



GROUND/WATER TREATMENT & TECHNOLOGY, INC.

39 RIVER STREET MILLBURY, MASSACHUSETTS 01527
PHONE: (508) 755-7075 FAX: 508-755-7206

April 9, 2010
GWTT Proposal # 02667

United States Environmental Protection Agency
EPA – New England Region 1
One Congress Street, Suite 1100
Boston, Massachusetts 02114-2023

Attention Mr. Victor Alvarez (via. Email and Federal Express)

RE: Remediation General Permit Notice Of Intent
Temporary Dewatering Treatment System
CVS Retail Store #1874
325 Boston Post Road
Wayland, Massachusetts

Dear Mr. Alvarez:

Ground/Water Treatment and Technology as the “Operator” in conjunction with Gershman Brown Crowley, Inc., request the approval under the Remediation General Permit (RGP) from the United States Environmental Protection Agency (EPA) for the treatment of suspected gasoline and metal contaminated groundwater during dewatering for construction of the above referenced project.

The project has been the construction of a new CVS Retail Store. A temporary water treatment system designed to treat a maximum flow rate of 300 gpm of water generated during construction dewatering operations.

If you have any questions or comments please feel free in contacting me at (508) 755-7075 ext. 703.

Sincerely,
Groundwater Treatment & Technology, Inc.

Joe Landyn
New England Division Construction Manager

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: Proposed CVS Retail Store No. 1874		Facility/site address:	
Location of facility/site: longitude: -71.366301 latitude: 42.362939	Facility SIC code(s): N/A	Street: 325 Boston Post Road	
b) Name of facility/site owner: Gersham Brown Crowley, Inc.		Town: Wayland	
Email address of owner:		State: Massachusetts	County: Middlesex
Telephone no. of facility/site owner: (401) 721 - 1612		Zip: 01778	
Fax no. of facility/site owner:		Owner is (check one): 1. Federal ___ 2. State/Tribal ___	
Address of owner (if different from site):		3. Private ☒ 4. other, if so, describe:	
Street: 14 Breakneck Hill Road			
Town: Lincoln	State: RI	Zip: 08625	County:
c) Legal name of operator:		Operator telephone no: (508) 755-7075	
Ground/Water Treatment & Technology, Inc.		Operator fax no.: (508) 755-7206	
Operator contact name and title: Joe Landyn		Operator email: jlandyn@gwtinc.com	
Address of operator (if different from owner):			
Town: Millbury	State: MA	Zip: 01527	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 <u> </u> No <u> </u> ☒ If "yes," please list: 1. site identification # assigned by the state of NH or MA: <u>N/A</u> 2. permit or license # assigned: <u>N/A</u> 3. state agency contact information: name, location, and telephone number: <u>N/A</u>	f) Is the site/facility covered by any other EPA permit, including: 1. multi-sector storm water general permit? Y <u> </u> N <u> </u> ☒, if Y, number: <u> </u> 2. phase I or II construction storm water general permit? Y <u> </u> N <u> </u> ☒, if Y, number: <u>MAR10DF90</u> 3. individual NPDES permit? Y <u> </u> N <u> </u> ☒, if Y, number: <u> </u> 4. any other water quality related permit? Y <u> </u> N <u> </u> ☒, if Y, number: <u> </u>
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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 required during construction of retail store

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, ft³/s)? Max. flow <u>0.669</u> Average flow <u>0.342 ft³/s</u> Is maximum flow a design value? Y <u> </u> N <u> </u> ☒ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available. Average flow assumes 1/2 the maximum flow or 1/2(300gpm)= 150 gpm*0.00228 = 0.342 ft³/s
3) Latitude and longitude of each discharge within 100 feet: pt.1:long. <u>-71.215713</u> lat. <u>42.214394</u> ; pt.2: long. <u> </u> lat. <u> </u> ; pt.3: long. <u> </u> lat. <u> </u> ; pt.4:long. <u> </u> lat. <u> </u> ; pt.5: long. <u> </u> lat. <u> </u> ; pt.6:long. <u> </u> lat. <u> </u> ; pt.7: long. <u> </u> lat. <u> </u> ; pt.8:long. <u> </u> lat. <u> </u> ; etc.		
4) If hydrostatic testing, total volume of the discharge (gals): <u>N/A</u>		5) Is the discharge intermittent <u> </u> or seasonal <u> </u>? Is discharge ongoing Yes <u> </u> No <u> </u> ☒
c) Expected dates of discharge (mm/dd/yy): start <u>04/21/10</u> end <u>06/21/10</u>		
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).		

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

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

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

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

PARAMETER	Believe Absent	Believe Present	# of Samples (1 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	2540D	5 mg/L	5400	2.941		
2. Total Residual Chlorine	☒		1	Grab						
3. Total Petroleum Hydrocarbons		☒	1	Grab	1664A	5 mg/L	<4400			
4. Cyanide		☒	1	Grab	4500CN-E	5 ug/L	6	0.00327		
5. Benzene		☒	1	Grab	624	2 ug/L	<10			
6. Toluene		☒	1	Grab	624	2 ug/L	<10			
7. Ethylbenzene		☒	1	Grab	624	2 ug/L	<10			
8. (m,p,o) Xylenes		☒	1	Grab	624	10 ug/L	<20			
9. Total BTEX ⁴		☒	1	Grab	624	2 ug/L	<40			

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 ⁵ (1,2- Dibromo-methane)	✓		1	Grab						
11. Methyl-tert-Butyl Ether (MTBE)		✓	1	Grab	624	200 ug/L	1200	0.654		
12. tert-Butyl Alcohol (TBA)	✓		1	Grab						
13. tert-Amyl Methyl Ether (TAME)	✓		1	Grab						
14. Naphthalene		✓	1	Grab	8270C	0.2 ug/L	<0.2			
15. Carbon Tetra-chloride	✓		1	Grab						
16. 1,4 Dichlorobenzene	✓		1	Grab						
17. 1,2 Dichlorobenzene	✓		1	Grab						
18. 1,3 Dichlorobenzene	✓		1	Grab						
19. 1,1 Dichloroethane	✓		1	Grab						
20. 1,2 Dichloroethane	✓		1	Grab						
21. 1,1 Dichloroethylene	✓		1	Grab						
22. cis-1,2 Dichloro-ethylene	✓		1	Grab						
23. Dichloromethane (Methylene Chloride)	✓		1	Grab						
24. Tetrachloroethylene	✓		1	Grab						

⁵EDB is a groundwater contaminant at fuel spill and pesticide application sites in New England.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓		1	Grab						
26. 1,1,2 Trichloroethane	✓		1	Grab						
27. Trichloroethylene	✓		1	Grab						
28. Vinyl Chloride	✓		1	Grab						
29. Acetone	✓		1	Grab						
30. 1,4 Dioxane	✓		1	Grab						
31. Total Phenols	✓		1	Grab						
32. Pentachlorophenol	✓		1	Grab						
33. Total Phthalates ⁶ (Phthalate esters)	✓		1	Grab						
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓		1	Grab						
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✓		1	Grab						
a. Benzo(a) Anthracene	✓		1	Grab						
b. Benzo(a) Pyrene	✓		1	Grab						
c. Benzo(b) Fluoranthene	✓		1	Grab						
d. Benzo(k) Fluoranthene	✓		1	Grab						
e. Chrysene	✓		1	Grab						

⁶The 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						
g. Indeno(1,2,3-cd) Pyrene	✓		1	Grab						
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	✓		1	Grab						
h. Acenaphthene	✓		1	Grab						
i. Acenaphthylene	✓		1	Grab						
j. Anthracene	✓		1	Grab						
k. Benzo(ghi) Perylene	✓		1	Grab						
l. Fluoranthene	✓		1	Grab						
m. Fluorene	✓		1	Grab						
n. Naphthalene-	✓		1	Grab						
o. Phenanthrene	✓		1	Grab						
p. Pyrene	✓		1	Grab						
37. Total Polychlorinated Biphenyls (PCBs)	✓		1	Grab						
38. Antimony	✓		1	Grab						
39. Arsenic		✓	1	Grab	6020	5 ug/L	16.3	0.0088		
40. Cadmium	✓		1	Grab						
41. Chromium III		✓	1	Grab	6020	0.5 ug/L	0.7	0.0004		
42. Chromium VI		✓	1	Grab	3500CR-D	10 ug/L	<50			

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	6020	0.5 ug/L	1.8	0.00098		
44. Lead	✓		1	Grab						
45. Mercury	✓		1	Grab						
46. Nickel		✓	1	Grab	6020	0.5 ug/L	1.5	0.0008		
47. Selenium	✓		1	Grab						
48. Silver	✓		1	Grab						
49. Zinc		✓	1	Grab	6020	5 ug/L	18.6	0.01		
50. Iron		✓	1	Grab	200.7	50 ug/L	26000	14.17		
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? Arsenic, Iron
<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: Arsenic, Iron DF: 1.00	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, 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 Pump and Treat System				
b) Identify each applicable treatment unit (check all that apply):	Frac. tank ☒	Air stripper	Oil/water separator	Equalization tanks
	Chlorination	Dechlorination	Other (please describe): Aeration Tank. Contingency Plan: Ion Exchange resin for metals and	Bag filter ☒ GAC filter ☒
c) Proposed average and maximum flow rates (gallons per minute) for the discharge and the design flow rate(s) (gallons per minute) of the treatment system: Average flow rate of discharge <u>100 gpm</u> Maximum flow rate of treatment system <u>300 gpm</u> Design flow rate of treatment system <u>250 gpm</u>				
d) A description of chemical additives being used or planned to be used (attach MSDS sheets):				

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

a) Identify the discharge pathway:	Direct	Within facility	Storm drain	River/brook ☒	Wetlands ☒	Other (describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters: Discharge will be pumped to the unnamed stream adjacent to the site. From there it flows to Pine Brook and then into 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 discharges, 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 Sudbury River is Class B Waters .						
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water <u>0.000905</u> cfs Please attach any calculation sheets used to support stream flow and dilution calculations.						
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes ☒ No ☐ If yes, for which pollutant(s)? Metals 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): 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.

