS										
LCS (5120236-BS1)										
Prepared & Analyzed: 05-Dec-05										
cis-1,2-Dichloroethene	20.0		µg/l		20.0		100	70-130		
trans-1,2-Dichloroethene	19.4		µg/l		20.0		97.0	70-130		
1,2-Dichloropropane	21.4		µg/l		20.0		107	70-130		
1,3-Dichloropropane	20.0		µg/l		20.0		100	70-130		
2,2-Dichloropropane	13.6	QC-2	µg/l		20.0		68.0	70-130		
1,1-Dichloropropene	17.5		µg/l		20.0		87.5	70-130		
cis-1,3-Dichloropropene	17.0		µg/l		20.0		85.0	70-130		
trans-1,3-Dichloropropene	16.3		µg/l		20.0		81.5	70-130		
Ethylbenzene	20.5		µg/l		20.0		102	70-130		
Hexachlorobutadiene	16.6		µg/l		20.0		83.0	68.6-137		
2-Hexanone (MBK)	16.6		µg/l		20.0		83.0	70-130		
Isopropylbenzene	19.1		µg/l		20.0		95.5	70-130		
4-Isopropyltoluene	19.7		µg/l		20.0		98.5	70-130		
Methyl tert-butyl ether	16.3		µg/l		20.0		81.5	70-130		
4-Methyl-2-pentanone (MIBK)	17.9		µg/l		20.0		89.5	48.6-137		
Methylene chloride	19.8		µg/l		20.0		99.0	70-130		
Naphthalene	18.5		µg/l		20.0		92.5	70-130		
n-Propylbenzene	18.8		µg/l		20.0		94.0	70-130		
Styrene	21.4		µg/l		20.0		107	70-130		
1,1,1,2-Tetrachloroethane	20.3		µg/l		20.0		102	70-130		
1,1,2,2-Tetrachloroethane	24.4		µg/l		20.0		122	70-130		
Tetrachloroethene	17.4		µg/l		20.0		87.0	70-130		
Toluene	20.0		µg/l		20.0		100	70-130		
1,2,3-Trichlorobenzene	18.6		µg/l		20.0		93.0	70-130		
1,2,4-Trichlorobenzene	16.7		µg/l		20.0		83.5	70-130		
1,1,1-Trichloroethane	17.1		µg/l		20.0		85.5	70-130		
1,1,2-Trichloroethane	21.0		µg/l		20.0		105	70-130		
Trichloroethene	17.7		µg/l		20.0		88.5	70-130		
Trichlorofluoromethane (Freon 11)	20.5		µg/l		20.0		102	67.9-143		
1,2,3-Trichloropropane	21.9		µg/l		20.0		110	70-130		
1,2,4-Trimethylbenzene	20.7		µg/l		20.0		104	70-130		
1,3,5-Trimethylbenzene	20.4		µg/l		20.0		102	70-130		
Vinyl chloride	25.0		µg/l		20.0		125	70-130		
m,p-Xylene	43.3		µg/l		40.0		108	70-130		
o-Xylene	22.6		µg/l		20.0		113	70-130		
Tetrahydrofuran	19.3		µg/l		20.0		96.5	70-130		
Ethyl ether	22.1		µg/l		20.0		110	70-136		
Tert-amyl methyl ether	27.6	QC-2	µg/l		20.0		138	70-130		
Ethyl tert-butyl ether	17.1		µg/l		20.0		85.5	70-130		
Di-isopropyl ether	20.0		µg/l		20.0		100	70-130		
Tert-Butanol / butyl alcohol	162		µg/l		200		81.0	70-130		
1,4-Dioxane	161		µg/l		200		80.5	36.5-156		
Surrogate: 4-Bromofluorobenzene	*51.3*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*49.0*		µg/l		*50.0*		*98.0*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*42.1*		µg/l		*50.0*		*84.2*	*70-130*		
Surrogate: Dibromofluoromethane	*47.8*		µg/l		*50.0*		*95.6*	*70-130*		
LCS Dup (5120236-BSD1)										
Prepared & Analyzed: 05-Dec-05										
Acetone	22.1		µg/l		20.0		110	2.17-194	5.31	50
Acrylonitrile	23.9		µg/l		20.0		120	70-130	2.47	25
Benzene	20.8		µg/l		20.0		104	70-130	5.61	25
Bromobenzene	19.4		µg/l		20.0		97.0	70-130	5.03	25
Bromochloromethane	19.4		µg/l		20.0		97.0	70-130	3.05	25
Bromodichloromethane	18.0		µg/l		20.0		90.0	70-130	4.35	25
Bromoform	19.8		µg/l		20.0		99.0	70-130	3.96	25

