



ANALYTICAL REPORT

Lab Number: L0907279

Client: Haley & Aldrich, Inc.
465 Medford Street, Suite 2200
Charlestown, MA 02129-1400

ATTN: Todd Butler

Project Name: YARD'S END SRH

Project Number: 31502-050

Report Date: 06/11/09

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.

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



Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907279
Report Date: 06/11/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0907279-01	FT-06042009	Not Specified	06/04/09 09:15
L0907279-02	HA-A6(OW)-06042009	Not Specified	06/04/09 10:50
L0907279-03	HA-F2(OW)-06042009	Not Specified	06/04/09 12:30
L0907279-04	HA-K6(OW)-06042009	Not Specified	06/04/09 14:10
L0907279-05	TB-06042009	Not Specified	06/04/09 00:00

Project Name: YARD'S END SRH

Lab Number: L0907279

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MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	YES
A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	YES
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



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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.

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.

MCP Related Narratives

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Volatile Organics

In reference to question E:

The surrogate recovery for the WG366388-3 Method Blank is above the acceptance criteria for 4-Bromofluorobenzene (133%). Since the sample was non-detect for all target analytes, re-analysis is not required.

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Case Narrative (continued)

The WG366388-1/-2 LCS/LCSD recoveries associated with L0907279-01 through -05 were above the acceptance criteria for Carbon tetrachloride (133%/137%), Trichlorofluoromethane (148%/156%) and Bromodichloromethane (LCSD at 137%); however, the associated samples were non-detect for these target compounds. The results of the original analysis are reported.

Semivolatile Organics

In reference to question E:

The WG365603-2/-3 LCS/LCSD recoveries associated with L0907279-01 through -04 are outside the individual acceptance criteria for two compounds, but within the overall method allowances. The results of the associated samples are reported; however, all results are considered to have a potentially high bias for Acetophenone (176%/201%) and a potentially low bias for 2,4-Dimethylphenol (16%/19%).

The WG365603-2/-3 LCS/LCSD RPDs associated with L0907279-01 through -04 are above the acceptance criteria for 1,2-Dichlorobenzene (21%), 1,3-Dichlorobenzene (21%), 1,4-Dichlorobenzene (24%), and 3-Methylphenol/4-Methylphenol (24%); however, the individual LCS/LCSD recoveries are within method limits. The results of the associated samples are reported.

Semivolatile Organics by SIM

In reference to question E:

The WG365604-2/-3 LCS/LCSD RPDs associated with L0907279-01 through -04 are above the acceptance criteria for 2-Chloronaphthalene (29%), Hexachlorobutadiene (23%), Naphthalene (21%), Benzo(a)anthracene (23%), Benzo(a)pyrene (22%), Chrysene (21%), Acenaphthylene (29%), Benzo(ghi)perylene (22%), Phenanthrene (24%), Indeno(1,2,3-cd)pyrene (23%), 2-Methylnaphthalene (36%), Hexachlorobenzene (24%) and Hexachloroethane (27%); however, the individual LCS/LCSD recoveries are within method limits. The results of the associated samples are reported.

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Case Narrative (continued)

VPH

In reference to question E:

The WG365416-1/-2 LCS/LCSD RPD associated with L0907279-01 through -04 is above the acceptance criteria for Pentane (48%); however, the individual LCS/LCSD recoveries are within method limits. The results of the associated samples are reported.

PCB

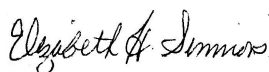
L0907279- 02, -03, and -04 have elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrices.

Metals

L0907279-01 through -04 have elevated detection limits for Antimony and Thallium due to the dilutions required by the high concentrations of non-target analytes. The requested reporting limits were achieved.

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: 06/11/09

ORGANICS

VOLATILES

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907279
Report Date: 06/11/09

SAMPLE RESULTS

Lab ID: L0907279-01
Client ID: FT-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/10/09 14:23
Analyst: GK

Date Collected: 06/04/09 09:15
Date Received: 06/04/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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MCP Volatile Organics - Westborough Lab

Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS****Lab ID:** L0907279-01**Date Collected:** 06/04/09 09:15**Client ID:** FT-06042009**Date Received:** 06/04/09**Sample Location:** Not Specified**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
Tetrahydrofuran	ND		ug/l	10	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1
Ethyl ether	ND		ug/l	2.5	1

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS****Lab ID:** L0907279-01**Date Collected:** 06/04/09 09:15**Client ID:** FT-06042009**Date Received:** 06/04/09**Sample Location:** Not Specified**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Isopropyl Ether	ND		ug/l	2.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	105		70-130

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-02
Client ID: HA-A6(OW)-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/10/09 14:55
Analyst: GK

Date Collected: 06/04/09 10:50
Date Received: 06/04/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS****Lab ID:** L0907279-02**Date Collected:** 06/04/09 10:50**Client ID:** HA-A6(OW)-06042009**Date Received:** 06/04/09**Sample Location:** Not Specified**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
Tetrahydrofuran	ND		ug/l	10	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1
Ethyl ether	ND		ug/l	2.5	1

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS****Lab ID:** L0907279-02**Date Collected:** 06/04/09 10:50**Client ID:** HA-A6(OW)-06042009**Date Received:** 06/04/09**Sample Location:** Not Specified**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Isopropyl Ether	ND		ug/l	2.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	109		70-130

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-03
Client ID: HA-F2(OW)-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/10/09 15:27
Analyst: GK

Date Collected: 06/04/09 12:30
Date Received: 06/04/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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MCP Volatile Organics - Westborough Lab

Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS****Lab ID:** L0907279-03**Date Collected:** 06/04/09 12:30**Client ID:** HA-F2(OW)-06042009**Date Received:** 06/04/09**Sample Location:** Not Specified**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
Tetrahydrofuran	ND		ug/l	10	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1
Ethyl ether	ND		ug/l	2.5	1

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-03

Date Collected: 06/04/09 12:30

Client ID: HA-F2(OW)-06042009

Date Received: 06/04/09

Sample Location: Not Specified

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Isopropyl Ether	ND		ug/l	2.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	107		70-130

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-04
Client ID: HA-K6(OW)-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/10/09 16:00
Analyst: GK

Date Collected: 06/04/09 14:10
Date Received: 06/04/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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MCP Volatile Organics - Westborough Lab

Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS****Lab ID:** L0907279-04**Date Collected:** 06/04/09 14:10**Client ID:** HA-K6(OW)-06042009**Date Received:** 06/04/09**Sample Location:** Not Specified**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
Tetrahydrofuran	ND		ug/l	10	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1
Ethyl ether	ND		ug/l	2.5	1

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-04

Date Collected: 06/04/09 14:10

Client ID: HA-K6(OW)-06042009

Date Received: 06/04/09

Sample Location: Not Specified

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Isopropyl Ether	ND		ug/l	2.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	121		70-130
Dibromofluoromethane	110		70-130

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-05
Client ID: TB-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/10/09 16:32
Analyst: GK

Date Collected: 06/04/09 00:00
Date Received: 06/04/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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MCP Volatile Organics - Westborough Lab

Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS****Lab ID:** L0907279-05**Date Collected:** 06/04/09 00:00**Client ID:** TB-06042009**Date Received:** 06/04/09**Sample Location:** Not Specified**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
Tetrahydrofuran	ND		ug/l	10	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1
Ethyl ether	ND		ug/l	2.5	1

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-05

Date Collected: 06/04/09 00:00

Client ID: TB-06042009

Date Received: 06/04/09

Sample Location: Not Specified

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Isopropyl Ether	ND		ug/l	2.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	125		70-130
Dibromofluoromethane	106		70-130

Project Name: YARD'S END SRH

Lab Number: L0907279

Project Number: 31502-050

Report Date: 06/11/09

Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/10/09 11:09

Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-05 Batch: WG366388-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: YARD'S END SRH

Lab Number: L0907279

Project Number: 31502-050

Report Date: 06/11/09

Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/10/09 11:09

Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-05 Batch: WG366388-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: YARD'S END SRH

Lab Number: L0907279

Project Number: 31502-050

Report Date: 06/11/09

Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/10/09 11:09

Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-05 Batch: WG366388-3				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	133		70-130
Dibromofluoromethane	109		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907279

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-05 Batch: WG366388-1 WG366388-2					
Methylene chloride	120	120	70-130	0	25
1,1-Dichloroethane	112	113	70-130	1	25
Chloroform	117	123	70-130	5	25
Carbon tetrachloride	133	137	70-130	3	25
1,2-Dichloropropane	105	111	70-130	6	25
Dibromochloromethane	124	125	70-130	1	25
1,1,2-Trichloroethane	102	105	70-130	3	25
Tetrachloroethene	118	114	70-130	3	25
Chlorobenzene	114	111	70-130	3	25
Trichlorofluoromethane	148	156	70-130	5	25
1,2-Dichloroethane	121	129	70-130	6	25
1,1,1-Trichloroethane	120	122	70-130	2	25
Bromodichloromethane	128	137	70-130	7	25
trans-1,3-Dichloropropene	109	116	70-130	6	25
cis-1,3-Dichloropropene	107	113	70-130	5	25
1,1-Dichloropropene	118	120	70-130	2	25
Bromoform	124	128	70-130	3	50
1,1,2,2-Tetrachloroethane	98	107	70-130	9	25
Benzene	109	111	70-130	2	25
Toluene	110	108	70-130	2	25
Ethylbenzene	116	114	70-130	2	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907279

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-05 Batch: WG366388-1 WG366388-2					
Chloromethane	106	102	70-130	4	50
Bromomethane	108	108	70-130	0	50
Vinyl chloride	116	116	70-130	0	25
Chloroethane	117	118	70-130	1	25
1,1-Dichloroethene	114	120	70-130	5	25
trans-1,2-Dichloroethene	116	118	70-130	2	25
Trichloroethene	112	112	70-130	0	25
1,2-Dichlorobenzene	106	113	70-130	6	25
1,3-Dichlorobenzene	108	114	70-130	5	25
1,4-Dichlorobenzene	108	114	70-130	5	25
Methyl tert butyl ether	99	107	70-130	8	25
p/m-Xylene	116	112	70-130	4	25
o-Xylene	109	109	70-130	0	25
cis-1,2-Dichloroethene	117	119	70-130	2	25
Dibromomethane	108	116	70-130	7	25
1,2,3-Trichloropropane	107	113	70-130	5	25
Styrene	107	107	70-130	0	25
Dichlorodifluoromethane	112	109	70-130	3	50
Acetone	94	99	70-130	5	50
Carbon disulfide	80	82	70-130	2	50
2-Butanone	82	91	70-130	10	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907279

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-05 Batch: WG366388-1 WG366388-2					
4-Methyl-2-pentanone	93	91	70-130	2	50
2-Hexanone	73	80	70-130	9	50
Bromochloromethane	115	120	70-130	4	25
Tetrahydrofuran	80	84	70-130	5	25
2,2-Dichloropropane	110	117	70-130	6	50
1,2-Dibromoethane	108	109	70-130	1	25
1,3-Dichloropropane	106	108	70-130	2	25
1,1,1,2-Tetrachloroethane	124	127	70-130	2	25
Bromobenzene	108	113	70-130	5	25
n-Butylbenzene	100	108	70-130	8	25
sec-Butylbenzene	109	114	70-130	4	25
tert-Butylbenzene	107	113	70-130	5	25
o-Chlorotoluene	106	111	70-130	5	25
p-Chlorotoluene	112	114	70-130	2	25
1,2-Dibromo-3-chloropropane	112	122	70-130	9	50
Hexachlorobutadiene	110	128	70-130	15	25
Isopropylbenzene	117	117	70-130	0	25
p-Isopropyltoluene	114	117	70-130	3	25
Naphthalene	122	126	70-130	3	25
n-Propylbenzene	107	112	70-130	5	25
1,2,3-Trichlorobenzene	115	120	70-130	4	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Lab Number: L0907279

Project Number: 31502-050

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-05 Batch: WG366388-1 WG366388-2					
1,2,4-Trichlorobenzene	104	111	70-130	7	25
1,3,5-Trimethylbenzene	107	111	70-130	4	25
1,2,4-Trimethylbenzene	110	115	70-130	4	25
Ethyl ether	93	103	70-130	10	25
Isopropyl Ether	89	93	70-130	4	25
Ethyl-Tert-Butyl-Ether	88	91	70-130	3	25
Tertiary-Amyl Methyl Ether	86	90	70-130	5	25
1,4-Dioxane	100	101	70-130	1	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107	107	70-130
Toluene-d8	98	96	70-130
4-Bromofluorobenzene	96	99	70-130
Dibromofluoromethane	103	106	70-130

SEMIVOLATILES

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907279
Report Date: 06/11/09

SAMPLE RESULTS

Lab ID: L0907279-01
Client ID: FT-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8270C
Analytical Date: 06/11/09 01:02
Analyst: AK

Date Collected: 06/04/09 09:15
Date Received: 06/04/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/06/09 05:23

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab					
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	10	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1
Azobenzene	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
Isophorone	ND		ug/l	5.0	1
Nitrobenzene	ND		ug/l	5.0	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
Dibenzofuran	ND		ug/l	5.0	1
Acetophenone	ND		ug/l	20	1
2,4,6-Trichlorophenol	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	5.0	1
2-Nitrophenol	ND		ug/l	20	1
4-Nitrophenol	ND		ug/l	10	1

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-01

Date Collected: 06/04/09 09:15

Client ID: FT-06042009

Date Received: 06/04/09

Sample Location: Not Specified

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab					
2,4-Dinitrophenol	ND		ug/l	30	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		15-110
Phenol-d6	46		15-110
Nitrobenzene-d5	105		30-130
2-Fluorobiphenyl	99		30-130
2,4,6-Tribromophenol	92		15-110
4-Terphenyl-d14	99		30-130

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907279
Report Date: 06/11/09

SAMPLE RESULTS

Lab ID: L0907279-01
Client ID: FT-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8270C-SIM
Analytical Date: 06/10/09 16:38
Analyst: HL

Date Collected: 06/04/09 09:15
Date Received: 06/04/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/06/09 05:23

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics by SIM - Westborough Lab					
Acenaphthene	ND		ug/l	0.20	1
2-Chloronaphthalene	ND		ug/l	0.20	1
Fluoranthene	0.30		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	0.28		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: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-01

Date Collected: 06/04/09 09:15

Client ID: FT-06042009

Date Received: 06/04/09

Sample Location: Not Specified

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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MCP Semivolatile Organics by SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		15-110
Phenol-d6	35		15-110
Nitrobenzene-d5	84		30-130
2-Fluorobiphenyl	119		30-130
2,4,6-Tribromophenol	101		15-110
4-Terphenyl-d14	114		30-130

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-02
Client ID: HA-A6(OW)-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8270C
Analytical Date: 06/11/09 01:27
Analyst: AK

Date Collected: 06/04/09 10:50
Date Received: 06/04/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/06/09 05:23

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab					
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	10	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1
Azobenzene	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
Isophorone	ND		ug/l	5.0	1
Nitrobenzene	ND		ug/l	5.0	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
Dibenzofuran	ND		ug/l	5.0	1
Acetophenone	ND		ug/l	20	1
2,4,6-Trichlorophenol	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	5.0	1
2-Nitrophenol	ND		ug/l	20	1
4-Nitrophenol	ND		ug/l	10	1

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS****Lab ID:** L0907279-02**Date Collected:** 06/04/09 10:50**Client ID:** HA-A6(OW)-06042009**Date Received:** 06/04/09**Sample Location:** Not Specified**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab					
2,4-Dinitrophenol	ND		ug/l	30	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		15-110
Phenol-d6	44		15-110
Nitrobenzene-d5	92		30-130
2-Fluorobiphenyl	79		30-130
2,4,6-Tribromophenol	71		15-110
4-Terphenyl-d14	103		30-130

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-02
Client ID: HA-A6(OW)-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8270C-SIM
Analytical Date: 06/10/09 17:06
Analyst: HL

Date Collected: 06/04/09 10:50
Date Received: 06/04/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/06/09 05:23

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics by 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
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: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-02

Date Collected: 06/04/09 10:50

Client ID: HA-A6(OW)-06042009

Date Received: 06/04/09

Sample Location: Not Specified

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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MCP Semivolatile Organics by SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		15-110
Phenol-d6	32		15-110
Nitrobenzene-d5	68		30-130
2-Fluorobiphenyl	106		30-130
2,4,6-Tribromophenol	90		15-110
4-Terphenyl-d14	105		30-130

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-03
Client ID: HA-F2(OW)-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8270C
Analytical Date: 06/11/09 01:51
Analyst: AK

Date Collected: 06/04/09 12:30
Date Received: 06/04/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/06/09 05:23

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab					
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	10	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1
Azobenzene	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
Isophorone	ND		ug/l	5.0	1
Nitrobenzene	ND		ug/l	5.0	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
Dibenzofuran	ND		ug/l	5.0	1
Acetophenone	ND		ug/l	20	1
2,4,6-Trichlorophenol	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	5.0	1
2-Nitrophenol	ND		ug/l	20	1
4-Nitrophenol	ND		ug/l	10	1

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS****Lab ID:** L0907279-03**Date Collected:** 06/04/09 12:30**Client ID:** HA-F2(OW)-06042009**Date Received:** 06/04/09**Sample Location:** Not Specified**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab					
2,4-Dinitrophenol	ND		ug/l	30	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		15-110
Phenol-d6	49		15-110
Nitrobenzene-d5	100		30-130
2-Fluorobiphenyl	87		30-130
2,4,6-Tribromophenol	94		15-110
4-Terphenyl-d14	107		30-130

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-03
Client ID: HA-F2(OW)-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8270C-SIM
Analytical Date: 06/10/09 17:34
Analyst: HL

Date Collected: 06/04/09 12:30
Date Received: 06/04/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/06/09 05:23

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics by 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
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: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-03

Date Collected: 06/04/09 12:30

Client ID: HA-F2(OW)-06042009

Date Received: 06/04/09

Sample Location: Not Specified

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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MCP Semivolatile Organics by SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		15-110
Phenol-d6	31		15-110
Nitrobenzene-d5	70		30-130
2-Fluorobiphenyl	106		30-130
2,4,6-Tribromophenol	97		15-110
4-Terphenyl-d14	104		30-130

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-04
Client ID: HA-K6(OW)-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8270C
Analytical Date: 06/11/09 02:16
Analyst: AK

Date Collected: 06/04/09 14:10
Date Received: 06/04/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/06/09 05:23

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab					
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	10	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1
Azobenzene	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
Isophorone	ND		ug/l	5.0	1
Nitrobenzene	ND		ug/l	5.0	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
Dibenzofuran	ND		ug/l	5.0	1
Acetophenone	ND		ug/l	20	1
2,4,6-Trichlorophenol	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	5.0	1
2-Nitrophenol	ND		ug/l	20	1
4-Nitrophenol	ND		ug/l	10	1

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS****Lab ID:** L0907279-04**Date Collected:** 06/04/09 14:10**Client ID:** HA-K6(OW)-06042009**Date Received:** 06/04/09**Sample Location:** Not Specified**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab					
2,4-Dinitrophenol	ND		ug/l	30	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		15-110
Phenol-d6	43		15-110
Nitrobenzene-d5	86		30-130
2-Fluorobiphenyl	77		30-130
2,4,6-Tribromophenol	52		15-110
4-Terphenyl-d14	98		30-130

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-04
Client ID: HA-K6(OW)-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8270C-SIM
Analytical Date: 06/10/09 18:02
Analyst: HL

Date Collected: 06/04/09 14:10
Date Received: 06/04/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/06/09 05:23

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics by 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
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: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-04

Date Collected: 06/04/09 14:10

Client ID: HA-K6(OW)-06042009

Date Received: 06/04/09

Sample Location: Not Specified

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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MCP Semivolatile Organics by SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		15-110
Phenol-d6	30		15-110
Nitrobenzene-d5	59		30-130
2-Fluorobiphenyl	88		30-130
2,4,6-Tribromophenol	59		15-110
4-Terphenyl-d14	93		30-130

Project Name: YARD'S END SRH

Lab Number: L0907279

Project Number: 31502-050

Report Date: 06/11/09

Method Blank Analysis Batch Quality Control

Analytical Method: 64,8270C
 Analytical Date: 06/09/09 12:25
 Analyst: AK

Extraction Method: EPA 3510C
 Extraction Date: 06/06/09 05:23

Parameter	Result	Qualifier	Units	RDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG365603-1				
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	10
2,4-Dinitrotoluene	ND		ug/l	5.0
2,6-Dinitrotoluene	ND		ug/l	5.0
Azobenzene	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
Isophorone	ND		ug/l	5.0
Nitrobenzene	ND		ug/l	5.0
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
Dibenzofuran	ND		ug/l	5.0
Acetophenone	ND		ug/l	20
2,4,6-Trichlorophenol	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	5.0
2-Nitrophenol	ND		ug/l	20
4-Nitrophenol	ND		ug/l	10
2,4-Dinitrophenol	ND		ug/l	30

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907279
Report Date: 06/11/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 64,8270C
Analytical Date: 06/09/09 12:25
Analyst: AK

Extraction Method: EPA 3510C
Extraction Date: 06/06/09 05:23

Parameter	Result	Qualifier	Units	RDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG365603-1				
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		15-110
Phenol-d6	38		15-110
Nitrobenzene-d5	82		30-130
2-Fluorobiphenyl	76		30-130
2,4,6-Tribromophenol	80		15-110
4-Terphenyl-d14	95		30-130

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907279
Report Date: 06/11/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 64,8270C-SIM
Analytical Date: 06/10/09 21:46
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 06/06/09 05:23

Parameter	Result	Qualifier	Units	RDL
MCP Semivolatile Organics by SIM - Westborough Lab for sample(s): 01-04 Batch: WG365604-1				
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
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: YARD'S END SRH

Lab Number: L0907279

Project Number: 31502-050

Report Date: 06/11/09

Method Blank Analysis Batch Quality Control

Analytical Method: 64,8270C-SIM

Extraction Method: EPA 3510C

Analytical Date: 06/10/09 21:46

Extraction Date: 06/06/09 05:23

Analyst: HL

Parameter	Result	Qualifier	Units	RDL
MCP Semivolatile Organics by SIM - Westborough Lab for sample(s): 01-04 Batch: WG365604-1				

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		15-110
Phenol-d6	36		15-110
Nitrobenzene-d5	85		30-130
2-Fluorobiphenyl	73		30-130
2,4,6-Tribromophenol	82		15-110
4-Terphenyl-d14	96		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907279

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG365603-2 WG365603-3					
1,2,4-Trichlorobenzene	66	80	40-140	19	20
Bis(2-chloroethyl)ether	85	93	40-140	9	20
1,2-Dichlorobenzene	70	86	40-140	21	20
1,3-Dichlorobenzene	68	84	40-140	21	20
1,4-Dichlorobenzene	66	84	40-140	24	20
3,3'-Dichlorobenzidine	78	76	40-140	3	20
2,4-Dinitrotoluene	94	102	40-140	8	20
2,6-Dinitrotoluene	85	93	40-140	9	20
Azobenzene	95	107	40-140	12	20
4-Bromophenyl phenyl ether	89	95	40-140	7	20
Bis(2-chloroisopropyl)ether	93	103	40-140	10	20
Bis(2-chloroethoxy)methane	84	96	40-140	13	20
Isophorone	82	93	40-140	13	20
Nitrobenzene	89	101	40-140	13	20
Bis(2-Ethylhexyl)phthalate	105	114	40-140	8	20
Butyl benzyl phthalate	98	103	40-140	5	20
Di-n-butylphthalate	102	108	40-140	6	20
Di-n-octylphthalate	108	116	40-140	7	20
Diethyl phthalate	93	100	40-140	7	20
Dimethyl phthalate	94	100	40-140	6	20
Aniline	49	51	40-140	4	20

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907279

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG365603-2 WG365603-3					
4-Chloroaniline	73	81	40-140	10	20
Dibenzofuran	87	98	40-140	12	20
Acetophenone	176	201	40-140	13	20
2,4,6-Trichlorophenol	80	92	30-130	14	20
2-Chlorophenol	80	90	30-130	12	20
2,4-Dichlorophenol	84	96	30-130	13	20
2,4-Dimethylphenol	16	19	30-130	17	20
2-Nitrophenol	86	92	30-130	7	20
4-Nitrophenol	50	57	30-130	13	20
2,4-Dinitrophenol	69	80	30-130	15	20
Phenol	40	47	30-130	16	20
2-Methylphenol	60	72	30-130	18	20
3-Methylphenol/4-Methylphenol	56	71	30-130	24	20
2,4,5-Trichlorophenol	90	99	30-130	10	20

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Lab Number: L0907279

Project Number: 31502-050

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
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MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG365603-2 WG365603-3

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		61		15-110
Phenol-d6	38		44		15-110
Nitrobenzene-d5	84		92		30-130
2-Fluorobiphenyl	77		85		30-130
2,4,6-Tribromophenol	85		93		15-110
4-Terphenyl-d14	92		97		30-130

MCP Semivolatile Organics by SIM - Westborough Lab Associated sample(s): 01-04 Batch: WG365604-2 WG365604-3

Acenaphthene	65	77	40-140	17	20
2-Chloronaphthalene	70	94	40-140	29	20
Fluoranthene	90	103	40-140	13	20
Hexachlorobutadiene	51	64	40-140	23	20
Naphthalene	61	75	40-140	21	20
Benzo(a)anthracene	81	102	40-140	23	20
Benzo(a)pyrene	72	90	40-140	22	20
Benzo(b)fluoranthene	98	116	40-140	17	20
Benzo(k)fluoranthene	93	113	40-140	19	20

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907279

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Semivolatile Organics by SIM - Westborough Lab Associated sample(s): 01-04 Batch: WG365604-2 WG365604-3					
Chrysene	95	117	40-140	21	20
Acenaphthylene	67	90	40-140	29	20
Anthracene	79	89	40-140	12	20
Benzo(ghi)perylene	93	116	40-140	22	20
Fluorene	72	86	40-140	18	20
Phenanthrene	76	97	40-140	24	20
Dibenzo(a,h)anthracene	101	124	40-140	20	20
Indeno(1,2,3-cd)Pyrene	94	118	40-140	23	20
Pyrene	90	102	40-140	13	20
2-Methylnaphthalene	60	86	40-140	36	20
Pentachlorophenol	46	52	30-130	12	20
Hexachlorobenzene	94	120	40-140	24	20
Hexachloroethane	52	68	40-140	27	20

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
2-Fluorophenol	57	57	15-110
Phenol-d6	39	39	15-110
Nitrobenzene-d5	80	85	30-130
2-Fluorobiphenyl	71	79	30-130
2,4,6-Tribromophenol	94	92	15-110
4-Terphenyl-d14	94	87	30-130

PETROLEUM HYDROCARBONS

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-01
Client ID: FT-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 59, VPH-04-1.1
Analytical Date: 06/05/09 17:31
Analyst: RC

Date Collected: 06/04/09 09:15
Date Received: 06/04/09
Field Prep: See Narrative

Quality Control Information

Condition of sample received: Satisfactory
Aqueous Preservative: Laboratory Provided Preserved Container
Sample Temperature upon receipt: Received on Ice

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Volatile Petroleum Hydrocarbons - Westborough Lab

C5-C8 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C10 Aromatics	ND		ug/l	50.0	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	102		70-130
2,5-Dibromotoluene-FID	105		70-130

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907279
Report Date: 06/11/09

SAMPLE RESULTS

Lab ID: L0907279-01
 Client ID: FT-06042009
 Sample Location: Not Specified
 Matrix: Water
 Analytical Method: 61,EPH-04-1
 Analytical Date: 06/09/09 13:24
 Analyst: AS

Date Collected: 06/04/09 09:15
 Date Received: 06/04/09
 Field Prep: See Narrative
 Extraction Method: EPA 3510C
 Extraction Date: 06/05/09 19:35
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 06/09/09

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

C9-C18 Aliphatics	ND		ug/l	85.5	1
C19-C36 Aliphatics	ND		ug/l	85.5	1
C11-C22 Aromatics, Unadjusted	ND		ug/l	85.5	1
C11-C22 Aromatics, Adjusted	ND		ug/l	85.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	82		40-140
o-Terphenyl	84		40-140
2-Fluorobiphenyl	84		40-140
2-Bromonaphthalene	85		40-140

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-02
Client ID: HA-A6(OW)-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 59, VPH-04-1.1
Analytical Date: 06/05/09 18:22
Analyst: RC

Date Collected: 06/04/09 10:50
Date Received: 06/04/09
Field Prep: See Narrative

Quality Control Information

Condition of sample received: Satisfactory
Aqueous Preservative: Laboratory Provided Preserved Container
Sample Temperature upon receipt: Received on Ice

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Volatile Petroleum Hydrocarbons - Westborough Lab

C5-C8 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C10 Aromatics	ND		ug/l	50.0	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	104		70-130
2,5-Dibromotoluene-FID	110		70-130

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-02
Client ID: HA-A6(OW)-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 61,EPH-04-1
Analytical Date: 06/09/09 13:56
Analyst: AS