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:

CVS Retail Store No. 1874

Operator signature:



Title:

New England Division Construction Manager

Date:

04/09/10

MA DEP - Bureau of Waste Site Cleanup

SITE NAME:

Site Scoring Map: 500 feet & 0.5 Mile Radii

325 and 349 Boston Post Road
Wayland, MA 01778
LL Coordinates 422146 712200

Site Location



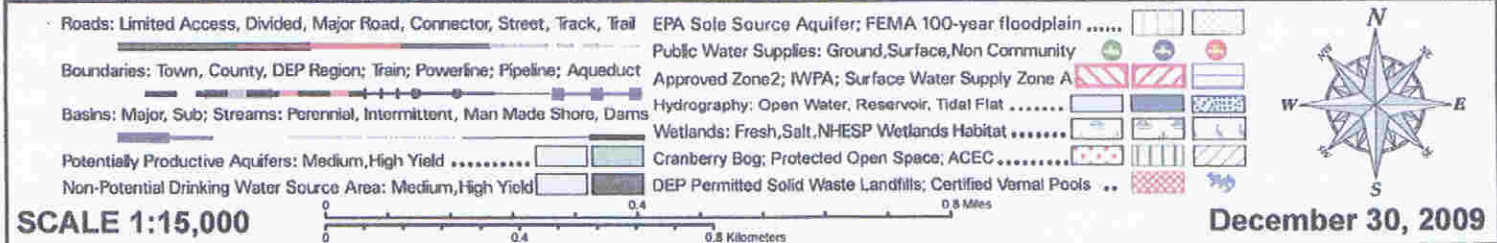
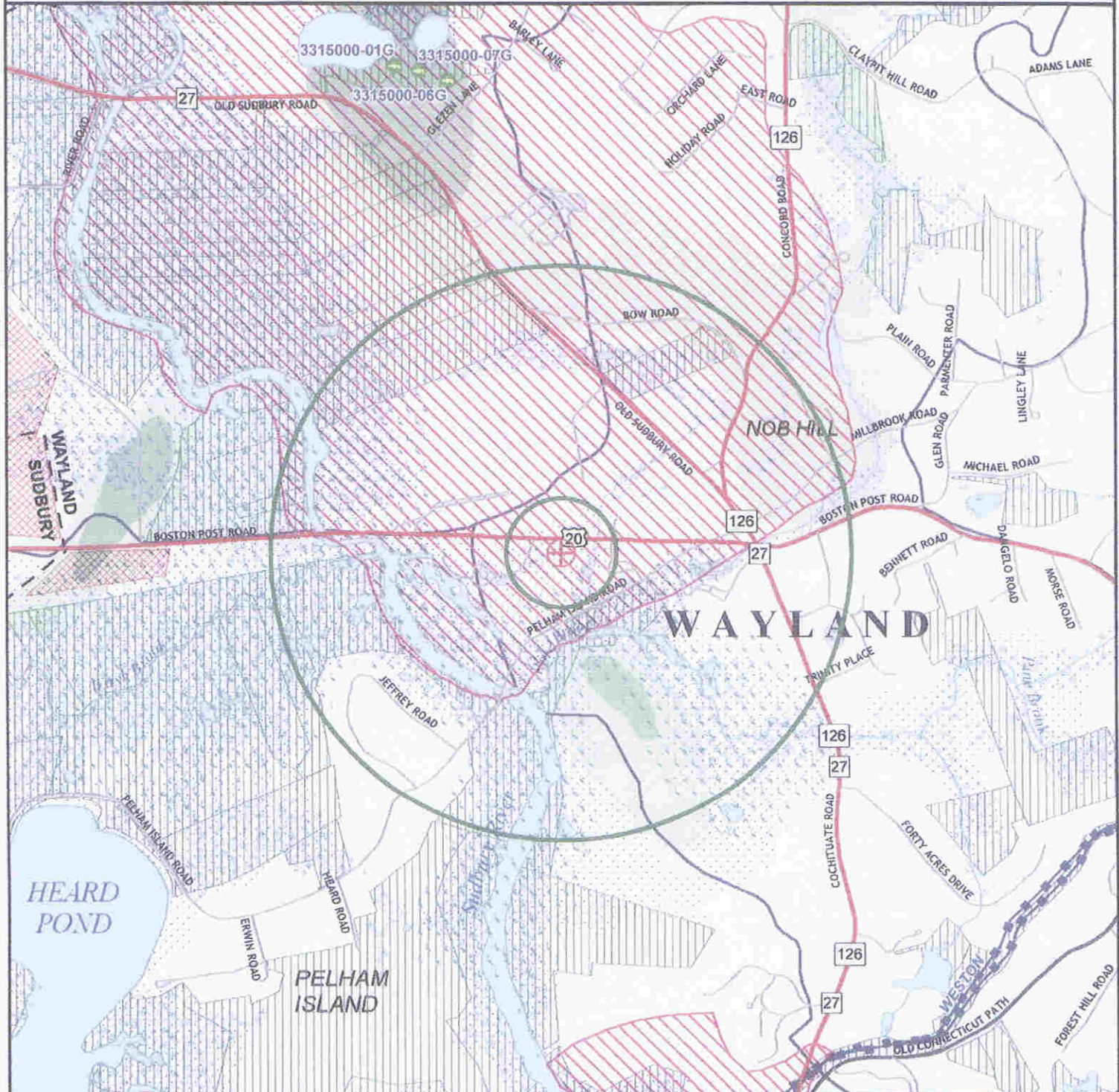
The information shown on this map is the best available at the date of printing. Please refer to the data source descriptions document.



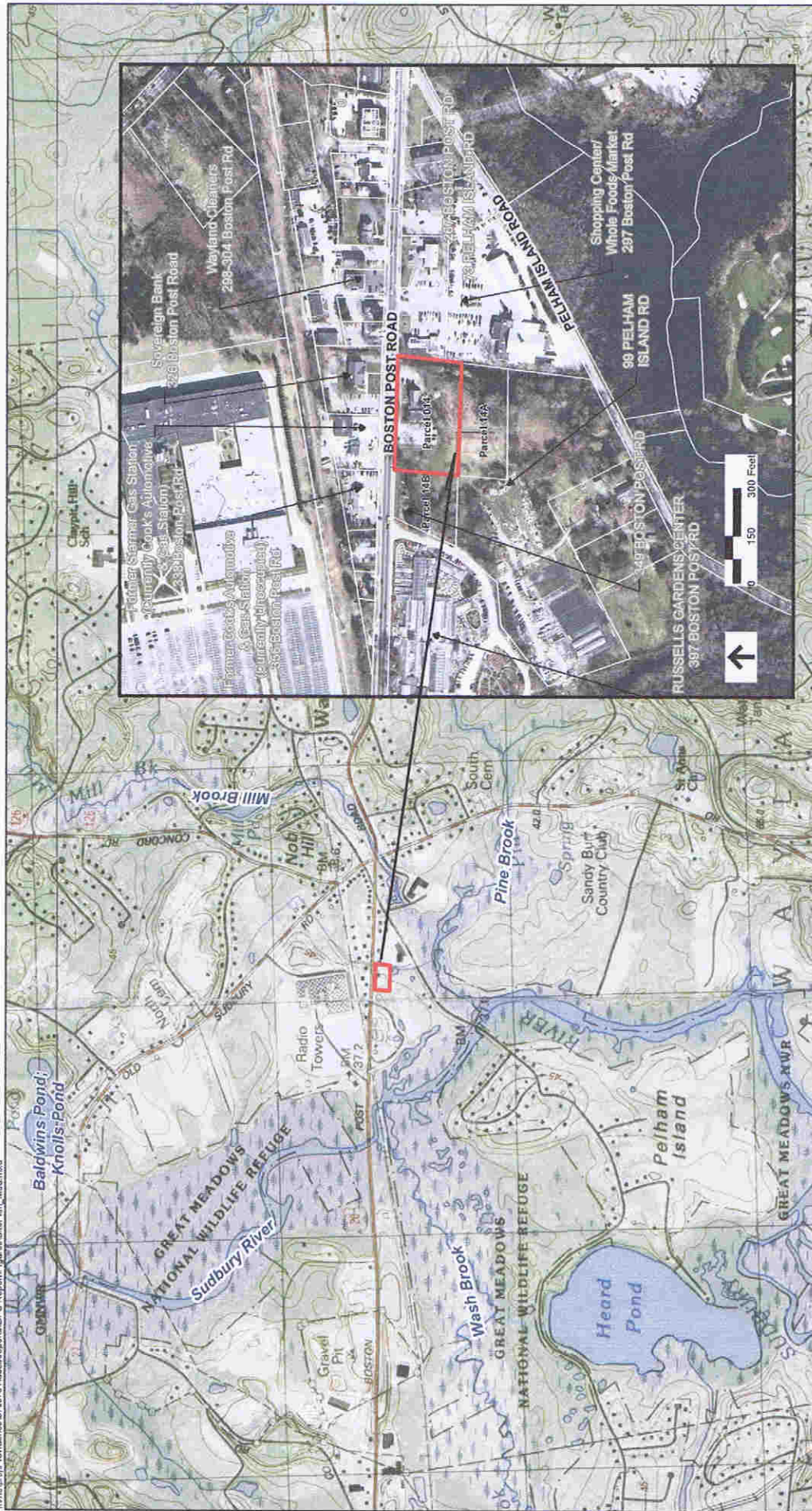
Office of Geographic and Environmental Information



Massachusetts Executive Office of Energy & Environmental Affairs



December 30, 2009



Legend

- Project Site
- Parcel Boundary

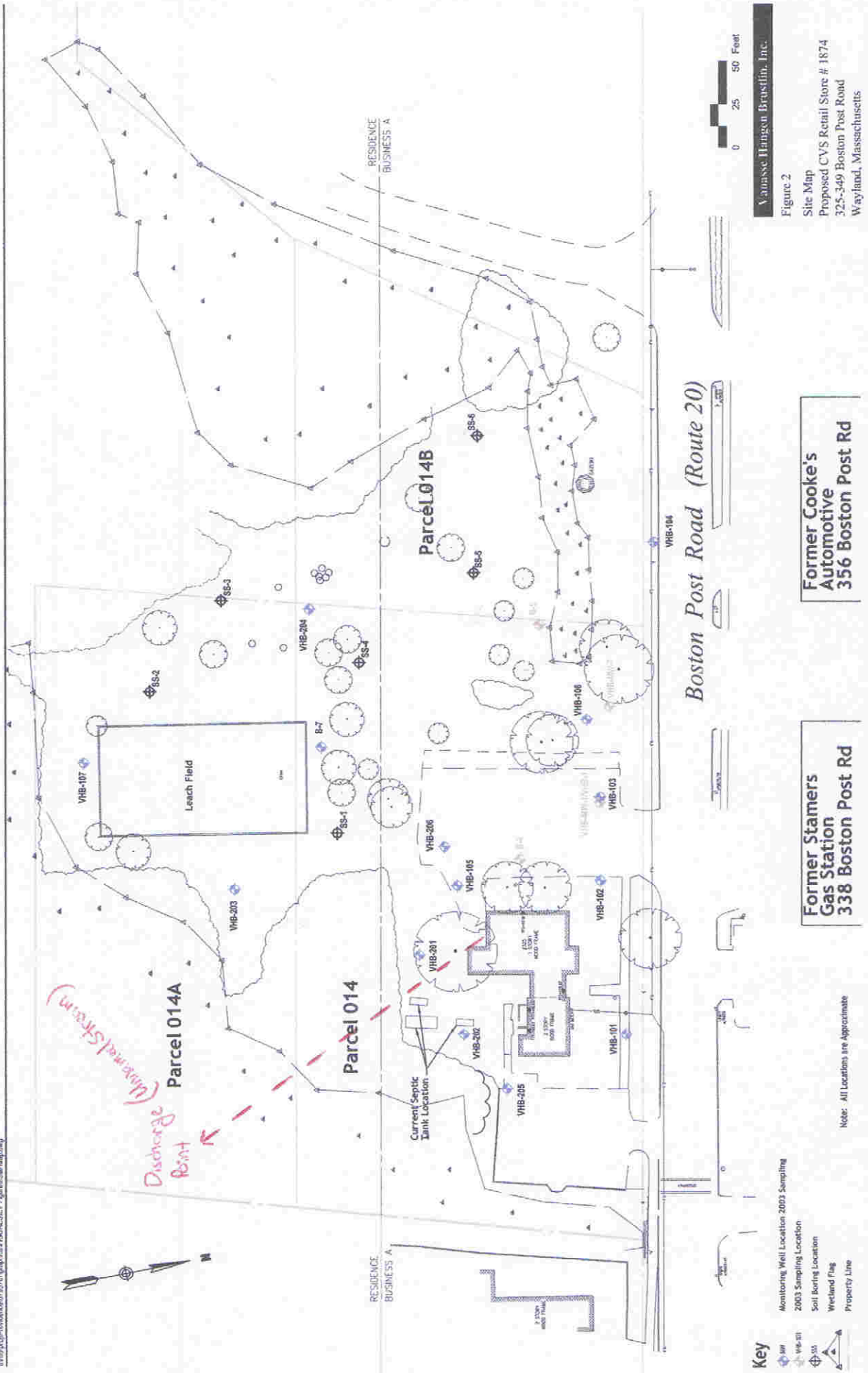
1 inch = 0.25 miles

Yanasee Hansen Brustin, Inc.