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 5120236 - SW846 5030 Water MS										
LCS Dup (5120236-BSD1)										
Prepared & Analyzed: 05-Dec-05										
Bromomethane	17 9		µg/l		20.0		89.5	61 9-145	14.0	50
2-Butanone (MEK)	17.4		µg/l		20.0		87 0	14.9-165	0.573	50
n-Butylbenzene	19.0		µg/l		20.0		95.0	70-130	2.08	25
sec-Butylbenzene	18.4		µg/l		20.0		92.0	70-130	9.33	25
tert-Butylbenzene	17 9		µg/l		20.0		89.5	70-130	7 53	25
Carbon disulfide	20.3		µg/l		20.0		102	70-130	5.71	25
Carbon tetrachloride	15 8		µg/l		20.0		79.0	70-130	6.73	25
Chlorobenzene	21 1		µg/l		20.0		106	70-130	2.79	25
Chloroethane	20.2		µg/l		20.0		101	64.4-134	6.70	50
Chloroform	16.7		µg/l		20.0		83.5	70-130	4.68	25
Chloromethane	32 1	QC-2	µg/l		20.0		160	70-130	0.627	25
2-Chlorotoluene	20.0		µg/l		20.0		100	70-130	4.88	25
4-Chlorotoluene	19.6		µg/l		20.0		98.0	70-130	5.94	25
1,2-Dibromo-3-chloropropane	17 0		µg/l		20.0		85.0	70-130	5.16	25
Dibromochloromethane	16.9		µg/l		20.0		84.5	45 3-146	6 30	50
1,2-Dibromoethane (EDB)	17 9		µg/l		20.0		89.5	70-130	5.43	25
Dibromomethane	18.7		µg/l		20.0		93.5	70-130	4.70	25
1.2-Dichlorobenzene	20.0		µg/l		20.0		100	70-130	3 92	25
1.3-Dichlorobenzene	19.7		µg/l		20.0		98 5	70-130	6.39	25
1,4-Dichlorobenzene	19.2		µg/l		20.0		96.0	70-130	3.58	25
Dichlorodifluoromethane (Freon12)	26 2		µg/l		20.0		131	49.6-201	5.93	50
1,1-Dichloroethane	19.7		µg/l		20.0		98.5	70-130	3.49	25
1,2-Dichloroethane	15 5		µg/l		20.0		77 5	70-130	4.42	25
1,1-Dichloroethene	19 5		µg/l		20.0		97 5	70-130	4.51	25
cis-1,2-Dichloroethene	19.2		µg/l		20.0		96.0	70-130	4 08	25
trans-1,2-Dichloroethene	18.7		µg/l		20.0		93.5	70-130	3.67	25
1,2-Dichloropropane	20.4		µg/l		20.0		102	70-130	4.78	25
1,3-Dichloropropane	19.2		µg/l		20.0		96.0	70-130	4 08	25
2,2-Dichloropropane	12.9	QC-2	µg/l		20.0		64 5	70-130	5 28	25
1,1-Dichloropropene	16.8		µg/l		20.0		84.0	70-130	4 08	25
cis-1,3-Dichloropropene	16.2		µg/l		20.0		81.0	70-130	4 82	25
trans-1,3-Dichloropropene	15.5		µg/l		20.0		77 5	70-130	5.03	25
Ethylbenzene	19.8		µg/l		20.0		99.0	70-130	2 99	25
Hexachlorobutadiene	15.5		µg/l		20.0		77 5	68 6-137	6.85	50
2-Hexanone (MBK)	14.1		µg/l		20.0		70.5	70-130	16.3	25
Isopropylbenzene	18 3		µg/l		20.0		91 5	70-130	4 28	25
4-Isopropyltoluene	19.0		µg/l		20.0		95.0	70-130	3.62	25
Methyl tert-butyl ether	15.6		µg/l		20.0		78.0	70-130	4 39	25
4-Methyl-2-pentanone (MIBK)	16.3		µg/l		20.0		81 5	48.6-137	9 36	50
Methylene chloride	18.7		µg/l		20.0		93.5	70-130	5.71	25
Naphthalene	18.0		µg/l		20.0		90.0	70-130	2 74	25
n-Propylbenzene	17 5		µg/l		20.0		87 5	70-130	7 16	25
Styrene	20.5		µg/l		20.0		102	70-130	4 78	25
1,1,1,2-Tetrachloroethane	19.4		µg/l		20.0		97 0	70-130	5.03	25
1,1,2,2-Tetrachloroethane	23.5		µg/l		20.0		118	70-130	3.33	25
Tetrachloroethene	16.6		µg/l		20.0		83 0	70-130	4 71	25
Toluene	19.0		µg/l		20.0		95.0	70-130	5 13	25
1,2,3-Trichlorobenzene	18.4		µg/l		20.0		92.0	70-130	1.08	25
1,2,4-Trichlorobenzene	16 1		µg/l		20.0		80.5	70-130	3.66	25
1,1,1-Trichloroethane	16.2		µg/l		20.0		81 0	70-130	5.41	25
1,1,2-Trichloroethane	20.1		µg/l		20.0		100	70-130	4 68	25
Trichloroethene	16.9		µg/l		20.0		84 5	70-130	4.62	25
Trichlorofluoromethane (Freon 11)	19 3		µg/l		20.0		96.5	67 9-143	5 54	50
1,2,3-Trichloropropane	21 5		µg/l		20.0		108	70-130	1 83	25
1,2,4-Trimethylbenzene	19.5		µg/l		20.0		97 5	70-130	6.45	25

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 5120236 - SW846 5030 Water MS										
LCS Dup (5120236-BSD1)										
Prepared & Analyzed: 05-Dec-05										
1,3,5-Trimethylbenzene	19.8		µg/l		20.0		99.0	70-130	2.99	25
Vinyl chloride	23.3		µg/l		20.0		116	70-130	7.47	25
m,p-Xylene	41.6		µg/l		40.0		104	70-130	3.77	25
o-Xylene	22.0		µg/l		20.0		110	70-130	2.69	25
Tetrahydrofuran	19.0		µg/l		20.0		95.0	70-130	1.57	25
Ethyl ether	21.6		µg/l		20.0		108	70-136	1.83	50
Tert-amyl methyl ether	26.4	QC-2	µg/l		20.0		132	70-130	4.44	25
Ethyl tert-butyl ether	16.2		µg/l		20.0		81.0	70-130	5.41	25
Di-Isopropyl ether	19.4		µg/l		20.0		97.0	70-130	3.05	25
Tert-Butanol / butyl alcohol	153		µg/l		200		76.5	70-130	5.71	25
1,4-Dioxane	148		µg/l		200		74.0	36.5-156	8.41	25
Surrogate: 4-Bromofluorobenzene	*50.7*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*48.8*		µg/l		*50.0*		*97.6*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*41.4*		µg/l		*50.0*		*82.8*	*70-130*		
Surrogate: Dibromofluoromethane	*47.6*		µg/l		*50.0*		*95.2*	*70-130*		
Matrix Spike (5120236-MS1)	Source: SA37867-04									
Prepared & Analyzed: 05-Dec-05										
Benzene	24.3		µg/l		20.0	BRL	122	70-130		
Chlorobenzene	23.7		µg/l		20.0	BRL	118	70-130		
1,1-Dichloroethene	24.1		µg/l		20.0	BRL	120	70-130		
Toluene	23.5		µg/l		20.0	1.21	111	70-130		
Trichloroethene	20.8		µg/l		20.0	BRL	104	70-130		
Surrogate: 4-Bromofluorobenzene	*51.3*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*49.0*		µg/l		*50.0*		*98.0*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*42.9*		µg/l		*50.0*		*85.8*	*70-130*		
Surrogate: Dibromofluoromethane	*47.6*		µg/l		*50.0*		*95.2*	*70-130*		
Matrix Spike Dup (5120236-MSD1)	Source: SA37867-04									
Prepared & Analyzed: 05-Dec-05										
Benzene	24.4		µg/l		20.0	BRL	122	70-130	0.00	30
Chlorobenzene	23.9		µg/l		20.0	BRL	120	70-130	1.68	30
1,1-Dichloroethene	24.3		µg/l		20.0	BRL	122	70-130	1.65	30
Toluene	24.0		µg/l		20.0	1.21	114	70-130	2.67	30
Trichloroethene	20.2		µg/l		20.0	BRL	101	70-130	2.93	30
Surrogate: 4-Bromofluorobenzene	*53.0*		µg/l		*50.0*		*106*	*70-130*		
Surrogate: Toluene-d8	*49.5*		µg/l		*50.0*		*99.0*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*43.3*		µg/l		*50.0*		*86.6*	*70-130*		
Surrogate: Dibromofluoromethane	*47.9*		µg/l		*50.0*		*95.8*	*70-130*		