Date Collected: 06/04/09 10:50
Date Received: 06/04/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/05/09 19:35
Cleanup Method1: EPH-04-1
Cleanup Date1: 06/09/09

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

C9-C18 Aliphatics	ND		ug/l	85.5	1
C19-C36 Aliphatics	ND		ug/l	85.5	1
C11-C22 Aromatics, Unadjusted	ND		ug/l	85.5	1
C11-C22 Aromatics, Adjusted	ND		ug/l	85.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	73		40-140
o-Terphenyl	91		40-140
2-Fluorobiphenyl	90		40-140
2-Bromonaphthalene	92		40-140

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-03
Client ID: HA-F2(OW)-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 59, VPH-04-1.1
Analytical Date: 06/05/09 19:13
Analyst: RC

Date Collected: 06/04/09 12:30
Date Received: 06/04/09
Field Prep: See Narrative

Quality Control Information

Condition of sample received: Satisfactory
Aqueous Preservative: Laboratory Provided Preserved Container
Sample Temperature upon receipt: Received on Ice

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Volatile Petroleum Hydrocarbons - Westborough Lab

C5-C8 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C10 Aromatics	ND		ug/l	50.0	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	102		70-130
2,5-Dibromotoluene-FID	107		70-130

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-03
Client ID: HA-F2(OW)-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 61,EPH-04-1
Analytical Date: 06/09/09 10:43
Analyst: AS

Date Collected: 06/04/09 12:30
Date Received: 06/04/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/05/09 19:35
Cleanup Method1: EPH-04-1
Cleanup Date1: 06/09/09

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

C9-C18 Aliphatics	ND		ug/l	85.5	1
C19-C36 Aliphatics	ND		ug/l	85.5	1
C11-C22 Aromatics, Unadjusted	ND		ug/l	85.5	1
C11-C22 Aromatics, Adjusted	ND		ug/l	85.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	61		40-140
o-Terphenyl	73		40-140
2-Fluorobiphenyl	89		40-140
2-Bromonaphthalene	89		40-140

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-04
Client ID: HA-K6(OW)-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 59, VPH-04-1.1
Analytical Date: 06/05/09 20:04
Analyst: RC

Date Collected: 06/04/09 14:10
Date Received: 06/04/09
Field Prep: See Narrative

Quality Control Information

Condition of sample received: Satisfactory
Aqueous Preservative: Laboratory Provided Preserved Container
Sample Temperature upon receipt: Received on Ice

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Volatile Petroleum Hydrocarbons - Westborough Lab

C5-C8 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C10 Aromatics	ND		ug/l	50.0	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	104		70-130
2,5-Dibromotoluene-FID	111		70-130

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-04
Client ID: HA-K6(OW)-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 61,EPH-04-1
Analytical Date: 06/09/09 11:14
Analyst: AS

Date Collected: 06/04/09 14:10
Date Received: 06/04/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/05/09 19:35
Cleanup Method1: EPH-04-1
Cleanup Date1: 06/09/09

Quality Control Information

Condition of sample received: Satisfactory
 Aqueous Preservative: Laboratory Provided Preserved Container
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

C9-C18 Aliphatics	ND		ug/l	85.5	1
C19-C36 Aliphatics	ND		ug/l	85.5	1
C11-C22 Aromatics, Unadjusted	ND		ug/l	85.5	1
C11-C22 Aromatics, Adjusted	ND		ug/l	85.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	64		40-140
o-Terphenyl	75		40-140
2-Fluorobiphenyl	94		40-140
2-Bromonaphthalene	93		40-140

Project Name: YARD'S END SRH

Lab Number: L0907279

Project Number: 31502-050

Report Date: 06/11/09

Method Blank Analysis Batch Quality Control

Analytical Method: 59, VPH-04-1.1

Analytical Date: 06/05/09 11:24

Analyst: RC

Parameter	Result	Qualifier	Units	RDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-04 Batch: WG365416-3				
C5-C8 Aliphatics, Unadjusted	ND		ug/l	50.0
C9-C12 Aliphatics, Unadjusted	ND		ug/l	50.0
C9-C10 Aromatics	ND		ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	110		70-130
2,5-Dibromotoluene-FID	115		70-130

Project Name: YARD'S END SRH

Lab Number: L0907279

Project Number: 31502-050

Report Date: 06/11/09

Method Blank Analysis Batch Quality Control

Analytical Method: 61,EPH-04-1
 Analytical Date: 06/09/09 14:21
 Analyst: AS

Extraction Method: EPA 3510C
 Extraction Date: 06/05/09 19:35
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 06/09/09

Parameter	Result	Qualifier	Units	RDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-04 Batch: WG365560-1				
C9-C18 Aliphatics	ND		ug/l	100
C19-C36 Aliphatics	ND		ug/l	100
C11-C22 Aromatics, Unadjusted	ND		ug/l	100
C11-C22 Aromatics, Adjusted	ND		ug/l	100

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	70		40-140
o-Terphenyl	97		40-140
2-Fluorobiphenyl	99		40-140
2-Bromonaphthalene	98		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907279

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-04 Batch: WG365416-1 WG365416-2					
C5-C8 Aliphatics	91	117	70-130	25	25
C9-C12 Aliphatics	100	108	70-130	8	25
C9-C10 Aromatics	97	103	70-130	6	25
Benzene	94	104	70-130	10	25
Toluene	96	104	70-130	8	25
Ethylbenzene	100	106	70-130	6	25
p/m-Xylene	97	102	70-130	6	25
o-Xylene	98	103	70-130	5	25
Methyl tert butyl ether	93	103	70-130	11	25
Naphthalene	101	109	70-130	8	25
1,2,4-Trimethylbenzene	98	103	70-130	5	25
Pentane	77	126	70-130	48	25
2-Methylpentane	91	116	70-130	24	25
2,2,4-Trimethylpentane	98	113	70-130	14	25
n-Nonane	100	109	30-130	9	25
n-Decane	102	110	70-130	8	25
n-Butylcyclohexane	101	108	70-130	7	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Lab Number: L0907279

Project Number: 31502-050

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
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Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-04 Batch: WG365416-1 WG365416-2

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	107		112		70-130
2,5-Dibromotoluene-FID	112		117		70-130

Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-04 Batch: WG365560-2 WG365560-3

C9-C18 Aliphatics	51		53		40-140	4	25
C19-C36 Aliphatics	69		65		40-140	6	25
C11-C22 Aromatics	77		88		40-140	13	25
Naphthalene	59		73		40-140	21	25
2-Methylnaphthalene	63		78		40-140	21	25
Acenaphthylene	65		80		40-140	21	25
Acenaphthene	64		78		40-140	20	25
Fluorene	72		84		40-140	15	25
Phenanthrene	86		98		40-140	13	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907279

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-04 Batch: WG365560-2 WG365560-3					
Anthracene	83	92	40-140	10	25
Fluoranthene	86	95	40-140	10	25
Pyrene	86	96	40-140	11	25
Benzo(a)anthracene	83	90	40-140	8	25
Chrysene	83	91	40-140	9	25
Benzo(b)fluoranthene	82	87	40-140	6	25
Benzo(k)fluoranthene	80	88	40-140	10	25
Benzo(a)pyrene	78	84	40-140	7	25
Indeno(1,2,3-cd)Pyrene	80	87	40-140	8	25
Dibenzo(a,h)anthracene	78	84	40-140	7	25
Benzo(ghi)perylene	79	86	40-140	8	25
Nonane (C9)	37	41	30-140	10	25
Decane (C10)	44	48	40-140	9	25
Dodecane (C12)	50	54	40-140	8	25
Tetradecane (C14)	57	60	40-140	5	25
Hexadecane (C16)	63	62	40-140	2	25
Octadecane (C18)	67	63	40-140	6	25
Nonadecane (C19)	70	66	40-140	6	25
Eicosane (C20)	70	67	40-140	4	25
Docosane (C22)	74	70	40-140	6	25
Tetracosane (C24)	76	72	40-140	5	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Lab Number: L0907279

Project Number: 31502-050

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-04 Batch: WG365560-2 WG365560-3					
Hexacosane (C26)	76	72	40-140	5	25
Octacosane (C28)	75	71	40-140	5	25
Triacontane (C30)	78	73	40-140	7	25
Hexatriacontane (C36)	81	75	40-140	8	25

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
Chloro-Octadecane	72	69	40-140
o-Terphenyl	86	99	40-140
2-Fluorobiphenyl	76	85	40-140
2-Bromonaphthalene	77	88	40-140
% Naphthalene Breakthrough	0	0	
% 2-Methylnaphthalene Breakthrough	0	0	

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907279
Report Date: 06/11/09

**Fractionation Check Standard
Quality Control**

Fractionation check standard for 200818205

Parameter	% Recovery	QC Criteria
C9-C18 Aliphatics	77	40-140
C19-C36 Aliphatics	76	40-140
C11-C22 Aromatics	86	40-140
Naphthalene	82	40-140
2-Methylnaphthalene	78	40-140
Acenaphthylene	76	40-140
Acenaphthene	80	40-140
Fluorene	79	40-140
Phenanthrene	78	40-140
Anthracene	82	40-140
Fluoranthene	84	40-140
Pyrene	84	40-140
Benzo(a)anthracene	82	40-140
Chrysene	88	40-140
Benzo(b)fluoranthene	81	40-140
Benzo(k)fluoranthene	97	40-140
Benzo(a)pyrene	78	40-140
Indeno(1,2,3-cd)Pyrene	76	40-140
Dibenzo(a,h)anthracene	83	40-140
Benzo(g,h,i)perylene	82	40-140
Nonane	72	30-140
Decane	77	40-140
Dodecane	80	40-140
Tetradecane	76	40-140
Hexadecane	78	40-140
Octadecane	76	40-140
Nonadecane	75	40-140
Eicosane	77	40-140
Docosane	79	40-140
Tetracosane	83	40-140
Hexacosane	78	40-140
Octacosane	77	40-140
triacontane	76	40-140
Hexatriacontane	75	40-140
% Naphthalene Breakthrough	0	0-5
% 2-Methylnaphthalene Breakthrough	0	0-5

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907279
Report Date: 06/11/09

**Fractionation Check Standard
Quality Control**

Fractionation check standard for 200818205

Surrogate	% Recovery	QC Criteria
Chloro-Octadecane	66	40-140
o-Terphenyl	83	40-140
2-Fluorobiphenyl	75	40-140
2-Bromonaphthalene	76	40-140

PCBS

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907279
Report Date: 06/11/09

SAMPLE RESULTS

Lab ID: L0907279-01
Client ID: FT-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8082
Analytical Date: 06/08/09 22:20
Analyst: GT

Date Collected: 06/04/09 09:15
Date Received: 06/04/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/06/09 19:11
Cleanup Method1: EPA 3665A
Cleanup Date1: 06/08/09

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Polychlorinated Biphenyls - 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
Aroclor 1262	ND		ug/l	0.250	1
Aroclor 1268	ND		ug/l	0.250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-02
Client ID: HA-A6(OW)-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8082
Analytical Date: 06/08/09 22:32
Analyst: GT

Date Collected: 06/04/09 10:50
Date Received: 06/04/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/06/09 19:11
Cleanup Method1: EPA 3665A
Cleanup Date1: 06/08/09

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab					
Aroclor 1016	ND		ug/l	2.08	1
Aroclor 1221	ND		ug/l	2.08	1
Aroclor 1232	ND		ug/l	2.08	1
Aroclor 1242	ND		ug/l	2.08	1
Aroclor 1248	ND		ug/l	2.08	1
Aroclor 1254	ND		ug/l	2.08	1
Aroclor 1260	ND		ug/l	2.08	1
Aroclor 1262	ND		ug/l	2.08	1
Aroclor 1268	ND		ug/l	2.08	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	102		30-150	B

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-03
Client ID: HA-F2(OW)-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8082
Analytical Date: 06/08/09 22:57
Analyst: GT

Date Collected: 06/04/09 12:30
Date Received: 06/04/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/06/09 19:11
Cleanup Method1: EPA 3665A
Cleanup Date1: 06/08/09

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab					
Aroclor 1016	ND		ug/l	1.92	1
Aroclor 1221	ND		ug/l	1.92	1
Aroclor 1232	ND		ug/l	1.92	1
Aroclor 1242	ND		ug/l	1.92	1
Aroclor 1248	ND		ug/l	1.92	1
Aroclor 1254	ND		ug/l	1.92	1
Aroclor 1260	ND		ug/l	1.92	1
Aroclor 1262	ND		ug/l	1.92	1
Aroclor 1268	ND		ug/l	1.92	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	89		30-150	B

Project Name: YARD'S END SRH**Lab Number:** L0907279**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907279-04
Client ID: HA-K6(OW)-06042009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8082
Analytical Date: 06/08/09 23:09
Analyst: GT

Date Collected: 06/04/09 14:10
Date Received: 06/04/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/06/09 19:11
Cleanup Method1: EPA 3665A
Cleanup Date1: 06/08/09

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab					
Aroclor 1016	ND		ug/l	1.67	1
Aroclor 1221	ND		ug/l	1.67	1
Aroclor 1232	ND		ug/l	1.67	1
Aroclor 1242	ND		ug/l	1.67	1
Aroclor 1248	ND		ug/l	1.67	1
Aroclor 1254	ND		ug/l	1.67	1
Aroclor 1260	ND		ug/l	1.67	1
Aroclor 1262	ND		ug/l	1.67	1
Aroclor 1268	ND		ug/l	1.67	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	118		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	128		30-150	B

Project Name: YARD'S END SRH

Lab Number: L0907279

Project Number: 31502-050

Report Date: 06/11/09

Method Blank Analysis Batch Quality Control

Analytical Method: 64,8082
 Analytical Date: 06/08/09 21:18
 Analyst: GT

Extraction Method: EPA 3510C
 Extraction Date: 06/06/09 19:11
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 06/08/09

Parameter	Result	Qualifier	Units	RDL
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-04 Batch: WG365637-1				
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
Aroclor 1262	ND		ug/l	0.250
Aroclor 1268	ND		ug/l	0.250

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	84		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Lab Number: L0907279

Project Number: 31502-050

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-04 Batch: WG365637-2 WG365637-3					
Aroclor 1016	117	105	40-140	11	20
Aroclor 1260	113	109	40-140	4	20

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		72		30-150	A
Decachlorobiphenyl	103		117		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		75		30-150	B
Decachlorobiphenyl	111		126		30-150	B

METALS

Project Name: YARD'S END SRH

Lab Number: L0907279

Project Number: 31502-050

Report Date: 06/11/09

SAMPLE RESULTS

Lab ID: L0907279-01

Date Collected: 06/04/09 09:15

Client ID: FT-06042009

Date Received: 06/04/09

Sample Location: Not Specified

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Antimony, Dissolved	ND		mg/l	0.0020	4	06/05/09 10:50	06/08/09 21:34	EPA 3005A	64,6020A	BM
Arsenic, Dissolved	ND		mg/l	0.005	1	06/04/09 10:25	06/08/09 13:25	EPA 3005A	60,6010B	AI
Barium, Dissolved	ND		mg/l	0.010	1	06/04/09 10:25	06/08/09 13:25	EPA 3005A	60,6010B	AI
Beryllium, Dissolved	ND		mg/l	0.004	1	06/04/09 10:25	06/08/09 13:25	EPA 3005A	60,6010B	AI
Cadmium, Dissolved	ND		mg/l	0.004	1	06/04/09 10:25	06/08/09 13:25	EPA 3005A	60,6010B	AI
Chromium, Dissolved	ND		mg/l	0.01	1	06/04/09 10:25	06/08/09 13:25	EPA 3005A	60,6010B	AI
Lead, Dissolved	ND		mg/l	0.010	1	06/04/09 10:25	06/08/09 13:25	EPA 3005A	60,6010B	AI
Mercury, Dissolved	ND		mg/l	0.0002	1	06/08/09 16:50	06/09/09 12:23	EPA 7470A	64,7470A	EZ
Nickel, Dissolved	ND		mg/l	0.025	1	06/04/09 10:25	06/08/09 13:25	EPA 3005A	60,6010B	AI
Selenium, Dissolved	ND		mg/l	0.010	1	06/04/09 10:25	06/08/09 13:25	EPA 3005A	60,6010B	AI
Silver, Dissolved	ND		mg/l	0.007	1	06/04/09 10:25	06/08/09 13:25	EPA 3005A	60,6010B	AI
Thallium, Dissolved	ND		mg/l	0.0020	4	06/05/09 10:50	06/08/09 21:34	EPA 3005A	64,6020A	BM
Vanadium, Dissolved	ND		mg/l	0.010	1	06/04/09 10:25	06/08/09 13:25	EPA 3005A	60,6010B	AI
Zinc, Dissolved	ND		mg/l	0.050	1	06/04/09 10:25	06/08/09 13:25	EPA 3005A	60,6010B	AI



Project Name: YARD'S END SRH

Lab Number: L0907279

Project Number: 31502-050

Report Date: 06/11/09

SAMPLE RESULTS

Lab ID: L0907279-02
 Client ID: HA-A6(OW)-06042009
 Sample Location: Not Specified
 Matrix: Water

Date Collected: 06/04/09 10:50
 Date Received: 06/04/09
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Antimony, Dissolved	ND		mg/l	0.0020	4	06/05/09 10:50	06/08/09 21:46	EPA 3005A	64,6020A	BM
Arsenic, Dissolved	ND		mg/l	0.005	1	06/04/09 10:25	06/08/09 13:32	EPA 3005A	60,6010B	AI
Barium, Dissolved	0.073		mg/l	0.010	1	06/04/09 10:25	06/08/09 13:32	EPA 3005A	60,6010B	AI
Beryllium, Dissolved	ND		mg/l	0.004	1	06/04/09 10:25	06/08/09 13:32	EPA 3005A	60,6010B	AI
Cadmium, Dissolved	ND		mg/l	0.004	1	06/04/09 10:25	06/08/09 13:32	EPA 3005A	60,6010B	AI
Chromium, Dissolved	ND		mg/l	0.01	1	06/04/09 10:25	06/08/09 13:32	EPA 3005A	60,6010B	AI
Lead, Dissolved	ND		mg/l	0.010	1	06/04/09 10:25	06/08/09 13:32	EPA 3005A	60,6010B	AI
Mercury, Dissolved	ND		mg/l	0.0002	1	06/08/09 16:50	06/09/09 12:24	EPA 7470A	64,7470A	EZ
Nickel, Dissolved	ND		mg/l	0.025	1	06/04/09 10:25	06/08/09 13:32	EPA 3005A	60,6010B	AI
Selenium, Dissolved	ND		mg/l	0.010	1	06/04/09 10:25	06/08/09 13:32	EPA 3005A	60,6010B	AI
Silver, Dissolved	ND		mg/l	0.007	1	06/04/09 10:25	06/08/09 13:32	EPA 3005A	60,6010B	AI
Thallium, Dissolved	ND		mg/l	0.0020	4	06/05/09 10:50	06/08/09 21:46	EPA 3005A	64,6020A	BM
Vanadium, Dissolved	ND		mg/l	0.010	1	06/04/09 10:25	06/08/09 13:32	EPA 3005A	60,6010B	AI
Zinc, Dissolved	ND		mg/l	0.050	1	06/04/09 10:25	06/08/09 13:32	EPA 3005A	60,6010B	AI



Project Name: YARD'S END SRH

Lab Number: L0907279

Project Number: 31502-050

Report Date: 06/11/09

SAMPLE RESULTS

Lab ID: L0907279-03
 Client ID: HA-F2(OW)-06042009
 Sample Location: Not Specified
 Matrix: Water

Date Collected: 06/04/09 12:30
 Date Received: 06/04/09
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Antimony, Dissolved	ND		mg/l	0.0020	4	06/05/09 10:50	06/08/09 21:51	EPA 3005A	64,6020A	BM
Arsenic, Dissolved	ND		mg/l	0.005	1	06/04/09 10:25	06/08/09 13:35	EPA 3005A	60,6010B	AI
Barium, Dissolved	0.054		mg/l	0.010	1	06/04/09 10:25	06/08/09 13:35	EPA 3005A	60,6010B	AI
Beryllium, Dissolved	ND		mg/l	0.004	1	06/04/09 10:25	06/08/09 13:35	EPA 3005A	60,6010B	AI
Cadmium, Dissolved	ND		mg/l	0.004	1	06/04/09 10:25	06/08/09 13:35	EPA 3005A	60,6010B	AI
Chromium, Dissolved	ND		mg/l	0.01	1	06/04/09 10:25	06/08/09 13:35	EPA 3005A	60,6010B	AI
Lead, Dissolved	ND		mg/l	0.010	1	06/04/09 10:25	06/08/09 13:35	EPA 3005A	60,6010B	AI
Mercury, Dissolved	ND		mg/l	0.0002	1	06/08/09 16:50	06/09/09 12:26	EPA 7470A	64,7470A	EZ
Nickel, Dissolved	ND		mg/l	0.025	1	06/04/09 10:25	06/08/09 13:35	EPA 3005A	60,6010B	AI
Selenium, Dissolved	ND		mg/l	0.010	1	06/04/09 10:25	06/08/09 13:35	EPA 3005A	60,6010B	AI
Silver, Dissolved	ND		mg/l	0.007	1	06/04/09 10:25	06/08/09 13:35	EPA 3005A	60,6010B	AI
Thallium, Dissolved	ND		mg/l	0.0020	4	06/05/09 10:50	06/08/09 21:51	EPA 3005A	64,6020A	BM
Vanadium, Dissolved	ND		mg/l	0.010	1	06/04/09 10:25	06/08/09 13:35	EPA 3005A	60,6010B	AI
Zinc, Dissolved	0.528		mg/l	0.050	1	06/04/09 10:25	06/08/09 13:35	EPA 3005A	60,6010B	AI



Project Name: YARD'S END SRH

Lab Number: L0907279

Project Number: 31502-050

Report Date: 06/11/09

SAMPLE RESULTS

Lab ID: L0907279-04
 Client ID: HA-K6(OW)-06042009
 Sample Location: Not Specified
 Matrix: Water

Date Collected: 06/04/09 14:10
 Date Received: 06/04/09
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Antimony, Dissolved	ND		mg/l	0.0020	4	06/05/09 10:50	06/08/09 21:57	EPA 3005A	64,6020A	BM
Arsenic, Dissolved	ND		mg/l	0.005	1	06/04/09 10:25	06/08/09 13:38	EPA 3005A	60,6010B	AI
Barium, Dissolved	0.059		mg/l	0.010	1	06/04/09 10:25	06/08/09 13:38	EPA 3005A	60,6010B	AI
Beryllium, Dissolved	ND		mg/l	0.004	1	06/04/09 10:25	06/08/09 13:38	EPA 3005A	60,6010B	AI
Cadmium, Dissolved	ND		mg/l	0.004	1	06/04/09 10:25	06/08/09 13:38	EPA 3005A	60,6010B	AI
Chromium, Dissolved	ND		mg/l	0.01	1	06/04/09 10:25	06/08/09 13:38	EPA 3005A	60,6010B	AI
Lead, Dissolved	ND		mg/l	0.010	1	06/04/09 10:25	06/08/09 13:38	EPA 3005A	60,6010B	AI
Mercury, Dissolved	ND		mg/l	0.0002	1	06/08/09 16:50	06/09/09 12:28	EPA 7470A	64,7470A	EZ
Nickel, Dissolved	ND		mg/l	0.025	1	06/04/09 10:25	06/08/09 13:38	EPA 3005A	60,6010B	AI
Selenium, Dissolved	ND		mg/l	0.010	1	06/04/09 10:25	06/08/09 13:38	EPA 3005A	60,6010B	AI
Silver, Dissolved	ND		mg/l	0.007	1	06/04/09 10:25	06/08/09 13:38	EPA 3005A	60,6010B	AI
Thallium, Dissolved	ND		mg/l	0.0020	4	06/05/09 10:50	06/08/09 21:57	EPA 3005A	64,6020A	BM
Vanadium, Dissolved	ND		mg/l	0.010	1	06/04/09 10:25	06/08/09 13:38	EPA 3005A	60,6010B	AI
Zinc, Dissolved	0.177		mg/l	0.050	1	06/04/09 10:25	06/08/09 13:38	EPA 3005A	60,6010B	AI



Project Name: YARD'S END SRH

Lab Number: L0907279

Project Number: 31502-050

Report Date: 06/11/09

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 01-04 Batch: WG365491-1								
Arsenic, Dissolved	ND	mg/l	0.005	1	06/04/09 10:25	06/08/09 13:01	60,6010B	AI
Barium, Dissolved	ND	mg/l	0.010	1	06/04/09 10:25	06/08/09 13:01	60,6010B	AI
Beryllium, Dissolved	ND	mg/l	0.004	1	06/04/09 10:25	06/08/09 13:01	60,6010B	AI
Cadmium, Dissolved	ND	mg/l	0.004	1	06/04/09 10:25	06/08/09 13:01	60,6010B	AI
Chromium, Dissolved	ND	mg/l	0.01	1	06/04/09 10:25	06/08/09 13:01	60,6010B	AI
Lead, Dissolved	ND	mg/l	0.010	1	06/04/09 10:25	06/08/09 13:01	60,6010B	AI
Nickel, Dissolved	ND	mg/l	0.025	1	06/04/09 10:25	06/08/09 13:01	60,6010B	AI
Selenium, Dissolved	ND	mg/l	0.010	1	06/04/09 10:25	06/08/09 13:01	60,6010B	AI
Silver, Dissolved	ND	mg/l	0.007	1	06/04/09 10:25	06/08/09 13:01	60,6010B	AI
Vanadium, Dissolved	ND	mg/l	0.010	1	06/04/09 10:25	06/08/09 13:01	60,6010B	AI
Zinc, Dissolved	ND	mg/l	0.050	1	06/04/09 10:25	06/08/09 13:01	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 01-04 Batch: WG365500-1								
Antimony, Dissolved	ND	mg/l	0.0005	1	06/05/09 10:50	06/08/09 20:53	64,6020A	BM
Thallium, Dissolved	ND	mg/l	0.0005	1	06/05/09 10:50	06/08/09 20:53	64,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 01-04 Batch: WG365804-1								
Mercury, Dissolved	ND	mg/l	0.0002	1	06/08/09 16:50	06/09/09 12:07	64,7470A	EZ

Project Name: YARD'S END SRH

Lab Number: L0907279

Project Number: 31502-050

Report Date: 06/11/09

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907279

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Dissolved Metals - Westborough Lab Associated sample(s): 01-04 Batch: WG365491-2 WG365491-3					
Arsenic, Dissolved	113	110	80-120	3	20
Barium, Dissolved	100	98	80-120	2	20
Beryllium, Dissolved	102	100	80-120	2	20
Cadmium, Dissolved	112	111	80-120	1	20
Chromium, Dissolved	100	100	80-120	0	20
Lead, Dissolved	107	106	80-120	1	20
Nickel, Dissolved	103	102	80-120	1	20
Selenium, Dissolved	115	115	80-120	0	20
Silver, Dissolved	104	102	80-120	2	20
Vanadium, Dissolved	102	101	80-120	1	20
Zinc, Dissolved	110	109	80-120	1	20
MCP Dissolved Metals - Westborough Lab Associated sample(s): 01-04 Batch: WG365500-2 WG365500-3					
Antimony, Dissolved	108	101	80-120	7	20
Thallium, Dissolved	104	100	80-120	4	20
MCP Dissolved Metals - Westborough Lab Associated sample(s): 01-04 Batch: WG365804-2 WG365804-3					
Mercury, Dissolved	117	108	80-120	8	20

Project Name: YARD'S END SRH

Lab Number: L0907279

Project Number: 31502-050

Report Date: 06/11/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0907279-01A	Vial HCl preserved	B	N/A	2.8	Y	Absent	MCP-8260-04(14)
L0907279-01B	Vial HCl preserved	B	N/A	2.8	Y	Absent	MCP-8260-04(14)
L0907279-01C	Vial HCl preserved	B	N/A	2.8	Y	Absent	VPH-04(14)
L0907279-01D	Vial HCl preserved	B	N/A	2.8	Y	Absent	VPH-04(14)
L0907279-01E	Plastic 250ml HNO3 preserved	B	<2	2.8	Y	Absent	MCP-AG-6010S(180),MCP-BA-6010S(180),MCP-SB-6020S(180),MCP-SE-6010S(180),MCP-BE-6010S(180),MCP-NI-6010S(180),MCP-CD-6010S(180),MCP-TL-6020S(180),MCP-7470S(28),MCP-CR-6010S(180),MCP-PB-6010S(180),MCP-ZN-6010S(180),MCP-AS-6010S(180),MCP-V-6010S(180)
L0907279-01F	Amber 1000ml HCl preserved	A	<2	2	Y	Absent	EPH-04(14)
L0907279-01G	Amber 1000ml HCl preserved	A	<2	2	Y	Absent	EPH-04(14)
L0907279-01H	Amber 1000ml unpreserved	A	6	2	Y	Absent	MCP-8082-04(7)
L0907279-01I	Amber 1000ml unpreserved	A	6	2	Y	Absent	MCP-8082-04(7)
L0907279-01J	Amber 1000ml unpreserved	A	6	2	Y	Absent	MCP-8270-04(7),MCP-8270SIM-04(7)
L0907279-01K	Amber 1000ml unpreserved	A	6	2	Y	Absent	MCP-8270-04(7),MCP-8270SIM-04(7)
L0907279-02A	Vial HCl preserved	B	N/A	2.8	Y	Absent	MCP-8260-04(14)
L0907279-02B	Vial HCl preserved	B	N/A	2.8	Y	Absent	MCP-8260-04(14)
L0907279-02C	Vial HCl preserved	B	N/A	2.8	Y	Absent	VPH-04(14)
L0907279-02D	Vial HCl preserved	B	N/A	2.8	Y	Absent	VPH-04(14)
L0907279-02E	Plastic 250ml HNO3 preserved	B	<2	2.8	Y	Absent	MCP-AG-6010S(180),MCP-BA-6010S(180),MCP-SB-6020S(180),MCP-SE-6010S(180),MCP-BE-6010S(180),MCP-NI-6010S(180),MCP-CD-6010S(180),MCP-TL-6020S(180),MCP-7470S(28),MCP-CR-6010S(180),MCP-PB-6010S(180),MCP-ZN-6010S(180),MCP-AS-6010S(180),MCP-V-6010S(180)
L0907279-02F	Amber 1000ml HCl preserved	A	<2	2	Y	Absent	EPH-04(14)