Figure 1

Site Plan

Proposed CVS Retail Store No. 1874
325 Boston Post Road
Wayland, Massachusetts
Source: MassGIS



Key

- Monitoring Well Location 2003 Sampling
- 2003 Sampling Location
- Soil Boring Location
- Wetland Flag
- Property Line

Note: All Locations are Approximate

**Former Stammers
Gas Station
338 Boston Post Rd**

**Former Cooke's
Automotive
356 Boston Post Rd**

Figure 2

Site Map
Proposed CVS Retail Store # 1874
325-349 Boston Post Road
Wayland, Massachusetts

Vanasse Hangen Brustlin, Inc.



Massachusetts StreamStats

Streamstats Ungaged Site Report

Date: Fri Apr 9 2010 14:58:51 Mountain Daylight Time

Site Location: Massachusetts

NAD83 Latitude: 42.3617 (42 21 42)

NAD83 Longitude: -71.3657 (-71 21 56)

NAD27 Latitude: 42.3616 (42 21 41)

NAD27 Longitude: -71.3662 (-71 21 58)

ReachCode: 01070005005828

Measure: 9.71

Drainage Area: 0.14 mi²

Low Flows Basin Characteristics

100% Statewide Low Flow (0.14 mi²)

Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	0.14 (below min value 1.61)	1.61	149
Mean Basin Slope from 250K DEM (percent)	0.38	0.32	24.6
Stratified Drift per Stream Length (square mile per mile)	0.15	0	1.29
Massachusetts Region (dimensionless)	0	0	1

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Probability of Perennial Flow Basin Characteristics

100% Perennial Flow Probability (0.14 mi²)

Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	0.14	0.01	1.99
Percent Underlain By Sand And Gravel (percent)	68.26	0	100
Percent Forest (percent)	27.96	0	100
Massachusetts Region (dimensionless)	0	0	1

Low Flows Streamflow Statistics

Statistic	Flow (ft ³ /s)	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
D50	0.13				
D60	0.0816				
D70	0.0451				
D75	0.0335				
D80	0.0201				
D85	0.0121				
D90	0.00685				
D95	0.00304				
D98	0.00202				
D99	0.00129				
M7D2Y	0.00439				
AUGD50	0.015				
M7D10Y	0.00095				

The equation for estimating the probability of perennial flow is applicable for most areas of Massachusetts except eastern Buzzards Bay, Cape Cod, and the Island regions. The estimate obtained from the equation assumes natural flow conditions at the site. The equation also is best used for sites with drainage areas between 0.01 to 1.99 mi², as errors beyond for basins beyond these bounds are unknown.

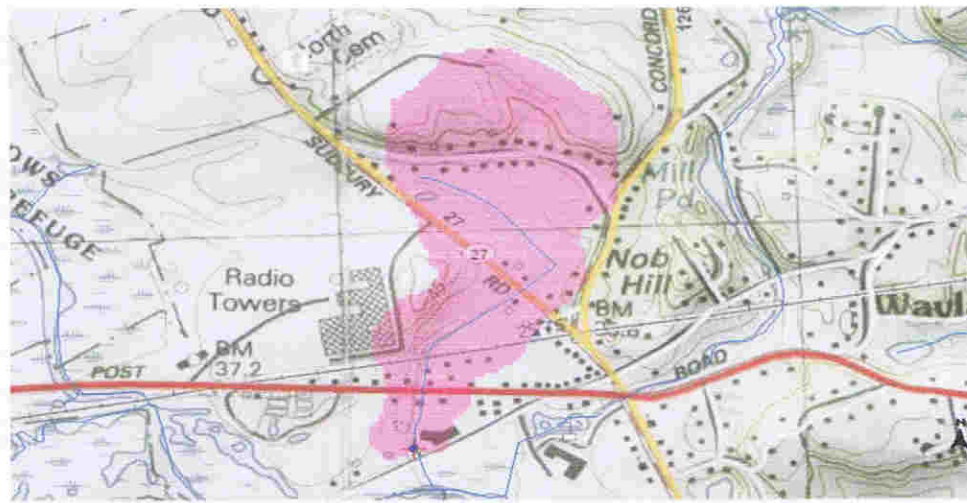
Probability of Perennial Flow Statistics

Statistic	Value	Standard Error (percent)
PROBPEREN	0.73	0.4



Massachusetts StreamStats

StreamStats Print Page

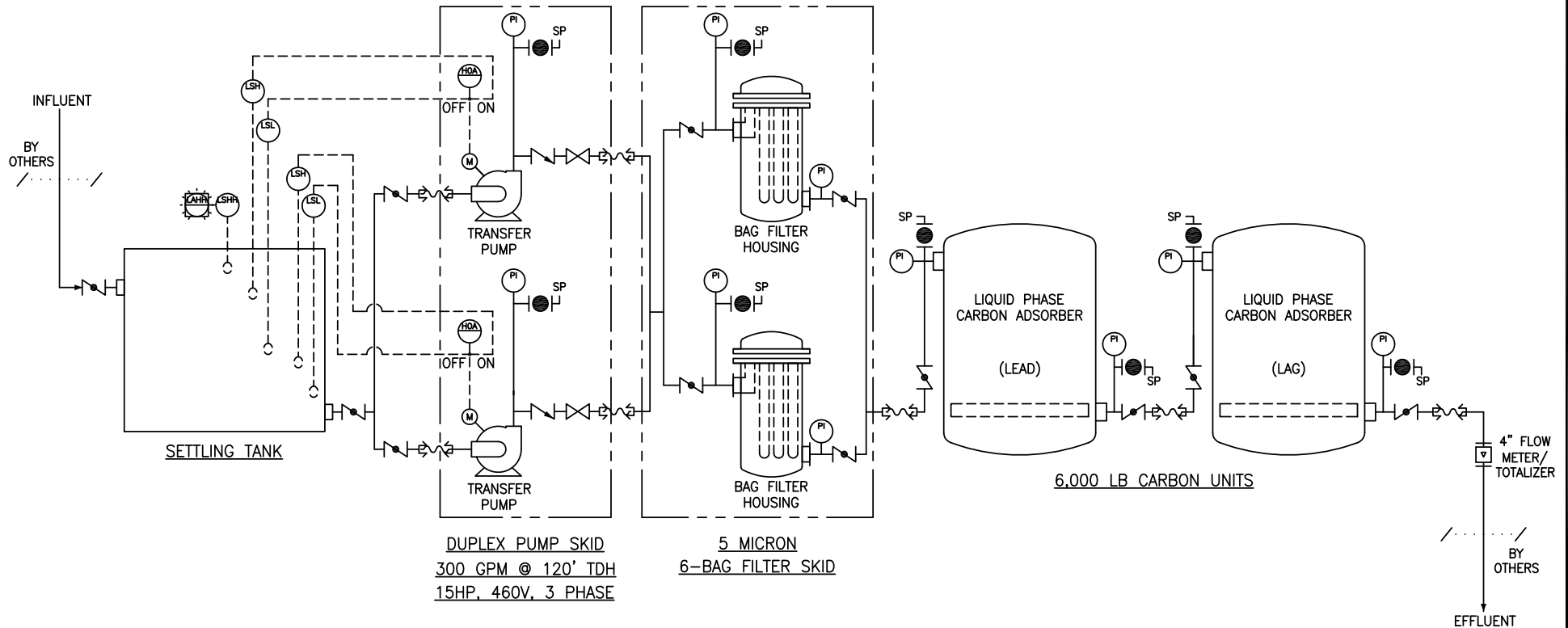


0.2 0.1 0 0.2 Miles

4/9/2010 3:02:40 PM

Legend

- ★ Global Watershed Point
- Global Watershed
- Excluded Areas
- rdgages
- rd dams
- trusspoly
- Dendritic Stream Network
- NHD Flowline
- call other values
- Agricultural Path
- Canal/Ditch
- Coastline
- Connector
- Railroad
- Stream/River
- Underground Conduit
- Stream Gages
 - ▲ Gaging Station, Continuous Record
 - ▲ Low Flow, Partial Record
 - ▲ Peak Flow, Partial Record
 - ▲ Peak and Low Flow, Partial Record
 - ▲ Miscellaneous Record
 - ▲ Unknown