Microextractable Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 5111770 - Microextr. by 504.1										
Blank (5111770-BLK1)										
Prepared: 29-Nov-05 Analyzed: 30-Nov-05										
1,2-Dibromoethane (EDB)	BRL		µg/l	0.0100						
LCS (5111770-BS1)										
Prepared: 29-Nov-05 Analyzed: 30-Nov-05										
1,2-Dibromoethane (EDB)	0.264		µg/l	0.0100	0.500		52.8	50-150		
Duplicate (5111770-DUP1)	Source: SA37488-09									
Prepared: 29-Nov-05 Analyzed: 30-Nov-05										
1,2-Dibromoethane (EDB)	BRL		µg/l	0.0100		BRL				30

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 5111847 - SW846 3510C										
Blank (5111847-BLK1)										
Prepared: 29-Nov-05 Analyzed: 01-Dec-05										
Non-polar material (SGT-HEM)	BRL		mg/l	1 0						
LCS (5111847-BS1)										
Prepared: 29-Nov-05 Analyzed: 01-Dec-05										
Non-polar material (SGT-HEM)	54.8		mg/l		62 5		87 7	0-200		

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 5111833 - SW846 3535										
Blank (5111833-BLK1)										
Prepared: 29-Nov-05 Analyzed: 01-Dec-05										
PCB 1016	BRL		µg/l	0.200						
PCB 1221	BRL		µg/l	0.200						
PCB 1232	BRL		µg/l	0.200						
PCB 1242	BRL		µg/l	0.200						
PCB 1248	BRL		µg/l	0.200						
PCB 1254	BRL		µg/l	0.200						
PCB 1260	BRL		µg/l	0.200						
PCB 1262	BRL		µg/l	0.200						
PCB 1268	BRL		µg/l	0.200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.0900*		µg/l		*0.200*		*45.0*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.140*		µg/l		*0.200*		*70.0*	*30-150*		
LCS (5111833-BS1)										
Prepared: 29-Nov-05 Analyzed: 01-Dec-05										
PCB 1016	2 04		µg/l	0.200	2.50		81 6	40-140		
PCB 1260	2.14		µg/l	0.200	2.50		85.6	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.110*		µg/l		*0.200*		*55.0*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.200*		µg/l		*0.200*		*100*	*30-150*		

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 5111780 - SW846 3535										
Blank (5111780-BLK1)										
Prepared & Analyzed: 29-Nov-05										
Acenaphthene	BRL		µg/l	5.00						
Acenaphthylene	BRL		µg/l	5.00						
Aniline	BRL		µg/l	5.00						
Anthracene	BRL		µg/l	5.00						
Azobenzene/Diphenyldiazine	BRL		µg/l	5.00						
Benzidine	BRL		µg/l	5.00						
Benzo (a) anthracene	BRL		µg/l	5.00						
Benzo (a) pyrene	BRL		µg/l	5.00						
Benzo (b) fluoranthene	BRL		µg/l	5.00						
Benzo (g,h,i) perylene	BRL		µg/l	5.00						
Benzo (k) fluoranthene	BRL		µg/l	5.00						
Benzoic acid	BRL		µg/l	5.00						
Benzyl alcohol	BRL		µg/l	5.00						
Bis(2-chloroethoxy)methane	BRL		µg/l	5.00						
Bis(2-chloroethyl)ether	BRL		µg/l	5.00						
Bis(2-chloroisopropyl)ether	BRL		µg/l	5.00						
Bis(2-ethylhexyl)phthalate	BRL		µg/l	5.00						
4-Bromophenyl phenyl ether	BRL		µg/l	5.00						
Butyl benzyl phthalate	BRL		µg/l	5.00						
Carbazole	BRL		µg/l	5.00						
4-Chloro-3-methylphenol	BRL		µg/l	5.00						
4-Chloroaniline	BRL		µg/l	5.00						
2-Chloronaphthalene	BRL		µg/l	5.00						
2-Chlorophenol	BRL		µg/l	5.00						
4-Chlorophenyl phenyl ether	BRL		µg/l	5.00						
Chrysene	BRL		µg/l	5.00						
Dibenzo (a,h) anthracene	BRL		µg/l	5.00						
Dibenzofuran	BRL		µg/l	5.00						
1,2-Dichlorobenzene	BRL		µg/l	5.00						
1,3-Dichlorobenzene	BRL		µg/l	5.00						
1,4-Dichlorobenzene	BRL		µg/l	5.00						
3,3'-Dichlorobenzidine	BRL		µg/l	5.00						
2,4-Dichlorophenol	BRL		µg/l	5.00						
Diethyl phthalate	BRL		µg/l	5.00						
Dimethyl phthalate	BRL		µg/l	5.00						
2,4-Dimethylphenol	BRL		µg/l	5.00						
Di-n-butyl phthalate	BRL		µg/l	5.00						
4,6-Dinitro-2-methylphenol	BRL		µg/l	5.00						
2,4-Dinitrophenol	BRL		µg/l	5.00						
2,4-Dinitrotoluene	BRL		µg/l	5.00						
2,6-Dinitrotoluene	BRL		µg/l	5.00						
Di-n-octyl phthalate	BRL		µg/l	5.00						
Fluoranthene	BRL		µg/l	5.00						
Fluorene	BRL		µg/l	5.00						
Hexachlorobenzene	BRL		µg/l	5.00						
Hexachlorobutadiene	BRL		µg/l	5.00						
Hexachlorocyclopentadiene	BRL		µg/l	5.00						
Hexachloroethane	BRL		µg/l	5.00						
Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.00						
Isophorone	BRL		µg/l	5.00						
2-Methylnaphthalene	BRL		µg/l	5.00						
2-Methylphenol	BRL		µg/l	5.00						
3,4-Methylphenol	BRL		µg/l	10.0						
Naphthalene	BRL		µg/l	5.00						
2-Nitroaniline	BRL		µg/l	5.00						