*Hold days indicated by values in parentheses



Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907279

Report Date: 06/11/09

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0907279-02G	Amber 1000ml HCl preserved	A	<2	2	Y	Absent	EPH-04(14)
L0907279-02H	Amber 1000ml unpreserved	A	6	2	Y	Absent	MCP-8082-04(7)
L0907279-02I	Amber 1000ml unpreserved	A	6	2	Y	Absent	MCP-8082-04(7)
L0907279-02J	Amber 1000ml unpreserved	A	6	2	Y	Absent	MCP-8270-04(7),MCP-8270SIM-04(7)
L0907279-02K	Amber 1000ml unpreserved	A	6	2	Y	Absent	MCP-8270-04(7),MCP-8270SIM-04(7)
L0907279-03A	Vial HCl preserved	B	N/A	2.8	Y	Absent	MCP-8260-04(14)
L0907279-03B	Vial HCl preserved	B	N/A	2.8	Y	Absent	MCP-8260-04(14)
L0907279-03C	Vial HCl preserved	B	N/A	2.8	Y	Absent	VPH-04(14)
L0907279-03D	Vial HCl preserved	B	N/A	2.8	Y	Absent	VPH-04(14)
L0907279-03E	Plastic 250ml HNO3 preserved	B	<2	2.8	Y	Absent	MCP-AG-6010S(180),MCP-BA-6010S(180),MCP-SB-6020S(180),MCP-SE-6010S(180),MCP-BE-6010S(180),MCP-NI-6010S(180),MCP-CD-6010S(180),MCP-TL-6020S(180),MCP-7470S(28),MCP-CR-6010S(180),MCP-PB-6010S(180),MCP-ZN-6010S(180),MCP-AS-6010S(180),MCP-V-6010S(180)
L0907279-03F	Amber 1000ml HCl preserved	B	<2	2.8	Y	Absent	EPH-04(14)
L0907279-03G	Amber 1000ml HCl preserved	B	<2	2.8	Y	Absent	EPH-04(14)
L0907279-03H	Amber 1000ml unpreserved	B	6	2.8	Y	Absent	MCP-8082-04(7)
L0907279-03J	Amber 1000ml unpreserved	B	6	2.8	Y	Absent	MCP-8270-04(7),MCP-8270SIM-04(7)
L0907279-03K	Amber 1000ml unpreserved	B	6	2.8	Y	Absent	MCP-8270-04(7),MCP-8270SIM-04(7)
L0907279-04A	Vial HCl preserved	B	N/A	2.8	Y	Absent	MCP-8260-04(14)
L0907279-04B	Vial HCl preserved	B	N/A	2.8	Y	Absent	MCP-8260-04(14)
L0907279-04C	Vial HCl preserved	B	N/A	2.8	Y	Absent	VPH-04(14)
L0907279-04D	Vial HCl preserved	B	N/A	2.8	Y	Absent	VPH-04(14)
L0907279-04E	Plastic 500ml HNO3 preserved	B	<2	2.8	Y	Absent	MCP-AG-6010S(180),MCP-BA-6010S(180),MCP-SB-6020S(180),MCP-SE-6010S(180),MCP-BE-6010S(180),MCP-NI-6010S(180),MCP-CD-6010S(180),MCP-TL-6020S(180),MCP-7470S(28),MCP-CR-6010S(180),MCP-PB-6010S(180),MCP-ZN-6010S(180),MCP-AS-6010S(180),MCP-V-6010S(180)
L0907279-04F	Amber 1000ml HCl preserved	B	<2	2.8	Y	Absent	EPH-04(14)
L0907279-04G	Amber 1000ml HCl preserved	B	<2	2.8	Y	Absent	EPH-04(14)
L0907279-04H	Amber 1000ml unpreserved	B	6	2.8	Y	Absent	MCP-8082-04(7)

*Hold days indicated by values in parentheses



Project Name: YARD'S END SRH**Project Number:** 31502-050**Lab Number:** L0907279**Report Date:** 06/11/09**Container Information**

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0907279-04I	Amber 1000ml unpreserved	B	6	2.8	Y	Absent	MCP-8082-04(7)
L0907279-04J	Amber 1000ml unpreserved	B	6	2.8	Y	Absent	MCP-8270-04(7),MCP-8270SIM-04(7)
L0907279-04K	Amber 1000ml unpreserved	B	6	2.8	Y	Absent	MCP-8270-04(7),MCP-8270SIM-04(7)
L0907279-05A	Vial HCl preserved	B	N/A	2.8	Y	Absent	MCP-8260-04(14)

*Hold days indicated by values in parentheses

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907279
Report Date: 06/11/09

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.
ND	- Not detected at the reported detection limit for the sample.
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

*	- The batch duplicate RPD exceeds the acceptance criteria. This flag is not applicable when the sample concentrations are less than 5x the RDL. (Metals only.)
A	- Spectra identified as "Aldol Condensation Product".
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.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
N	- The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
J	- Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report



Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907279
Report Date: 06/11/09

REFERENCES

- 59 Method for the Determination of Volatile Petroleum Hydrocarbons (VPH). Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004, Revision 1.1.
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.
- 61 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH). Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004, Revision 1.1.
- 64 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). August 2004.

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 June 9, 2009 - 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.

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.)

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), 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 150.1, 180.1, 300.0, 353.2, SM2130B, 2320B, 4500CI-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, 4500CI-D, 4500CI-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, Nitrite-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, EPA 150.1, SM4500H-B.

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

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), SM6251B, 314.0.

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,Tl,Ti,V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Nitrate-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, 4500CN-CE, 2540D, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1

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

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCB-Water)

600/4-81-045-PCB-Oil

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.*Drinking Water*

Microbiology Parameters: SM9215B; MF-SM9222B; ENZ. SUB. SM9223; EC-SM9221E; MF-SM9222D; ENZ. SUB. SM9223;

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

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 110.2, 120.1, 150.1, 300.0, 325.2, 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, 150.1, 300.0, 305.1, 310.1, 325.2, 340.2, 350.1, 350.2, 351.1, 353.2, 354.1, 365.2, 375.4, 376.2, 405.1, 415.1, 420.1, 425.1, 1664A, SW-846 9010, 9030, 9040B, EPA 160.1, 160.2, 160.3, 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.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, 331.0, 110.2, SM2120B, 2510B, 5310C, EPA 150.1, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.1, SM5220D, 4500CI-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 350.2/.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.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 8215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 331.0, SM2320B, EPA 300.0, 325.2, 110.2, SM2120B, 4500CN-E, 4500F-C, EPA 150.1, SM4500H-B, 4500NO₃-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, EPA 405.1, SM5210B, EPA 410.4, SM5220D, EPA 305.1, SM2310B-4a, EPA 310.1, SM2320B, EPA 200.7, 300.0, 325.2, LACHAT 10-117-07-1A or B, SM4500CI-E, EPA 340.2, SM4500F-C, EPA 375.4, SM15 426C, EPA 350.1, 350.2, 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-NO₃F, EPA 354.1, SM4500-NO₂-B, EPA 365.2, SM4500P-E, EPA 160.3, EPA 160.1, SM2540C, EPA 160.2, SM2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, 110.2, SM2120B, 335.2, LACHAT 10-204-00-1-A, EPA 150.1, 9040B, SM4500-HB, EPA 1664A, EPA 415.1, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, EPA 376.2, SM4500S-D, EPA 425.1, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, 8021B, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 3005A, 3050B, 3051, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 8021B, 3540C, 3545, 3580, 5030B, 5035.)

Analytical Services Protocol: CLP Volatile Organics, CLP Inorganics, CLP PCB/Pesticides.

Rhode Island Department of Health Certificate/Lab ID: LAO00065.

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

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

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671.

Non-Potable Water (Organic Parameters: EPA 3510C, 625, 608, 8081A, 8082, 8151A, 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)

Phone (617) 886-7400
Fax (617) 886-7500

Page 1 of 1

6/4/09
Standard
1.3/4/09

laboratory to use applicable DUE CAM methods, unless otherwise directed.

- ① VOC 67 8260
- ② Svc 67 8270
- ③ Surf 14 Methyls

ACBS
CPII + VI neg - only

Metals filled

NOTE: labels on vort might read more vpt or voc: per suite - follow chair -

each site	YES	NO
1		

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☒ GW1

AUGUST 2008



ANALYTICAL REPORT

Lab Number: L0907025

Client: Haley & Aldrich, Inc.
465 Medford Street, Suite 2200
Charlestown, MA 02129-1400

ATTN: Todd Butler

Project Name: YARD'S END SRH

Project Number: 31502-050

Report Date: 06/08/09

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.

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



Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907025
Report Date: 06/08/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0907025-01	HA-F6(OW)-06012009	Not Specified	06/01/09 14:00
L0907025-02	TRIP BLANK	Not Specified	06/01/09 00:00

Project Name: YARD'S END SRH

Lab Number: L0907025

Project Number: 31502-050

Report Date: 06/08/09

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	YES
A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	YES
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907025
Report Date: 06/08/09

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.

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.

MCP Related Narratives

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Volatile Organics

L0907025-02 was processed against a calibration curve that utilized a quadratic fit for Bromomethane, 1,4-Dioxane and Naphthalene.

In reference to question E:

The WG365724-2 LCSD recovery associated with L0907025-02 is above the acceptance criteria for 1,4-

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907025
Report Date: 06/08/09

Case Narrative (continued)

Dioxane (132%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported; however, all positive detects are considered to have a potentially high bias for this compound.

Semivolatile Organics

In reference to question E:

The WG365387-2/-3 LCS/LCSD recoveries associated with L0907025-01 are outside the individual acceptance criteria for several compounds, but within the overall method allowances. The results of the associated sample are reported; however, all results are considered to have a potentially high bias for Acetophenone (150%/167%) and a potentially low bias for Hexachloroethane (LCS at 38%), 2,4-Dinitrophenol (LCS at 15%) and Pentachlorophenol (LCS at 26%). In addition, the associated LCS/LCSD RPDs are above the acceptance criteria for 2,4-Dinitrophenol (82%) and Pentachlorophenol (96%).

The WG365387-2/-3 LCS/LCSD RPDs associated with L0907025-01 are above the acceptance criteria for 1,3-Dichlorobenzene (22%) and 4-Nitrophenol (32%); however, the individual LCS/LCSD recoveries are within method limits. The results of the associated sample are reported.

Semivolatile Organics-SIM

In reference to question E:

The WG365395-2/-3 LCS/LCSD recoveries associated with L0907025-01 are below the individual acceptance criteria for Hexachlorobutadiene (30%/31%), Pentachlorophenol (LCSD at 21%) and Hexachloroethane (31%/33%), but within the overall method allowances. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for these compounds. In addition, the associated LCS/LCSD RPD is above the acceptance criteria for Pentachlorophenol (35%).

EPH

In reference to question E:

The WG364960-3 LCSD recovery associated with L0907025-01 was outside the acceptance criteria for Decane (C10) (38%); however, the target carbon ranges and analytes were within method criteria. The results of the original analysis are reported. In addition, the associated WG364960-2/-3 LCS/LCSD RPD is above the

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907025
Report Date: 06/08/09

Case Narrative (continued)

acceptance criteria for Decane (C10) (27%).

The WG364960-2/-3 LCS/LCSD RPDs associated with L0907025-01 are above the acceptance criteria for C9-C18 Aliphatics (26%), C19-C26 Aliphatics (26%), Naphthalene (26%), 2-Methylnaphthalene (27%), Indeno(1,2,3-cd)Pyrene (26%), Dibenzo(a,h)anthracene (26%), Nonane (C9) (26%), Dodecane (C12) (28%), Tetradecane (C14) (28%), Octadecane (C18) (27%), Nonadecane (C19) (29%), Eicosane (C20) (29%), Docosane (C22) (27%), Tetracosane (C24) (27%), Hexacosane (C26) (26%), Triacontane (C30) (26%) and Hexatriacontane (C36) (26%); however, the individual LCS/LCSD recoveries are within method limits. The results of the associated sample are reported.

PCB

In reference to question E:

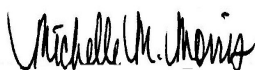
The WG365446-2/-3 LCS/LCSD RPD associated with L0907025-01 is above the acceptance criteria for Aroclor 1016 (21%); however, the individual LCS/LCSD recoveries are within method limits. The results of the associated sample are reported.

Metals

L0907025-01 has elevated detection limits for all EPA 6020A analytes due to the dilutions required by the high concentrations of non-target analytes. The requested reporting limits were achieved.

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: 06/08/09

ORGANICS

VOLATILES

Project Name: YARD'S END SRH**Lab Number:** L0907025**Project Number:** 31502-050**Report Date:** 06/08/09**SAMPLE RESULTS**

Lab ID: L0907025-01
Client ID: HA-F6(OW)-06012009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/05/09 14:40
Analyst: GK

Date Collected: 06/01/09 14:00
Date Received: 06/01/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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MCP Volatile Organics - Westborough Lab

Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: YARD'S END SRH**Lab Number:** L0907025**Project Number:** 31502-050**Report Date:** 06/08/09**SAMPLE RESULTS****Lab ID:** L0907025-01**Date Collected:** 06/01/09 14:00**Client ID:** HA-F6(OW)-06012009**Date Received:** 06/01/09**Sample Location:** Not Specified**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
Tetrahydrofuran	ND		ug/l	10	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1
Ethyl ether	ND		ug/l	2.5	1

Project Name: YARD'S END SRH**Lab Number:** L0907025**Project Number:** 31502-050**Report Date:** 06/08/09**SAMPLE RESULTS****Lab ID:** L0907025-01**Date Collected:** 06/01/09 14:00**Client ID:** HA-F6(OW)-06012009**Date Received:** 06/01/09**Sample Location:** Not Specified**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Isopropyl Ether	ND		ug/l	2.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	106		70-130

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907025
Report Date: 06/08/09

SAMPLE RESULTS

Lab ID: L0907025-02
Client ID: TRIP BLANK
Sample Location: Not Specified
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/08/09 11:13
Analyst: MM

Date Collected: 06/01/09 00:00
Date Received: 06/01/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: YARD'S END SRH**Lab Number:** L0907025**Project Number:** 31502-050**Report Date:** 06/08/09**SAMPLE RESULTS****Lab ID:** L0907025-02**Date Collected:** 06/01/09 00:00**Client ID:** TRIP BLANK**Date Received:** 06/01/09**Sample Location:** Not Specified**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
Tetrahydrofuran	ND		ug/l	10	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1
Ethyl ether	ND		ug/l	2.5	1

Project Name: YARD'S END SRH**Lab Number:** L0907025**Project Number:** 31502-050**Report Date:** 06/08/09**SAMPLE RESULTS**

Lab ID: L0907025-02

Date Collected: 06/01/09 00:00

Client ID: TRIP BLANK

Date Received: 06/01/09

Sample Location: Not Specified

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Isopropyl Ether	ND		ug/l	2.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	108		70-130

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907025
Report Date: 06/08/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 06/05/09 11:27
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG365512-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907025
Report Date: 06/08/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 06/05/09 11:27
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG365512-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907025
Report Date: 06/08/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 06/05/09 11:27
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG365512-3				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: YARD'S END SRH

Lab Number: L0907025

Project Number: 31502-050

Report Date: 06/08/09

Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/08/09 09:57
 Analyst: MM

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 02 Batch: WG365724-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907025
Report Date: 06/08/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 06/08/09 09:57
Analyst: MM

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 02 Batch: WG365724-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907025
Report Date: 06/08/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 06/08/09 09:57
Analyst: MM

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 02 Batch: WG365724-3				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907025

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG365512-1 WG365512-2					
Methylene chloride	99	98	70-130	1	25
1,1-Dichloroethane	99	98	70-130	1	25
Chloroform	100	100	70-130	0	25
Carbon tetrachloride	85	86	70-130	1	25
1,2-Dichloropropane	97	95	70-130	2	25
Dibromochloromethane	101	94	70-130	7	25
1,1,2-Trichloroethane	95	92	70-130	3	25
Tetrachloroethene	102	97	70-130	5	25
Chlorobenzene	99	93	70-130	6	25
Trichlorofluoromethane	112	109	70-130	3	25
1,2-Dichloroethane	98	98	70-130	0	25
1,1,1-Trichloroethane	100	98	70-130	2	25
Bromodichloromethane	108	106	70-130	2	25
trans-1,3-Dichloropropene	86	82	70-130	5	25
cis-1,3-Dichloropropene	87	85	70-130	2	25
1,1-Dichloropropene	100	98	70-130	2	25
Bromoform	109	102	70-130	7	50
1,1,2,2-Tetrachloroethane	106	97	70-130	9	25
Benzene	98	95	70-130	3	25
Toluene	98	94	70-130	4	25
Ethylbenzene	100	96	70-130	4	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907025

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG365512-1 WG365512-2					
Chloromethane	74	76	70-130	3	50
Bromomethane	81	86	70-130	6	50
Vinyl chloride	98	97	70-130	1	25
Chloroethane	83	86	70-130	4	25
1,1-Dichloroethene	99	98	70-130	1	25
trans-1,2-Dichloroethene	99	100	70-130	1	25
Trichloroethene	98	94	70-130	4	25
1,2-Dichlorobenzene	101	94	70-130	7	25
1,3-Dichlorobenzene	99	93	70-130	6	25
1,4-Dichlorobenzene	102	95	70-130	7	25
Methyl tert butyl ether	102	93	70-130	9	25
p/m-Xylene	99	97	70-130	2	25
o-Xylene	102	101	70-130	1	25
cis-1,2-Dichloroethene	103	102	70-130	1	25
Dibromomethane	101	100	70-130	1	25
1,2,3-Trichloropropane	108	98	70-130	10	25
Styrene	100	94	70-130	6	25
Dichlorodifluoromethane	84	81	70-130	4	50
Acetone	96	91	70-130	5	50
Carbon disulfide	78	78	70-130	0	50
2-Butanone	96	88	70-130	9	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907025

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG365512-1 WG365512-2					
4-Methyl-2-pentanone	98	87	70-130	12	50
2-Hexanone	96	83	70-130	15	50
Bromochloromethane	99	99	70-130	0	25
Tetrahydrofuran	91	86	70-130	6	25
2,2-Dichloropropane	86	84	70-130	2	50
1,2-Dibromoethane	105	97	70-130	8	25
1,3-Dichloropropane	100	92	70-130	8	25
1,1,1,2-Tetrachloroethane	94	88	70-130	7	25
Bromobenzene	99	93	70-130	6	25
n-Butylbenzene	104	97	70-130	7	25
sec-Butylbenzene	104	98	70-130	6	25
tert-Butylbenzene	104	98	70-130	6	25
o-Chlorotoluene	99	95	70-130	4	25
p-Chlorotoluene	99	93	70-130	6	25
1,2-Dibromo-3-chloropropane	104	96	70-130	8	50
Hexachlorobutadiene	115	112	70-130	3	25
Isopropylbenzene	101	97	70-130	4	25
p-Isopropyltoluene	108	102	70-130	6	25
Naphthalene	101	95	70-130	6	25
n-Propylbenzene	100	95	70-130	5	25
1,2,3-Trichlorobenzene	104	98	70-130	6	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907025

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG365512-1 WG365512-2					
1,2,4-Trichlorobenzene	100	95	70-130	5	25
1,3,5-Trimethylbenzene	102	97	70-130	5	25
1,2,4-Trimethylbenzene	100	94	70-130	6	25
Ethyl ether	102	96	70-130	6	25
Isopropyl Ether	94	91	70-130	3	25
Ethyl-Tert-Butyl-Ether	91	84	70-130	8	25
Tertiary-Amyl Methyl Ether	90	85	70-130	6	25
1,4-Dioxane	116	112	70-130	4	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100	96	70-130
Toluene-d8	99	96	70-130
4-Bromofluorobenzene	99	96	70-130
Dibromofluoromethane	102	103	70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907025

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02 Batch: WG365724-1 WG365724-2					
Methylene chloride	93	98	70-130	5	25
1,1-Dichloroethane	90	90	70-130	0	25
Chloroform	88	91	70-130	3	25
Carbon tetrachloride	84	82	70-130	2	25
1,2-Dichloropropane	86	88	70-130	2	25
Dibromochloromethane	94	90	70-130	4	25
1,1,2-Trichloroethane	97	90	70-130	7	25
Tetrachloroethene	96	96	70-130	0	25
Chlorobenzene	92	95	70-130	3	25
Trichlorofluoromethane	110	112	70-130	2	25
1,2-Dichloroethane	88	88	70-130	0	25
1,1,1-Trichloroethane	82	83	70-130	1	25
Bromodichloromethane	92	92	70-130	0	25
trans-1,3-Dichloropropene	92	86	70-130	7	25
cis-1,3-Dichloropropene	74	76	70-130	3	25
1,1-Dichloropropene	86	88	70-130	2	25
Bromoform	102	94	70-130	8	50
1,1,2,2-Tetrachloroethane	99	95	70-130	4	25
Benzene	88	88	70-130	0	25
Toluene	98	97	70-130	1	25
Ethylbenzene	95	97	70-130	2	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907025

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02 Batch: WG365724-1 WG365724-2					
Chloromethane	82	90	70-130	9	50
Bromomethane	102	112	70-130	9	50
Vinyl chloride	91	100	70-130	9	25
Chloroethane	89	94	70-130	5	25
1,1-Dichloroethene	97	101	70-130	4	25
trans-1,2-Dichloroethene	86	86	70-130	0	25
Trichloroethene	82	82	70-130	0	25
1,2-Dichlorobenzene	94	93	70-130	1	25
1,3-Dichlorobenzene	96	96	70-130	0	25
1,4-Dichlorobenzene	97	96	70-130	1	25
Methyl tert butyl ether	84	86	70-130	2	25
p/m-Xylene	96	100	70-130	4	25
o-Xylene	98	100	70-130	2	25
cis-1,2-Dichloroethene	89	90	70-130	1	25
Dibromomethane	82	86	70-130	5	25
1,2,3-Trichloropropane	115	112	70-130	3	25
Styrene	96	98	70-130	2	25
Dichlorodifluoromethane	71	77	70-130	8	50
Acetone	86	84	70-130	2	50
Carbon disulfide	90	95	70-130	5	50
2-Butanone	87	86	70-130	1	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907025

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02 Batch: WG365724-1 WG365724-2					
4-Methyl-2-pentanone	81	82	70-130	1	50
2-Hexanone	83	85	70-130	2	50
Bromochloromethane	83	88	70-130	6	25
Tetrahydrofuran	96	98	70-130	2	25
2,2-Dichloropropane	85	84	70-130	1	50
1,2-Dibromoethane	92	87	70-130	6	25
1,3-Dichloropropane	98	93	70-130	5	25
1,1,1,2-Tetrachloroethane	103	99	70-130	4	25
Bromobenzene	93	93	70-130	0	25
n-Butylbenzene	96	96	70-130	0	25
sec-Butylbenzene	98	98	70-130	0	25
tert-Butylbenzene	93	94	70-130	1	25
o-Chlorotoluene	92	92	70-130	0	25
p-Chlorotoluene	95	96	70-130	1	25
1,2-Dibromo-3-chloropropane	94	94	70-130	0	50
Hexachlorobutadiene	100	102	70-130	2	25
Isopropylbenzene	92	95	70-130	3	25
p-Isopropyltoluene	100	101	70-130	1	25
Naphthalene	72	74	70-130	3	25
n-Propylbenzene	97	98	70-130	1	25
1,2,3-Trichlorobenzene	84	85	70-130	1	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907025

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02 Batch: WG365724-1 WG365724-2					
1,2,4-Trichlorobenzene	74	77	70-130	4	25
1,3,5-Trimethylbenzene	95	96	70-130	1	25
1,2,4-Trimethylbenzene	96	95	70-130	1	25
Ethyl ether	114	107	70-130	6	25
Isopropyl Ether	87	90	70-130	3	25
Ethyl-Tert-Butyl-Ether	90	88	70-130	2	25
Tertiary-Amyl Methyl Ether	82	82	70-130	0	25
1,4-Dioxane	113	132	70-130	16	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105	99	70-130
Toluene-d8	106	106	70-130
4-Bromofluorobenzene	93	91	70-130
Dibromofluoromethane	98	100	70-130

SEMIVOLATILES

Project Name: YARD'S END SRH**Lab Number:** L0907025**Project Number:** 31502-050**Report Date:** 06/08/09**SAMPLE RESULTS**

Lab ID: L0907025-01
Client ID: HA-F6(OW)-06012009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8270C
Analytical Date: 06/06/09 13:06
Analyst: ND

Date Collected: 06/01/09 14:00
Date Received: 06/01/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/05/09 07:20

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab					
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	10	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1
Azobenzene	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
Isophorone	ND		ug/l	5.0	1
Nitrobenzene	ND		ug/l	5.0	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
Dibenzofuran	ND		ug/l	5.0	1
Acetophenone	ND		ug/l	20	1
2,4,6-Trichlorophenol	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	5.0	1
2-Nitrophenol	ND		ug/l	20	1
4-Nitrophenol	ND		ug/l	10	1

Project Name: YARD'S END SRH**Lab Number:** L0907025**Project Number:** 31502-050**Report Date:** 06/08/09**SAMPLE RESULTS****Lab ID:** L0907025-01**Date Collected:** 06/01/09 14:00**Client ID:** HA-F6(OW)-06012009**Date Received:** 06/01/09**Sample Location:** Not Specified**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab					
2,4-Dinitrophenol	ND		ug/l	30	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	26		15-110
Phenol-d6	19		15-110
Nitrobenzene-d5	67		30-130
2-Fluorobiphenyl	69		30-130
2,4,6-Tribromophenol	81		15-110
4-Terphenyl-d14	89		30-130

Project Name: YARD'S END SRH**Lab Number:** L0907025**Project Number:** 31502-050**Report Date:** 06/08/09**SAMPLE RESULTS**

Lab ID: L0907025-01
Client ID: HA-F6(OW)-06012009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8270C-SIM
Analytical Date: 06/06/09 14:54
Analyst: ND

Date Collected: 06/01/09 14:00
Date Received: 06/01/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/05/09 07:49

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics by SIM - Westborough Lab					
Acenaphthene	ND		ug/l	0.20	1
2-Chloronaphthalene	ND		ug/l	0.20	1
Fluoranthene	0.30		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	0.20		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: YARD'S END SRH**Lab Number:** L0907025**Project Number:** 31502-050**Report Date:** 06/08/09**SAMPLE RESULTS**

Lab ID: L0907025-01

Date Collected: 06/01/09 14:00

Client ID: HA-F6(OW)-06012009

Date Received: 06/01/09

Sample Location: Not Specified

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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MCP Semivolatile Organics by SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	22		15-110
Phenol-d6	21		15-110
Nitrobenzene-d5	69		30-130
2-Fluorobiphenyl	58		30-130
2,4,6-Tribromophenol	71		15-110
4-Terphenyl-d14	74		30-130

Project Name: YARD'S END SRH

Lab Number: L0907025

Project Number: 31502-050

Report Date: 06/08/09

Method Blank Analysis Batch Quality Control

Analytical Method: 64,8270C
 Analytical Date: 06/05/09 21:04
 Analyst: ND

Extraction Method: EPA 3510C
 Extraction Date: 06/05/09 07:20

Parameter	Result	Qualifier	Units	RDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01 Batch: WG365387-1				
Acenaphthene	ND		ug/l	5.0
1,2,4-Trichlorobenzene	ND		ug/l	5.0
Hexachlorobenzene	ND		ug/l	5.0
Bis(2-chloroethyl)ether	ND		ug/l	5.0
2-Chloronaphthalene	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	10
2,4-Dinitrotoluene	ND		ug/l	5.0
2,6-Dinitrotoluene	ND		ug/l	5.0
Azobenzene	ND		ug/l	5.0
Fluoranthene	ND		ug/l	5.0
4-Bromophenyl phenyl ether	ND		ug/l	5.0
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0
Bis(2-chloroethoxy)methane	ND		ug/l	5.0
Hexachlorobutadiene	ND		ug/l	10
Hexachloroethane	ND		ug/l	5.0
Isophorone	ND		ug/l	5.0
Naphthalene	ND		ug/l	5.0
Nitrobenzene	ND		ug/l	5.0
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
Benzo(a)anthracene	ND		ug/l	5.0
Benzo(a)pyrene	ND		ug/l	5.0
Benzo(b)fluoranthene	ND		ug/l	5.0
Benzo(k)fluoranthene	ND		ug/l	5.0