LEGEND

—	PROCESS PIPING	○	LEVEL FLOAT SWITCH
~~~~~	FLEXIBLE HOSE	(M)	MOTOR
→	FLOW DIRECTION	[H]	FLOW METER
—	PIPE CROSS OVER	●	BALL VALVE (NORMALLY CLOSE)
⋈	BUTTERFLY VALVE	[LHH]	LEVEL ALARM HIGH HIGH
⋈	CHECK VALVE	(LSH)	LEVEL SWITCH HIGH
⋈	GATE VALVE (OPEN)	(LSHH)	LEVEL SWITCH HIGH HIGH
SP	SAMPLE PORT	(LSL)	LEVEL SWITCH LOW
⋈	CAM LOCK COUPLING	(HOA)	HAND/OFF/AUTO SWITCH
(PI)	PRESSURE GAGE		

THIS DRAWING IS THE PROPERTY OF GROUND/WATER TREATMENT &amp; TECHNOLOGY, INC.

## NOTES:

- 1) MAXIMUM FLOWRATE = 300 GPM
- 2) SYSTEM FOOTPRINT APPROX. 10' X 75'
- 3) NOT ALL VALVES, INSTRUMENTATION AND PIPING, ETC. SHOWN FOR CLARITY.
- 4) POWER REQUIREMENTS (BY OTHERS) - 460V, 3 PHASE, 50 AMPS.

A	TYPICAL	04/02/10
NO.	REVISIONS	DATE
STANDARD PROCESS & INSTRUMENTATION DIAGRAM		
300 GPM TEMPORARY TREATMENT SYSTEM		
SCALE: NTS	APPROVED BY: JB	DRAWN BY: RS
DATE: 04/02/10		
 <b>GROUND/WATER TREATMENT &amp; TECHNOLOGY</b> P.O. BOX 1174 DENVER, NJ 07834		
DWG SIZE: A	SHEET: 1 OF 1	DRAWING NUMBER: ST-0141-PD A



## ANALYTICAL REPORT

Lab Number: L1004357

Client: VHB Environmental Engineering  
101 Walnut Street  
PO Box 9151  
Watertown, MA 02471

ATTN: Paul McKinlay

Project Name: CVS WAYLAND

Project Number: 07957.01

Report Date: 04/01/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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



**Project Name:** CVS WAYLAND  
**Project Number:** 07957.01

**Lab Number:** L1004357  
**Report Date:** 04/01/10

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>
L1004357-01	VHB-103	WAYLAND, MA	03/26/10 08:40
L1004357-02	TRIP BLANK	WAYLAND, MA	03/26/10 00:00

**Project Name:** CVS WAYLAND  
**Project Number:** 07957.01

**Lab Number:** L1004357  
**Report Date:** 04/01/10

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

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### Report Submission

This final report replaces the partial report issued March 31, 2010. The report has been amended to include the results of all requested analyses.

### Sample Receipt

A Trip Blank was received in the laboratory but not listed on the Chain of Custody. At the client's request, the Trip Blank was not analyzed.

The samples were Field Filtered for Dissolved Metals only.

### Volatile Organics

L1004357-01 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

**Project Name:** CVS WAYLAND  
**Project Number:** 07957.01

**Lab Number:** L1004357  
**Report Date:** 04/01/10

### Case Narrative (continued)

The WG405368-7 LCS recovery, associated with L1004357-01, was above the acceptance criteria for Carbon tetrachloride (155%); however, the associated sample was non-detect for this target compound. The results of the original analysis are reported.

#### Semivolatile Organics

The WG405671-3 LCSD recovery, associated with L1004357-01, was above the acceptance criteria for 2,4-Dinitrotoluene (115%); however, the associated sample was non-detect for this target compound. The results of the original analysis are reported. The WG405671-2/-3 LCS/LCSD RPDs, associated with L1004357-01, are above the acceptance criteria for n-Nitrosodi-n-propylamine (32%), 2-Chlorophenol (31%), 2-Nitrophenol (33%), and Phenol (34%); however, the individual LCS/LCSD recoveries are within method limits.

#### PCB

The surrogate recovery for the WG405764-1 Method Blank, associated with L1004357-01, is below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene (27%). The associated sample is non-detect and has acceptable surrogate recoveries; therefore, no further actions were taken.

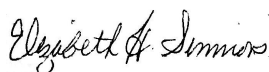
The surrogate recovery for the WG405764-2 LCS, associated with L1004357-01, is below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene (29%). The LCS spike compounds are within overall method allowances; therefore, no further action was taken.

#### Chromium, Hexavalent

L1004357-01 has an elevated detection limit due to the dilution required by the sample matrix.

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

Authorized Signature:



Title: Technical Director/Representative

Date: 04/01/10

# ORGANICS

# VOLATILES

**Project Name:** CVS WAYLAND**Lab Number:** L1004357**Project Number:** 07957.01**Report Date:** 04/01/10**SAMPLE RESULTS**

Lab ID: L1004357-01  
Client ID: VHB-103  
Sample Location: WAYLAND, MA  
Matrix: Water  
Analytical Method: 14,504.1  
Analytical Date: 04/01/10 11:08  
Analyst: JB

Date Collected: 03/26/10 08:40  
Date Received: 03/26/10  
Field Prep: See Narrative  
Extraction Date: 04/01/10 09:30

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Pesticides by GC - Westborough Lab					
1,2-Dibromoethane	ND		ug/l	0.010	1

**Project Name:** CVS WAYLAND**Lab Number:** L1004357**Project Number:** 07957.01**Report Date:** 04/01/10**SAMPLE RESULTS**

**Lab ID:** L1004357-01  
**Client ID:** VHB-103  
**Sample Location:** WAYLAND, MA  
**Matrix:** Water  
**Analytical Method:** 5,624  
**Analytical Date:** 03/29/10 10:20  
**Analyst:** TT

**Date Collected:** 03/26/10 08:40  
**Date Received:** 03/26/10  
**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	50	10
1,1-Dichloroethane	ND		ug/l	15	10
Chloroform	ND		ug/l	15	10
Carbon tetrachloride	ND		ug/l	10	10
1,2-Dichloropropane	ND		ug/l	35	10
Dibromochloromethane	ND		ug/l	10	10
1,1,2-Trichloroethane	ND		ug/l	15	10
2-Chloroethylvinyl ether	ND		ug/l	100	10
Tetrachloroethene	ND		ug/l	15	10
Chlorobenzene	ND		ug/l	35	10
Trichlorofluoromethane	ND		ug/l	50	10
1,2-Dichloroethane	ND		ug/l	15	10
1,1,1-Trichloroethane	ND		ug/l	20	10
Bromodichloromethane	ND		ug/l	10	10
trans-1,3-Dichloropropene	ND		ug/l	15	10
cis-1,3-Dichloropropene	ND		ug/l	15	10
Bromoform	ND		ug/l	10	10
1,1,2,2-Tetrachloroethane	ND		ug/l	10	10
Benzene	ND		ug/l	10	10
Toluene	ND		ug/l	10	10
Ethylbenzene	ND		ug/l	10	10
Chloromethane	ND		ug/l	100	10
Bromomethane	ND		ug/l	50	10
Vinyl chloride	ND		ug/l	20	10
Chloroethane	ND		ug/l	20	10
1,1-Dichloroethene	ND		ug/l	10	10
trans-1,2-Dichloroethene	ND		ug/l	15	10
cis-1,2-Dichloroethene	ND		ug/l	10	10
Trichloroethene	ND		ug/l	10	10
1,2-Dichlorobenzene	ND		ug/l	50	10

**Project Name:** CVS WAYLAND**Lab Number:** L1004357**Project Number:** 07957.01**Report Date:** 04/01/10**SAMPLE RESULTS****Lab ID:** L1004357-01**Date Collected:** 03/26/10 08:40**Client ID:** VHB-103**Date Received:** 03/26/10**Sample Location:** WAYLAND, MA**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,3-Dichlorobenzene	ND		ug/l	50	10
1,4-Dichlorobenzene	ND		ug/l	50	10
p/m-Xylene	ND		ug/l	20	10
o-xylene	ND		ug/l	10	10
Xylene (Total)	ND		ug/l	20	10
Styrene	ND		ug/l	10	10
Acetone	ND		ug/l	100	10
Carbon disulfide	ND		ug/l	50	10
2-Butanone	ND		ug/l	100	10
Vinyl acetate	ND		ug/l	200	10
4-Methyl-2-pentanone	ND		ug/l	100	10
2-Hexanone	ND		ug/l	100	10
Acrolein	ND		ug/l	80	10
Acrylonitrile	ND		ug/l	100	10
Methyl tert butyl ether	1200		ug/l	200	10
1,4-Dioxane	ND		ug/l	20000	10
Tert-Butyl Alcohol	ND		ug/l	1000	10
Tertiary-Amyl Methyl Ether	ND		ug/l	200	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	111		80-120
Fluorobenzene	102		80-120
4-Bromofluorobenzene	104		80-120

Project Name: CVS WAYLAND

Lab Number: L1004357

Project Number: 07957.01

Report Date: 04/01/10

### Method Blank Analysis Batch Quality Control

Analytical Method: 5,624  
 Analytical Date: 03/29/10 07:51  
 Analyst: TT

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG405368-8				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	1.5
Chloroform	ND		ug/l	1.5
Carbon tetrachloride	ND		ug/l	1.0
1,2-Dichloropropane	ND		ug/l	3.5
Dibromochloromethane	ND		ug/l	1.0
1,1,2-Trichloroethane	ND		ug/l	1.5
2-Chloroethylvinyl ether	ND		ug/l	10
Tetrachloroethene	ND		ug/l	1.5
Chlorobenzene	ND		ug/l	3.5
Trichlorofluoromethane	ND		ug/l	5.0
1,2-Dichloroethane	ND		ug/l	1.5
1,1,1-Trichloroethane	ND		ug/l	2.0
Bromodichloromethane	ND		ug/l	1.0
trans-1,3-Dichloropropene	ND		ug/l	1.5
cis-1,3-Dichloropropene	ND		ug/l	1.5
Bromoform	ND		ug/l	1.0
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0
Benzene	ND		ug/l	1.0
Toluene	ND		ug/l	1.0
Ethylbenzene	ND		ug/l	1.0
Chloromethane	ND		ug/l	10
Bromomethane	ND		ug/l	5.0
Vinyl chloride	ND		ug/l	2.0
Chloroethane	ND		ug/l	2.0
1,1-Dichloroethene	ND		ug/l	1.0
trans-1,2-Dichloroethene	ND		ug/l	1.5
cis-1,2-Dichloroethene	ND		ug/l	1.0
Trichloroethene	ND		ug/l	1.0
1,2-Dichlorobenzene	ND		ug/l	5.0
1,3-Dichlorobenzene	ND		ug/l	5.0

Project Name: CVS WAYLAND

Lab Number: L1004357

Project Number: 07957.01

Report Date: 04/01/10

### Method Blank Analysis Batch Quality Control

Analytical Method: 5,624  
 Analytical Date: 03/29/10 07:51  
 Analyst: TT

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG405368-8				
1,4-Dichlorobenzene	ND		ug/l	5.0
p/m-Xylene	ND		ug/l	2.0
o-xylene	ND		ug/l	1.0
Xylene (Total)	ND		ug/l	2.0
Styrene	ND		ug/l	1.0
Acetone	ND		ug/l	10
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	10
Vinyl acetate	ND		ug/l	20
4-Methyl-2-pentanone	ND		ug/l	10
2-Hexanone	ND		ug/l	10
Acrolein	ND		ug/l	8.0
Acrylonitrile	ND		ug/l	10
Methyl tert butyl ether	ND		ug/l	20
1,4-Dioxane	ND		ug/l	2000
Tert-Butyl Alcohol	ND		ug/l	100
Tertiary-Amyl Methyl Ether	ND		ug/l	20

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	111		80-120
Fluorobenzene	102		80-120
4-Bromofluorobenzene	104		80-120

**Project Name:** CVS WAYLAND**Lab Number:** L1004357**Project Number:** 07957.01**Report Date:** 04/01/10**Method Blank Analysis**  
**Batch Quality Control****Analytical Method:** 14,504.1**Analytical Date:** 04/01/10 10:30**Analyst:** JB**Extraction Date:** 04/01/10 09:30

Parameter	Result	Qualifier	Units	RDL
Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG406357-1				

1,2-Dibromoethane	ND		ug/l	0.010
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# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** CVS WAYLAND