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 5111780 - SW846 3535										
Blank (5111780-BLK1)										
Prepared & Analyzed: 29-Nov-05										
3-Nitroaniline	BRL		µg/l	5.00						
4-Nitroaniline	BRL		µg/l	5.00						
Nitrobenzene	BRL		µg/l	5.00						
2-Nitrophenol	BRL		µg/l	5.00						
4-Nitrophenol	BRL		µg/l	5.00						
N-Nitrosodimethylamine	BRL		µg/l	5.00						
N-Nitrosodi-n-propylamine	BRL		µg/l	5.00						
N-Nitrosodiphenylamine	BRL		µg/l	5.00						
Pentachlorophenol	BRL		µg/l	5.00						
Phenanthrene	BRL		µg/l	5.00						
Phenol	BRL		µg/l	5.00						
Pyrene	BRL		µg/l	5.00						
Pyridine	BRL		µg/l	5.00						
1,2,4-Trichlorobenzene	BRL		µg/l	5.00						
2,4,5-Trichlorophenol	BRL		µg/l	5.00						
2,4,6-Trichlorophenol	BRL		µg/l	5.00						
Surrogate: 2-Fluorobiphenyl	*55.6*		µg/l		*100*		*55.6*	*30-130*		
Surrogate: 2-Fluorophenol	*70.3*		µg/l		*100*		*70.3*	*15-110*		
Surrogate: Nitrobenzene-d5	*57.0*		µg/l		*100*		*57.0*	*30-130*		
Surrogate: Phenol-d5	*63.2*		µg/l		*100*		*63.2*	*15-110*		
Surrogate: Terphenyl-d14	*64.9*		µg/l		*100*		*64.9*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*50.0*		µg/l		*100*		*50.0*	*15-110*		
LCS (5111780-BS1)										
Prepared & Analyzed: 29-Nov-05										
Acenaphthene	67.1		µg/l	5.00	100		67.1	40-140		
Acenaphthylene	95.4		µg/l	5.00	100		95.4	40-140		
Aniline	89.6		µg/l	5.00	100		89.6	40-140		
Anthracene	76.4		µg/l	5.00	100		76.4	40-140		
Azobenzene/Diphenyldiazine	67.3		µg/l	5.00	100		67.3	40-140		
Benzidine	83.8		µg/l	5.00	100		83.8	40-140		
Benzo (a) anthracene	72.1		µg/l	5.00	100		72.1	40-140		
Benzo (a) pyrene	70.2		µg/l	5.00	100		70.2	40-140		
Benzo (b) fluoranthene	57.3		µg/l	5.00	100		57.3	40-140		
Benzo (g,h,i) perylene	57.1		µg/l	5.00	100		57.1	40-140		
Benzo (k) fluoranthene	90.7		µg/l	5.00	100		90.7	40-140		
Benzoic acid	44.3		µg/l	5.00	100		44.3	30-130		
Benzyl alcohol	73.8		µg/l	5.00	100		73.8	40-140		
Bis(2-chloroethoxy)methane	54.9		µg/l	5.00	100		54.9	40-140		
Bis(2-chloroethyl)ether	78.8		µg/l	5.00	100		78.8	40-140		
Bis(2-chloroisopropyl)ether	135		µg/l	5.00	100		135	40-140		
Bis(2-ethylhexyl)phthalate	93.6		µg/l	5.00	100		93.6	40-140		
4-Bromophenyl phenyl ether	60.1		µg/l	5.00	100		60.1	40-140		
Butyl benzyl phthalate	90.7		µg/l	5.00	100		90.7	40-140		
Carbazole	94.6		µg/l	5.00	100		94.6	0-200		
4-Chloro-3-methylphenol	47.2		µg/l	5.00	100		47.2	30-130		
4-Chloroaniline	119		µg/l	5.00	100		119	40-140		
2-Chloronaphthalene	69.3		µg/l	5.00	100		69.3	40-140		
2-Chlorophenol	86.5		µg/l	5.00	100		86.5	30-130		
4-Chlorophenyl phenyl ether	60.2		µg/l	5.00	100		60.2	40-140		
Chrysene	75.6		µg/l	5.00	100		75.6	40-140		
Dibenzo (a,h) anthracene	59.1		µg/l	5.00	100		59.1	40-140		
Dibenzofuran	65.5		µg/l	5.00	100		65.5	40-140		
1,2-Dichlorobenzene	72.4		µg/l	5.00	100		72.4	40-140		
1,3-Dichlorobenzene	74.7		µg/l	5.00	100		74.7	40-140		
1,4-Dichlorobenzene	68.6		µg/l	5.00	100		68.6	40-140		