Project Name: YARD'S END SRH

Lab Number: L0907025

Project Number: 31502-050

Report Date: 06/08/09

Method Blank Analysis Batch Quality Control

Analytical Method: 64,8270C
 Analytical Date: 06/05/09 21:04
 Analyst: ND

Extraction Method: EPA 3510C
 Extraction Date: 06/05/09 07:20

Parameter	Result	Qualifier	Units	RDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01 Batch: WG365387-1				
Chrysene	ND		ug/l	5.0
Acenaphthylene	ND		ug/l	5.0
Anthracene	ND		ug/l	5.0
Benzo(ghi)perylene	ND		ug/l	5.0
Fluorene	ND		ug/l	5.0
Phenanthrene	ND		ug/l	5.0
Dibenzo(a,h)anthracene	ND		ug/l	5.0
Indeno(1,2,3-cd)Pyrene	ND		ug/l	5.0
Pyrene	ND		ug/l	5.0
Aniline	ND		ug/l	20
4-Chloroaniline	ND		ug/l	5.0
Dibenzofuran	ND		ug/l	5.0
2-Methylnaphthalene	ND		ug/l	5.0
Acetophenone	ND		ug/l	20
2,4,6-Trichlorophenol	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	5.0
2-Nitrophenol	ND		ug/l	20
4-Nitrophenol	ND		ug/l	10
2,4-Dinitrophenol	ND		ug/l	30
Pentachlorophenol	ND		ug/l	10
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

Project Name: YARD'S END SRH

Lab Number: L0907025

Project Number: 31502-050

Report Date: 06/08/09

Method Blank Analysis Batch Quality Control

Analytical Method: 64,8270C
 Analytical Date: 06/05/09 21:04
 Analyst: ND

Extraction Method: EPA 3510C
 Extraction Date: 06/05/09 07:20

Parameter	Result	Qualifier	Units	RDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01 Batch: WG365387-1				

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		15-110
Phenol-d6	26		15-110
Nitrobenzene-d5	63		30-130
2-Fluorobiphenyl	56		30-130
2,4,6-Tribromophenol	63		15-110
4-Terphenyl-d14	72		30-130

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907025
Report Date: 06/08/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 64,8270C-SIM
Analytical Date: 06/05/09 22:55
Analyst: ND

Extraction Method: EPA 3510C
Extraction Date: 06/05/09 07:49

Parameter	Result	Qualifier	Units	RDL
MCP Semivolatile Organics by SIM - Westborough Lab for sample(s): 01 Batch: WG365395-1				
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
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: YARD'S END SRH**Lab Number:** L0907025**Project Number:** 31502-050**Report Date:** 06/08/09**Method Blank Analysis**
Batch Quality Control**Analytical Method:** 64,8270C-SIM**Extraction Method:** EPA 3510C**Analytical Date:** 06/05/09 22:55**Extraction Date:** 06/05/09 07:49**Analyst:** ND

Parameter	Result	Qualifier	Units	RDL
MCP Semivolatile Organics by SIM - Westborough Lab for sample(s): 01 Batch: WG365395-1				

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		15-110
Phenol-d6	31		15-110
Nitrobenzene-d5	68		30-130
2-Fluorobiphenyl	55		30-130
2,4,6-Tribromophenol	66		15-110
4-Terphenyl-d14	81		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907025

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG365387-2 WG365387-3					
Acenaphthene	66	80	40-140	19	20
1,2,4-Trichlorobenzene	47	54	40-140	14	20
Hexachlorobenzene	87	92	40-140	6	20
Bis(2-chloroethyl)ether	68	76	40-140	11	20
2-Chloronaphthalene	71	82	40-140	14	20
1,2-Dichlorobenzene	45	54	40-140	18	20
1,3-Dichlorobenzene	41	51	40-140	22	20
1,4-Dichlorobenzene	42	51	40-140	19	20
3,3'-Dichlorobenzidine	98	93	40-140	5	20
2,4-Dinitrotoluene	92	99	40-140	7	20
2,6-Dinitrotoluene	88	95	40-140	8	20
Azobenzene	78	90	40-140	14	20
Fluoranthene	96	101	40-140	5	20
4-Bromophenyl phenyl ether	78	88	40-140	12	20
Bis(2-chloroisopropyl)ether	72	79	40-140	9	20
Bis(2-chloroethoxy)methane	70	78	40-140	11	20
Hexachlorobutadiene	40	46	40-140	14	20
Hexachloroethane	38	46	40-140	19	20
Isophorone	72	81	40-140	12	20
Naphthalene	60	68	40-140	13	20
Nitrobenzene	74	84	40-140	13	20

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907025

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG365387-2 WG365387-3					
Bis(2-Ethylhexyl)phthalate	103	106	40-140	3	20
Butyl benzyl phthalate	101	105	40-140	4	20
Di-n-butylphthalate	102	106	40-140	4	20
Di-n-octylphthalate	98	103	40-140	5	20
Diethyl phthalate	90	94	40-140	4	20
Dimethyl phthalate	83	91	40-140	9	20
Benzo(a)anthracene	96	100	40-140	4	20
Benzo(a)pyrene	81	87	40-140	7	20
Benzo(b)fluoranthene	92	98	40-140	6	20
Benzo(k)fluoranthene	99	105	40-140	6	20
Chrysene	88	93	40-140	6	20
Acenaphthylene	70	82	40-140	16	20
Anthracene	90	99	40-140	10	20
Benzo(ghi)perylene	89	99	40-140	11	20
Fluorene	75	87	40-140	15	20
Phenanthrene	86	94	40-140	9	20
Dibenzo(a,h)anthracene	94	103	40-140	9	20
Indeno(1,2,3-cd)Pyrene	93	102	40-140	9	20
Pyrene	89	94	40-140	5	20
Aniline	58	62	40-140	7	20
4-Chloroaniline	75	80	40-140	6	20

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907025

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG365387-2 WG365387-3					
Dibenzofuran	70	83	40-140	17	20
2-Methylnaphthalene	60	70	40-140	15	20
Acetophenone	150	167	40-140	11	20
2,4,6-Trichlorophenol	94	93	30-130	1	20
2-Chlorophenol	70	75	30-130	7	20
2,4-Dichlorophenol	77	88	30-130	13	20
2,4-Dimethylphenol	71	82	30-130	14	20
2-Nitrophenol	74	82	30-130	10	20
4-Nitrophenol	37	51	30-130	32	20
2,4-Dinitrophenol	15	36	30-130	82	20
Pentachlorophenol	26	74	30-130	96	20
Phenol	39	42	30-130	7	20
2-Methylphenol	66	72	30-130	9	20
3-Methylphenol/4-Methylphenol	60	67	30-130	11	20
2,4,5-Trichlorophenol	93	94	30-130	1	20

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Lab Number: L0907025

Project Number: 31502-050

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
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MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG365387-2 WG365387-3

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		53		15-110
Phenol-d6	35		37		15-110
Nitrobenzene-d5	75		80		30-130
2-Fluorobiphenyl	72		79		30-130
2,4,6-Tribromophenol	92		105		15-110
4-Terphenyl-d14	94		95		30-130

MCP Semivolatile Organics by SIM - Westborough Lab Associated sample(s): 01 Batch: WG365395-2 WG365395-3

Acenaphthene	49	53	40-140	8	20
2-Chloronaphthalene	66	67	40-140	2	20
Fluoranthene	78	80	40-140	3	20
Hexachlorobutadiene	30	31	40-140	3	20
Naphthalene	42	44	40-140	5	20
Benzo(a)anthracene	76	81	40-140	6	20
Benzo(a)pyrene	70	74	40-140	6	20
Benzo(b)fluoranthene	90	98	40-140	9	20
Benzo(k)fluoranthene	77	85	40-140	10	20

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907025

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Semivolatile Organics by SIM - Westborough Lab Associated sample(s): 01 Batch: WG365395-2 WG365395-3					
Chrysene	87	89	40-140	2	20
Acenaphthylene	57	57	40-140	0	20
Anthracene	69	73	40-140	6	20
Benzo(ghi)perylene	84	76	40-140	10	20
Fluorene	57	59	40-140	3	20
Phenanthrene	66	72	40-140	9	20
Dibenzo(a,h)anthracene	93	85	40-140	9	20
Indeno(1,2,3-cd)Pyrene	86	79	40-140	8	20
Pyrene	78	81	40-140	4	20
2-Methylnaphthalene	44	44	40-140	0	20
Pentachlorophenol	30	21	30-130	35	20
Hexachlorobenzene	62	71	40-140	14	20
Hexachloroethane	31	33	40-140	6	20

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
2-Fluorophenol	37	38	15-110
Phenol-d6	24	28	15-110
Nitrobenzene-d5	60	66	30-130
2-Fluorobiphenyl	54	56	30-130
2,4,6-Tribromophenol	74	73	15-110
4-Terphenyl-d14	74	80	30-130

PETROLEUM HYDROCARBONS

Project Name: YARD'S END SRH**Lab Number:** L0907025**Project Number:** 31502-050**Report Date:** 06/08/09**SAMPLE RESULTS**

Lab ID: L0907025-01
Client ID: HA-F6(OW)-06012009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 59, VPH-04-1.1
Analytical Date: 06/02/09 18:07
Analyst: RC

Date Collected: 06/01/09 14:00
Date Received: 06/01/09
Field Prep: See Narrative

Quality Control Information

Condition of sample received: Satisfactory
Aqueous Preservative: Laboratory Provided Preserved Container
Sample Temperature upon receipt: Received on Ice

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Volatile Petroleum Hydrocarbons - Westborough Lab

C5-C8 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C10 Aromatics	ND		ug/l	50.0	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	84		70-130
2,5-Dibromotoluene-FID	85		70-130

Project Name: YARD'S END SRH**Lab Number:** L0907025**Project Number:** 31502-050**Report Date:** 06/08/09**SAMPLE RESULTS**

Lab ID: L0907025-01
Client ID: HA-F6(OW)-06012009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 61,EPH-04-1
Analytical Date: 06/04/09 19:57
Analyst: AS

Date Collected: 06/01/09 14:00
Date Received: 06/01/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/03/09 04:40
Cleanup Method1: EPH-04-1
Cleanup Date1: 06/04/09

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

C9-C18 Aliphatics	ND		ug/l	100	1
C19-C36 Aliphatics	ND		ug/l	100	1
C11-C22 Aromatics, Unadjusted	ND		ug/l	100	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	74		40-140
o-Terphenyl	102		40-140
2-Fluorobiphenyl	100		40-140
2-Bromonaphthalene	100		40-140

Project Name: YARD'S END SRH

Lab Number: L0907025

Project Number: 31502-050

Report Date: 06/08/09

Method Blank Analysis Batch Quality Control

Analytical Method: 59, VPH-04-1.1

Analytical Date: 06/02/09 13:11

Analyst: RC

Parameter	Result	Qualifier	Units	RDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 01 Batch: WG364784-3				
C5-C8 Aliphatics, Unadjusted	ND		ug/l	50.0
C9-C12 Aliphatics, Unadjusted	ND		ug/l	50.0
C9-C10 Aromatics	ND		ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	81		70-130
2,5-Dibromotoluene-FID	82		70-130

Project Name: YARD'S END SRH

Lab Number: L0907025

Project Number: 31502-050

Report Date: 06/08/09

Method Blank Analysis Batch Quality Control

Analytical Method: 61,EPH-04-1
 Analytical Date: 06/04/09 11:14
 Analyst: AS

Extraction Method: EPA 3510C
 Extraction Date: 06/03/09 04:40
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 06/04/09

Parameter	Result	Qualifier	Units	RDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 01 Batch: WG364960-1				
C9-C18 Aliphatics	ND		ug/l	100
C19-C36 Aliphatics	ND		ug/l	100
C11-C22 Aromatics, Unadjusted	ND		ug/l	100
C11-C22 Aromatics, Adjusted	ND		ug/l	100

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	74		40-140
o-Terphenyl	92		40-140
2-Fluorobiphenyl	88		40-140
2-Bromonaphthalene	89		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907025

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01 Batch: WG364784-1 WG364784-2					
C5-C8 Aliphatics	94	98	70-130	3	25
C9-C12 Aliphatics	93	96	70-130	3	25
C9-C10 Aromatics	97	99	70-130	2	25
Benzene	93	97	70-130	3	25
Toluene	94	97	70-130	3	25
Ethylbenzene	95	98	70-130	3	25
p/m-Xylene	97	99	70-130	2	25
o-Xylene	96	98	70-130	2	25
Methyl tert butyl ether	88	91	70-130	3	25
Naphthalene	99	99	70-130	0	25
1,2,4-Trimethylbenzene	97	99	70-130	2	25
Pentane	84	91	70-130	8	25
2-Methylpentane	95	98	70-130	3	25
2,2,4-Trimethylpentane	102	106	70-130	4	25
n-Nonane	108	111	30-130	3	25
n-Decane	109	111	70-130	2	25
n-Butylcyclohexane	106	109	70-130	3	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Lab Number: L0907025

Project Number: 31502-050

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
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Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01 Batch: WG364784-1 WG364784-2

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	97		99		70-130
2,5-Dibromotoluene-FID	98		100		70-130

Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01 Batch: WG364960-2 WG364960-3

C9-C18 Aliphatics	61	47	40-140	26	25
C19-C36 Aliphatics	86	66	40-140	26	25
C11-C22 Aromatics	99	78	40-140	24	25
Naphthalene	77	59	40-140	26	25
2-Methylnaphthalene	83	63	40-140	27	25
Acenaphthylene	85	67	40-140	24	25
Acenaphthene	84	67	40-140	23	25
Fluorene	90	73	40-140	21	25
Phenanthrene	106	84	40-140	23	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907025

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01 Batch: WG364960-2 WG364960-3					
Anthracene	104	81	40-140	25	25
Fluoranthene	107	84	40-140	24	25
Pyrene	108	85	40-140	24	25
Benzo(a)anthracene	104	82	40-140	24	25
Chrysene	104	82	40-140	24	25
Benzo(b)fluoranthene	101	79	40-140	24	25
Benzo(k)fluoranthene	100	78	40-140	25	25
Benzo(a)pyrene	98	76	40-140	25	25
Indeno(1,2,3-cd)Pyrene	97	75	40-140	26	25
Dibenzo(a,h)anthracene	96	74	40-140	26	25
Benzo(ghi)perylene	95	74	40-140	25	25
Nonane (C9)	43	33	30-140	26	25
Decane (C10)	50	38	40-140	27	25
Dodecane (C12)	61	46	40-140	28	25
Tetradecane (C14)	73	55	40-140	28	25
Hexadecane (C16)	76	59	40-140	25	25
Octadecane (C18)	80	61	40-140	27	25
Nonadecane (C19)	84	63	40-140	29	25
Eicosane (C20)	86	64	40-140	29	25
Docosane (C22)	88	67	40-140	27	25
Tetracosane (C24)	89	68	40-140	27	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Lab Number: L0907025

Project Number: 31502-050

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01 Batch: WG364960-2 WG364960-3					
Hexacosane (C26)	88	68	40-140	26	25
Octacosane (C28)	85	66	40-140	25	25
Triacontane (C30)	88	68	40-140	26	25
Hexatriacontane (C36)	87	67	40-140	26	25

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
Chloro-Octadecane	85	65	40-140
o-Terphenyl	115	103	40-140
2-Fluorobiphenyl	84	85	40-140
2-Bromonaphthalene	85	89	40-140
% Naphthalene Breakthrough	0	0	
% 2-Methylnaphthalene Breakthrough	0	0	

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907025
Report Date: 06/08/09

Fractionation Check Standard Quality Control

Fractionation check standard for 200818205

Parameter	% Recovery	QC Criteria
C9-C18 Aliphatics	77	40-140
C19-C36 Aliphatics	76	40-140
C11-C22 Aromatics	86	40-140
Naphthalene	82	40-140
2-Methylnaphthalene	78	40-140
Acenaphthylene	76	40-140
Acenaphthene	80	40-140
Fluorene	79	40-140
Phenanthrene	78	40-140
Anthracene	82	40-140
Fluoranthene	84	40-140
Pyrene	84	40-140
Benzo(a)anthracene	82	40-140
Chrysene	88	40-140
Benzo(b)fluoranthene	81	40-140
Benzo(k)fluoranthene	97	40-140
Benzo(a)pyrene	78	40-140
Indeno(1,2,3-cd)Pyrene	76	40-140
Dibenzo(a,h)anthracene	83	40-140
Benzo(g,h,i)perylene	82	40-140
Nonane	72	30-140
Decane	77	40-140
Dodecane	80	40-140
Tetradecane	76	40-140
Hexadecane	78	40-140
Octadecane	76	40-140
Nonadecane	75	40-140
Eicosane	77	40-140
Docosane	79	40-140
Tetracosane	83	40-140
Hexacosane	78	40-140
Octacosane	77	40-140
triacontane	76	40-140
Hexatriacontane	75	40-140
% Naphthalene Breakthrough	0	0-5
% 2-Methylnaphthalene Breakthrough	0	0-5

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907025
Report Date: 06/08/09

**Fractionation Check Standard
Quality Control**

Fractionation check standard for 200818205

Surrogate	% Recovery	QC Criteria
Chloro-Octadecane	66	40-140
o-Terphenyl	83	40-140
2-Fluorobiphenyl	75	40-140
2-Bromonaphthalene	76	40-140

PCBS

Project Name: YARD'S END SRH**Lab Number:** L0907025**Project Number:** 31502-050**Report Date:** 06/08/09**SAMPLE RESULTS**

Lab ID: L0907025-01
Client ID: HA-F6(OW)-06012009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8082
Analytical Date: 06/07/09 15:17
Analyst: JB

Date Collected: 06/01/09 14:00
Date Received: 06/01/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/05/09 13:36
Cleanup Method1: EPA 3665A
Cleanup Date1: 06/07/09

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab					
Aroclor 1016	ND		ug/l	0.205	1
Aroclor 1221	ND		ug/l	0.205	1
Aroclor 1232	ND		ug/l	0.205	1
Aroclor 1242	ND		ug/l	0.205	1
Aroclor 1248	ND		ug/l	0.205	1
Aroclor 1254	ND		ug/l	0.205	1
Aroclor 1260	ND		ug/l	0.205	1
Aroclor 1262	ND		ug/l	0.205	1
Aroclor 1268	ND		ug/l	0.205	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907025
Report Date: 06/08/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 64,8082
Analytical Date: 06/07/09 13:39
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 06/05/09 13:36
Cleanup Method1: EPA 3665A
Cleanup Date1: 06/07/09

Parameter	Result	Qualifier	Units	RDL
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01 Batch: WG365446-1				
Aroclor 1016	ND		ug/l	0.167
Aroclor 1221	ND		ug/l	0.167
Aroclor 1232	ND		ug/l	0.167
Aroclor 1242	ND		ug/l	0.167
Aroclor 1248	ND		ug/l	0.167
Aroclor 1254	ND		ug/l	0.167
Aroclor 1260	ND		ug/l	0.167
Aroclor 1262	ND		ug/l	0.167
Aroclor 1268	ND		ug/l	0.167

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	72		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Lab Number: L0907025

Project Number: 31502-050

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01 Batch: WG365446-2 WG365446-3					
Aroclor 1016	104	128	40-140	21	20
Aroclor 1260	107	130	40-140	19	20

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		91		30-150	A
Decachlorobiphenyl	110		137		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		91		30-150	B
Decachlorobiphenyl	99		125		30-150	B

METALS

Project Name: YARD'S END SRH**Lab Number:** L0907025**Project Number:** 31502-050**Report Date:** 06/08/09**SAMPLE RESULTS**

Lab ID: L0907025-01
 Client ID: HA-F6(OW)-06012009
 Sample Location: Not Specified
 Matrix: Water

Date Collected: 06/01/09 14:00
 Date Received: 06/01/09
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Antimony, Dissolved	ND		mg/l	0.0020	4	06/03/09 10:55	06/04/09 19:40	EPA 3005A	64,6020A	BM
Arsenic, Dissolved	ND		mg/l	0.005	1	06/02/09 10:25	06/05/09 21:57	EPA 3005A	60,6010B	MG
Barium, Dissolved	0.044		mg/l	0.010	1	06/02/09 10:25	06/05/09 21:57	EPA 3005A	60,6010B	MG
Beryllium, Dissolved	ND		mg/l	0.004	1	06/02/09 10:25	06/05/09 21:57	EPA 3005A	60,6010B	MG
Cadmium, Dissolved	ND		mg/l	0.004	1	06/02/09 10:25	06/05/09 21:57	EPA 3005A	60,6010B	MG
Chromium, Dissolved	ND		mg/l	0.01	1	06/02/09 10:25	06/05/09 21:57	EPA 3005A	60,6010B	MG
Lead, Dissolved	ND		mg/l	0.010	1	06/02/09 10:25	06/05/09 21:57	EPA 3005A	60,6010B	MG
Mercury, Dissolved	ND		mg/l	0.0002	1	06/03/09 16:15	06/04/09 11:42	EPA 7470A	64,7470A	EZ
Nickel, Dissolved	ND		mg/l	0.025	1	06/02/09 10:25	06/05/09 21:57	EPA 3005A	60,6010B	MG
Selenium, Dissolved	ND		mg/l	0.010	1	06/02/09 10:25	06/04/09 20:49	EPA 3005A	60,6010B	AI
Silver, Dissolved	ND		mg/l	0.007	1	06/02/09 10:25	06/05/09 21:57	EPA 3005A	60,6010B	MG
Thallium, Dissolved	ND		mg/l	0.0020	4	06/03/09 10:55	06/04/09 19:40	EPA 3005A	64,6020A	BM
Vanadium, Dissolved	ND		mg/l	0.010	1	06/02/09 10:25	06/05/09 21:57	EPA 3005A	60,6010B	MG
Zinc, Dissolved	ND		mg/l	0.050	1	06/02/09 10:25	06/05/09 21:57	EPA 3005A	60,6010B	MG



Project Name: YARD'S END SRH

Lab Number: L0907025

Project Number: 31502-050

Report Date: 06/08/09

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG364834-1								
Arsenic, Dissolved	ND	mg/l	0.005	1	06/02/09 10:25	06/05/09 21:45	60,6010B	MG
Barium, Dissolved	ND	mg/l	0.010	1	06/02/09 10:25	06/05/09 21:45	60,6010B	MG
Beryllium, Dissolved	ND	mg/l	0.004	1	06/02/09 10:25	06/05/09 21:45	60,6010B	MG
Cadmium, Dissolved	ND	mg/l	0.004	1	06/02/09 10:25	06/05/09 21:45	60,6010B	MG
Chromium, Dissolved	ND	mg/l	0.01	1	06/02/09 10:25	06/05/09 21:45	60,6010B	MG
Lead, Dissolved	ND	mg/l	0.010	1	06/02/09 10:25	06/05/09 21:45	60,6010B	MG
Nickel, Dissolved	ND	mg/l	0.025	1	06/02/09 10:25	06/05/09 21:45	60,6010B	MG
Selenium, Dissolved	ND	mg/l	0.010	1	06/02/09 10:25	06/04/09 20:36	60,6010B	AI
Silver, Dissolved	ND	mg/l	0.007	1	06/02/09 10:25	06/05/09 21:45	60,6010B	MG
Vanadium, Dissolved	ND	mg/l	0.010	1	06/02/09 10:25	06/05/09 21:45	60,6010B	MG
Zinc, Dissolved	ND	mg/l	0.050	1	06/02/09 10:25	06/05/09 21:45	60,6010B	MG

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG365073-1								
Antimony, Dissolved	ND	mg/l	0.0005	1	06/03/09 10:55	06/04/09 19:17	64,6020A	BM
Thallium, Dissolved	ND	mg/l	0.0005	1	06/03/09 10:55	06/04/09 19:17	64,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG365074-1								
Mercury, Dissolved	ND	mg/l	0.0002	1	06/03/09 16:15	06/04/09 11:26	64,7470A	EZ

Project Name: YARD'S END SRH

Lab Number: L0907025

Project Number: 31502-050

Report Date: 06/08/09

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END SRH

Project Number: 31502-050

Lab Number: L0907025

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG364834-2 WG364834-3					
Arsenic, Dissolved	115	114	80-120	1	20
Barium, Dissolved	106	107	80-120	1	20
Beryllium, Dissolved	116	118	80-120	2	20
Cadmium, Dissolved	116	118	80-120	2	20
Chromium, Dissolved	110	115	80-120	4	20
Lead, Dissolved	106	109	80-120	3	20
Nickel, Dissolved	109	111	80-120	2	20
Selenium, Dissolved	108	110	80-120	2	20
Silver, Dissolved	113	114	80-120	1	20
Vanadium, Dissolved	111	113	80-120	2	20
Zinc, Dissolved	114	116	80-120	2	20
MCP Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG365073-2 WG365073-3					
Antimony, Dissolved	100	101	80-120	1	20
Thallium, Dissolved	99	99	80-120	0	20
MCP Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG365074-2 WG365074-3					
Mercury, Dissolved	112	108	80-120	2	20

Project Name: YARD'S END SRH

Lab Number: L0907025

Project Number: 31502-050

Report Date: 06/08/09

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	Pres	Seal	Analysis
L0907025-01A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-04(14)
L0907025-01B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-04(14)
L0907025-01C	Vial HCl preserved	A	N/A	2	Y	Absent	VPH-04(14)
L0907025-01D	Vial HCl preserved	A	N/A	2	Y	Absent	VPH-04(14)
L0907025-01E	Amber 1000ml HCl preserved	A	<2	2	Y	Absent	EPH-04(14)
L0907025-01F	Amber 1000ml HCl preserved	A	<2	2	Y	Absent	EPH-04(14)
L0907025-01G	Amber 1000ml unpreserved	A	7	2	Y	Absent	MCP-8270-04(7),MCP-8270SIM-04(7)
L0907025-01H	Amber 1000ml unpreserved	A	7	2	Y	Absent	MCP-8270-04(7),MCP-8270SIM-04(7)
L0907025-01I	Amber 1000ml unpreserved	A	7	2	Y	Absent	MCP-8082-04(7)
L0907025-01J	Amber 1000ml unpreserved	A	7	2	Y	Absent	MCP-8082-04(7)
L0907025-01K	Plastic 500ml HNO3 preserved	A	<2	2	Y	Absent	MCP-AG-6010S(180),MCP-BA-6010S(180),MCP-SB-6020S(180),MCP-SE-6010S(180),MCP-BE-6010S(180),MCP-NI-6010S(180),MCP-CD-6010S(180),MCP-TL-6020S(180),MCP-7470S(28),MCP-CR-6010S(180),MCP-PB-6010S(180),MCP-ZN-6010S(180),MCP-AS-6010S(180),MCP-V-6010S(180)
L0907025-02A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-04(14)

*Hold days indicated by values in parentheses

Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907025
Report Date: 06/08/09

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.
ND	- Not detected at the reported detection limit for the sample.
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

*	- The batch duplicate RPD exceeds the acceptance criteria. This flag is not applicable when the sample concentrations are less than 5x the RDL. (Metals only.)
A	- Spectra identified as "Aldol Condensation Product".
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.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
N	- The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
J	- Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report



Project Name: YARD'S END SRH
Project Number: 31502-050

Lab Number: L0907025
Report Date: 06/08/09

REFERENCES

- 59 Method for the Determination of Volatile Petroleum Hydrocarbons (VPH). Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004, Revision 1.1.
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.
- 61 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH). Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004, Revision 1.1.
- 64 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). August 2004.

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 February 18, 2009 - 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.

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.)

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), 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: MA0086.

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 150.1, 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, Nitrite-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, EPA 150.1, SM4500H-B.

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

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), SM6251B, 314.0.

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,Tl,Ti,V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Nitrate-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, 4500CN-CE, 2540D, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1

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

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCB-Water) 600/4-81-045-PCB-Oil

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.*Drinking Water*

Microbiology Parameters: SM9215B; MF-SM9222B; ENZ. SUB. SM9223; EC-SM9221E; MF-SM9222D; ENZ. SUB. SM9223;

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

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 110.2, 120.1, 150.1, 300.0, 325.2, 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, 150.1, 300.0, 305.1, 310.1, 325.2, 340.2, 350.1, 350.2, 351.1, 353.2, 354.1, 365.2, 375.4, 376.2, 405.1, 415.1, 420.1, 425.1, 1664A, SW-846 9010, 9030, 9040B, EPA 160.1, 160.2, 160.3, 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.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, 331.0, 110.2, SM2120B, 2510B, 5310C, EPA 150.1, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.1, SM5220D, 4500CI-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, EPA 350.2/1, 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.)