**Project Number:** 07957.01

**Lab Number:** L1004357

**Report Date:** 04/01/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG405368-7								
Methylene chloride	159		-		1-221	-		30
1,1-Dichloroethane	112		-		59-155	-		30
Chloroform	114		-		51-138	-		30
Carbon tetrachloride	155	Q	-		70-140	-		30
1,2-Dichloropropane	109		-		1-210	-		30
Dibromochloromethane	105		-		53-149	-		30
1,1,2-Trichloroethane	95		-		52-150	-		30
2-Chloroethylvinyl ether	103		-		1-305	-		30
Tetrachloroethene	102		-		64-148	-		30
Chlorobenzene	116		-		37-160	-		30
Trichlorofluoromethane	150		-		17-181	-		30
1,2-Dichloroethane	112		-		49-155	-		30
1,1,1-Trichloroethane	144		-		52-162	-		30
Bromodichloromethane	106		-		35-155	-		30
trans-1,3-Dichloropropene	126		-		17-183	-		30
cis-1,3-Dichloropropene	116		-		1-227	-		30
Bromoform	129		-		45-169	-		30
1,1,2,2-Tetrachloroethane	109		-		46-157	-		30
Benzene	112		-		37-151	-		30
Toluene	96		-		47-150	-		30
Ethylbenzene	116		-		37-162	-		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: CVS WAYLAND

Project Number: 07957.01

Lab Number: L1004357

Report Date: 04/01/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG405368-7								
Chloromethane	163		-		1-273	-		30
Bromomethane	148		-		1-242	-		30
Vinyl chloride	121		-		1-251	-		30
Chloroethane	156		-		14-230	-		30
1,1-Dichloroethene	192		-		1-234	-		30
trans-1,2-Dichloroethene	119		-		54-156	-		30
cis-1,2-Dichloroethene	103		-		60-140	-		30
Trichloroethene	106		-		71-157	-		30
1,2-Dichlorobenzene	110		-		18-190	-		30
1,3-Dichlorobenzene	113		-		59-156	-		30
1,4-Dichlorobenzene	111		-		18-190	-		30
p/m-Xylene	127		-		40-160	-		30
o-Xylene	112		-		40-160	-		30
XYLENE (TOTAL)	122		-		40-160	-		30
Styrene	98		-		40-160	-		30
Acetone	128		-		40-160	-		30
Carbon disulfide	150		-		40-160	-		30
2-Butanone	108		-		40-160	-		30
Vinyl acetate	112		-		40-160	-		30
4-Methyl-2-pentanone	93		-		40-160	-		30
2-Hexanone	97		-		40-160	-		30

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** CVS WAYLAND

**Lab Number:** L1004357

**Project Number:** 07957.01

**Report Date:** 04/01/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG405368-7								
Acrolein	145		-		40-160	-		30
Acrylonitrile	123		-		40-160	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	105				80-120
Fluorobenzene	99				80-120
4-Bromofluorobenzene	104				80-120

Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG406357-2

1,2-Dibromoethane	118		-		70-130	-		20
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# Matrix Spike Analysis

## Batch Quality Control

Project Name: CVS WAYLAND

Project Number: 07957.01

Lab Number: L1004357

Report Date: 04/01/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01    QC Batch ID: WG405368-3    QC Sample: L1004207-06    Client ID: MS Sample												
Methylene chloride	ND	20	23	116	-	-	-	-	1-221	-	-	30
1,1-Dichloroethane	ND	20	25	124	-	-	-	-	59-155	-	-	30
Chloroform	ND	20	24	122	-	-	-	-	51-138	-	-	30
Carbon tetrachloride	ND	20	20	100	-	-	-	-	70-140	-	-	30
1,2-Dichloropropane	ND	20	24	119	-	-	-	-	1-210	-	-	30
Dibromochloromethane	ND	20	21	106	-	-	-	-	53-149	-	-	30
1,1,2-Trichloroethane	ND	20	22	109	-	-	-	-	52-150	-	-	30
2-Chloroethylvinyl ether	ND	20	22	110	-	-	-	-	1-305	-	-	30
Tetrachloroethene	ND	20	22	109	-	-	-	-	64-148	-	-	30
Chlorobenzene	ND	20	23	114	-	-	-	-	37-160	-	-	30
Trichlorofluoromethane	ND	20	24	121	-	-	-	-	17-181	-	-	30
1,2-Dichloroethane	ND	20	23	117	-	-	-	-	49-155	-	-	30
1,1,1-Trichloroethane	ND	20	16	80	-	-	-	-	52-162	-	-	30
Bromodichloromethane	ND	20	22	113	-	-	-	-	35-155	-	-	30
trans-1,3-Dichloropropene	ND	20	16	79	-	-	-	-	17-183	-	-	30
cis-1,3-Dichloropropene	ND	20	16	79	-	-	-	-	1-227	-	-	30
Bromoform	ND	20	21	106	-	-	-	-	45-169	-	-	30
1,1,2,2-Tetrachloroethane	ND	20	23	117	-	-	-	-	46-157	-	-	30
Benzene	ND	20	24	123	-	-	-	-	35-151	-	-	30
Toluene	ND	20	22	109	-	-	-	-	47-150	-	-	30
Ethylbenzene	ND	20	23	113	-	-	-	-	37-162	-	-	30

# Matrix Spike Analysis

## Batch Quality Control

Project Name: CVS WAYLAND

Project Number: 07957.01

Lab Number: L1004357

Report Date: 04/01/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405368-3 QC Sample: L1004207-06 Client ID: MS Sample												
Chloromethane	ND	20	28	140		-	-		1-273	-		30
Bromomethane	ND	20	19	96		-	-		1-242	-		30
Vinyl chloride	ND	20	23	117		-	-		1-251	-		30
Chloroethane	ND	20	24	121		-	-		14-230	-		30
1,1-Dichloroethene	ND	20	27	133		-	-		1-234	-		30
trans-1,2-Dichloroethene	ND	20	21	107		-	-		54-156	-		30
cis-1,2-Dichloroethene	ND	20	35	114		-	-		60-140	-		30
Trichloroethene	ND	20	36	115		-	-		71-157	-		30
1,2-Dichlorobenzene	ND	20	21	106		-	-		18-190	-		30
1,3-Dichlorobenzene	ND	20	22	108		-	-		59-156	-		30
1,4-Dichlorobenzene	ND	20	21	104		-	-		18-190	-		30
p/m-Xylene	ND	40	45	114		-	-		40-160	-		30
o-Xylene	ND	20	22	108		-	-		40-160	-		30
XYLENE (TOTAL)	ND	60	67	112		-	-		40-160	-		30
Styrene	ND	20	19	96		-	-		40-160	-		30
Acetone	ND	50	57	114		-	-		40-160	-		30
Carbon disulfide	ND	20	26	131		-	-		40-160	-		30
2-Butanone	ND	50	54	108		-	-		40-160	-		30
Vinyl acetate	ND	40	50	126		-	-		40-160	-		30
4-Methyl-2-pentanone	ND	50	48	97		-	-		40-160	-		30
2-Hexanone	ND	50	49	98		-	-		40-160	-		30

# Matrix Spike Analysis

## Batch Quality Control

Project Name: CVS WAYLAND

Project Number: 07957.01

Lab Number: L1004357

Report Date: 04/01/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405368-3 QC Sample: L1004207-06 Client ID: MS Sample												
Acrolein	ND	40	11	27	Q	-	-		40-160	-		30
Acrylonitrile	ND	40	38	95		-	-		40-160	-		30

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
4-Bromofluorobenzene	98				80-120
Fluorobenzene	104				80-120
Pentafluorobenzene	102				80-120

Pesticides by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG406357-3 QC Sample: L1004357-01 Client ID: VHB-103												
1,2-Dibromoethane	ND	0.254	0.315	124		-	-		70-130	-		20

# Lab Duplicate Analysis

## Batch Quality Control

Project Name: CVS WAYLAND

Project Number: 07957.01

Lab Number: L1004357

Report Date: 04/01/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405368-4 QC Sample: L1004207-06 Client ID: DUP Sample						
Benzene	ND	ND	ug/l	NC		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	101		102		80-120
Fluorobenzene	104		105		80-120
4-Bromofluorobenzene	104		107		80-120

# SEMIVOLATILES

**Project Name:** CVS WAYLAND**Lab Number:** L1004357**Project Number:** 07957.01**Report Date:** 04/01/10**SAMPLE RESULTS**

**Lab ID:** L1004357-01  
**Client ID:** VHB-103  
**Sample Location:** WAYLAND, MA  
**Matrix:** Water  
**Analytical Method:** 1,8270C  
**Analytical Date:** 03/30/10 12:54  
**Analyst:** HL

**Date Collected:** 03/26/10 08:40  
**Date Received:** 03/26/10  
**Field Prep:** See Narrative  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 03/27/10 10:16

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab					
Acenaphthene	ND		ug/l	0.20	1
2-Chloronaphthalene	ND		ug/l	0.20	1
Fluoranthene	ND		ug/l	0.20	1
Hexachlorobutadiene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	0.20	1
Benzo(a)anthracene	ND		ug/l	0.20	1
Benzo(a)pyrene	ND		ug/l	0.20	1
Benzo(b)fluoranthene	ND		ug/l	0.20	1
Benzo(k)fluoranthene	ND		ug/l	0.20	1
Chrysene	ND		ug/l	0.20	1
Acenaphthylene	ND		ug/l	0.20	1
Anthracene	ND		ug/l	0.20	1
Benzo(ghi)perylene	ND		ug/l	0.20	1
Fluorene	ND		ug/l	0.20	1
Phenanthrene	ND		ug/l	0.20	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	1
Pyrene	ND		ug/l	0.20	1
1-Methylnaphthalene	ND		ug/l	0.20	1
2-Methylnaphthalene	ND		ug/l	0.20	1
Pentachlorophenol	ND		ug/l	0.80	1
Hexachlorobenzene	ND		ug/l	0.80	1
Hexachloroethane	ND		ug/l	0.80	1

Project Name: CVS WAYLAND

Lab Number: L1004357

Project Number: 07957.01

Report Date: 04/01/10

## SAMPLE RESULTS

Lab ID: L1004357-01

Date Collected: 03/26/10 08:40

Client ID: VHB-103

Date Received: 03/26/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	97		10-120
4-Terphenyl-d14	102		33-120

**Project Name:** CVS WAYLAND**Lab Number:** L1004357**Project Number:** 07957.01**Report Date:** 04/01/10**SAMPLE RESULTS**

**Lab ID:** L1004357-01  
**Client ID:** VHB-103  
**Sample Location:** WAYLAND, MA  
**Matrix:** Water  
**Analytical Method:** 1,8270C  
**Analytical Date:** 03/30/10 15:27  
**Analyst:** PS

**Date Collected:** 03/26/10 08:40  
**Date Received:** 03/26/10  
**Field Prep:** See Narrative  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 03/27/10 10:25

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzidine	ND		ug/l	50	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1
Bis(2-chloroethyl)ether	ND		ug/l	5.0	1
1,2-Dichlorobenzene	ND		ug/l	5.0	1
1,3-Dichlorobenzene	ND		ug/l	5.0	1
1,4-Dichlorobenzene	ND		ug/l	5.0	1
3,3'-Dichlorobenzidine	ND		ug/l	50	1
2,4-Dinitrotoluene	ND		ug/l	6.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1
Azobenzene	ND		ug/l	5.0	1
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	1
4-Bromophenyl phenyl ether	ND		ug/l	5.0	1
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1
Hexachlorocyclopentadiene	ND		ug/l	30	1
Isophorone	ND		ug/l	5.0	1
Nitrobenzene	ND		ug/l	5.0	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0	1
Butyl benzyl phthalate	ND		ug/l	5.0	1
Di-n-butylphthalate	ND		ug/l	5.0	1
Di-n-octylphthalate	ND		ug/l	5.0	1
Diethyl phthalate	ND		ug/l	5.0	1
Dimethyl phthalate	ND		ug/l	5.0	1
Aniline	ND		ug/l	20	1
4-Chloroaniline	ND		ug/l	5.0	1
2-Nitroaniline	ND		ug/l	5.0	1
3-Nitroaniline	ND		ug/l	5.0	1
4-Nitroaniline	ND		ug/l	7.0	1
Dibenzofuran	ND		ug/l	5.0	1

Project Name: CVS WAYLAND

Lab Number: L1004357

Project Number: 07957.01

Report Date: 04/01/10

## SAMPLE RESULTS

Lab ID: L1004357-01  
 Client ID: VHB-103  
 Sample Location: WAYLAND, MA

Date Collected: 03/26/10 08:40  