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 5111780 - SW846 3535										
LCS (5111780-BS1)										
Prepared & Analyzed: 29-Nov-05										
3,3'-Dichlorobenzidine	102		µg/l	5.00	100		102	40-140		
2,4-Dichlorophenol	45.8		µg/l	5.00	100		45.8	30-130		
Diethyl phthalate	68.4		µg/l	5.00	100		68.4	40-140		
Dimethyl phthalate	68.5		µg/l	5.00	100		68.5	40-140		
2,4-Dimethylphenol	48.2		µg/l	5.00	100		48.2	30-130		
Di-n-butyl phthalate	78.5		µg/l	5.00	100		78.5	40-140		
4,6-Dinitro-2-methylphenol	68.7		µg/l	5.00	100		68.7	30-130		
2,4-Dinitrophenol	70.1		µg/l	5.00	100		70.1	30-130		
2,4-Dinitrotoluene	65.8		µg/l	5.00	100		65.8	40-140		
2,6-Dinitrotoluene	67.1		µg/l	5.00	100		67.1	40-140		
Di-n-octyl phthalate	96.9		µg/l	5.00	100		96.9	40-140		
Fluoranthene	66.4		µg/l	5.00	100		66.4	40-140		
Fluorene	61.4		µg/l	5.00	100		61.4	40-140		
Hexachlorobenzene	64.8		µg/l	5.00	100		64.8	40-140		
Hexachlorobutadiene	41.0		µg/l	5.00	100		41.0	40-140		
Hexachlorocyclopentadiene	64.0		µg/l	5.00	100		64.0	40-140		
Hexachloroethane	78.4		µg/l	5.00	100		78.4	40-140		
Indeno (1,2,3-cd) pyrene	53.9		µg/l	5.00	100		53.9	40-140		
Isophorone	47.0		µg/l	5.00	100		47.0	40-140		
2-Methylnaphthalene	47.1		µg/l	5.00	100		47.1	40-140		
2-Methylphenol	81.4		µg/l	5.00	100		81.4	40-140		
3,4-Methylphenol	95.8		µg/l	10.0	100		95.8	40-140		
Naphthalene	50.8		µg/l	5.00	100		50.8	40-140		
2-Nitroaniline	85.4		µg/l	5.00	100		85.4	40-140		
3-Nitroaniline	96.3		µg/l	5.00	100		96.3	40-140		
4-Nitroaniline	88.6		µg/l	5.00	100		88.6	40-140		
Nitrobenzene	44.5		µg/l	5.00	100		44.5	40-140		
2-Nitrophenol	49.1		µg/l	5.00	100		49.1	30-130		
4-Nitrophenol	75.8		µg/l	5.00	100		75.8	30-130		
N-Nitrosodimethylamine	88.1		µg/l	5.00	100		88.1	40-140		
N-Nitrosodi-n-propylamine	73.3		µg/l	5.00	100		73.3	40-140		
N-Nitrosodiphenylamine	182	QC-2	µg/l	5.00	100		182	40-140		
Pentachlorophenol	69.4		µg/l	5.00	100		69.4	30-130		
Phenanthrene	69.4		µg/l	5.00	100		69.4	40-140		
Phenol	86.0		µg/l	5.00	100		86.0	30-130		
Pyrene	79.7		µg/l	5.00	100		79.7	40-140		
Pyridine	64.5		µg/l	5.00	100		64.5	40-140		
1,2,4-Trichlorobenzene	43.3		µg/l	5.00	100		43.3	40-140		
2,4,5-Trichlorophenol	66.8		µg/l	5.00	100		66.8	30-130		
2,4,6-Trichlorophenol	49.8		µg/l	5.00	100		49.8	30-130		
Surrogate: 2-Fluorobiphenyl	*62.6*		µg/l		*100*		*62.6*	*30-130*		
Surrogate: 2-Fluorophenol	*70.9*		µg/l		*100*		*70.9*	*15-110*		
Surrogate: Nitrobenzene-d5	*43.5*		µg/l		*100*		*43.5*	*30-130*		
Surrogate: Phenol-d5	*65.0*		µg/l		*100*		*65.0*	*15-110*		
Surrogate: Terphenyl-d14	*83.0*		µg/l		*100*		*83.0*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*64.8*		µg/l		*100*		*64.8*	*15-110*		
Duplicate (5111780-DUP1)	Source: SA37630-02									
Prepared: 29-Nov-05 Analyzed: 30-Nov-05										
Acenaphthene	BRL		µg/l	5.00		BRL				30
Acenaphthylene	BRL		µg/l	5.00		BRL				30
Aniline	BRL		µg/l	5.00		BRL				30
Anthracene	BRL		µg/l	5.00		1.15				30
Azobenzene/Diphenyldiazine	BRL		µg/l	5.00		BRL				30
Benzidine	BRL		µg/l	5.00		BRL				30
Benzo (a) anthracene	BRL		µg/l	5.00		BRL				30