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, 3540C, 3545, 3550B, 3580A, 5035L, 5035H.)

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

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 8215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 331.0, SM2320B, EPA 300.0, 325.2, 110.2, SM2120B, 4500CN-E, 4500F-C, EPA 150.1, SM4500H-B, 4500NO₃-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, EPA 405.1, SM5210B, EPA 410.4, SM5220D, EPA 305.1, SM2310B-4a, EPA 310.1, SM2320B, EPA 200.7, 300.0, 325.2, LACHAT 10-117-07-1A or B, SM4500CI-E, EPA 340.2, SM4500F-C, EPA 375.4, SM15 426C, EPA 350.1, 350.2, 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-NO₃F, EPA 354.1, SM4500-NO₂-B, EPA 365.2, SM4500P-E, EPA 160.3, SM2540B, EPA 160.1, SM2540C, EPA 160.2, SM2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, 110.2, SM2120B, 335.2, LACHAT 10-204-00-1-A, EPA 150.1, 9040B, SM4500-HB, EPA 1664A, EPA 415.1, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, EPA 376.2, SM4500S-D, EPA 425.1, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, 8021B, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 3005A, 3050B, 3051, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 8021B, 3540C, 3545, 3580, 5030B, 5035.)

Analytical Services Protocol: CLP Volatile Organics, CLP Inorganics, CLP PCB/Pesticides.

Rhode Island Department of Health Certificate/Lab ID: LAO00065.

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

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

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. Registered Laboratory.

ALPHA Job #: LC907025**HALEY & ALDRICH**Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1400**CHAIN OF CUSTODY RECORD**Phone (617) 886-7400
Fax (617) 886-7600Page 1 of 1

H&A FILE NO.

31502-050

PROJECT NAME

YARD'S END SELF

LABORATORY ADDRESS CONTACT

Alpha
Woburn, MADELIVERY DATE
TURNAROUND TIME
PROJECT MANAGER6/1/09
5 PD
T. Butler

Sample No.

Date

Time

Depth

Type

Analysis Requested

Number of Containers

Comments
(special instructions, precautions, additional method numbers, etc.)

Laboratory to use applicable DEP CAM methods, unless otherwise directed.

① VOCs by 8260

② SVOC's

③ DMCP 14 METALS

④ EPA > C LAROCES only

⑤ VPH

⑥ PCB's

Sample and Relinquished by

Received by

LIQUID

TOTAL: 12

Sampling Comments

METALS FIELD FILTRALPrint Debra M. MillerPrint Debra M. MillerFirm HALEY & ALDRICHFirm HALEY & ALDRICHDate 6/1/09Time 1603Date 6/1/09Time 1603Date 6/1/09Time 1603

Relinquished by

Received by

LIQUID

TOTAL: 12

Sampling Comments

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LIQUID

TOTAL: 12

Sampling Comments

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TOTAL: 12

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LIQUID

TOTAL: 12

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TOTAL: 12

Sampling Comments

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LIQUID

TOTAL: 12

Sampling Comments

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Relinquished by

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LIQUID

TOTAL: 12

Sampling Comments

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ANALYTICAL REPORT

Lab Number: L0907022

Client: Haley & Aldrich, Inc.
465 Medford Street, Suite 2200
Charlestown, MA 02129-1400

ATTN: Todd Butler

Project Name: YARD'S END-SRH

Project Number: 31502-050

Report Date: 06/11/09

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.

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



Project Name: YARD'S END-SRH
Project Number: 31502-050

Lab Number: L0907022
Report Date: 06/11/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0907022-01	HA-C2(OW)-06012009	Not Specified	06/01/09 09:15
L0907022-02	HA-10(OW)-06012009	Not Specified	06/01/09 11:45
L0907022-03	TRIP BLANK	Not Specified	06/01/09 00:00

Project Name: YARD'S END-SRH
Project Number: 31502-050

Lab Number: L0907022
Report Date: 06/11/09

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.

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.

Sample Receipt

The client identifications were amended at the client's request.

The analysis of Dissolved Metals was performed at the client's request.

The samples were Field Filtered for Dissolved Metals only.

Volatile Organics

L0907022-01, -02, -03: The pH of the samples was less than two. It should be noted that 2-Chloroethylvinyl ether breaks down under acidic conditions.

Project Name: YARD'S END-SRH
Project Number: 31502-050

Lab Number: L0907022
Report Date: 06/11/09

Case Narrative (continued)

Semivolatile Organics

The WG365383-2 LCS recovery associated with L0907022-01 and -02 was below the acceptance criteria for 2,4-Dinitrophenol (15%); however, the criteria was achieved upon re-extraction outside of holding time. The results of both extractions are reported. In addition, the associated LCS/LCSD RPD is above the acceptance criteria for 2,4-Dinitrophenol (85%).

The WG365383-3 LCSD recovery associated with L0907022-01 and -02 was above the acceptance criteria for 2,4-Dinitrotoluene (99%); however, the associated samples were non-detect for this target compound.

Metals

L0907022-01 has elevated detection limits for all Total and Dissolved analytes by Method 6020 due to the dilutions required by the high concentrations of non-target analytes. The requested reporting limits were achieved.

L0907022-02 has elevated detection limits for all Total and Dissolved analytes by Method 6020, except Cadmium, due to the dilutions required by the high concentrations of non-target analytes. The requested reporting limits were achieved.

L0907022-02 has elevated detection limits for Total and Dissolved Cadmium due to the dilutions required by the high concentrations of non-target analytes. The requested reporting limits were not achieved.

The WG365504-4 MS recovery for Dissolved Iron (60%), associated with L0907022-01, is invalid because the sample concentration is greater than four times the spike amount added.

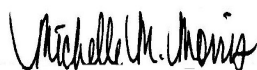
The WG364837-3 Laboratory Duplicate RPD associated with L0907022-01 is above the acceptance criteria for Total Zinc (23%); however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

Solids, Total Suspended

A laboratory duplicate could not be performed due to insufficient sample volume available for analysis.

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: 06/11/09

ORGANICS

VOLATILES

Project Name: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907022-01

Date Collected: 06/01/09 09:15

Client ID: HA-C2(OW)-06012009

Date Received: 06/01/09

Sample Location: Not Specified

Field Prep: See Narrative

Matrix: Water

Analytical Method: 14,504.1

Analytical Date: 06/08/09 15:02

Analyst: JB

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Pesticides by GC - Westborough Lab

1,2-Dibromoethane	ND		ug/l	0.021	1
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Project Name: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907022-01
Client ID: HA-C2(OW)-06012009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 5,624
Analytical Date: 06/03/09 17:29
Analyst: TT

Date Collected: 06/01/09 09:15
Date Received: 06/01/09
Field Prep: See Narrative

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

Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	1.5	1
Chloroform	ND		ug/l	1.5	1
Carbon tetrachloride	ND		ug/l	1.0	1
1,2-Dichloropropane	ND		ug/l	3.5	1
Dibromochloromethane	ND		ug/l	1.0	1
1,1,2-Trichloroethane	ND		ug/l	1.5	1
2-Chloroethylvinyl ether	ND		ug/l	10	1
Tetrachloroethene	7.2		ug/l	1.5	1
Chlorobenzene	ND		ug/l	3.5	1
Trichlorofluoromethane	ND		ug/l	5.0	1
1,2-Dichloroethane	ND		ug/l	1.5	1
1,1,1-Trichloroethane	ND		ug/l	2.0	1
Bromodichloromethane	ND		ug/l	1.0	1
trans-1,3-Dichloropropene	ND		ug/l	1.5	1
cis-1,3-Dichloropropene	ND		ug/l	1.5	1
Bromoform	ND		ug/l	1.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	1
Benzene	ND		ug/l	1.0	1
Toluene	ND		ug/l	1.0	1
Ethylbenzene	ND		ug/l	1.0	1
Chloromethane	ND		ug/l	10	1
Bromomethane	ND		ug/l	5.0	1
Vinyl chloride	ND		ug/l	2.0	1
Chloroethane	ND		ug/l	2.0	1
1,1-Dichloroethene	ND		ug/l	1.0	1
trans-1,2-Dichloroethene	ND		ug/l	1.5	1
cis-1,2-Dichloroethene	3.2		ug/l	1.0	1
Trichloroethene	1.0		ug/l	1.0	1
1,2-Dichlorobenzene	ND		ug/l	5.0	1

Project Name: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS****Lab ID:** L0907022-01**Date Collected:** 06/01/09 09:15**Client ID:** HA-C2(OW)-06012009**Date Received:** 06/01/09**Sample Location:** Not Specified**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,3-Dichlorobenzene	ND		ug/l	5.0	1
1,4-Dichlorobenzene	ND		ug/l	5.0	1
p/m-Xylene	ND		ug/l	2.0	1
o-xylene	ND		ug/l	1.0	1
Xylene (Total)	ND		ug/l	2.0	1
Styrene	ND		ug/l	1.0	1
Acetone	ND		ug/l	10	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	10	1
Vinyl acetate	ND		ug/l	20	1
4-Methyl-2-pentanone	ND		ug/l	10	1
2-Hexanone	ND		ug/l	10	1
Acrolein	ND		ug/l	8.0	1
Acrylonitrile	ND		ug/l	10	1
Methyl tert butyl ether	ND		ug/l	20	1
1,4-Dioxane	ND		ug/l	2000	1
Tert-Butyl Alcohol	ND		ug/l	100	1
Tertiary-Amyl Methyl Ether	ND		ug/l	20	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	100		80-120
Fluorobenzene	104		80-120
4-Bromofluorobenzene	103		80-120

Project Name: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907022-02
Client ID: HA-10(OW)-06012009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 14,504.1
Analytical Date: 06/08/09 14:50
Analyst: JB

Date Collected: 06/01/09 11:45
Date Received: 06/01/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Pesticides by GC - Westborough Lab					
1,2-Dibromoethane	ND		ug/l	0.019	1

Project Name: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907022-02
Client ID: HA-10(OW)-06012009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 5,624
Analytical Date: 06/03/09 18:03
Analyst: TT

Date Collected: 06/01/09 11:45
Date Received: 06/01/09
Field Prep: See Narrative

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

Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	1.5	1
Chloroform	ND		ug/l	1.5	1
Carbon tetrachloride	ND		ug/l	1.0	1
1,2-Dichloropropane	ND		ug/l	3.5	1
Dibromochloromethane	ND		ug/l	1.0	1
1,1,2-Trichloroethane	ND		ug/l	1.5	1
2-Chloroethylvinyl ether	ND		ug/l	10	1
Tetrachloroethene	ND		ug/l	1.5	1
Chlorobenzene	ND		ug/l	3.5	1
Trichlorofluoromethane	ND		ug/l	5.0	1
1,2-Dichloroethane	ND		ug/l	1.5	1
1,1,1-Trichloroethane	ND		ug/l	2.0	1
Bromodichloromethane	ND		ug/l	1.0	1
trans-1,3-Dichloropropene	ND		ug/l	1.5	1
cis-1,3-Dichloropropene	ND		ug/l	1.5	1
Bromoform	ND		ug/l	1.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	1
Benzene	ND		ug/l	1.0	1
Toluene	ND		ug/l	1.0	1
Ethylbenzene	ND		ug/l	1.0	1
Chloromethane	ND		ug/l	10	1
Bromomethane	ND		ug/l	5.0	1
Vinyl chloride	ND		ug/l	2.0	1
Chloroethane	ND		ug/l	2.0	1
1,1-Dichloroethene	ND		ug/l	1.0	1
trans-1,2-Dichloroethene	ND		ug/l	1.5	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	1
Trichloroethene	ND		ug/l	1.0	1
1,2-Dichlorobenzene	ND		ug/l	5.0	1

Project Name: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS****Lab ID:** L0907022-02**Date Collected:** 06/01/09 11:45**Client ID:** HA-10(OW)-06012009**Date Received:** 06/01/09**Sample Location:** Not Specified**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,3-Dichlorobenzene	ND		ug/l	5.0	1
1,4-Dichlorobenzene	ND		ug/l	5.0	1
p/m-Xylene	ND		ug/l	2.0	1
o-xylene	ND		ug/l	1.0	1
Xylene (Total)	ND		ug/l	2.0	1
Styrene	ND		ug/l	1.0	1
Acetone	ND		ug/l	10	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	10	1
Vinyl acetate	ND		ug/l	20	1
4-Methyl-2-pentanone	ND		ug/l	10	1
2-Hexanone	ND		ug/l	10	1
Acrolein	ND		ug/l	8.0	1
Acrylonitrile	ND		ug/l	10	1
Methyl tert butyl ether	ND		ug/l	20	1
1,4-Dioxane	ND		ug/l	2000	1
Tert-Butyl Alcohol	ND		ug/l	100	1
Tertiary-Amyl Methyl Ether	ND		ug/l	20	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	95		80-120
Fluorobenzene	99		80-120
4-Bromofluorobenzene	97		80-120

Project Name: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907022-03
Client ID: TRIP BLANK
Sample Location: Not Specified
Matrix: Water
Analytical Method: 14,504.1
Analytical Date: 06/08/09 15:14
Analyst: JB

Date Collected: 06/01/09 00:00
Date Received: 06/01/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Pesticides by GC - Westborough Lab

1,2-Dibromoethane	ND		ug/l	0.019	1
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Project Name: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907022-03
Client ID: TRIP BLANK
Sample Location: Not Specified
Matrix: Water
Analytical Method: 5,624
Analytical Date: 06/03/09 18:36
Analyst: TT

Date Collected: 06/01/09 00:00
Date Received: 06/01/09
Field Prep: Not Specified

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

Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	1.5	1
Chloroform	ND		ug/l	1.5	1
Carbon tetrachloride	ND		ug/l	1.0	1
1,2-Dichloropropane	ND		ug/l	3.5	1
Dibromochloromethane	ND		ug/l	1.0	1
1,1,2-Trichloroethane	ND		ug/l	1.5	1
2-Chloroethylvinyl ether	ND		ug/l	10	1
Tetrachloroethene	ND		ug/l	1.5	1
Chlorobenzene	ND		ug/l	3.5	1
Trichlorofluoromethane	ND		ug/l	5.0	1
1,2-Dichloroethane	ND		ug/l	1.5	1
1,1,1-Trichloroethane	ND		ug/l	2.0	1
Bromodichloromethane	ND		ug/l	1.0	1
trans-1,3-Dichloropropene	ND		ug/l	1.5	1
cis-1,3-Dichloropropene	ND		ug/l	1.5	1
Bromoform	ND		ug/l	1.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	1
Benzene	ND		ug/l	1.0	1
Toluene	ND		ug/l	1.0	1
Ethylbenzene	ND		ug/l	1.0	1
Chloromethane	ND		ug/l	10	1
Bromomethane	ND		ug/l	5.0	1
Vinyl chloride	ND		ug/l	2.0	1
Chloroethane	ND		ug/l	2.0	1
1,1-Dichloroethene	ND		ug/l	1.0	1
trans-1,2-Dichloroethene	ND		ug/l	1.5	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	1
Trichloroethene	ND		ug/l	1.0	1
1,2-Dichlorobenzene	ND		ug/l	5.0	1

Project Name: YARD'S END-SRH

Lab Number: L0907022

Project Number: 31502-050

Report Date: 06/11/09

SAMPLE RESULTS

Lab ID: L0907022-03

Date Collected: 06/01/09 00:00

Client ID: TRIP BLANK

Date Received: 06/01/09

Sample Location: Not Specified

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,3-Dichlorobenzene	ND		ug/l	5.0	1
1,4-Dichlorobenzene	ND		ug/l	5.0	1
p/m-Xylene	ND		ug/l	2.0	1
o-xylene	ND		ug/l	1.0	1
Xylene (Total)	ND		ug/l	2.0	1
Styrene	ND		ug/l	1.0	1
Acetone	ND		ug/l	10	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	10	1
Vinyl acetate	ND		ug/l	20	1
4-Methyl-2-pentanone	ND		ug/l	10	1
2-Hexanone	ND		ug/l	10	1
Acrolein	ND		ug/l	8.0	1
Acrylonitrile	ND		ug/l	10	1
Methyl tert butyl ether	ND		ug/l	20	1
1,4-Dioxane	ND		ug/l	2000	1
Tert-Butyl Alcohol	ND		ug/l	100	1
Tertiary-Amyl Methyl Ether	ND		ug/l	20	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	101		80-120
Fluorobenzene	104		80-120
4-Bromofluorobenzene	106		80-120

Project Name: YARD'S END-SRH

Lab Number: L0907022

Project Number: 31502-050

Report Date: 06/11/09

Method Blank Analysis Batch Quality Control

Analytical Method: 5,624
 Analytical Date: 06/03/09 14:07
 Analyst: TT

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG364149-6				
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: YARD'S END-SRH

Lab Number: L0907022

Project Number: 31502-050

Report Date: 06/11/09

Method Blank Analysis Batch Quality Control

Analytical Method: 5,624
 Analytical Date: 06/03/09 14:07
 Analyst: TT

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG364149-6				
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	98		80-120
Fluorobenzene	100		80-120
4-Bromofluorobenzene	100		80-120

Project Name: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**Method Blank Analysis**
Batch Quality Control

Analytical Method: 14,504.1

Analytical Date: 06/08/09 14:13

Analyst: JB

Parameter	Result	Qualifier	Units	RDL
Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG365783-1				
1,2-Dibromoethane	ND		ug/l	0.020

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END-SRH

Project Number: 31502-050

Lab Number: L0907022

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG364149-5					
Methylene chloride	101	-	1-221	-	30
1,1-Dichloroethane	97	-	59-155	-	30
Chloroform	94	-	51-138	-	30
Carbon tetrachloride	105	-	70-140	-	30
1,2-Dichloropropane	98	-	1-210	-	30
Dibromochloromethane	100	-	53-149	-	30
1,1,2-Trichloroethane	91	-	52-150	-	30
2-Chloroethylvinyl ether	80	-	1-305	-	30
Tetrachloroethene	92	-	64-148	-	30
Chlorobenzene	97	-	37-160	-	30
Trichlorofluoromethane	90	-	17-181	-	30
1,2-Dichloroethane	98	-	49-155	-	30
1,1,1-Trichloroethane	102	-	52-162	-	30
Bromodichloromethane	106	-	35-155	-	30
trans-1,3-Dichloropropene	96	-	17-183	-	30
cis-1,3-Dichloropropene	97	-	1-227	-	30
Bromoform	96	-	45-169	-	30
1,1,2,2-Tetrachloroethane	96	-	46-157	-	30
Benzene	97	-	37-151	-	30
Toluene	92	-	47-150	-	30
Ethylbenzene	96	-	37-162	-	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END-SRH

Project Number: 31502-050

Lab Number: L0907022

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG364149-5					
Chloromethane	105	-	1-273	-	30
Bromomethane	107	-	1-242	-	30
Vinyl chloride	86	-	1-251	-	30
Chloroethane	91	-	14-230	-	30
1,1-Dichloroethene	100	-	1-234	-	30
trans-1,2-Dichloroethene	100	-	54-156	-	30
cis-1,2-Dichloroethene	94	-	60-140	-	30
Trichloroethene	96	-	71-157	-	30
1,2-Dichlorobenzene	95	-	18-190	-	30
1,3-Dichlorobenzene	96	-	59-156	-	30
1,4-Dichlorobenzene	94	-	18-190	-	30
p/m-Xylene	97	-	40-160	-	30
o-Xylene	94	-	40-160	-	30
XYLENE (TOTAL)	96	-	40-160	-	30
Styrene	92	-	40-160	-	30
Acetone	114	-	40-160	-	30
Carbon disulfide	94	-	40-160	-	30
2-Butanone	100	-	40-160	-	30
Vinyl acetate	120	-	40-160	-	30
4-Methyl-2-pentanone	97	-	40-160	-	30
2-Hexanone	102	-	40-160	-	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END-SRH

Project Number: 31502-050

Lab Number: L0907022

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG364149-5					
Acrolein	114	-	40-160	-	30
Acrylonitrile	94	-	40-160	-	30

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	102				80-120
Fluorobenzene	103				80-120
4-Bromofluorobenzene	100				80-120

Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG365783-2					
1,2-Dibromoethane	115	-	70-130	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: YARD'S END-SRH

Project Number: 31502-050

Lab Number: L0907022

Report Date: 06/11/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG364149-3 QC Sample: L0906773-02 Client ID: MS Sample									
Methylene chloride	ND	200	180	90	-	-	1-221	-	30
1,1-Dichloroethane	ND	200	140	70	-	-	59-155	-	30
Chloroform	ND	200	180	93	-	-	51-138	-	30
Carbon tetrachloride	ND	200	200	101	-	-	70-140	-	30
1,2-Dichloropropane	ND	200	190	96	-	-	1-210	-	30
Dibromochloromethane	ND	200	210	105	-	-	53-149	-	30
1,1,2-Trichloroethane	ND	200	210	106	-	-	52-150	-	30
2-Chloroethylvinyl ether	ND	200	150	77	-	-	1-305	-	30
Tetrachloroethene	ND	200	220	109	-	-	64-148	-	30
Chlorobenzene	ND	200	220	113	-	-	37-160	-	30
Trichlorofluoromethane	ND	200	170	84	-	-	17-181	-	30
1,2-Dichloroethane	ND	200	180	91	-	-	49-155	-	30
1,1,1-Trichloroethane	ND	200	200	99	-	-	52-162	-	30
Bromodichloromethane	ND	200	200	100	-	-	35-155	-	30
trans-1,3-Dichloropropene	ND	200	190	97	-	-	17-183	-	30
cis-1,3-Dichloropropene	ND	200	200	99	-	-	1-227	-	30
Bromoform	ND	200	250	123	-	-	45-169	-	30
1,1,2,2-Tetrachloroethane	ND	200	230	115	-	-	46-157	-	30
Benzene	ND	200	190	97	-	-	35-151	-	30
Toluene	ND	200	220	111	-	-	47-150	-	30
Ethylbenzene	ND	200	260	131	-	-	37-162	-	30

Matrix Spike Analysis

Batch Quality Control

Project Name: YARD'S END-SRH

Project Number: 31502-050

Lab Number: L0907022

Report Date: 06/11/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG364149-3 QC Sample: L0906773-02 Client ID: MS Sample									
Chloromethane	ND	200	190	94	-	-	1-273	-	30
Bromomethane	ND	200	150	75	-	-	1-242	-	30
Vinyl chloride	ND	200	160	78	-	-	1-251	-	30
Chloroethane	ND	200	160	81	-	-	14-230	-	30
1,1-Dichloroethene	ND	200	190	95	-	-	1-234	-	30
trans-1,2-Dichloroethene	ND	200	180	88	-	-	54-156	-	30
cis-1,2-Dichloroethene	ND	200	170	85	-	-	60-140	-	30
Trichloroethene	ND	200	200	102	-	-	71-157	-	30
1,2-Dichlorobenzene	ND	200	240	122	-	-	18-190	-	30
1,3-Dichlorobenzene	ND	200	250	125	-	-	59-156	-	30
1,4-Dichlorobenzene	ND	200	250	124	-	-	18-190	-	30
p/m-Xylene	ND	400	500	125	-	-	40-160	-	30
o-Xylene	ND	200	280	138	-	-	40-160	-	30
XYLENE (TOTAL)	ND	600	780	129	-	-	40-160	-	30
Styrene	ND	200	260	132	-	-	40-160	-	30
Acetone	580	500	880	60	-	-	40-160	-	30
Carbon disulfide	ND	200	180	92	-	-	40-160	-	30
2-Butanone	370	500	720	69	-	-	40-160	-	30
Vinyl acetate	ND	400	200	50	-	-	40-160	-	30
4-Methyl-2-pentanone	ND	500	430	86	-	-	40-160	-	30
2-Hexanone	ND	500	490	97	-	-	40-160	-	30

Matrix Spike Analysis

Batch Quality Control

Project Name: YARD'S END-SRH
Project Number: 31502-050

Lab Number: L0907022
Report Date: 06/11/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG364149-3 QC Sample: L0906773-02 Client ID: MS Sample									
Acrolein	ND	400	260	65	-	-	40-160	-	30
Acrylonitrile	ND	400	300	75	-	-	40-160	-	30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
4-Bromofluorobenzene	109				80-120
Fluorobenzene	96				80-120
Pentafluorobenzene	96				80-120

Pesticides by GC - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG365783-3 QC Sample: L0907022-02 Client ID: HA-10(OW)-06012009

1,2-Dibromoethane	ND	0.241	0.269	112	-	-	70-130	-	20
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Lab Duplicate Analysis Batch Quality Control

Project Name: YARD'S END-SRH

Project Number: 31502-050

Lab Number: L0907022

Report Date: 06/11/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG364149-4 QC Sample: L0906773-02 Client ID: DUP Sample					
Methylene chloride	ND	ND	ug/l	NC	30
1,1-Dichloroethane	ND	ND	ug/l	NC	30
Chloroform	ND	ND	ug/l	NC	30
Carbon tetrachloride	ND	ND	ug/l	NC	30
1,2-Dichloropropane	ND	ND	ug/l	NC	30
Dibromochloromethane	ND	ND	ug/l	NC	30
1,1,2-Trichloroethane	ND	ND	ug/l	NC	30
2-Chloroethylvinyl ether	ND	ND	ug/l	NC	30
Tetrachloroethene	ND	ND	ug/l	NC	30
Chlorobenzene	ND	ND	ug/l	NC	30
Trichlorofluoromethane	ND	ND	ug/l	NC	30
1,2-Dichloroethane	ND	ND	ug/l	NC	30
1,1,1-Trichloroethane	ND	ND	ug/l	NC	30
Bromodichloromethane	ND	ND	ug/l	NC	30
trans-1,3-Dichloropropene	ND	ND	ug/l	NC	30
cis-1,3-Dichloropropene	ND	ND	ug/l	NC	30
Bromoform	ND	ND	ug/l	NC	30
1,1,2,2-Tetrachloroethane	ND	ND	ug/l	NC	30
Benzene	ND	ND	ug/l	NC	30

Lab Duplicate Analysis Batch Quality Control

Project Name: YARD'S END-SRH

Project Number: 31502-050

Lab Number: L0907022

Report Date: 06/11/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG364149-4 QC Sample: L0906773-02 Client ID: DUP Sample					
Toluene	ND	ND	ug/l	NC	30
Ethylbenzene	ND	ND	ug/l	NC	30
Chloromethane	ND	ND	ug/l	NC	30
Bromomethane	ND	ND	ug/l	NC	30
Vinyl chloride	ND	ND	ug/l	NC	30
Chloroethane	ND	ND	ug/l	NC	30
1,1-Dichloroethene	ND	ND	ug/l	NC	30
trans-1,2-Dichloroethene	ND	ND	ug/l	NC	30
cis-1,2-Dichloroethene	ND	ND	ug/l	NC	30
Trichloroethene	ND	ND	ug/l	NC	30
1,2-Dichlorobenzene	ND	ND	ug/l	NC	30
1,3-Dichlorobenzene	ND	ND	ug/l	NC	30
1,4-Dichlorobenzene	ND	ND	ug/l	NC	30
p/m-Xylene	ND	ND	ug/l	NC	30
o-xylene	ND	ND	ug/l	NC	30
Xylene (Total)	ND	ND	ug/l	NC	30
Styrene	ND	ND	ug/l	NC	30
Acetone	580	560	ug/l	4	30
Carbon disulfide	ND	ND	ug/l	NC	30

Lab Duplicate Analysis Batch Quality Control

Project Name: YARD'S END-SRH

Project Number: 31502-050

Lab Number: L0907022

Report Date: 06/11/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG364149-4 QC Sample: L0906773-02 Client ID: DUP Sample					
2-Butanone	370	340	ug/l	8	30
Vinyl acetate	ND	ND	ug/l	NC	30
4-Methyl-2-pentanone	ND	ND	ug/l	NC	30
2-Hexanone	ND	ND	ug/l	NC	30
Acrolein	ND	ND	ug/l	NC	30
Acrylonitrile	ND	ND	ug/l	NC	30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	95		92		80-120
Fluorobenzene	92		90		80-120
4-Bromofluorobenzene	112		111		80-120

SEMIVOLATILES

Project Name: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907022-01
Client ID: HA-C2(OW)-06012009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 06/06/09 13:30
Analyst: ND

Date Collected: 06/01/09 09:15
Date Received: 06/01/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/05/09 07:05

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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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: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS****Lab ID:** L0907022-01**Date Collected:** 06/01/09 09:15**Client ID:** HA-C2(OW)-06012009**Date Received:** 06/01/09**Sample Location:** Not Specified**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	37		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	64		10-120
4-Terphenyl-d14	84		33-120

Project Name: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907022-01
Client ID: HA-C2(OW)-06012009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 06/06/09 15:24
Analyst: HL

Date Collected: 06/01/09 09:15
Date Received: 06/01/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/05/09 07:12

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: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907022-01