 Date Received: 03/26/10  
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
n-Nitrosodimethylamine	ND		ug/l	50	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	1
P-Chloro-M-Cresol	ND		ug/l	5.0	1
2-Chlorophenol	ND		ug/l	6.0	1
2,4-Dichlorophenol	ND		ug/l	10	1
2,4-Dimethylphenol	ND		ug/l	10	1
2-Nitrophenol	ND		ug/l	20	1
4-Nitrophenol	ND		ug/l	10	1
2,4-Dinitrophenol	ND		ug/l	30	1
4,6-Dinitro-o-cresol	ND		ug/l	20	1
Phenol	ND		ug/l	7.0	1
2-Methylphenol	ND		ug/l	6.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	1
Benzoic Acid	ND		ug/l	50	1
Benzyl Alcohol	ND		ug/l	10	1
Carbazole	ND		ug/l	5.0	1
Pyridine	ND		ug/l	50	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	83		10-120
4-Terphenyl-d14	98		33-120

Project Name: CVS WAYLAND

Lab Number: L1004357

Project Number: 07957.01

Report Date: 04/01/10

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C  
 Analytical Date: 03/30/10 11:29  
 Analyst: HL

Extraction Method: EPA 3510C  
 Extraction Date: 03/27/10 10:16

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG405670-1				
Acenaphthene	ND		ug/l	0.20
2-Chloronaphthalene	ND		ug/l	0.20
Fluoranthene	ND		ug/l	0.20
Hexachlorobutadiene	ND		ug/l	0.50
Naphthalene	ND		ug/l	0.20
Benzo(a)anthracene	ND		ug/l	0.20
Benzo(a)pyrene	ND		ug/l	0.20
Benzo(b)fluoranthene	ND		ug/l	0.20
Benzo(k)fluoranthene	ND		ug/l	0.20
Chrysene	ND		ug/l	0.20
Acenaphthylene	ND		ug/l	0.20
Anthracene	ND		ug/l	0.20
Benzo(ghi)perylene	ND		ug/l	0.20
Fluorene	ND		ug/l	0.20
Phenanthrene	ND		ug/l	0.20
Dibenzo(a,h)anthracene	ND		ug/l	0.20
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20
Pyrene	ND		ug/l	0.20
1-Methylnaphthalene	ND		ug/l	0.20
2-Methylnaphthalene	ND		ug/l	0.20
Pentachlorophenol	ND		ug/l	0.80
Hexachlorobenzene	ND		ug/l	0.80
Hexachloroethane	ND		ug/l	0.80

**Project Name:** CVS WAYLAND**Lab Number:** L1004357**Project Number:** 07957.01**Report Date:** 04/01/10**Method Blank Analysis**  
**Batch Quality Control****Analytical Method:** 1,8270C  
**Analytical Date:** 03/30/10 11:29  
**Analyst:** HL**Extraction Method:** EPA 3510C  
**Extraction Date:** 03/27/10 10:16

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG405670-1				

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	93		33-120

Project Name: CVS WAYLAND

Lab Number: L1004357

Project Number: 07957.01

Report Date: 04/01/10

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C  
 Analytical Date: 03/30/10 12:04  
 Analyst: PS

Extraction Method: EPA 3510C  
 Extraction Date: 03/27/10 10:25

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG405671-1				
Benzidine	ND		ug/l	50
1,2,4-Trichlorobenzene	ND		ug/l	5.0
Bis(2-chloroethyl)ether	ND		ug/l	5.0
1,2-Dichlorobenzene	ND		ug/l	5.0
1,3-Dichlorobenzene	ND		ug/l	5.0
1,4-Dichlorobenzene	ND		ug/l	5.0
3,3'-Dichlorobenzidine	ND		ug/l	50
2,4-Dinitrotoluene	ND		ug/l	6.0
2,6-Dinitrotoluene	ND		ug/l	5.0
Azobenzene	ND		ug/l	5.0
4-Chlorophenyl phenyl ether	ND		ug/l	5.0
4-Bromophenyl phenyl ether	ND		ug/l	5.0
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0
Bis(2-chloroethoxy)methane	ND		ug/l	5.0
Hexachlorocyclopentadiene	ND		ug/l	30
Isophorone	ND		ug/l	5.0
Nitrobenzene	ND		ug/l	5.0
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0
Butyl benzyl phthalate	ND		ug/l	5.0
Di-n-butylphthalate	ND		ug/l	5.0
Di-n-octylphthalate	ND		ug/l	5.0
Diethyl phthalate	ND		ug/l	5.0
Dimethyl phthalate	ND		ug/l	5.0
Aniline	ND		ug/l	20
4-Chloroaniline	ND		ug/l	5.0
2-Nitroaniline	ND		ug/l	5.0
3-Nitroaniline	ND		ug/l	5.0
4-Nitroaniline	ND		ug/l	7.0
Dibenzofuran	ND		ug/l	5.0
n-Nitrosodimethylamine	ND		ug/l	50

Project Name: CVS WAYLAND

Lab Number: L1004357

Project Number: 07957.01

Report Date: 04/01/10

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C  
 Analytical Date: 03/30/10 12:04  
 Analyst: PS

Extraction Method: EPA 3510C  
 Extraction Date: 03/27/10 10:25

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG405671-1				
2,4,6-Trichlorophenol	ND		ug/l	5.0
P-Chloro-M-Cresol	ND		ug/l	5.0
2-Chlorophenol	ND		ug/l	6.0
2,4-Dichlorophenol	ND		ug/l	10
2,4-Dimethylphenol	ND		ug/l	10
2-Nitrophenol	ND		ug/l	20
4-Nitrophenol	ND		ug/l	10
2,4-Dinitrophenol	ND		ug/l	30
4,6-Dinitro-o-cresol	ND		ug/l	20
Phenol	ND		ug/l	7.0
2-Methylphenol	ND		ug/l	6.0
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0
2,4,5-Trichlorophenol	ND		ug/l	5.0
Benzoic Acid	ND		ug/l	50
Benzyl Alcohol	ND		ug/l	10
Carbazole	ND		ug/l	5.0
Pyridine	ND		ug/l	50

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	98		33-120

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** CVS WAYLAND

**Project Number:** 07957.01

**Lab Number:** L1004357

**Report Date:** 04/01/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG405670-2 WG405670-3								
Acenaphthene	66		74		37-111	11		40
2-Chloronaphthalene	81		88		40-140	8		40
Fluoranthene	93		97		40-140	4		40
Anthracene	78		85		40-140	9		40
Pyrene	91		94		26-127	3		40
Pentachlorophenol	66		68		9-103	3		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	38		39		21-120
Phenol-d6	26		28		10-120
Nitrobenzene-d5	70		74		23-120
2-Fluorobiphenyl	69		73		15-120
2,4,6-Tribromophenol	77		86		10-120
4-Terphenyl-d14	92		93		33-120

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: CVS WAYLAND

Project Number: 07957.01

Lab Number: L1004357

Report Date: 04/01/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG405671-2 WG405671-3								
1,2,4-Trichlorobenzene	41		55		39-98	29		30
1,2-Dichlorobenzene	42		57		40-140	30		30
1,4-Dichlorobenzene	40		53		36-97	28		30
2,4-Dinitrotoluene	96		115	Q	24-96	18		30
2,6-Dinitrotoluene	79		103		40-140	26		30
4-Chlorophenyl phenyl ether	70		86		40-140	21		30
n-Nitrosodi-n-propylamine	55		76		41-116	32	Q	30
Butyl benzyl phthalate	92		106		40-140	14		30
P-Chloro-M-Cresol	69		92		23-97	29		30
2-Chlorophenol	51		70		27-123	31	Q	30
2-Nitrophenol	59		82		30-130	33	Q	30
4-Nitrophenol	41		45		10-80	9		30
2,4-Dinitrophenol	59		76		20-130	25		30
Phenol	24		34		12-110	34	Q	30

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** CVS WAYLAND

**Lab Number:** L1004357

**Project Number:** 07957.01

**Report Date:** 04/01/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG405671-2 WG405671-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	35		45		21-120
Phenol-d6	24		30		10-120
Nitrobenzene-d5	59		82		23-120
2-Fluorobiphenyl	68		92		15-120
2,4,6-Tribromophenol	89		101		10-120
4-Terphenyl-d14	97		110		33-120

# PCBS

**Project Name:** CVS WAYLAND**Lab Number:** L1004357**Project Number:** 07957.01**Report Date:** 04/01/10**SAMPLE RESULTS**

**Lab ID:** L1004357-01  
**Client ID:** VHB-103  
**Sample Location:** WAYLAND, MA  
**Matrix:** Water  
**Analytical Method:** 5,608  
**Analytical Date:** 03/31/10 15:47  
**Analyst:** SS

**Date Collected:** 03/26/10 08:40  
**Date Received:** 03/26/10  
**Field Prep:** See Narrative  
**Extraction Method:** EPA 608  
**Extraction Date:** 03/29/10 10:35  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 03/30/10  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 03/30/10

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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## Polychlorinated Biphenyls by GC - Westborough Lab

Aroclor 1016	ND		ug/l	0.250	1
Aroclor 1221	ND		ug/l	0.250	1
Aroclor 1232	ND		ug/l	0.250	1
Aroclor 1242	ND		ug/l	0.250	1
Aroclor 1248	ND		ug/l	0.250	1
Aroclor 1254	ND		ug/l	0.250	1
Aroclor 1260	ND		ug/l	0.250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	34		30-150	A
Decachlorobiphenyl	80		30-150	A

Project Name: CVS WAYLAND

Lab Number: L1004357

Project Number: 07957.01

Report Date: 04/01/10

### Method Blank Analysis Batch Quality Control

Analytical Method: 5,608  
 Analytical Date: 03/31/10 14:55  
 Analyst: SS

Extraction Method: EPA 608  
 Extraction Date: 03/29/10 10:35  
 Cleanup Method1: EPA 3665A  
 Cleanup Date1: 03/30/10  
 Cleanup Method2: EPA 3660B  
 Cleanup Date2: 03/30/10

Parameter	Result	Qualifier	Units	RDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG405764-1				
Aroclor 1016	ND		ug/l	0.250
Aroclor 1221	ND		ug/l	0.250
Aroclor 1232	ND		ug/l	0.250
Aroclor 1242	ND		ug/l	0.250
Aroclor 1248	ND		ug/l	0.250
Aroclor 1254	ND		ug/l	0.250
Aroclor 1260	ND		ug/l	0.250

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	27	Q	30-150	A
Decachlorobiphenyl	46		30-150	A

# Matrix Spike Analysis

## Batch Quality Control

Project Name: CVS WAYLAND

Project Number: 07957.01

Lab Number: L1004357

Report Date: 04/01/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405764-3 QC Sample: L1004228-01 Client ID: MS Sample												
Aroclor 1016	ND	2.13	1.67	78		-	-		40-126	-		30
Aroclor 1260	ND	2.13	1.73	81		-	-		40-127	-		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	33				30-150	A
Decachlorobiphenyl	76				30-150	A

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** CVS WAYLAND

**Lab Number:** L1004357

**Project Number:** 07957.01

**Report Date:** 04/01/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG405764-2								
Aroclor 1016	79		-		40-126	-		30
Aroclor 1260	95		-		40-127	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	29	Q			30-150	A
Decachlorobiphenyl	90				30-150	A

# Lab Duplicate Analysis

## Batch Quality Control

Project Name: CVS WAYLAND

Project Number: 07957.01

Lab Number: L1004357

Report Date: 04/01/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405764-4 QC Sample: L1004228-01 Client ID: DUP Sample						
Aroclor 1016	ND	ND	ug/l	NC		30
Aroclor 1221	ND	ND	ug/l	NC		30
Aroclor 1232	ND	ND	ug/l	NC		30
Aroclor 1242	ND	ND	ug/l	NC		30
Aroclor 1248	ND	ND	ug/l	NC		30
Aroclor 1254	ND	ND	ug/l	NC		30
Aroclor 1260	ND	ND	ug/l	NC		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	30		35		30-150	A
Decachlorobiphenyl	66		74		30-150	A