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 5111780 - SW846 3535										
Duplicate (5111780-DUP1)	Source: SA37630-02									
Prepared: 29-Nov-05 Analyzed: 30-Nov-05										
Benzo (a) pyrene	BRL		µg/l	5.00		BRL				30
Benzo (b) fluoranthene	BRL		µg/l	5.00		BRL				30
Benzo (g,h,i) perylene	BRL		µg/l	5.00		BRL				30
Benzo (k) fluoranthene	BRL		µg/l	5.00		BRL				30
Benzoic acid	BRL		µg/l	5.00		BRL				30
Benzyl alcohol	BRL		µg/l	5.00		BRL				30
Bis(2-chloroethoxy)methane	BRL		µg/l	5.00		BRL				30
Bis(2-chloroethyl)ether	BRL		µg/l	5.00		BRL				30
Bis(2-chloroisopropyl)ether	BRL		µg/l	5.00		BRL				30
Bis(2-ethylhexyl)phthalate	BRL		µg/l	5.00		BRL				30
4-Bromophenyl phenyl ether	BRL		µg/l	5.00		BRL				30
Butyl benzyl phthalate	BRL		µg/l	5.00		BRL				30
Carbazole	BRL		µg/l	5.00		BRL				30
4-Chloro-3-methylphenol	BRL		µg/l	5.00		BRL				30
4-Chloroaniline	BRL		µg/l	5.00		BRL				30
2-Chloronaphthalene	BRL		µg/l	5.00		BRL				30
2-Chlorophenol	BRL		µg/l	5.00		BRL				30
4-Chlorophenyl phenyl ether	BRL		µg/l	5.00		BRL				30
Chrysene	BRL		µg/l	5.00		BRL				30
Dibenzo (a,h) anthracene	BRL		µg/l	5.00		BRL				30
Dibenzofuran	BRL		µg/l	5.00		BRL				30
1,2-Dichlorobenzene	BRL		µg/l	5.00		BRL				30
1,3-Dichlorobenzene	BRL		µg/l	5.00		BRL				30
1,4-Dichlorobenzene	BRL		µg/l	5.00		BRL				30
3,3`-Dichlorobenzidine	BRL		µg/l	5.00		BRL				30
2,4-Dichlorophenol	BRL		µg/l	5.00		BRL				30
Diethyl phthalate	BRL		µg/l	5.00		BRL				30
Dimethyl phthalate	BRL		µg/l	5.00		BRL				30
2,4-Dimethylphenol	BRL		µg/l	5.00		BRL				30
Di-n-butyl phthalate	BRL		µg/l	5.00		BRL				30
4,6-Dinitro-2-methylphenol	BRL		µg/l	5.00		BRL				30
2,4-Dinitrophenol	BRL		µg/l	5.00		BRL				30
2,4-Dinitrotoluene	BRL		µg/l	5.00		BRL				30
2,6-Dinitrotoluene	BRL		µg/l	5.00		BRL				30
Di-n-octyl phthalate	BRL		µg/l	5.00		BRL				30
Fluoranthene	BRL		µg/l	5.00		BRL				30
Fluorene	BRL		µg/l	5.00		1.18				30
Hexachlorobenzene	BRL		µg/l	5.00		BRL				30
Hexachlorobutadiene	BRL		µg/l	5.00		BRL				30
Hexachlorocyclopentadiene	BRL		µg/l	5.00		BRL				30
Hexachloroethane	BRL		µg/l	5.00		BRL				30
Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.00		BRL				30
Isophorone	BRL		µg/l	5.00		BRL				30
2-Methylnaphthalene	BRL		µg/l	5.00		7.40				30
2-Methylphenol	BRL		µg/l	5.00		BRL				30
3,4-Methylphenol	BRL		µg/l	10.0		BRL				50
Naphthalene	BRL		µg/l	5.00		BRL				30
2-Nitroaniline	BRL		µg/l	5.00		BRL				30
3-Nitroaniline	BRL		µg/l	5.00		BRL				30
4-Nitroaniline	BRL		µg/l	5.00		BRL				30
Nitrobenzene	BRL		µg/l	5.00		BRL				30
2-Nitrophenol	BRL		µg/l	5.00		BRL				30
4-Nitrophenol	BRL		µg/l	5.00		BRL				30
N-Nitrosodimethylamine	BRL		µg/l	5.00		BRL				30
N-Nitrosodi-n-propylamine	BRL		µg/l	5.00		BRL				30

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 5111780 - SW846 3535										
Duplicate (5111780-DUP1)	Source: SA37630-02									
Prepared: 29-Nov-05 Analyzed: 30-Nov-05										
N-Nitrosodiphenylamine	BRL		µg/l	5.00		BRL				30
Pentachlorophenol	BRL		µg/l	5.00		BRL				30
Phenanthrene	BRL		µg/l	5.00		3.72				30
Phenol	BRL		µg/l	5.00		BRL				30
Pyrene	BRL		µg/l	5.00		BRL				30
Pyridine	BRL		µg/l	5.00		BRL				30
1,2,4-Trichlorobenzene	BRL		µg/l	5.00		BRL				30
2,4,5-Trichlorophenol	BRL		µg/l	5.00		BRL				30
2,4,6-Trichlorophenol	BRL		µg/l	5.00		BRL				30
Surrogate: 2-Fluorobiphenyl	*59.5*		µg/l		*114*		*52.2*	*30-130*		
Surrogate: 2-Fluorophenol	*84.4*		µg/l		*114*		*74.0*	*15-110*		
Surrogate: Nitrobenzene-d5	*62.9*		µg/l		*114*		*55.2*	*30-130*		
Surrogate: Phenol-d5	*74.4*		µg/l		*114*		*65.3*	*15-110*		
Surrogate: Terphenyl-d14	*66.2*		µg/l		*114*		*58.1*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*56.0*		µg/l		*114*		*49.1*	*15-110*		