Date Collected: 06/01/09 09:15

Client ID: HA-C2(OW)-06012009

Date Received: 06/01/09

Sample Location: Not Specified

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	31		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	52		10-120
4-Terphenyl-d14	79		33-120

Project Name: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907022-01 RE
Client ID: HA-C2(OW)-06012009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 06/11/09 16:51
Analyst: ND

Date Collected: 06/01/09 09:15
Date Received: 06/01/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/10/09 06:32

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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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: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907022-01 RE

Date Collected: 06/01/09 09:15

Client ID: HA-C2(OW)-06012009

Date Received: 06/01/09

Sample Location: Not Specified

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	55		21-120
Phenol-d6	33		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	91		15-120
2,4,6-Tribromophenol	97		10-120
4-Terphenyl-d14	97		33-120

Project Name: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907022-02
Client ID: HA-10(OW)-06012009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 06/06/09 13:54
Analyst: ND

Date Collected: 06/01/09 11:45
Date Received: 06/01/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/05/09 07:05

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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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: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS****Lab ID:** L0907022-02**Date Collected:** 06/01/09 11:45**Client ID:** HA-10(OW)-06012009**Date Received:** 06/01/09**Sample Location:** Not Specified**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	47		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	111		10-120
4-Terphenyl-d14	105		33-120

Project Name: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907022-02
Client ID: HA-10(OW)-06012009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 06/06/09 15:54
Analyst: HL

Date Collected: 06/01/09 11:45
Date Received: 06/01/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/05/09 07:12

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab					
Acenaphthene	0.38		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	5.6		ug/l	0.20	1
2-Methylnaphthalene	1.3		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: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907022-02

Date Collected: 06/01/09 11:45

Client ID: HA-10(OW)-06012009

Date Received: 06/01/09

Sample Location: Not Specified

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	45		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	109		10-120
4-Terphenyl-d14	81		33-120

Project Name: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907022-02 RE
Client ID: HA-10(OW)-06012009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 06/11/09 17:14
Analyst: ND

Date Collected: 06/01/09 11:45
Date Received: 06/01/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 06/10/09 06:32

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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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: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS****Lab ID:** L0907022-02 RE**Date Collected:** 06/01/09 11:45**Client ID:** HA-10(OW)-06012009**Date Received:** 06/01/09**Sample Location:** Not Specified**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	56		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	92		33-120

Project Name: YARD'S END-SRH

Lab Number: L0907022

Project Number: 31502-050

Report Date: 06/11/09

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 06/05/09 21:04
 Analyst: ND

Extraction Method: EPA 3510C
 Extraction Date: 06/05/09 07:05

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG365383-1				
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: YARD'S END-SRH

Lab Number: L0907022

Project Number: 31502-050

Report Date: 06/11/09

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 06/05/09 21:04
 Analyst: ND

Extraction Method: EPA 3510C
 Extraction Date: 06/05/09 07:05

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG365383-1				
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	41		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	56		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	72		33-120

Project Name: YARD'S END-SRH

Lab Number: L0907022

Project Number: 31502-050

Report Date: 06/11/09

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 06/05/09 22:55
 Analyst: HL

Extraction Method: EPA 3510C
 Extraction Date: 06/05/09 07:12

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG365706-1				
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: YARD'S END-SRH

Lab Number: L0907022

Project Number: 31502-050

Report Date: 06/11/09

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 06/05/09 22:55
 Analyst: HL

Extraction Method: EPA 3510C
 Extraction Date: 06/05/09 07:12

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG365706-1				

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	55		15-120
2,4,6-Tribromophenol	66		10-120
4-Terphenyl-d14	81		33-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END-SRH

Project Number: 31502-050

Lab Number: L0907022

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG365383-2 WG365383-3					
1,2,4-Trichlorobenzene	47	54	39-98	14	30
1,2-Dichlorobenzene	45	54	40-140	18	30
1,4-Dichlorobenzene	42	51	36-97	19	30
2,4-Dinitrotoluene	92	99	24-96	7	30
2,6-Dinitrotoluene	88	95	40-140	8	30
4-Chlorophenyl phenyl ether	75	85	40-140	13	30
n-Nitrosodi-n-propylamine	72	80	41-116	11	30
Butyl benzyl phthalate	101	105	40-140	4	30
P-Chloro-M-Cresol	85	95	23-97	11	30
2-Chlorophenol	70	75	27-123	7	30
2-Nitrophenol	74	82	30-130	10	30
4-Nitrophenol	38	50	10-80	27	30
2,4-Dinitrophenol	15	37	30-130	85	30
Phenol	39	41	12-110	5	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END-SRH

Lab Number: L0907022

Project Number: 31502-050

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG365383-2 WG365383-3

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		53		21-120
Phenol-d6	35		37		10-120
Nitrobenzene-d5	75		80		23-120
2-Fluorobiphenyl	72		79		15-120
2,4,6-Tribromophenol	93		104		10-120
4-Terphenyl-d14	94		95		33-120

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG365706-2 WG365706-3

Acenaphthene	49	53	40-140	8	40
2-Chloronaphthalene	66	67	40-140	2	40
Fluoranthene	78	80	40-140	3	40
Anthracene	69	73	40-140	6	40
Pyrene	78	81	40-140	4	40
Pentachlorophenol	30	36	30-130	18	40

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END-SRH

Lab Number: L0907022

Project Number: 31502-050

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG365706-2 WG365706-3

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
2-Fluorophenol	37	38	21-120
Phenol-d6	24	28	10-120
Nitrobenzene-d5	60	66	23-120
2-Fluorobiphenyl	54	56	15-120
2,4,6-Tribromophenol	74	73	10-120
4-Terphenyl-d14	74	81	33-120

PCBS

Project Name: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907022-01
Client ID: HA-C2(OW)-06012009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 5,608
Analytical Date: 06/05/09 13:58
Analyst: JB

Date Collected: 06/01/09 09:15
Date Received: 06/01/09
Field Prep: See Narrative
Extraction Method: EPA 608
Extraction Date: 06/04/09 11:36
Cleanup Method1: EPA 3665A
Cleanup Date1: 06/05/09

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab					
Aroclor 1016	ND		ug/l	0.198	1
Aroclor 1221	ND		ug/l	0.198	1
Aroclor 1232	ND		ug/l	0.198	1
Aroclor 1242	ND		ug/l	0.198	1
Aroclor 1248	ND		ug/l	0.198	1
Aroclor 1254	ND		ug/l	0.198	1
Aroclor 1260	ND		ug/l	0.198	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	119		30-150	B

Project Name: YARD'S END-SRH**Lab Number:** L0907022**Project Number:** 31502-050**Report Date:** 06/11/09**SAMPLE RESULTS**

Lab ID: L0907022-02
Client ID: HA-10(OW)-06012009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 5,608
Analytical Date: 06/05/09 14:11
Analyst: JB

Date Collected: 06/01/09 11:45
Date Received: 06/01/09
Field Prep: See Narrative
Extraction Method: EPA 608
Extraction Date: 06/04/09 11:36
Cleanup Method1: EPA 3665A
Cleanup Date1: 06/05/09

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab					
Aroclor 1016	ND		ug/l	0.205	1
Aroclor 1221	ND		ug/l	0.205	1
Aroclor 1232	ND		ug/l	0.205	1
Aroclor 1242	ND		ug/l	0.205	1
Aroclor 1248	ND		ug/l	0.205	1
Aroclor 1254	ND		ug/l	0.205	1
Aroclor 1260	ND		ug/l	0.205	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	113		30-150	B

Project Name: YARD'S END-SRH

Lab Number: L0907022

Project Number: 31502-050

Report Date: 06/11/09

Method Blank Analysis Batch Quality Control

Analytical Method: 5,608
 Analytical Date: 06/05/09 13:06
 Analyst: JB

Extraction Method: EPA 608
 Extraction Date: 06/04/09 11:36
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 06/05/09

Parameter	Result	Qualifier	Units	RDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG365186-1				
Aroclor 1016	ND		ug/l	0.167
Aroclor 1221	ND		ug/l	0.167
Aroclor 1232	ND		ug/l	0.167
Aroclor 1242	ND		ug/l	0.167
Aroclor 1248	ND		ug/l	0.167
Aroclor 1254	ND		ug/l	0.167
Aroclor 1260	ND		ug/l	0.167

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	129		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: YARD'S END-SRH

Project Number: 31502-050

Lab Number: L0907022

Report Date: 06/11/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
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Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG365186-3 QC Sample: L0907022-01 Client ID: HA-C2(OW)-06012009

Aroclor 1016	ND	1.61	2.03	126	-	-	40-126	-	30
Aroclor 1260	ND	1.61	1.79	111	-	-	40-127	-	30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87				30-150	B
Decachlorobiphenyl	140				30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END-SRH

Lab Number: L0907022

Project Number: 31502-050

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG365186-2					
Aroclor 1016	104	-	40-126	-	
Aroclor 1260	87	-	40-127	-	

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73				30-150	B
Decachlorobiphenyl	121				30-150	B

Lab Duplicate Analysis Batch Quality Control

Project Name: YARD'S END-SRH

Project Number: 31502-050

Lab Number: L0907022

Report Date: 06/11/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG365186-4 QC Sample: L0907022-01 Client ID: HA-C2(OW)-06012009					
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	71		87		30-150	B
Decachlorobiphenyl	119		138		30-150	B

METALS

Project Name: YARD'S END-SRH

Lab Number: L0907022

Project Number: 31502-050

Report Date: 06/11/09

SAMPLE RESULTS

Lab ID: L0907022-01
 Client ID: HA-C2(OW)-06012009
 Sample Location: Not Specified
 Matrix: Water

Date Collected: 06/01/09 09:15
 Date Received: 06/01/09
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab										
Antimony, Total	ND		mg/l	0.0020	4	06/02/09 10:40	06/03/09 20:10	EPA 3005A	1,6020	BM
Arsenic, Total	0.0033		mg/l	0.0020	4	06/02/09 10:40	06/03/09 20:10	EPA 3005A	1,6020	BM
Cadmium, Total	ND		mg/l	0.0008	4	06/02/09 10:40	06/03/09 20:10	EPA 3005A	1,6020	BM
Chromium, Total	ND		mg/l	0.0020	4	06/02/09 10:40	06/03/09 20:10	EPA 3005A	1,6020	BM
Copper, Total	0.0041		mg/l	0.0020	4	06/02/09 10:40	06/03/09 20:10	EPA 3005A	1,6020	BM
Iron, Total	5.2		mg/l	0.05	1	06/06/09 10:15	06/06/09 19:35	EPA 3005A	19,200.7	TD
Lead, Total	0.0116		mg/l	0.0020	4	06/02/09 10:40	06/03/09 20:10	EPA 3005A	1,6020	BM
Mercury, Total	ND		mg/l	0.0002	1	06/02/09 17:35	06/03/09 11:39	EPA 245.1	3,245.1	EZ
Nickel, Total	ND		mg/l	0.0020	4	06/02/09 10:40	06/03/09 20:10	EPA 3005A	1,6020	BM
Selenium, Total	0.005		mg/l	0.004	4	06/02/09 10:40	06/03/09 20:10	EPA 3005A	1,6020	BM
Silver, Total	ND		mg/l	0.0016	4	06/02/09 10:40	06/03/09 20:10	EPA 3005A	1,6020	BM
Zinc, Total	0.0271		mg/l	0.0200	4	06/02/09 10:40	06/03/09 20:10	EPA 3005A	1,6020	BM
Dissolved Metals - Westborough Lab										
Antimony, Dissolved	ND		mg/l	0.0020	4	06/02/09 10:40	06/03/09 19:12	EPA 3005A	1,6020	BM
Arsenic, Dissolved	0.0046		mg/l	0.0020	4	06/02/09 10:40	06/03/09 19:12	EPA 3005A	1,6020	BM
Cadmium, Dissolved	ND		mg/l	0.0008	4	06/02/09 10:40	06/03/09 19:12	EPA 3005A	1,6020	BM
Chromium, Dissolved	ND		mg/l	0.0020	4	06/02/09 10:40	06/03/09 19:12	EPA 3005A	1,6020	BM
Copper, Dissolved	0.0031		mg/l	0.0020	4	06/02/09 10:40	06/03/09 19:12	EPA 3005A	1,6020	BM
Iron, Dissolved	6.0		mg/l	0.05	1	06/05/09 12:40	06/06/09 18:39	EPA 3005A	19,200.7	TD
Lead, Dissolved	0.0056		mg/l	0.0020	4	06/02/09 10:40	06/03/09 19:12	EPA 3005A	1,6020	BM
Mercury, Dissolved	ND		mg/l	0.0002	1	06/05/09 17:30	06/08/09 10:32	EPA 245.1	3,245.1	EZ
Nickel, Dissolved	0.0025		mg/l	0.0020	4	06/02/09 10:40	06/03/09 19:12	EPA 3005A	1,6020	BM
Selenium, Dissolved	0.009		mg/l	0.004	4	06/02/09 10:40	06/03/09 19:12	EPA 3005A	1,6020	BM
Silver, Dissolved	ND		mg/l	0.0016	4	06/02/09 10:40	06/03/09 19:12	EPA 3005A	1,6020	BM
Zinc, Dissolved	0.0228		mg/l	0.0200	4	06/02/09 10:40	06/03/09 19:12	EPA 3005A	1,6020	BM



Project Name: YARD'S END-SRH

Lab Number: L0907022

Project Number: 31502-050

Report Date: 06/11/09

SAMPLE RESULTS

Lab ID: L0907022-02
 Client ID: HA-10(OW)-06012009
 Sample Location: Not Specified
 Matrix: Water

Date Collected: 06/01/09 11:45
 Date Received: 06/01/09
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab										
Antimony, Total	ND		mg/l	0.0020	4	06/02/09 10:40	06/03/09 20:28	EPA 3005A	1,6020	BM
Arsenic, Total	0.0113		mg/l	0.0020	4	06/02/09 10:40	06/03/09 20:28	EPA 3005A	1,6020	BM
Cadmium, Total	ND		mg/l	0.0020	10	06/02/09 10:40	06/04/09 18:02	EPA 3005A	1,6020	BM
Chromium, Total	ND		mg/l	0.0020	4	06/02/09 10:40	06/03/09 20:28	EPA 3005A	1,6020	BM
Copper, Total	0.0137		mg/l	0.0020	4	06/02/09 10:40	06/03/09 20:28	EPA 3005A	1,6020	BM
Iron, Total	3.5		mg/l	0.05	1	06/06/09 10:15	06/06/09 19:39	EPA 3005A	19,200.7	TD
Lead, Total	0.0113		mg/l	0.0020	4	06/02/09 10:40	06/03/09 20:28	EPA 3005A	1,6020	BM
Mercury, Total	0.0004		mg/l	0.0002	1	06/02/09 17:35	06/03/09 11:40	EPA 245.1	3,245.1	EZ
Nickel, Total	0.0042		mg/l	0.0020	4	06/02/09 10:40	06/03/09 20:28	EPA 3005A	1,6020	BM
Selenium, Total	0.070		mg/l	0.004	4	06/02/09 10:40	06/03/09 20:28	EPA 3005A	1,6020	BM
Silver, Total	ND		mg/l	0.0016	4	06/02/09 10:40	06/03/09 20:28	EPA 3005A	1,6020	BM
Zinc, Total	0.0628		mg/l	0.0200	4	06/02/09 10:40	06/03/09 20:28	EPA 3005A	1,6020	BM
Dissolved Metals - Westborough Lab										
Antimony, Dissolved	ND		mg/l	0.0020	4	06/02/09 10:40	06/03/09 19:29	EPA 3005A	1,6020	BM
Arsenic, Dissolved	0.0116		mg/l	0.0020	4	06/02/09 10:40	06/03/09 19:29	EPA 3005A	1,6020	BM
Cadmium, Dissolved	ND		mg/l	0.0020	10	06/02/09 10:40	06/04/09 17:56	EPA 3005A	1,6020	BM
Chromium, Dissolved	ND		mg/l	0.0020	4	06/02/09 10:40	06/03/09 19:29	EPA 3005A	1,6020	BM
Copper, Dissolved	0.0135		mg/l	0.0020	4	06/02/09 10:40	06/03/09 19:29	EPA 3005A	1,6020	BM
Iron, Dissolved	3.5		mg/l	0.05	1	06/05/09 12:40	06/06/09 18:49	EPA 3005A	19,200.7	TD
Lead, Dissolved	0.0097		mg/l	0.0020	4	06/02/09 10:40	06/03/09 19:29	EPA 3005A	1,6020	BM
Mercury, Dissolved	0.0003		mg/l	0.0002	1	06/05/09 17:30	06/08/09 10:34	EPA 245.1	3,245.1	EZ
Nickel, Dissolved	0.0043		mg/l	0.0020	4	06/02/09 10:40	06/03/09 19:29	EPA 3005A	1,6020	BM
Selenium, Dissolved	0.069		mg/l	0.004	4	06/02/09 10:40	06/03/09 19:29	EPA 3005A	1,6020	BM
Silver, Dissolved	ND		mg/l	0.0016	4	06/02/09 10:40	06/03/09 19:29	EPA 3005A	1,6020	BM
Zinc, Dissolved	0.0608		mg/l	0.0200	4	06/02/09 10:40	06/03/09 19:29	EPA 3005A	1,6020	BM



Project Name: YARD'S END-SRH

Lab Number: L0907022

Project Number: 31502-050

Report Date: 06/11/09

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): 01-02 Batch: WG364836-1								
Antimony, Dissolved	ND	mg/l	0.0005	1	06/02/09 10:40	06/03/09 19:00	1,6020	BM
Arsenic, Dissolved	ND	mg/l	0.0005	1	06/02/09 10:40	06/03/09 19:00	1,6020	BM
Cadmium, Dissolved	ND	mg/l	0.0002	1	06/02/09 10:40	06/03/09 19:00	1,6020	BM
Chromium, Dissolved	ND	mg/l	0.0005	1	06/02/09 10:40	06/03/09 19:00	1,6020	BM
Copper, Dissolved	ND	mg/l	0.0005	1	06/02/09 10:40	06/03/09 19:00	1,6020	BM
Lead, Dissolved	ND	mg/l	0.0005	1	06/02/09 10:40	06/03/09 19:00	1,6020	BM
Nickel, Dissolved	ND	mg/l	0.0005	1	06/02/09 10:40	06/03/09 19:00	1,6020	BM
Selenium, Dissolved	ND	mg/l	0.001	1	06/02/09 10:40	06/03/09 19:00	1,6020	BM
Silver, Dissolved	ND	mg/l	0.0004	1	06/02/09 10:40	06/03/09 19:00	1,6020	BM
Zinc, Dissolved	ND	mg/l	0.0050	1	06/02/09 10:40	06/03/09 19:00	1,6020	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG364837-1								
Antimony, Total	ND	mg/l	0.0005	1	06/02/09 10:40	06/03/09 19:41	1,6020	BM
Arsenic, Total	ND	mg/l	0.0005	1	06/02/09 10:40	06/03/09 19:41	1,6020	BM
Cadmium, Total	ND	mg/l	0.0002	1	06/02/09 10:40	06/03/09 19:41	1,6020	BM
Chromium, Total	ND	mg/l	0.0005	1	06/02/09 10:40	06/03/09 19:41	1,6020	BM
Copper, Total	ND	mg/l	0.0005	1	06/02/09 10:40	06/03/09 19:41	1,6020	BM
Lead, Total	ND	mg/l	0.0005	1	06/02/09 10:40	06/03/09 19:41	1,6020	BM
Nickel, Total	ND	mg/l	0.0005	1	06/02/09 10:40	06/03/09 19:41	1,6020	BM
Selenium, Total	ND	mg/l	0.001	1	06/02/09 10:40	06/03/09 19:41	1,6020	BM
Silver, Total	ND	mg/l	0.0004	1	06/02/09 10:40	06/03/09 19:41	1,6020	BM
Zinc, Total	ND	mg/l	0.0050	1	06/02/09 10:40	06/03/09 19:41	1,6020	BM

Prep Information

Digestion Method: EPA 3005A



Project Name: YARD'S END-SRH

Lab Number: L0907022

Project Number: 31502-050

Report Date: 06/11/09

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG364898-1								
Mercury, Total	ND	mg/l	0.0002	1	06/02/09 17:35	06/03/09 11:16	3,245.1	EZ

Prep Information

Digestion Method: EPA 245.1

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01-02 Batch: WG365504-1								
Iron, Dissolved	ND	mg/l	0.05	1	06/05/09 12:40	06/06/09 18:20	19,200.7	TD

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): 01-02 Batch: WG365550-1								
Mercury, Dissolved	ND	mg/l	0.0002	1	06/05/09 17:30	06/08/09 10:28	3,245.1	EZ

Prep Information

Digestion Method: EPA 245.1

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG365615-1								
Iron, Total	ND	mg/l	0.05	1	06/06/09 10:15	06/06/09 18:59	19,200.7	TD

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END-SRH

Project Number: 31502-050

Lab Number: L0907022

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG364836-2					
Antimony, Dissolved	99	-	80-120	-	
Arsenic, Dissolved	96	-	80-120	-	
Cadmium, Dissolved	107	-	80-120	-	
Chromium, Dissolved	106	-	80-120	-	
Copper, Dissolved	107	-	80-120	-	
Lead, Dissolved	104	-	80-120	-	
Nickel, Dissolved	104	-	80-120	-	
Selenium, Dissolved	99	-	80-120	-	
Silver, Dissolved	105	-	80-120	-	
Zinc, Dissolved	110	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END-SRH

Project Number: 31502-050

Lab Number: L0907022

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG364837-2					
Antimony, Total	94	-	80-120	-	
Arsenic, Total	93	-	80-120	-	
Cadmium, Total	106	-	80-120	-	
Chromium, Total	104	-	80-120	-	
Copper, Total	103	-	80-120	-	
Lead, Total	103	-	80-120	-	
Nickel, Total	101	-	80-120	-	
Selenium, Total	96	-	80-120	-	
Silver, Total	99	-	80-120	-	
Zinc, Total	108	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG364898-2					
Mercury, Total	98	-		-	
Dissolved Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG365504-2					
Iron, Dissolved	100	-		-	
Dissolved Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG365550-2					
Mercury, Dissolved	99	-		-	

Lab Control Sample Analysis
Batch Quality Control**Project Name:** YARD'S END-SRH**Project Number:** 31502-050**Lab Number:** L0907022**Report Date:** 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG365615-2					
Iron, Total	99	-	85-115	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: YARD'S END-SRH

Project Number: 31502-050

Lab Number: L0907022

Report Date: 06/11/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
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Dissolved Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG364836-4 QC Sample: L0907022-01 Client ID: HA-C2(OW)-06012009

Antimony, Dissolved	ND	0.5	0.4939	99	-	-	80-120	-	20
Arsenic, Dissolved	0.0046	0.12	0.1258	101	-	-	80-120	-	20
Cadmium, Dissolved	ND	0.051	0.0519	102	-	-	80-120	-	20
Chromium, Dissolved	ND	0.2	0.2040	102	-	-	80-120	-	20
Copper, Dissolved	0.0031	0.25	0.2442	96	-	-	80-120	-	20
Lead, Dissolved	0.0056	0.51	0.5283	102	-	-	80-120	-	20
Nickel, Dissolved	0.0025	0.5	0.4759	95	-	-	80-120	-	20
Selenium, Dissolved	0.009	0.12	0.120	92	-	-	80-120	-	20
Silver, Dissolved	ND	0.05	0.0477	95	-	-	80-120	-	20
Zinc, Dissolved	0.0228	0.5	0.5247	100	-	-	80-120	-	20

Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG364837-4 QC Sample: L0907022-01 Client ID: HA-C2(OW)-06012009

Antimony, Total	ND	0.5	0.5017	100	-	-	80-120	-	20
Arsenic, Total	0.0033	0.12	0.1237	100	-	-	80-120	-	20
Cadmium, Total	ND	0.051	0.0538	105	-	-	80-120	-	20
Chromium, Total	ND	0.2	0.2073	104	-	-	80-120	-	20
Copper, Total	0.0041	0.25	0.2506	99	-	-	80-120	-	20
Lead, Total	0.0116	0.51	0.5411	104	-	-	80-120	-	20
Nickel, Total	ND	0.5	0.4904	98	-	-	80-120	-	20
Selenium, Total	0.005	0.12	0.121	96	-	-	80-120	-	20
Silver, Total	ND	0.05	0.0485	97	-	-	80-120	-	20
Zinc, Total	0.0271	0.5	0.5435	103	-	-	80-120	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: YARD'S END-SRH
Project Number: 31502-050

Lab Number: L0907022
Report Date: 06/11/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG364898-4 QC Sample: L0906999-02 Client ID: MS Sample									
Mercury, Total	ND	0.001	0.0011	106	-	-	-	-	-
Dissolved Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG365504-4 QC Sample: L0907022-01 Client ID: HA-C2(OW)-06012009									
Iron, Dissolved	6.0	1	6.6	60	-	-	-	-	-
Dissolved Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG365550-4 QC Sample: L0907022-02 Client ID: HA-10(OW)-06012009									
Mercury, Dissolved	0.0003	0.001	0.0012	93	-	-	-	-	-
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG365615-4 QC Sample: L0906999-01 Client ID: MS Sample									
Iron, Total	ND	1	0.97	97	-	-	75-125	-	20

Lab Duplicate Analysis Batch Quality Control

Project Name: YARD'S END-SRH

Project Number: 31502-050

Lab Number: L0907022

Report Date: 06/11/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG364836-3 QC Sample: L0907022-01 Client ID: HA-C2(OW)-06012009					
Antimony, Dissolved	ND	ND	mg/l	NC	20
Arsenic, Dissolved	0.0046	0.0044	mg/l	5	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Chromium, Dissolved	ND	ND	mg/l	NC	20
Copper, Dissolved	0.0031	0.0031	mg/l	2	20
Lead, Dissolved	0.0056	0.0057	mg/l	3	20
Nickel, Dissolved	0.0025	0.0025	mg/l	1	20
Selenium, Dissolved	0.009	0.009	mg/l	3	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	0.0228	0.0221	mg/l	3	20

Lab Duplicate Analysis Batch Quality Control

Project Name: YARD'S END-SRH

Project Number: 31502-050

Lab Number: L0907022

Report Date: 06/11/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG364837-3 QC Sample: L0907022-01 Client ID: HA-C2(OW)-06012009					
Antimony, Total	ND	ND	mg/l	NC	20
Arsenic, Total	0.0033	0.0033	mg/l	1	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Copper, Total	0.0041	0.0038	mg/l	7	20
Lead, Total	0.0116	0.0114	mg/l	1	20
Nickel, Total	ND	ND	mg/l	NC	20
Selenium, Total	0.005	0.005	mg/l	4	20
Silver, Total	ND	ND	mg/l	NC	20
Zinc, Total	0.0271	0.0214	mg/l	23	20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG364898-3 QC Sample: L0906999-02 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	
Dissolved Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG365504-3 QC Sample: L0907022-01 Client ID: HA-C2(OW)-06012009					
Iron, Dissolved	6.0	5.8	mg/l	3	
Dissolved Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG365550-3 QC Sample: L0907022-02 Client ID: HA-10(OW)-06012009					
Mercury, Dissolved	0.0003	0.0003	mg/l	2	

Project Name: YARD'S END-SRH**Project Number:** 31502-050**Lab Duplicate Analysis**
Batch Quality Control**Lab Number:** L0907022**Report Date:** 06/11/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG365615-3 QC Sample: L0906999-01 Client ID: DUP Sample					
Iron, Total	ND	ND	mg/l	NC	20

INORGANICS & MISCELLANEOUS

Project Name: YARD'S END-SRH
Project Number: 31502-050

Lab Number: L0907022
Report Date: 06/11/09

SAMPLE RESULTS

Lab ID: L0907022-01
Client ID: HA-C2(OW)-06012009
Sample Location: Not Specified
Matrix: Water

Date Collected: 06/01/09 09:15
Date Received: 06/01/09
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	12		mg/l	5.0	1	-	06/02/09 18:05	30,2540D	DW
Cyanide, Total	ND		mg/l	0.005	1	06/02/09 19:30	06/03/09 00:06	30,4500CN-CE	DD
Chlorine, Total Residual	ND		mg/l	0.02	1	-	06/01/09 20:30	30,4500CL-D	BH
TPH	ND		mg/l	3.20	.8	06/01/09 17:30	06/03/09 18:45	74,1664A	JO
Phenolics, Total	ND		mg/l	0.03	1	-	06/06/09 16:37	4,420.1	TH
Chromium, Hexavalent	ND		mg/l	0.010	1	06/01/09 23:00	06/01/09 23:00	30,3500CR-D	DD



Project Name: YARD'S END-SRH

Lab Number: L0907022

Project Number: 31502-050

Report Date: 06/11/09

SAMPLE RESULTS

Lab ID: L0907022-02
 Client ID: HA-10(OW)-06012009
 Sample Location: Not Specified
 Matrix: Water