## METALS

**Project Name:** CVS WAYLAND  
**Project Number:** 07957.01

**Lab Number:** L1004357  
**Report Date:** 04/01/10

**SAMPLE RESULTS**

**Lab ID:** L1004357-01  
**Client ID:** VHB-103  
**Sample Location:** WAYLAND, MA  
**Matrix:** Water

**Date Collected:** 03/26/10 08:40  
**Date Received:** 03/26/10  
**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Dissolved Metals - Westborough Lab</b>										
Antimony, Dissolved	ND		mg/l	0.0005	1	03/27/10 13:00	03/30/10 20:05	EPA 3005A	1,6020	BM
Arsenic, Dissolved	0.0163		mg/l	0.0005	1	03/27/10 13:00	03/30/10 20:05	EPA 3005A	1,6020	BM
Cadmium, Dissolved	ND		mg/l	0.0002	1	03/27/10 13:00	03/30/10 20:05	EPA 3005A	1,6020	BM
Chromium, Dissolved	0.0007		mg/l	0.0005	1	03/27/10 13:00	03/30/10 20:05	EPA 3005A	1,6020	BM
Copper, Dissolved	0.0018		mg/l	0.0005	1	03/27/10 13:00	03/30/10 20:05	EPA 3005A	1,6020	BM
Iron, Dissolved	26		mg/l	0.05	1	03/27/10 13:00	03/30/10 10:33	EPA 3005A	19,200.7	MG
Lead, Dissolved	ND		mg/l	0.0005	1	03/27/10 13:00	03/30/10 20:05	EPA 3005A	1,6020	BM
Mercury, Dissolved	ND		mg/l	0.0002	1	03/29/10 15:46	03/30/10 11:42	EPA 245.1	3,245.1	EZ
Nickel, Dissolved	0.0015		mg/l	0.0005	1	03/27/10 13:00	03/30/10 20:05	EPA 3005A	1,6020	BM
Selenium, Dissolved	ND		mg/l	0.001	1	03/27/10 13:00	03/30/10 20:05	EPA 3005A	1,6020	BM
Silver, Dissolved	ND		mg/l	0.0004	1	03/27/10 13:00	03/30/10 20:05	EPA 3005A	1,6020	BM
Zinc, Dissolved	0.0186		mg/l	0.0050	1	03/27/10 13:00	03/30/10 20:05	EPA 3005A	1,6020	BM



Project Name: CVS WAYLAND

Lab Number: L1004357

Project Number: 07957.01

Report Date: 04/01/10

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG405686-1								
Iron, Dissolved	ND	mg/l	0.05	1	03/27/10 13:00	03/30/10 10:27	19,200.7	MG

### Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG405687-1								
Antimony, Dissolved	ND	mg/l	0.0005	1	03/27/10 13:00	03/30/10 19:35	1,6020	BM
Arsenic, Dissolved	ND	mg/l	0.0005	1	03/27/10 13:00	03/30/10 19:35	1,6020	BM
Cadmium, Dissolved	ND	mg/l	0.0002	1	03/27/10 13:00	03/30/10 19:35	1,6020	BM
Chromium, Dissolved	ND	mg/l	0.0005	1	03/27/10 13:00	03/30/10 19:35	1,6020	BM
Copper, Dissolved	ND	mg/l	0.0005	1	03/27/10 13:00	03/30/10 19:35	1,6020	BM
Lead, Dissolved	ND	mg/l	0.0005	1	03/27/10 13:00	03/30/10 19:35	1,6020	BM
Nickel, Dissolved	ND	mg/l	0.0005	1	03/27/10 13:00	03/30/10 19:35	1,6020	BM
Selenium, Dissolved	ND	mg/l	0.001	1	03/27/10 13:00	03/30/10 19:35	1,6020	BM
Silver, Dissolved	ND	mg/l	0.0004	1	03/27/10 13:00	03/30/10 19:35	1,6020	BM
Zinc, Dissolved	ND	mg/l	0.0050	1	03/27/10 13:00	03/30/10 19:35	1,6020	BM

### Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG405868-1								
Mercury, Dissolved	ND	mg/l	0.0002	1	03/29/10 15:46	03/30/10 11:30	3,245.1	EZ

### Prep Information

Digestion Method: EPA 245.1

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** CVS WAYLAND

**Project Number:** 07957.01

**Lab Number:** L1004357

**Report Date:** 04/01/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG405686-2								
Iron, Dissolved	97		-			-		
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG405687-2								
Antimony, Dissolved	99		-		80-120	-		
Arsenic, Dissolved	102		-		80-120	-		
Cadmium, Dissolved	113		-		80-120	-		
Chromium, Dissolved	98		-		80-120	-		
Copper, Dissolved	110		-		80-120	-		
Lead, Dissolved	109		-		80-120	-		
Nickel, Dissolved	99		-		80-120	-		
Selenium, Dissolved	107		-		80-120	-		
Silver, Dissolved	99		-		80-120	-		
Zinc, Dissolved	108		-		80-120	-		
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG405868-2								
Mercury, Dissolved	106		-			-		

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** CVS WAYLAND  
**Project Number:** 07957.01

**Lab Number:** L1004357  
**Report Date:** 04/01/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405686-4 QC Sample: L1004357-01 Client ID: VHB-103												
Iron, Dissolved	26	1	27	100		-	-			-		
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405687-4 QC Sample: L1004357-01 Client ID: VHB-103												
Antimony, Dissolved	ND	0.5	0.5035	101		-	-		80-120	-		20
Arsenic, Dissolved	0.0163	0.12	0.1458	108		-	-		80-120	-		20
Cadmium, Dissolved	ND	0.051	0.0566	111		-	-		80-120	-		20
Chromium, Dissolved	0.0007	0.2	0.1914	95		-	-		80-120	-		20
Copper, Dissolved	0.0018	0.25	0.2433	96		-	-		80-120	-		20
Lead, Dissolved	ND	0.51	0.5654	111		-	-		80-120	-		20
Nickel, Dissolved	0.0015	0.5	0.4718	94		-	-		80-120	-		20
Selenium, Dissolved	ND	0.12	0.126	105		-	-		80-120	-		20
Silver, Dissolved	ND	0.05	0.0477	95		-	-		80-120	-		20
Zinc, Dissolved	0.0186	0.5	0.5209	100		-	-		80-120	-		20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405868-4 QC Sample: L1004357-01 Client ID: VHB-103												
Mercury, Dissolved	ND	0.001	0.0012	123		-	-			-		

# Lab Duplicate Analysis

## Batch Quality Control

Project Name: CVS WAYLAND

Project Number: 07957.01

Lab Number: L1004357

Report Date: 04/01/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405686-3 QC Sample: L1004357-01 Client ID: VHB-103						
Iron, Dissolved	26	27	mg/l	4		
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405687-3 QC Sample: L1004357-01 Client ID: VHB-103						
Antimony, Dissolved	ND	ND	mg/l	NC		20
Arsenic, Dissolved	0.0163	0.0166	mg/l	1		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Chromium, Dissolved	0.0007	0.0008	mg/l	7		20
Copper, Dissolved	0.0018	0.0019	mg/l	3		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Nickel, Dissolved	0.0015	0.0015	mg/l	1		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Zinc, Dissolved	0.0186	0.0158	mg/l	16		20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405868-3 QC Sample: L1004357-01 Client ID: VHB-103						
Mercury, Dissolved	ND	ND	mg/l	NC		

# **INORGANICS & MISCELLANEOUS**

**Project Name:** CVS WAYLAND  
**Project Number:** 07957.01

**Lab Number:** L1004357  
**Report Date:** 04/01/10

### SAMPLE RESULTS

**Lab ID:** L1004357-01  
**Client ID:** VHB-103  
**Sample Location:** WAYLAND, MA  
**Matrix:** Water

**Date Collected:** 03/26/10 08:40  
**Date Received:** 03/26/10  
**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Solids, Total Suspended	5.4		mg/l	5.0	1	-	03/29/10 09:10	30,2540D	DW
Cyanide, Total	0.006		mg/l	0.005	1	03/28/10 14:05	03/29/10 18:11	30,4500CN-CE	JO
Chlorine, Total Residual	ND		mg/l	0.02	1	-	03/26/10 17:00	30,4500CL-D	AT
pH (H)	6.8		SU	-	1	-	03/26/10 17:30	30,4500H+-B	AT
TPH	ND		mg/l	4.40	1.1	03/29/10 12:30	03/31/10 10:15	74,1664A	JO
Phenolics, Total	ND		mg/l	0.03	1	-	03/30/10 13:09	4,420.1	TH
Chromium, Hexavalent	ND		mg/l	0.050	5	03/26/10 22:00	03/26/10 22:00	30,3500CR-D	AT



Project Name: CVS WAYLAND

Lab Number: L1004357

Project Number: 07957.01

Report Date: 04/01/10

### Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG405653-1								
Chlorine, Total Residual	ND	mg/l	0.02	1	-	03/26/10 17:00	30,4500CL-D	AT
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG405658-1								
Chromium, Hexavalent	ND	mg/l	0.010	1	03/26/10 22:00	03/26/10 22:00	30,3500CR-D	AT
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG405710-1								
Cyanide, Total	ND	mg/l	0.005	1	03/28/10 14:05	03/29/10 18:01	30,4500CN-CE	JO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG405736-1								
Solids, Total Suspended	ND	mg/l	5.0	1	-	03/29/10 09:10	30,2540D	DW
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG405824-2								
TPH	ND	mg/l	4.00	1	03/29/10 12:30	03/31/10 10:15	74,1664A	JO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG405996-1								
Phenolics, Total	ND	mg/l	0.03	1	-	03/30/10 13:06	4,420.1	TH

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** CVS WAYLAND

**Project Number:** 07957.01

**Lab Number:** L1004357

**Report Date:** 04/01/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG405643-1								
pH	100		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG405653-2								
Chlorine, Total Residual	96		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG405658-2								
Chromium, Hexavalent	101		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG405710-2								
Cyanide, Total	101		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG405824-1								
TPH	80		-		64-132	-		34
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG405996-2								
Phenolics, Total	105		-		82-111	-		12

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** CVS WAYLAND

**Project Number:** 07957.01

**Lab Number:** L1004357

**Report Date:** 04/01/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405658-3 QC Sample: L1004357-01 Client ID: VHB-103												
Chromium, Hexavalent	ND	0.5	0.480	96		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405710-4 QC Sample: L1004353-02 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.218	109		-	-		80-120	-		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405824-3 QC Sample: L1004237-01 Client ID: MS Sample												
TPH	ND	21.7	17.1	79		-	-		64-132	-		34
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405996-3 QC Sample: L1004387-01 Client ID: MS Sample												
Phenolics, Total	ND	0.8	0.80	100		-	-		77-124	-		12

# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** CVS WAYLAND

**Project Number:** 07957.01

**Lab Number:** L1004357

**Report Date:** 04/01/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405643-2 QC Sample: L1004357-01 Client ID: VHB-103						
pH (H)	6.8	6.8	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405653-3 QC Sample: L1004353-01 Client ID: DUP Sample						
Chlorine, Total Residual	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405658-4 QC Sample: L1004357-01 Client ID: VHB-103						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405710-3 QC Sample: L1004353-02 Client ID: DUP Sample						
Cyanide, Total	ND	ND	mg/l	NC		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405736-2 QC Sample: L1004357-01 Client ID: VHB-103						