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 5120176 - EPA 200 Series										
Blank (5120176-BLK1)										
Prepared: 06-Dec-05 Analyzed: 07-Dec-05										
Zinc	BRL		mg/l	0.0050						
Antimony	BRL		mg/l	0.0060						
Lead	BRL		mg/l	0.0038						
Nickel	BRL		mg/l	0.0025						
Iron	BRL		mg/l	0.0650						
Selenium	BRL		mg/l	0.0075						
Cadmium	BRL		mg/l	0.0012						
Copper	BRL		mg/l	0.0025						
Chromium	BRL		mg/l	0.0025						
Arsenic	BRL		mg/l	0.0040						
Silver	BRL		mg/l	0.0050						
LCS (5120176-BS1)										
Prepared: 06-Dec-05 Analyzed: 07-Dec-05										
Zinc	0.0930		mg/l	0.0025	0.100		93.0	85-115		
Iron	0.107		mg/l	0.0025	0.100		107	85-115		
Nickel	0.0903		mg/l	0.0025	0.100		90.3	85-115		
Lead	0.0939		mg/l	0.0038	0.100		93.9	85-115		
Antimony	0.0888		mg/l	0.0060	0.100		88.8	85-115		
Selenium	0.0932		mg/l	0.0075	0.100		93.2	85-115		
Silver	0.0430		mg/l	0.0050	0.0500		86.0	85-115		
Arsenic	0.0922		mg/l	0.0040	0.100		92.2	85-115		
Copper	0.0883		mg/l	0.0025	0.100		88.3	85-115		
Cadmium	0.0880		mg/l	0.0012	0.100		88.0	85-115		
Chromium	0.0927		mg/l	0.0025	0.100		92.7	85-115		
Duplicate (5120176-DUP1)	Source: SA37674-01									
Prepared: 06-Dec-05 Analyzed: 07-Dec-05										
Antimony	BRL		mg/l	0.0060		BRL				20
Selenium	BRL	QR-04	mg/l	0.0090		0.0063			26.2	20
Lead	BRL	QR-04	mg/l	0.0038		BRL				20
Nickel	1.19		mg/l	0.0025		1.20			0.837	20
Iron	BRL	QR-04	mg/l	0.0650		0.0480			27.0	20
Zinc	0.357		mg/l	0.0025		0.356			0.281	20
Chromium	0.151		mg/l	0.0025		0.152			0.660	20
Silver	0.0084		mg/l	0.0050		0.0071			16.8	20
Arsenic	BRL		mg/l	0.0040		BRL				20
Cadmium	0.0590		mg/l	0.0012		0.0594			0.676	20
Copper	0.129		mg/l	0.0025		0.133			3.05	20
Matrix Spike (5120176-MS1)	Source: SA37946-01									
Prepared: 06-Dec-05 Analyzed: 07-Dec-05										
Selenium	0.0953		mg/l	0.0075	0.100	0.0054	89.9	70-130		
Antimony	0.0890		mg/l	0.0060	0.100	BRL	89.0	70-130		
Iron	0.112	QM-07	mg/l	0.0025	0.100	0.336	NR	70-130		
Zinc	0.135		mg/l	0.0025	0.100	0.0524	82.6	70-130		
Lead	0.0867		mg/l	0.0038	0.100	BRL	86.7	70-130		
Nickel	0.0928		mg/l	0.0025	0.100	0.0080	84.8	70-130		
Copper	0.0998		mg/l	0.0025	0.100	0.0009	98.9	70-130		
Cadmium	0.0842		mg/l	0.0012	0.100	BRL	84.2	70-130		
Arsenic	0.0946		mg/l	0.0040	0.100	BRL	94.6	70-130		
Chromium	0.0896		mg/l	0.0025	0.100	BRL	89.6	70-130		
Silver	0.0448		mg/l	0.0050	0.0500	BRL	89.6	70-130		
Matrix Spike Dup (5120176-MSD1)	Source: SA37946-01									
Prepared: 06-Dec-05 Analyzed: 07-Dec-05										

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 5120176 - EPA 200 Series										
Matrix Spike Dup (5120176-MSD1)	Source: SA37946-01									
Prepared: 06-Dec-05 Analyzed: 07-Dec-05										
Antimony	0.0926		mg/l	0.0060	0.100	BRL	92.6	70-130	3.96	20
Selenium	0.0938		mg/l	0.0075	0.100	0.0054	88.4	70-130	1.59	20
Zinc	0.134		mg/l	0.0025	0.100	0.0524	81.6	70-130	0.743	20
Iron	0.114	QM-07	mg/l	0.0025	0.100	0.336	NR	70-130	1.77	20
Nickel	0.0915		mg/l	0.0025	0.100	0.0080	83.5	70-130	1.41	20
Lead	0.0865		mg/l	0.0038	0.100	BRL	86.5	70-130	0.231	20
Silver	0.0443		mg/l	0.0050	0.0500	BRL	88.6	70-130	1.12	20
Copper	0.0965		mg/l	0.0025	0.100	0.0009	95.6	70-130	3.36	20
Chromium	0.0886		mg/l	0.0025	0.100	BRL	88.6	70-130	1.12	20
Arsenic	0.100		mg/l	0.0040	0.100	BRL	100	70-130	5.55	20
Cadmium	0.0834		mg/l	0.0012	0.100	BRL	83.4	70-130	0.955	20
Batch 5120178 - EPA200/SW7000 Series										
Blank (5120178-BLK1)										
Prepared: 06-Dec-05 Analyzed: 07-Dec-05										
Mercury	BRL		mg/l	0.00020						
LCS (5120178-BS1)										
Prepared: 06-Dec-05 Analyzed: 07-Dec-05										
Mercury	0.00260		mg/l	0.00020	0.00250		104	80-120		
Duplicate (5120178-DUP1)	Source: SA37681-01									
Prepared: 06-Dec-05 Analyzed: 07-Dec-05										
Mercury	BRL		mg/l	0.00020		0.00009				20
Matrix Spike (5120178-MS1)	Source: SA37946-01									
Prepared: 06-Dec-05 Analyzed: 07-Dec-05										
Mercury	0.00263		mg/l	0.00020	0.00250	0.00005	103	75-125		
Matrix Spike Dup (5120178-MSD1)	Source: SA37946-01									
Prepared: 06-Dec-05 Analyzed: 07-Dec-05										
Mercury	0.00265		mg/l	0.00020	0.00250	0.00005	104	75-125	0.758	20

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 5111763 - General Preparation										
Blank (5111763-BLK1)										
Prepared & Analyzed: 28-Nov-05										
Hexavalent Chromium	BRL		mg/l	0.005						
LCS (5111763-BS1)										
Prepared & Analyzed: 28-Nov-05										
Hexavalent Chromium	0.051		mg/l	0.005	0.0500		102	90-110		
Duplicate (5111763-DUP1)	Source: SA37663-01									
Prepared & Analyzed: 28-Nov-05										
Hexavalent Chromium	BRL		mg/l	0.005		0.001			0.00	20
Matrix Spike (5111763-MS1)	Source: SA37663-01									
Prepared & Analyzed: 28-Nov-05										
Hexavalent Chromium	0.051		mg/l	0.005	0.0500	0.001	100	80-120		
Reference (5111763-SRM1)										
Prepared & Analyzed: 28-Nov-05										
Hexavalent Chromium	0.025		mg/l	0.005	0.0250		100	85-115		
Batch 5111769 - General Preparation										
Blank (5111769-BLK1)										
Prepared & Analyzed: 28-Nov-05										
Total Residual Chlorine	BRL		mg/l	0.020						
LCS (5111769-BS1)										
Prepared & Analyzed: 28-Nov-05										
Total Residual Chlorine	0.048		mg/l	0.020	0.0500		96.0	90-110		
Duplicate (5111769-DUP1)	Source: SA37674-02									
Prepared & Analyzed: 28-Nov-05										
Total Residual Chlorine	BRL	R-01	mg/l	1.00		BRL				20
Matrix Spike (5111769-MS1)	Source: SA37674-02									
Prepared & Analyzed: 28-Nov-05										
Total Residual Chlorine	0.500	QM-05, R-01	mg/l	1.00	2.50	BRL	20.0	80-120		
Reference (5111769-SRM1)										
Prepared & Analyzed: 28-Nov-05										
Total Residual Chlorine	0.127		mg/l	0.020	0.111		114	85-115		
Batch 5120348 - General Preparation										
Blank (5120348-BLK1)										
Prepared & Analyzed: 05-Dec-05										
Cyanide (total)	BRL		mg/l	0.0100						
LCS (5120348-BS1)										
Prepared & Analyzed: 05-Dec-05										
Cyanide (total)	0.293		mg/l	0.0100	0.300		97.7	90-110		
Matrix Spike (5120348-MS1)	Source: SA37674-03									
Prepared & Analyzed: 05-Dec-05										
Cyanide (total)	BRL	Z-2	mg/l	0.0100	0.300	BRL		75-125		
Matrix Spike Dup (5120348-MSD1)	Source: SA37674-03									
Prepared & Analyzed: 05-Dec-05										
Cyanide (total)	BRL	Z-2	mg/l	0.0100	0.300	BRL		75-125		20
Post Spike (5120348-PS1)	Source: SA37674-03									
Prepared & Analyzed: 06-Dec-05										