Date Collected: 06/01/09 11:45
 Date Received: 06/01/09
 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	36		mg/l	5.0	1	-	06/02/09 18:05	30,2540D	DW
Cyanide, Total	ND		mg/l	0.005	1	06/02/09 19:30	06/03/09 00:10	30,4500CN-CE	DD
Chlorine, Total Residual	ND		mg/l	0.02	1	-	06/01/09 20:30	30,4500CL-D	BH
TPH	ND		mg/l	3.20	.8	06/01/09 17:30	06/03/09 18:45	74,1664A	JO
Phenolics, Total	ND		mg/l	0.03	1	-	06/06/09 16:37	4,420.1	TH
Chromium, Hexavalent	ND		mg/l	0.010	1	06/01/09 23:00	06/01/09 23:00	30,3500CR-D	DD



Project Name: YARD'S END-SRH

Lab Number: L0907022

Project Number: 31502-050

Report Date: 06/11/09

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): 01-02 Batch: WG364718-2									
TPH	ND		mg/l	4.00	1	06/01/09 17:30	06/03/09 18:45	74,1664A	JO
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG364741-1									
Chlorine, Total Residual	ND		mg/l	0.02	1	-	06/01/09 20:30	30,4500CL-D	BH
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG364742-2									
Chromium, Hexavalent	ND		mg/l	0.010	1	06/01/09 23:00	06/01/09 23:00	30,3500CR-D	DD
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG365284-1									
Cyanide, Total	ND		mg/l	0.005	1	06/02/09 19:30	06/02/09 23:54	30,4500CN-CE	DD
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG365636-1									
Phenolics, Total	ND		mg/l	0.03	1	-	06/06/09 16:33	4,420.1	TH
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG365679-1									
Solids, Total Suspended	ND		mg/l	5.0	1	-	06/02/09 18:05	30,2540D	DW

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END-SRH

Project Number: 31502-050

Lab Number: L0907022

Report Date: 06/11/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG364718-1					
TPH	85	-	64-132	-	34
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG364741-2					
Chlorine, Total Residual	93	-		-	
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG364742-1					
Chromium, Hexavalent	101	-	85-115	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG365284-2					
Cyanide, Total	100	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG365636-2					
Phenolics, Total	104	-	82-111	-	12

Matrix Spike Analysis

Batch Quality Control

Project Name: YARD'S END-SRH
Project Number: 31502-050

Lab Number: L0907022
Report Date: 06/11/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG364718-3 QC Sample: L0906958-02 Client ID: MS Sample									
TPH	ND	21.5	ND	70	-	-	64-132	-	34
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG364742-3 QC Sample: L0907022-02 Client ID: HA-10(OW)-06012009									
Chromium, Hexavalent	ND	0.1	0.101	101	-	-	85-115	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG365284-3 QC Sample: L0907022-02 Client ID: HA-10(OW)-06012009									
Cyanide, Total	ND	0.2	0.189	94	-	-	80-120	-	30
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG365636-3 QC Sample: L0907022-01 Client ID: HA-C2(OW)-06012009									
Phenolics, Total	ND	0.8	0.72	90	-	-	77-124	-	12

Lab Duplicate Analysis

Batch Quality Control

Project Name: YARD'S END-SRH

Project Number: 31502-050

Lab Number: L0907022

Report Date: 06/11/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG364718-4 QC Sample: L0906958-01 Client ID: DUP Sample					
TPH	ND	ND	mg/l	NC	34
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG364741-3 QC Sample: L0907022-01 Client ID: HA-C2(OW)-06012009					
Chlorine, Total Residual	ND	ND	mg/l	NC	
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG364742-4 QC Sample: L0907022-01 Client ID: HA-C2(OW)-06012009					
Chromium, Hexavalent	ND	ND	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG365284-4 QC Sample: L0907022-01 Client ID: HA-C2(OW)-06012009					
Cyanide, Total	ND	ND	mg/l	NC	30
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG365636-4 QC Sample: L0907022-01 Client ID: HA-C2(OW)-06012009					
Phenolics, Total	ND	ND	mg/l	NC	12

Project Name: YARD'S END-SRH

Project Number: 31502-050

Lab Number: L0907022

Report Date: 06/11/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler Custody Seal

A Absent

B Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0907022-01A	Vial HCl preserved	A	N/A	2	Y	Absent	624(7)
L0907022-01B	Vial HCl preserved	A	N/A	2	Y	Absent	624(7)
L0907022-01C	Vial Na ₂ S ₂ O ₃ preserved	A	N/A	2	Y	Absent	504(14)
L0907022-01E	Plastic 1000ml unpreserved	A	7	2	Y	Absent	TSS-2540(7)
L0907022-01F	Plastic 500ml unpreserved	A	7	2	Y	Absent	TRC-4500(1)
L0907022-01G	Plastic 500ml unpreserved	A	7	2	Y	Absent	HEXCR-3500(1)
L0907022-01H	Plastic 500ml HNO ₃ preserved	B	<2	2	Y	Absent	SE-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),FE-UI(180),PB-6020T(180),HG-U(28),AS-6020T(180),SB-6020T(180),AG-6020T(180),CD-6020T(180)
L0907022-01I	Amber 1000ml unpreserved	B	7	2	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L0907022-01J	Amber 1000ml unpreserved	B	7	2	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L0907022-01K	Amber 1000ml Na ₂ S ₂ O ₃	A	7	2	Y	Absent	PCB-608(7)
L0907022-01L	Amber 1000ml Na ₂ S ₂ O ₃	A	7	2	Y	Absent	PCB-608(7)
L0907022-01M	Amber 1000ml HCl preserved	B	<2	2	Y	Absent	TPH-1664(28)
L0907022-01N	Amber 1000ml HCl preserved	A	<2	2	Y	Absent	TPH-1664(28)
L0907022-01O	Amber 1000ml H ₂ SO ₄ preserved	A	<2	2	Y	Absent	TPHENOL-420(28)
L0907022-01P	Amber 1000ml H ₂ SO ₄ preserved	A	<2	2	Y	Absent	TPHENOL-420(28)
L0907022-01Q	Plastic 250ml NaOH preserved	A	>12	2	Y	Absent	TCN-4500(14)
L0907022-01X	Plastic 500ml HNO ₃ preserved	B	<2	2	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)
L0907022-02A	Vial HCl preserved	A	N/A	2	Y	Absent	624(7)
L0907022-02B	Vial HCl preserved	A	N/A	2	Y	Absent	624(7)
L0907022-02C	Vial Na ₂ S ₂ O ₃ preserved	A	N/A	2	Y	Absent	504(14)
L0907022-02D	Vial Na ₂ S ₂ O ₃ preserved	A	N/A	2	Y	Absent	504(14)
L0907022-02E	Plastic 1000ml unpreserved	A	7	2	Y	Absent	TSS-2540(7)
L0907022-02F	Plastic 500ml unpreserved	B	7	2	Y	Absent	TRC-4500(1)
L0907022-02G	Plastic 500ml unpreserved	B	7	2	Y	Absent	HEXCR-3500(1)

*Hold days indicated by values in parentheses



Project Name: YARD'S END-SRH

Project Number: 31502-050

Lab Number: L0907022

Report Date: 06/11/09

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0907022-02H	Plastic 500ml HNO3 preserved	B	<2	2	Y	Absent	SE-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),FE-UI(180),PB-6020T(180),HG-U(28),AS-6020T(180),SB-6020T(180),AG-6020T(180),CD-6020T(180)
L0907022-02I	Amber 1000ml unpreserved	B	7	2	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L0907022-02J	Amber 1000ml unpreserved	B	7	2	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L0907022-02K	Amber 1000ml Na2S2O3	B	7	2	Y	Absent	PCB-608(7)
L0907022-02L	Amber 1000ml Na2S2O3	A	7	2	Y	Absent	PCB-608(7)
L0907022-02M	Amber 1000ml HCl preserved	B	<2	2	Y	Absent	TPH-1664(28)
L0907022-02N	Amber 1000ml HCl preserved	A	<2	2	Y	Absent	TPH-1664(28)
L0907022-02O	Amber 1000ml H2SO4 preserved	B	<2	2	Y	Absent	TPHENOL-420(28)
L0907022-02Q	Plastic 250ml NaOH preserved	B	>12	2	Y	Absent	TCN-4500(14)
L0907022-02X	Plastic 250ml HNO3 preserved	B	<2	2	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)
L0907022-02Y	Plastic 250ml HNO3 preserved	B	<2	2	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)
L0907022-03A	Vial HCl preserved	A	N/A	2	Y	Absent	624(7)
L0907022-03B	Vial Na2S2O3 preserved	A	N/A	2	Y	Absent	504(14),624(7)

*Hold days indicated by values in parentheses



Project Name: YARD'S END-SRH
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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.
ND	- Not detected at the reported detection limit for the sample.
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

*	- The batch duplicate RPD exceeds the acceptance criteria. This flag is not applicable when the sample concentrations are less than 5x the RDL. (Metals only.)
A	- Spectra identified as "Aldol Condensation Product".
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.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
N	- The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
J	- Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report



Project Name: YARD'S END-SRH
Project Number: 31502-050

Lab Number: L0907022
Report Date: 06/11/09

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 June 9, 2009 - 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.

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.)

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), 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 150.1, 180.1, 300.0, 353.2, SM2130B, 2320B, 4500CI-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, 4500CI-D, 4500CI-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, Nitrite-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, EPA 150.1, SM4500H-B.

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

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), SM6251B, 314.0.

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,Tl,Ti,V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Nitrate-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, 4500CN-CE, 2540D, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1

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

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCB-Water)

600/4-81-045-PCB-Oil

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.*Drinking Water*

Microbiology Parameters: SM9215B; MF-SM9222B; ENZ. SUB. SM9223; EC-SM9221E; MF-SM9222D; ENZ. SUB. SM9223;

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

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 110.2, 120.1, 150.1, 300.0, 325.2, 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, 150.1, 300.0, 305.1, 310.1, 325.2, 340.2, 350.1, 350.2, 351.1, 353.2, 354.1, 365.2, 375.4, 376.2, 405.1, 415.1, 420.1, 425.1, 1664A, SW-846 9010, 9030, 9040B, EPA 160.1, 160.2, 160.3, 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.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, 331.0, 110.2, SM2120B, 2510B, 5310C, EPA 150.1, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.1, SM5220D, 4500CI-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 350.2/.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.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 8215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 331.0, SM2320B, EPA 300.0, 325.2, 110.2, SM2120B, 4500CN-E, 4500F-C, EPA 150.1, SM4500H-B, 4500NO₃-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, EPA 405.1, SM5210B, EPA 410.4, SM5220D, EPA 305.1, SM2310B-4a, EPA 310.1, SM2320B, EPA 200.7, 300.0, 325.2, LACHAT 10-117-07-1A or B, SM4500CI-E, EPA 340.2, SM4500F-C, EPA 375.4, SM15 426C, EPA 350.1, 350.2, 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-NO₃F, EPA 354.1, SM4500-NO₂-B, EPA 365.2, SM4500P-E, EPA 160.3, EPA 160.1, SM2540C, EPA 160.2, SM2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, 110.2, SM2120B, 335.2, LACHAT 10-204-00-1-A, EPA 150.1, 9040B, SM4500-HB, EPA 1664A, EPA 415.1, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, EPA 376.2, SM4500S-D, EPA 425.1, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, 8021B, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 3005A, 3050B, 3051, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 8021B, 3540C, 3545, 3580, 5030B, 5035.)

Analytical Services Protocol: CLP Volatile Organics, CLP Inorganics, CLP PCB/Pesticides.

Rhode Island Department of Health Certificate/Lab ID: LAO00065.

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

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

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671.

Non-Potable Water (Organic Parameters: EPA 3510C, 625, 608, 8081A, 8082, 8151A, 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)

CHAIN OF CUSTODY RECORD

Phone	(617) 886-7400
Fax	(617) 886-7600

H&A FILE NO.	31502-050	LABORATORY	Alpha	DELIVERY DATE	01/17
PROJECT NAME	YACD'S END - SK4	ADDRESS	Westboro, MA	TURNAROUND TIME	SPD
H&A CONTACT	S. Rowan	CONTACT		PROJECT MANAGER	T. Butler

[illegible]

② TCE 330.1, Hex Cl. - Sm 330.1
③ TCN-335.2
④ EOB-504.1
⑤ TOTAL METALS
⑥ TOTAL PHENOLS
⑦ TPH 1464
⑧ TSS 140.2

Sampled and Relinquished by		Received by		LIQUID		TOTAL: 360 ± 1		Sampling Comments
Sign	Print	Sign	Print					
Sign <i>William Miller</i>	Print <i>William Miller</i>	Sign <i>William Miller</i>	Print <i>William Miller</i>	X	X	X	X	Sample submitted for analysis. NIDES R6P Permit for analysis. PLEASE allow appropriate methods and minimum detection limits as required by EPA for R6P.
Firm <i>4/10/09</i>	Firm <i>4/10/09</i>	Firm <i>4/10/09</i>	Firm <i>4/10/09</i>	X	X	X	X	
Date <i>4/10/09</i>	Date <i>4/10/09</i>	Date <i>4/10/09</i>	Date <i>4/10/09</i>	X	X	X	X	
Time <i>1:03</i>	Time <i>1:03</i>	Time <i>1:03</i>	Time <i>1:03</i>	X	X	X	X	
Relinquished by	Received by	Sign <i>William Miller</i>	Print <i>William Miller</i>	X	X	X	X	Substantive (2) 250 ml HNO ₃ for 13500 ml Dissolved metals
Sign <i>William Miller</i>	Print <i>William Miller</i>	Sign <i>William Miller</i>	Print <i>William Miller</i>	X	X	X	X	
Firm <i>4/10/09</i>	Firm <i>4/10/09</i>	Firm <i>4/10/09</i>	Firm <i>4/10/09</i>	X	X	X	X	
Date <i>4/10/09</i>	Date <i>4/10/09</i>	Date <i>4/10/09</i>	Date <i>4/10/09</i>	X	X	X	X	
Time <i>1:03</i>	Time <i>1:03</i>	Time <i>1:03</i>	Time <i>1:03</i>	X	X	X	X	Evidence samples were tampered with? YES NO
Relinquished by	Received by	Sign <i>William Miller</i>	Print <i>William Miller</i>	X	X	X	X	
Sign <i>William Miller</i>	Print <i>William Miller</i>	Sign <i>William Miller</i>	Print <i>William Miller</i>	X	X	X	X	
Firm <i>4/10/09</i>	Firm <i>4/10/09</i>	Firm <i>4/10/09</i>	Firm <i>4/10/09</i>	X	X	X	X	
Date <i>4/10/09</i>	Date <i>4/10/09</i>	Date <i>4/10/09</i>	Date <i>4/10/09</i>	X	X	X	X	If YES, please explain in section below.
Time <i>1:03</i>	Time <i>1:03</i>	Time <i>1:03</i>	Time <i>1:03</i>	X	X	X	X	
Relinquished by	Received by	Sign <i>William Miller</i>	Print <i>William Miller</i>	X	X	X	X	
Sign <i>William Miller</i>	Print <i>William Miller</i>	Sign <i>William Miller</i>	Print <i>William Miller</i>	X	X	X	X	

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

NA The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes X does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate.

Laboratory should (specify if applicable) _____ analyze _____

Required Reporting Limits and Data Quality Objectives

☐ RC-S1	☐ S1
☐ RC-S2	☐ S2
☐ RC-GW1	☐ S3
☐ RC-GW2	☒ GW1
	☐ GW2
	☐ GW3



ANALYTICAL REPORT

Lab Number: L0906284

Client: Haley & Aldrich, Inc.
465 Medford Street, Suite 2200
Charlestown, MA 02129-1400

ATTN: Todd Butler

Project Name: YARD'S END

Project Number: 31502-050

Report Date: 05/22/09

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.

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



Project Name: YARD'S END
Project Number: 31502-050

Lab Number: L0906284
Report Date: 05/22/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0906284-01	HA-I8-5152009	Not Specified	05/15/09 10:20
L0906284-02	HA-4-5152009	Not Specified	05/15/09 11:50
L0906284-03	TRIP BLANK	Not Specified	05/15/09 00:00

Project Name: YARD'S END

Lab Number: L0906284

Project Number: 31502-050

Report Date: 05/22/09

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	YES
A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	YES
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: YARD'S END
Project Number: 31502-050

Lab Number: L0906284
Report Date: 05/22/09

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.

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.

MCP Related Narratives

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 analyzed.

The samples were Field Filtered for Dissolved Metals only.

Volatile Organics

In reference to question E:

Project Name: YARD'S END
Project Number: 31502-050

Lab Number: L0906284
Report Date: 05/22/09

Case Narrative (continued)

The WG363669-1/-2 LCS/LCSD recoveries associated with L0906284-01, -02 and -03 are below the acceptance criteria for Bromoform (58%/59%), Dichlorodifluoromethane (54%/53%) and 1,2-Dibromo-3-chloropropane (67%/61%); however, they have been identified as "difficult" analytes. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for these compounds.

Semivolatile Organics

In reference with question E:

The WG362908-2/-3 LCS/LCSD recoveries associated with L0906284-01 and -02 are below the individual acceptance criteria for Aniline (31%/32%), but within the overall method allowances. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

Semivolatile Organics by SIM

In reference to question E:

The WG362909-2 LCS recovery associated with L0906284-01 and -02 is below the individual acceptance criteria for Hexachloroethane (37%), but within the overall method allowances. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound. In addition, the associated LCS/LCSD RPD is above the acceptance criteria for Hexachloroethane (22%). The WG362909-2/-3 LCS/LCSD RPDs associated with L0906284-01 and -02 are above the acceptance criteria for 2-Chloronaphthalene (27%), Acenaphthylene (28%) and Hexachlorobenzene (21%); however, the individual LCS/LCSD recoveries are within method limits. The results of the associated samples are reported.

EPH

In reference to question E:

The WG363409-3 LCSD recovery associated with L0906284-01 and -02 was below the acceptance criteria for Decane (C10) (37%); however, the target carbon ranges and analytes were within method criteria. The results of the original analysis are reported. In addition, the associated LCS/LCSD RPD is above the

Project Name: YARD'S END
Project Number: 31502-050

Lab Number: L0906284
Report Date: 05/22/09

Case Narrative (continued)

acceptance criteria for Decane (C10) (59%).

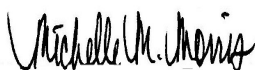
The WG363409-2/-3 LCS/LCSD RPD associated with L0906284-01 and -02 are above the acceptance criteria for C9-C18 Aliphatics (36%), Naphthalene (36%), 2-Methylnaphthalene (36%), Acenaphthylene (27%), Acenaphthene (27%), Nonane (C9) (64%), Dodecane (C12) (47%) and Tetradecane (C14) (27%); however, the individual LCS/LCSD recoveries are within method limits. The results of the associated samples are reported.

Metals

L0906284-01 and -02 have elevated detection limits for Antimony and Thallium due to the dilutions required by the high concentrations of non-target analytes. The requested reporting limits were achieved.

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: 05/22/09

ORGANICS

VOLATILES

Project Name: YARD'S END**Lab Number:** L0906284**Project Number:** 31502-050**Report Date:** 05/22/09**SAMPLE RESULTS**

Lab ID: L0906284-01
Client ID: HA-I8-5152009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 05/22/09 14:07
Analyst: GK

Date Collected: 05/15/09 10:20
Date Received: 05/15/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: YARD'S END**Lab Number:** L0906284**Project Number:** 31502-050**Report Date:** 05/22/09**SAMPLE RESULTS**

Lab ID: L0906284-01
 Client ID: HA-I8-5152009
 Sample Location: Not Specified

Date Collected: 05/15/09 10:20
 Date Received: 05/15/09
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
Tetrahydrofuran	ND		ug/l	10	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1
Ethyl ether	ND		ug/l	2.5	1

Project Name: YARD'S END**Lab Number:** L0906284**Project Number:** 31502-050**Report Date:** 05/22/09**SAMPLE RESULTS****Lab ID:** L0906284-01**Date Collected:** 05/15/09 10:20**Client ID:** HA-I8-5152009**Date Received:** 05/15/09**Sample Location:** Not Specified**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Isopropyl Ether	ND		ug/l	2.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	122		70-130
Dibromofluoromethane	107		70-130

Project Name: YARD'S END**Lab Number:** L0906284**Project Number:** 31502-050**Report Date:** 05/22/09**SAMPLE RESULTS**

Lab ID: L0906284-02
Client ID: HA-4-5152009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 05/22/09 14:40
Analyst: GK

Date Collected: 05/15/09 11:50
Date Received: 05/15/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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MCP Volatile Organics - Westborough Lab

Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: YARD'S END

Lab Number: L0906284

Project Number: 31502-050

Report Date: 05/22/09

SAMPLE RESULTS

Lab ID: L0906284-02

Date Collected: 05/15/09 11:50

Client ID: HA-4-5152009

Date Received: 05/15/09

Sample Location: Not Specified

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
Tetrahydrofuran	ND		ug/l	10	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1
Ethyl ether	ND		ug/l	2.5	1

Project Name: YARD'S END**Lab Number:** L0906284**Project Number:** 31502-050**Report Date:** 05/22/09**SAMPLE RESULTS****Lab ID:** L0906284-02**Date Collected:** 05/15/09 11:50**Client ID:** HA-4-5152009**Date Received:** 05/15/09**Sample Location:** Not Specified**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Isopropyl Ether	ND		ug/l	2.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	124		70-130
Dibromofluoromethane	105		70-130

Project Name: YARD'S END

Lab Number: L0906284

Project Number: 31502-050

Report Date: 05/22/09

SAMPLE RESULTS

Lab ID: L0906284-03
 Client ID: TRIP BLANK
 Sample Location: Not Specified
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/22/09 15:12
 Analyst: GK

Date Collected: 05/15/09 00:00
 Date Received: 05/15/09
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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MCP Volatile Organics - Westborough Lab

Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: YARD'S END**Lab Number:** L0906284**Project Number:** 31502-050**Report Date:** 05/22/09**SAMPLE RESULTS****Lab ID:** L0906284-03**Date Collected:** 05/15/09 00:00**Client ID:** TRIP BLANK**Date Received:** 05/15/09**Sample Location:** Not Specified**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
Tetrahydrofuran	ND		ug/l	10	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1
Ethyl ether	ND		ug/l	2.5	1

Project Name: YARD'S END**Lab Number:** L0906284**Project Number:** 31502-050**Report Date:** 05/22/09**SAMPLE RESULTS**

Lab ID: L0906284-03

Date Collected: 05/15/09 00:00

Client ID: TRIP BLANK

Date Received: 05/15/09

Sample Location: Not Specified

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Isopropyl Ether	ND		ug/l	2.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	130		70-130
Dibromofluoromethane	105		70-130

Project Name: YARD'S END

Lab Number: L0906284

Project Number: 31502-050

Report Date: 05/22/09

Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 05/22/09 11:58

Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG363669-3				

Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: YARD'S END

Lab Number: L0906284

Project Number: 31502-050

Report Date: 05/22/09

Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 05/22/09 11:58

Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG363669-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: YARD'S END

Lab Number: L0906284

Project Number: 31502-050

Report Date: 05/22/09

Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 05/22/09 11:58
 Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG363669-3				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END

Project Number: 31502-050

Lab Number: L0906284

Report Date: 05/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG363669-1 WG363669-2					
Methylene chloride	100	102	70-130	2	25
1,1-Dichloroethane	94	94	70-130	0	25
Chloroform	93	90	70-130	3	25
Carbon tetrachloride	78	79	70-130	1	25
1,2-Dichloropropane	92	91	70-130	1	25
Dibromochloromethane	71	71	70-130	0	25
1,1,2-Trichloroethane	88	86	70-130	2	25
Tetrachloroethene	84	81	70-130	4	25
Chlorobenzene	86	86	70-130	0	25
Trichlorofluoromethane	111	110	70-130	1	25
1,2-Dichloroethane	104	103	70-130	1	25
1,1,1-Trichloroethane	84	86	70-130	2	25
Bromodichloromethane	88	90	70-130	2	25
trans-1,3-Dichloropropene	71	71	70-130	0	25
cis-1,3-Dichloropropene	70	73	70-130	4	25
1,1-Dichloropropene	93	92	70-130	1	25
Bromoform	58	59	70-130	2	50
1,1,2,2-Tetrachloroethane	85	88	70-130	3	25
Benzene	87	86	70-130	1	25
Toluene	87	84	70-130	4	25
Ethylbenzene	88	88	70-130	0	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END

Project Number: 31502-050

Lab Number: L0906284

Report Date: 05/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG363669-1 WG363669-2					
Chloromethane	76	76	70-130	0	50
Bromomethane	88	85	70-130	3	50
Vinyl chloride	83	85	70-130	2	25
Chloroethane	90	88	70-130	2	25
1,1-Dichloroethene	87	86	70-130	1	25
trans-1,2-Dichloroethene	93	90	70-130	3	25
Trichloroethene	88	88	70-130	0	25
1,2-Dichlorobenzene	86	87	70-130	1	25
1,3-Dichlorobenzene	84	86	70-130	2	25
1,4-Dichlorobenzene	85	86	70-130	1	25
Methyl tert butyl ether	113	120	70-130	6	25
p/m-Xylene	87	87	70-130	0	25
o-Xylene	97	95	70-130	2	25
cis-1,2-Dichloroethene	87	88	70-130	1	25
Dibromomethane	89	92	70-130	3	25
1,2,3-Trichloropropane	94	100	70-130	6	25
Styrene	91	91	70-130	0	25
Dichlorodifluoromethane	54	53	70-130	2	50
Acetone	128	128	70-130	0	50
Carbon disulfide	83	80	70-130	4	50
2-Butanone	99	93	70-130	6	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END

Project Number: 31502-050

Lab Number: L0906284

Report Date: 05/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG363669-1 WG363669-2					
4-Methyl-2-pentanone	93	89	70-130	4	50
2-Hexanone	88	85	70-130	3	50
Bromochloromethane	86	84	70-130	2	25
Tetrahydrofuran	80	85	70-130	6	25
2,2-Dichloropropane	70	70	70-130	0	50
1,2-Dibromoethane	84	86	70-130	2	25
1,3-Dichloropropane	92	91	70-130	1	25
1,1,1,2-Tetrachloroethane	70	71	70-130	1	25
Bromobenzene	82	84	70-130	2	25
n-Butylbenzene	94	96	70-130	2	25
sec-Butylbenzene	90	93	70-130	3	25
tert-Butylbenzene	86	89	70-130	3	25
o-Chlorotoluene	92	94	70-130	2	25
p-Chlorotoluene	93	93	70-130	0	25
1,2-Dibromo-3-chloropropane	67	61	70-130	9	50
Hexachlorobutadiene	72	73	70-130	1	25
Isopropylbenzene	90	91	70-130	1	25
p-Isopropyltoluene	93	95	70-130	2	25
Naphthalene	92	92	70-130	0	25
n-Propylbenzene	90	93	70-130	3	25
1,2,3-Trichlorobenzene	89	88	70-130	1	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END

Project Number: 31502-050

Lab Number: L0906284

Report Date: 05/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG363669-1 WG363669-2					
1,2,4-Trichlorobenzene	83	81	70-130	2	25
1,3,5-Trimethylbenzene	87	89	70-130	2	25
1,2,4-Trimethylbenzene	88	90	70-130	2	25
Ethyl ether	118	129	70-130	9	25
Isopropyl Ether	105	110	70-130	5	25
Ethyl-Tert-Butyl-Ether	103	105	70-130	2	25
Tertiary-Amyl Methyl Ether	91	94	70-130	3	25
1,4-Dioxane	97	100	70-130	3	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119	120	70-130
Toluene-d8	101	100	70-130
4-Bromofluorobenzene	103	104	70-130
Dibromofluoromethane	105	103	70-130

SEMIVOLATILES

Project Name: YARD'S END**Lab Number:** L0906284**Project Number:** 31502-050**Report Date:** 05/22/09**SAMPLE RESULTS**

Lab ID: L0906284-01
Client ID: HA-I8-5152009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8270C
Analytical Date: 05/20/09 17:05
Analyst: AK

Date Collected: 05/15/09 10:20
Date Received: 05/15/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 05/18/09 21:17

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab					
1,2,4-Trichlorobenzene	ND		ug/l	4.9	1
Bis(2-chloroethyl)ether	ND		ug/l	4.9	1
1,2-Dichlorobenzene	ND		ug/l	4.9	1
1,3-Dichlorobenzene	ND		ug/l	4.9	1
1,4-Dichlorobenzene	ND		ug/l	4.9	1
3,3'-Dichlorobenzidine	ND		ug/l	9.8	1
2,4-Dinitrotoluene	ND		ug/l	4.9	1
2,6-Dinitrotoluene	ND		ug/l	4.9	1
Azobenzene	ND		ug/l	4.9	1
4-Bromophenyl phenyl ether	ND		ug/l	4.9	1
Bis(2-chloroisopropyl)ether	ND		ug/l	4.9	1
Bis(2-chloroethoxy)methane	ND		ug/l	4.9	1
Isophorone	ND		ug/l	4.9	1
Nitrobenzene	ND		ug/l	4.9	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	4.9	1
Butyl benzyl phthalate	ND		ug/l	4.9	1
Di-n-butylphthalate	ND		ug/l	4.9	1
Di-n-octylphthalate	ND		ug/l	4.9	1
Diethyl phthalate	ND		ug/l	4.9	1
Dimethyl phthalate	ND		ug/l	4.9	1
Aniline	ND		ug/l	20	1
4-Chloroaniline	ND		ug/l	4.9	1
Dibenzofuran	ND		ug/l	4.9	1
Acetophenone	ND		ug/l	20	1
2,4,6-Trichlorophenol	ND		ug/l	4.9	1
2-Chlorophenol	ND		ug/l	5.9	1
2,4-Dichlorophenol	ND		ug/l	9.8	1
2,4-Dimethylphenol	ND		ug/l	4.9	1
2-Nitrophenol	ND		ug/l	20	1
4-Nitrophenol	ND		ug/l	9.8	1