Solids, Total Suspended	5.4	5.2	mg/l	4		32
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405824-4 QC Sample: L1004237-01 Client ID: DUP Sample						
TPH	ND	ND	mg/l	NC		34
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405996-4 QC Sample: L1004387-02 Client ID: DUP Sample						
Phenolics, Total	0.16	0.16	mg/l	0		12

Project Name: CVS WAYLAND

Lab Number: L1004357

Project Number: 07957.01

Report Date: 04/01/10

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

## Cooler Information

Cooler	Custody Seal
A	Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L1004357-01A	Vial Na2S2O3 preserved	A	N/A	4	Y	Absent	624(7)
L1004357-01B	Vial Na2S2O3 preserved	A	N/A	4	Y	Absent	624(7)
L1004357-01C	Vial Na2S2O3 preserved	A	N/A	4	Y	Absent	504(14)
L1004357-01D	Vial Na2S2O3 preserved	A	N/A	4	Y	Absent	504(14)
L1004357-01F	Plastic 500ml HNO3 preserved	A	<2	4	Y	Absent	CU-6020S(180),FE-RI(180),SE-6020S(180),ZN-6020S(180),CR-6020S(180),NI-6020S(180),PB-6020S(180),AG-6020S(180),AS-6020S(180),HG-R(28),SB-6020S(180),CD-6020S(180)
L1004357-01G	Amber 1000ml Na2S2O3	A	7	4	Y	Absent	PCB-608(7)
L1004357-01H	Amber 1000ml unpreserved	A	7	4	Y	Absent	PH-4500(1),HEXCR-3500(1),TRC-4500(1)
L1004357-01I	Amber 1000ml Na2S2O3	A	7	4	Y	Absent	PCB-608(7)
L1004357-01J	Plastic 1000ml unpreserved	A	7	4	Y	Absent	TSS-2540(7)
L1004357-01K	Amber 1000ml HCl preserved	A	<2	4	Y	Absent	TPH-1664(28)
L1004357-01L	Amber 1000ml HCl preserved	A	<2	4	Y	Absent	TPH-1664(28)
L1004357-01M	Amber 500ml H2SO4preserved	A	<2	4	Y	Absent	TPHENOL-420(28)
L1004357-01N	Plastic 1000ml NaOH preserved	A	>12	4	Y	Absent	TCN-4500(14)
L1004357-01O	Plastic 1000ml unpreserved	A	7	4	Y	Absent	TSS-2540(7)
L1004357-01W	Amber 1000ml unpreserved	A	7	4	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1004357-01X	Amber 1000ml unpreserved	A	7	4	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1004357-02A	Vial Na2S2O3 preserved	A	N/A	4	Y	Absent	HOLD(14)
L1004357-02B	Vial Na2S2O3 preserved	A	N/A	4	Y	Absent	HOLD(14)

## Container Comments

L1004357-01F

*Hold days indicated by values in parentheses



**Project Name:** CVS WAYLAND  
**Project Number:** 07957.01

**Lab Number:** L1004357  
**Report Date:** 04/01/10

## GLOSSARY

### Acronyms

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

### Terms

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

### Data Qualifiers

<b>A</b>	· Spectra identified as "Aldol Condensation Product".
<b>B</b>	· The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
<b>D</b>	· Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
<b>E</b>	· Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
<b>H</b>	· The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
<b>P</b>	· The RPD between the results for the two columns exceeds the method-specified criteria.
<b>Q</b>	· The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RDL. (Metals only.)
<b>R</b>	· Analytical results are from sample re-analysis.
<b>RE</b>	· Analytical results are from sample re-extraction.
<b>J</b>	· Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
<b>ND</b>	· Not detected at the reported detection limit (RDL) for the sample.

Report Format: Data Usability Report



**Project Name:** CVS WAYLAND  
**Project Number:** 07957.01

**Lab Number:** L1004357  
**Report Date:** 04/01/10

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 5 Methods for the Organic Chemical Analysis of Municipal and Industrial Wastewater. Appendix A, Part 136, 40 CFR (Code of Federal Regulations).
- 14 Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. EPA/600/4-88/039, Revised July 1991.
- 19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 74 Method 1664, Revision A: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-98-002, February 1999.

## LIMITATION OF LIABILITIES

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

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



## Certificate/Approval Program Summary

Last revised March 16, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.  
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

### Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

*Drinking Water* (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)

*Wastewater/Non-Potable Water* (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH.)

*Solid Waste/Soil* (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons. )

### Maine Department of Human Services Certificate/Lab ID: 2009024.

*Drinking Water* (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1. Organic Parameters: 504.1, 524.2, SM 6251B.)

*Wastewater/Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624.)

### Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

#### *Drinking Water*

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

#### *Non-Potable Water*

Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

**New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO₃-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. *Organic Parameters:* 504.1, 524.2, SM6251B.)

*Non-Potable Water (Inorganic Parameters:* SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH₃-H, 4500NH₃-E, 4500NO₂-B, 4500P-E, 4500-S₂-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. *Organic Parameters:* SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

*Solid & Chemical Materials (Inorganic Parameters:* SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. *Organic Parameters:* SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

**New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM9222B, 9221E, 9223B, 9215B, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. *Organic Parameters:* 504.1, SM6251B, 524.2.)

*Non-Potable Water (Inorganic Parameters:* SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO₃-F, 4500NO₂-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B₅+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH₃-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. *Organic Parameters:* SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

*Solid & Chemical Materials (Inorganic Parameters:* SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. *Organic Parameters:* SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

**New York Department of Health Certificate/Lab ID: 11148. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO₃-F, 2540C, EPA 120.1, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

*Non-Potable Water (Inorganic Parameters:* SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH₃-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO₃-F, 4500-NO₂-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. *Organic Parameters:* EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

*Solid & Hazardous Waste (Inorganic Parameters:* 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

**North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. *Organic Parameters:* MA-EPH, MA-VPH.****Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. *NELAP Accredited.***

*Non-Potable Water (Organic Parameters:* EPA 3510C, 5030B, 625, 624. 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

*Solid & Hazardous Waste (Inorganic Parameters:* EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. *Organic Parameters:* 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

**Rhode Island Department of Health Certificate/Lab ID: LAO00065. *NELAP Accredited via NY-DOH.***

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

**Texas Commission on Environmental Quality** Certificate/Lab ID: T104704476-09-1. **NELAP Accredited.**

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH₃-H, 4500NO₂B, 4500P-E, 4500 S₂⁻D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

**Utah Department of Health** Certificate/Lab ID: AAMA. **NELAP Accredited.**

*Non-Potable Water* (Inorganic Parameters: Chloride EPA 300.0)

**Department of Defense** Certificate/Lab ID: L2217.

*Drinking Water* (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

*Non-Potable Water* (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 314, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO₄-E, 426C, 4500NH₃-B, 4500NH₃-H, 4500NO₃-F, 4500NO₂-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S₂-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035.)

**Analytes Not Accredited by NELAP**

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

# CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 3/26/10

ALPHA Job #: L1004357

## Project Information

Project Name: CVS Wayland

Project Location: Wayland, MA

Project #: 07057.01

Project Manager: Paul McNamara

ALPHA Quote #:

Turn-Around Time

☐ Standard

Date Due: 3/31/10

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.  
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

☐ Yes ☒ No Are MCP Analytical Methods Required?  
☐ Yes ☒ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)  
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

## Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

## Regulatory Requirements/Report Limits

State/Fed Program EPA-MA Criteria REP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

## Billing Information

☒ Same as Client info PO #: 07057.01

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials
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4357-01 VHB-103 3/26/10 8:40 GW TEK

ANALYSIS	
504/EDB	624
pH, Hex Cr, TRC	sVOCs-8270/PAHs low
PCBs	TSS
TCN	TPH-1664
Total Phenols	REP metals

Sample Specific Comments

TOTAL # BOOTLES

## PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT  
MAMCP or CT RCP?

Relinquished By:

Date/Time

Container Type  
Preservative

V V P A A P D A P  
H H A A H A E B H C

Received By:

Date/Time

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