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 5120348 - General Preparation										
Post Spike (5120348-PS1)	Source: SA37674-03									
Prepared & Analyzed: 06-Dec-05										
Cyanide (total)	0.312		mg/l		0.300	BRL	104	0-200		
Post Spike (5120348-PS2)	Source: SA37674-03									
Prepared & Analyzed: 06-Dec-05										
Cyanide (total)	0.309		mg/l		0.300	BRL	103	0-200		
Reference (5120348-SRM1)										
Prepared & Analyzed: 05-Dec-05										
Cyanide (total)	0.129		mg/l	0.0100	0.145		89.0	77 2-128		

Notes and Definitions

QC-2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery
QR-04	Analyses are not controlled on RPD values from sample concentrations less than the reporting limit. QC batch accepted based on LCS and/or LCSD QC results
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.
R-05	The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
Z-2	The samples were not spiked prior to analysis. Post spikes were added to indicate that there was no matrix interference.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.
Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 - includes #4 fuel oil
Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
Motor Oil - includes virgin and waste automobile oil
Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel - includes kerosene, Jet A and JP-4
Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as *TPH (Calculated as).

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown

LabNumber	Analysis	Analyte	Exception
			Data included from: f:\APPS\ElmntServer\TransferIn\SA37681 TRANSFER 06 Dec 05 1129 mdb
			Default Report (not modified)
	608 PCBs	(Aqueous)	RPD calculations based on %Recovery
	625 Semivolatiles	(Aqueous)	RPD calculations based on %Recovery
	8260 CAM-NH	(Aqueous)	RPD calculations based on %Recovery
5111769-DUP1	wc-Residual Chlorine (Total)	Total Residual Chlorine	R-01
5111769-MS1	wc-Residual Chlorine (Total)	Total Residual Chlorine	Exceeds lower control limit
5111769-MS1	wc-Residual Chlorine (Total)	Total Residual Chlorine	QM-05
5111769-MS1	wc-Residual Chlorine (Total)	Total Residual Chlorine	R-01
5111780-BS1	625 Semivolatiles	N-Nitrosodiphenylamine	Exceeds upper control limit
5111780-BS1	625 Semivolatiles	N-Nitrosodiphenylamine	QC-2
5120176-DUP1	Fe Total ICP 200 7	Iron	Exceeds RPD limit
5120176-DUP1	Fe Total ICP 200 7	Iron	QR-04
5120176-DUP1	Pb Total ICP 200 7	Lead	QR-04
5120176-DUP1	Se Total ICP 200 7	Selenium	Exceeds RPD limit
5120176-DUP1	Se Total ICP 200 7	Selenium	QR-04
5120176-MS1	Fe Total ICP 200 7	Iron	Exceeds lower control limit
5120176-MS1	Fe Total ICP 200 7	Iron	QM-07
5120176-MSD1	Fe Total ICP 200 7	Iron	Exceeds lower control limit
5120176-MSD1	Fe Total ICP 200 7	Iron	QM-07
5120236-BS1	8260 CAM-NH	2,2-Dichloropropane	Exceeds lower control limit
5120236-BS1	8260 CAM-NH	2,2-Dichloropropane	QC-2
5120236-BS1	8260 CAM-NH	Chloromethane	Exceeds upper control limit
5120236-BS1	8260 CAM-NH	Chloromethane	QC-2
5120236-BS1	8260 CAM-NH	Tert-amyl methyl ether	Exceeds upper control limit
5120236-BS1	8260 CAM-NH	Tert-amyl methyl ether	QC-2
5120236-BSD1	8260 CAM-NH	2,2-Dichloropropane	Exceeds lower control limit
5120236-BSD1	8260 CAM-NH	2,2-Dichloropropane	QC-2
5120236-BSD1	8260 CAM-NH	Chloromethane	Exceeds upper control limit
5120236-BSD1	8260 CAM-NH	Chloromethane	QC-2
5120236-BSD1	8260 CAM-NH	Tert-amyl methyl ether	Exceeds upper control limit
5120236-BSD1	8260 CAM-NH	Tert-amyl methyl ether	QC-2
5120348-MS1	wc-Cyanide, Total (Lachat)	Cyanide (total)	Spike recovery below MDL
5120348-MS1	wc-Cyanide, Total (Lachat)	Cyanide (total)	Z-2
5120348-MSD1	wc-Cyanide, Total (Lachat)	Cyanide (total)	Spike recovery below MDL
5120348-MSD1	wc-Cyanide, Total (Lachat)	Cyanide (total)	Z-2
SA37681-01	8260 CAM-NH		R-05
SA37681-01	SM2540D		Aqueous batched as Ground Water
SA37681-01	SM2540D		Status is Converted
SA37681-01	wc-Cr6 (water/wipe)	Hexavalent Chromium	R-01
SA37681-01	wc-Residual Chlorine (Total)	Total Residual Chlorine	R-01