Project Name: YARD'S END**Lab Number:** L0906284**Project Number:** 31502-050**Report Date:** 05/22/09**SAMPLE RESULTS****Lab ID:** L0906284-01**Date Collected:** 05/15/09 10:20**Client ID:** HA-I8-5152009**Date Received:** 05/15/09**Sample Location:** Not Specified**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab					
2,4-Dinitrophenol	ND		ug/l	29	1
Phenol	ND		ug/l	6.8	1
2-Methylphenol	ND		ug/l	5.9	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.9	1
2,4,5-Trichlorophenol	ND		ug/l	4.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		15-110
Phenol-d6	38		15-110
Nitrobenzene-d5	57		30-130
2-Fluorobiphenyl	59		30-130
2,4,6-Tribromophenol	84		15-110
4-Terphenyl-d14	92		30-130

Project Name: YARD'S END**Lab Number:** L0906284**Project Number:** 31502-050**Report Date:** 05/22/09**SAMPLE RESULTS**

Lab ID: L0906284-01
Client ID: HA-I8-5152009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8270C-SIM
Analytical Date: 05/20/09 20:41
Analyst: HL

Date Collected: 05/15/09 10:20
Date Received: 05/15/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 05/18/09 21:21

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics by 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	0.49	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
2-Methylnaphthalene	ND		ug/l	0.20	1
Pentachlorophenol	ND		ug/l	0.78	1
Hexachlorobenzene	ND		ug/l	0.78	1
Hexachloroethane	ND		ug/l	0.78	1

Project Name: YARD'S END**Lab Number:** L0906284**Project Number:** 31502-050**Report Date:** 05/22/09**SAMPLE RESULTS**

Lab ID: L0906284-01

Date Collected: 05/15/09 10:20

Client ID: HA-I8-5152009

Date Received: 05/15/09

Sample Location: Not Specified

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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MCP Semivolatile Organics by SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		15-110
Phenol-d6	36		15-110
Nitrobenzene-d5	59		30-130
2-Fluorobiphenyl	54		30-130
2,4,6-Tribromophenol	94		15-110
4-Terphenyl-d14	73		30-130

Project Name: YARD'S END**Lab Number:** L0906284**Project Number:** 31502-050**Report Date:** 05/22/09**SAMPLE RESULTS**

Lab ID: L0906284-02
Client ID: HA-4-5152009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8270C
Analytical Date: 05/20/09 17:29
Analyst: AK

Date Collected: 05/15/09 11:50
Date Received: 05/15/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 05/18/09 21:17

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab					
1,2,4-Trichlorobenzene	ND		ug/l	4.8	1
Bis(2-chloroethyl)ether	ND		ug/l	4.8	1
1,2-Dichlorobenzene	ND		ug/l	4.8	1
1,3-Dichlorobenzene	ND		ug/l	4.8	1
1,4-Dichlorobenzene	ND		ug/l	4.8	1
3,3'-Dichlorobenzidine	ND		ug/l	9.7	1
2,4-Dinitrotoluene	ND		ug/l	4.8	1
2,6-Dinitrotoluene	ND		ug/l	4.8	1
Azobenzene	ND		ug/l	4.8	1
4-Bromophenyl phenyl ether	ND		ug/l	4.8	1
Bis(2-chloroisopropyl)ether	ND		ug/l	4.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	4.8	1
Isophorone	ND		ug/l	4.8	1
Nitrobenzene	ND		ug/l	4.8	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	4.8	1
Butyl benzyl phthalate	ND		ug/l	4.8	1
Di-n-butylphthalate	ND		ug/l	4.8	1
Di-n-octylphthalate	ND		ug/l	4.8	1
Diethyl phthalate	ND		ug/l	4.8	1
Dimethyl phthalate	ND		ug/l	4.8	1
Aniline	ND		ug/l	19	1
4-Chloroaniline	ND		ug/l	4.8	1
Dibenzofuran	ND		ug/l	4.8	1
Acetophenone	ND		ug/l	19	1
2,4,6-Trichlorophenol	ND		ug/l	4.8	1
2-Chlorophenol	ND		ug/l	5.8	1
2,4-Dichlorophenol	ND		ug/l	9.7	1
2,4-Dimethylphenol	ND		ug/l	4.8	1
2-Nitrophenol	ND		ug/l	19	1
4-Nitrophenol	ND		ug/l	9.7	1

Project Name: YARD'S END**Lab Number:** L0906284**Project Number:** 31502-050**Report Date:** 05/22/09**SAMPLE RESULTS**

Lab ID: L0906284-02

Date Collected: 05/15/09 11:50

Client ID: HA-4-5152009

Date Received: 05/15/09

Sample Location: Not Specified

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab					
2,4-Dinitrophenol	ND		ug/l	29	1
Phenol	ND		ug/l	6.8	1
2-Methylphenol	ND		ug/l	5.8	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.8	1
2,4,5-Trichlorophenol	ND		ug/l	4.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		15-110
Phenol-d6	35		15-110
Nitrobenzene-d5	52		30-130
2-Fluorobiphenyl	58		30-130
2,4,6-Tribromophenol	86		15-110
4-Terphenyl-d14	93		30-130

Project Name: YARD'S END**Lab Number:** L0906284**Project Number:** 31502-050**Report Date:** 05/22/09**SAMPLE RESULTS**

Lab ID: L0906284-02
Client ID: HA-4-5152009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8270C-SIM
Analytical Date: 05/20/09 21:11
Analyst: HL

Date Collected: 05/15/09 11:50
Date Received: 05/15/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 05/18/09 21:21

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Semivolatile Organics by SIM - Westborough Lab					
Acenaphthene	ND		ug/l	0.19	1
2-Chloronaphthalene	ND		ug/l	0.19	1
Fluoranthene	ND		ug/l	0.19	1
Hexachlorobutadiene	ND		ug/l	0.48	1
Naphthalene	ND		ug/l	0.19	1
Benzo(a)anthracene	ND		ug/l	0.19	1
Benzo(a)pyrene	ND		ug/l	0.19	1
Benzo(b)fluoranthene	ND		ug/l	0.19	1
Benzo(k)fluoranthene	ND		ug/l	0.19	1
Chrysene	ND		ug/l	0.19	1
Acenaphthylene	ND		ug/l	0.19	1
Anthracene	ND		ug/l	0.19	1
Benzo(ghi)perylene	ND		ug/l	0.19	1
Fluorene	ND		ug/l	0.19	1
Phenanthrene	ND		ug/l	0.19	1
Dibenzo(a,h)anthracene	ND		ug/l	0.19	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.19	1
Pyrene	ND		ug/l	0.19	1
2-Methylnaphthalene	ND		ug/l	0.19	1
Pentachlorophenol	ND		ug/l	0.78	1
Hexachlorobenzene	ND		ug/l	0.78	1
Hexachloroethane	ND		ug/l	0.78	1

Project Name: YARD'S END**Lab Number:** L0906284**Project Number:** 31502-050**Report Date:** 05/22/09**SAMPLE RESULTS**

Lab ID: L0906284-02

Date Collected: 05/15/09 11:50

Client ID: HA-4-5152009

Date Received: 05/15/09

Sample Location: Not Specified

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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MCP Semivolatile Organics by SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		15-110
Phenol-d6	35		15-110
Nitrobenzene-d5	56		30-130
2-Fluorobiphenyl	50		30-130
2,4,6-Tribromophenol	101		15-110
4-Terphenyl-d14	84		30-130

Project Name: YARD'S END

Lab Number: L0906284

Project Number: 31502-050

Report Date: 05/22/09

Method Blank Analysis Batch Quality Control

Analytical Method: 64,8270C
 Analytical Date: 05/20/09 14:21
 Analyst: AK

Extraction Method: EPA 3510C
 Extraction Date: 05/18/09 21:17

Parameter	Result	Qualifier	Units	RDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG362908-1				
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	10
2,4-Dinitrotoluene	ND		ug/l	5.0
2,6-Dinitrotoluene	ND		ug/l	5.0
Azobenzene	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
Isophorone	ND		ug/l	5.0
Nitrobenzene	ND		ug/l	5.0
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
Dibenzofuran	ND		ug/l	5.0
Acetophenone	ND		ug/l	20
2,4,6-Trichlorophenol	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	5.0
2-Nitrophenol	ND		ug/l	20
4-Nitrophenol	ND		ug/l	10
2,4-Dinitrophenol	ND		ug/l	30

Project Name: YARD'S END

Lab Number: L0906284

Project Number: 31502-050

Report Date: 05/22/09

Method Blank Analysis Batch Quality Control

Analytical Method: 64,8270C
 Analytical Date: 05/20/09 14:21
 Analyst: AK

Extraction Method: EPA 3510C
 Extraction Date: 05/18/09 21:17

Parameter	Result	Qualifier	Units	RDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG362908-1				
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		15-110
Phenol-d6	27		15-110
Nitrobenzene-d5	60		30-130
2-Fluorobiphenyl	61		30-130
2,4,6-Tribromophenol	67		15-110
4-Terphenyl-d14	82		30-130

Project Name: YARD'S END

Lab Number: L0906284

Project Number: 31502-050

Report Date: 05/22/09

Method Blank Analysis Batch Quality Control

Analytical Method: 64,8270C-SIM

Extraction Method: EPA 3510C

Analytical Date: 05/20/09 16:59

Extraction Date: 05/18/09 21:21

Analyst: HL

Parameter	Result	Qualifier	Units	RDL
MCP Semivolatile Organics by SIM - Westborough Lab for sample(s): 01-02 Batch: WG362909-1				
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
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: YARD'S END

Lab Number: L0906284

Project Number: 31502-050

Report Date: 05/22/09

Method Blank Analysis Batch Quality Control

Analytical Method: 64,8270C-SIM

Extraction Method: EPA 3510C

Analytical Date: 05/20/09 16:59

Extraction Date: 05/18/09 21:21

Analyst: HL

Parameter	Result	Qualifier	Units	RDL
MCP Semivolatile Organics by SIM - Westborough Lab for sample(s): 01-02 Batch: WG362909-1				

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		15-110
Phenol-d6	29		15-110
Nitrobenzene-d5	72		30-130
2-Fluorobiphenyl	60		30-130
2,4,6-Tribromophenol	82		15-110
4-Terphenyl-d14	89		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END

Project Number: 31502-050

Lab Number: L0906284

Report Date: 05/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG362908-2 WG362908-3					
1,2,4-Trichlorobenzene	59	58	40-140	2	20
Bis(2-chloroethyl)ether	64	67	40-140	5	20
1,2-Dichlorobenzene	59	58	40-140	2	20
1,3-Dichlorobenzene	58	58	40-140	0	20
1,4-Dichlorobenzene	55	57	40-140	4	20
3,3'-Dichlorobenzidine	77	80	40-140	4	20
2,4-Dinitrotoluene	83	90	40-140	8	20
2,6-Dinitrotoluene	79	79	40-140	0	20
Azobenzene	84	85	40-140	1	20
4-Bromophenyl phenyl ether	83	80	40-140	4	20
Bis(2-chloroisopropyl)ether	72	72	40-140	0	20
Bis(2-chloroethoxy)methane	66	69	40-140	4	20
Isophorone	67	66	40-140	2	20
Nitrobenzene	68	68	40-140	0	20
Bis(2-Ethylhexyl)phthalate	91	91	40-140	0	20
Butyl benzyl phthalate	91	91	40-140	0	20
Di-n-butylphthalate	94	95	40-140	1	20
Di-n-octylphthalate	84	86	40-140	2	20
Diethyl phthalate	83	85	40-140	2	20
Dimethyl phthalate	82	85	40-140	4	20
Aniline	31	32	40-140	3	20

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END

Project Number: 31502-050

Lab Number: L0906284

Report Date: 05/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG362908-2 WG362908-3					
4-Chloroaniline	51	56	40-140	9	20
Dibenzofuran	79	82	40-140	4	20
Acetophenone	138	138	40-140	0	20
2,4,6-Trichlorophenol	72	75	30-130	4	20
2-Chlorophenol	62	62	30-130	0	20
2,4-Dichlorophenol	72	70	30-130	3	20
2,4-Dimethylphenol	51	51	30-130	0	20
2-Nitrophenol	67	72	30-130	7	20
4-Nitrophenol	50	53	30-130	6	20
2,4-Dinitrophenol	34	38	30-130	11	20
Phenol	35	33	30-130	6	20
2-Methylphenol	58	60	30-130	3	20
3-Methylphenol/4-Methylphenol	55	57	30-130	4	20
2,4,5-Trichlorophenol	81	76	30-130	6	20

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END

Project Number: 31502-050

Lab Number: L0906284

Report Date: 05/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG362908-2 WG362908-3					

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		46		15-110
Phenol-d6	32		31		15-110
Nitrobenzene-d5	71		68		30-130
2-Fluorobiphenyl	74		72		30-130
2,4,6-Tribromophenol	93		92		15-110
4-Terphenyl-d14	92		92		30-130

MCP Semivolatile Organics by SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG362909-2 WG362909-3					
Acenaphthene	56	61	40-140	9	20
2-Chloronaphthalene	49	64	40-140	27	20
Fluoranthene	84	84	40-140	0	20
Hexachlorobutadiene	46	56	40-140	20	20
Naphthalene	49	56	40-140	13	20
Benzo(a)anthracene	73	75	40-140	3	20
Benzo(a)pyrene	69	69	40-140	0	20
Benzo(b)fluoranthene	84	80	40-140	5	20
Benzo(k)fluoranthene	84	84	40-140	0	20

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END

Project Number: 31502-050

Lab Number: L0906284

Report Date: 05/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Semivolatile Organics by SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG362909-2 WG362909-3					
Chrysene	85	83	40-140	2	20
Acenaphthylene	53	70	40-140	28	20
Anthracene	66	68	40-140	3	20
Benzo(ghi)perylene	72	72	40-140	0	20
Fluorene	60	67	40-140	11	20
Phenanthrene	67	71	40-140	6	20
Dibenzo(a,h)anthracene	83	87	40-140	5	20
Indeno(1,2,3-cd)Pyrene	77	79	40-140	3	20
Pyrene	85	82	40-140	4	20
2-Methylnaphthalene	53	65	40-140	20	20
Pentachlorophenol	50	52	30-130	4	20
Hexachlorobenzene	89	72	40-140	21	20
Hexachloroethane	37	46	40-140	22	20

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
2-Fluorophenol	37	44	15-110
Phenol-d6	24	28	15-110
Nitrobenzene-d5	54	65	30-130
2-Fluorobiphenyl	52	67	30-130
2,4,6-Tribromophenol	85	91	15-110
4-Terphenyl-d14	89	84	30-130

PETROLEUM HYDROCARBONS

Project Name: YARD'S END**Lab Number:** L0906284**Project Number:** 31502-050**Report Date:** 05/22/09**SAMPLE RESULTS**

Lab ID: L0906284-01
Client ID: HA-I8-5152009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 59, VPH-04-1.1
Analytical Date: 05/19/09 00:05
Analyst: RC

Date Collected: 05/15/09 10:20
Date Received: 05/15/09
Field Prep: See Narrative

Quality Control Information

Condition of sample received: Satisfactory
Aqueous Preservative: Laboratory Provided Preserved Container
Sample Temperature upon receipt: Received on Ice

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Volatile Petroleum Hydrocarbons - Westborough Lab

C5-C8 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C10 Aromatics	ND		ug/l	50.0	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	110		70-130
2,5-Dibromotoluene-FID	118		70-130

Project Name: YARD'S END

Lab Number: L0906284

Project Number: 31502-050

Report Date: 05/22/09

SAMPLE RESULTS

Lab ID: L0906284-01
 Client ID: HA-I8-5152009
 Sample Location: Not Specified
 Matrix: Water
 Analytical Method: 61,EPH-04-1
 Analytical Date: 05/21/09 13:07
 Analyst: AS

Date Collected: 05/15/09 10:20
 Date Received: 05/15/09
 Field Prep: See Narrative
 Extraction Method: EPA 3510C
 Extraction Date: 05/16/09 22:53
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 05/21/09

Quality Control Information

Condition of sample received: Satisfactory
 Aqueous Preservative: Laboratory Provided Preserved Container
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

C9-C18 Aliphatics	ND		ug/l	105	1
C19-C36 Aliphatics	ND		ug/l	105	1
C11-C22 Aromatics, Unadjusted	ND		ug/l	105	1
C11-C22 Aromatics, Adjusted	ND		ug/l	105	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	61		40-140
o-Terphenyl	86		40-140
2-Fluorobiphenyl	86		40-140
2-Bromonaphthalene	86		40-140

Project Name: YARD'S END**Lab Number:** L0906284**Project Number:** 31502-050**Report Date:** 05/22/09**SAMPLE RESULTS**

Lab ID: L0906284-02
Client ID: HA-4-5152009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 59, VPH-04-1.1
Analytical Date: 05/19/09 00:55
Analyst: RC

Date Collected: 05/15/09 11:50
Date Received: 05/15/09
Field Prep: See Narrative

Quality Control Information

Condition of sample received: Satisfactory
Aqueous Preservative: Laboratory Provided Preserved Container
Sample Temperature upon receipt: Received on Ice

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Volatile Petroleum Hydrocarbons - Westborough Lab

C5-C8 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C10 Aromatics	ND		ug/l	50.0	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	98		70-130
2,5-Dibromotoluene-FID	103		70-130

Project Name: YARD'S END

Lab Number: L0906284

Project Number: 31502-050

Report Date: 05/22/09

SAMPLE RESULTS

Lab ID: L0906284-02
 Client ID: HA-4-5152009
 Sample Location: Not Specified
 Matrix: Water
 Analytical Method: 61,EPH-04-1
 Analytical Date: 05/20/09 18:21
 Analyst: AS

Date Collected: 05/15/09 11:50
 Date Received: 05/15/09
 Field Prep: See Narrative
 Extraction Method: EPA 3510C
 Extraction Date: 05/16/09 22:53
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 05/21/09

Quality Control Information

Condition of sample received: Satisfactory
 Aqueous Preservative: Laboratory Provided Preserved Container
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

C9-C18 Aliphatics	ND		ug/l	104	1
C19-C36 Aliphatics	ND		ug/l	104	1
C11-C22 Aromatics, Unadjusted	ND		ug/l	104	1
C11-C22 Aromatics, Adjusted	ND		ug/l	104	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	76		40-140
o-Terphenyl	72		40-140
2-Fluorobiphenyl	80		40-140
2-Bromonaphthalene	81		40-140

Project Name: YARD'S END

Lab Number: L0906284

Project Number: 31502-050

Report Date: 05/22/09

Method Blank Analysis Batch Quality Control

Analytical Method: 59, VPH-04-1.1

Analytical Date: 05/18/09 13:15

Analyst: RC

Parameter	Result	Qualifier	Units	RDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-02 Batch: WG362777-3				
C5-C8 Aliphatics, Unadjusted	ND		ug/l	50.0
C9-C12 Aliphatics, Unadjusted	ND		ug/l	50.0
C9-C10 Aromatics	ND		ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	124		70-130
2,5-Dibromotoluene-FID	126		70-130

Project Name: YARD'S END

Lab Number: L0906284

Project Number: 31502-050

Report Date: 05/22/09

Method Blank Analysis Batch Quality Control

Analytical Method: 61,EPH-04-1
 Analytical Date: 05/20/09 13:21
 Analyst: AS

Extraction Method: EPA 3510C
 Extraction Date: 05/16/09 22:53
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 05/21/09

Parameter	Result	Qualifier	Units	RDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-02 Batch: WG363409-1				
C9-C18 Aliphatics	ND		ug/l	100
C19-C36 Aliphatics	ND		ug/l	100
C11-C22 Aromatics, Unadjusted	ND		ug/l	100
C11-C22 Aromatics, Adjusted	ND		ug/l	100

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	69		40-140
2-Fluorobiphenyl	77		40-140
2-Bromonaphthalene	83		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END

Project Number: 31502-050

Lab Number: L0906284

Report Date: 05/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-02 Batch: WG362777-1 WG362777-2					
C5-C8 Aliphatics	92	93	70-130	1	25
C9-C12 Aliphatics	100	99	70-130	1	25
C9-C10 Aromatics	94	93	70-130	1	25
Benzene	91	89	70-130	1	25
Toluene	92	92	70-130	0	25
Ethylbenzene	93	93	70-130	0	25
p/m-Xylene	92	92	70-130	0	25
o-Xylene	93	93	70-130	0	25
Methyl tert butyl ether	91	87	70-130	4	25
Naphthalene	112	108	70-130	4	25
1,2,4-Trimethylbenzene	93	92	70-130	2	25
Pentane	86	86	70-130	0	25
2-Methylpentane	92	93	70-130	1	25
2,2,4-Trimethylpentane	99	98	70-130	1	25
n-Nonane	101	100	30-130	1	25
n-Decane	104	102	70-130	2	25
n-Butylcyclohexane	101	100	70-130	1	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END

Project Number: 31502-050

Lab Number: L0906284

Report Date: 05/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
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Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-02 Batch: WG362777-1 WG362777-2

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	126		123		70-130
2,5-Dibromotoluene-FID	130		128		70-130

Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-02 Batch: WG363409-2 WG363409-3

C9-C18 Aliphatics	66	46	40-140	36	25
C19-C36 Aliphatics	64	57	40-140	12	25
C11-C22 Aromatics	91	73	40-140	22	25
Naphthalene	82	57	40-140	36	25
2-Methylnaphthalene	86	60	40-140	36	25
Acenaphthylene	81	62	40-140	27	25
Acenaphthene	83	63	40-140	27	25
Fluorene	85	68	40-140	22	25
Phenanthrene	94	77	40-140	20	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END

Project Number: 31502-050

Lab Number: L0906284

Report Date: 05/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-02 Batch: WG363409-2 WG363409-3					
Anthracene	88	74	40-140	17	25
Fluoranthene	92	77	40-140	18	25
Pyrene	92	78	40-140	16	25
Benzo(a)anthracene	88	74	40-140	17	25
Chrysene	91	75	40-140	19	25
Benzo(b)fluoranthene	88	74	40-140	17	25
Benzo(k)fluoranthene	90	74	40-140	20	25
Benzo(a)pyrene	79	70	40-140	12	25
Indeno(1,2,3-cd)Pyrene	84	72	40-140	15	25
Dibenzo(a,h)anthracene	83	70	40-140	17	25
Benzo(ghi)perylene	80	71	40-140	12	25
Nonane (C9)	60	31	30-140	64	25
Decane (C10)	68	37	40-140	59	25
Dodecane (C12)	73	45	40-140	47	25
Tetradecane (C14)	71	54	40-140	27	25
Hexadecane (C16)	70	57	40-140	20	25
Octadecane (C18)	69	59	40-140	16	25
Nonadecane (C19)	70	61	40-140	14	25
Eicosane (C20)	69	61	40-140	12	25
Docosane (C22)	69	62	40-140	11	25
Tetracosane (C24)	69	62	40-140	11	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END

Project Number: 31502-050

Lab Number: L0906284

Report Date: 05/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-02 Batch: WG363409-2 WG363409-3					
Hexacosane (C26)	69	62	40-140	11	25
Octacosane (C28)	67	61	40-140	9	25
Triacontane (C30)	70	63	40-140	11	25
Hexatriacontane (C36)	72	65	40-140	10	25

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
Chloro-Octadecane	58	56	40-140
o-Terphenyl	89	72	40-140
2-Fluorobiphenyl	82	71	40-140
2-Bromonaphthalene	81	75	40-140
% Naphthalene Breakthrough	0	0	
% 2-Methylnaphthalene Breakthrough	0	0	

Project Name: YARD'S END
Project Number: 31502-050

Lab Number: L0906284
Report Date: 05/22/09

**Fractionation Check Standard
Quality Control**

Fractionation check standard for 200818205

Parameter	% Recovery	QC Criteria
C9-C18 Aliphatics	77	40-140
C19-C36 Aliphatics	76	40-140
C11-C22 Aromatics	86	40-140
Naphthalene	82	40-140
2-Methylnaphthalene	78	40-140
Acenaphthylene	76	40-140
Acenaphthene	80	40-140
Fluorene	79	40-140
Phenanthrene	78	40-140
Anthracene	82	40-140
Fluoranthene	84	40-140
Pyrene	84	40-140
Benzo(a)anthracene	82	40-140
Chrysene	88	40-140
Benzo(b)fluoranthene	81	40-140
Benzo(k)fluoranthene	97	40-140
Benzo(a)pyrene	78	40-140
Indeno(1,2,3-cd)Pyrene	76	40-140
Dibenzo(a,h)anthracene	83	40-140
Benzo(g,h,i)perylene	82	40-140
Nonane	72	30-140
Decane	77	40-140
Dodecane	80	40-140
Tetradecane	76	40-140
Hexadecane	78	40-140
Octadecane	76	40-140
Nonadecane	75	40-140
Eicosane	77	40-140
Docosane	79	40-140
Tetracosane	83	40-140
Hexacosane	78	40-140
Octacosane	77	40-140
triacontane	76	40-140
Hexatriacontane	75	40-140
% Naphthalene Breakthrough	0	0-5
% 2-Methylnaphthalene Breakthrough	0	0-5

Project Name: YARD'S END**Lab Number:** L0906284**Project Number:** 31502-050**Report Date:** 05/22/09**Fractionation Check Standard
Quality Control**

Fractionation check standard for 200818205

Surrogate	% Recovery	QC Criteria
Chloro-Octadecane	66	40-140
o-Terphenyl	83	40-140
2-Fluorobiphenyl	75	40-140
2-Bromonaphthalene	76	40-140

PCBS

Project Name: YARD'S END**Lab Number:** L0906284**Project Number:** 31502-050**Report Date:** 05/22/09**SAMPLE RESULTS**

Lab ID: L0906284-01
Client ID: HA-I8-5152009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8082
Analytical Date: 05/19/09 19:13
Analyst: SH

Date Collected: 05/15/09 10:20
Date Received: 05/15/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 05/17/09 15:43
Cleanup Method1: EPA 3665A
Cleanup Date1: 05/19/09

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab					
Aroclor 1016	ND		ug/l	0.266	1
Aroclor 1221	ND		ug/l	0.266	1
Aroclor 1232	ND		ug/l	0.266	1
Aroclor 1242	ND		ug/l	0.266	1
Aroclor 1248	ND		ug/l	0.266	1
Aroclor 1254	ND		ug/l	0.266	1
Aroclor 1260	ND		ug/l	0.266	1
Aroclor 1262	ND		ug/l	0.266	1
Aroclor 1268	ND		ug/l	0.266	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: YARD'S END**Lab Number:** L0906284**Project Number:** 31502-050**Report Date:** 05/22/09**SAMPLE RESULTS**

Lab ID: L0906284-02
Client ID: HA-4-5152009
Sample Location: Not Specified
Matrix: Water
Analytical Method: 64,8082
Analytical Date: 05/19/09 19:25
Analyst: SH

Date Collected: 05/15/09 11:50
Date Received: 05/15/09
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 05/17/09 15:43
Cleanup Method1: EPA 3665A
Cleanup Date1: 05/19/09

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab					
Aroclor 1016	ND		ug/l	0.260	1
Aroclor 1221	ND		ug/l	0.260	1
Aroclor 1232	ND		ug/l	0.260	1
Aroclor 1242	ND		ug/l	0.260	1
Aroclor 1248	ND		ug/l	0.260	1
Aroclor 1254	ND		ug/l	0.260	1
Aroclor 1260	ND		ug/l	0.260	1
Aroclor 1262	ND		ug/l	0.260	1
Aroclor 1268	ND		ug/l	0.260	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	46		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: YARD'S END

Lab Number: L0906284

Project Number: 31502-050

Report Date: 05/22/09

Method Blank Analysis Batch Quality Control

Analytical Method: 64,8082
 Analytical Date: 05/19/09 18:24
 Analyst: SH

Extraction Method: EPA 3510C
 Extraction Date: 05/17/09 15:43
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 05/19/09

Parameter	Result	Qualifier	Units	RDL
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-02 Batch: WG362751-1				
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
Aroclor 1262	ND		ug/l	0.250
Aroclor 1268	ND		ug/l	0.250

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	101		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END

Lab Number: L0906284

Project Number: 31502-050

Report Date: 05/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-02 Batch: WG362751-2 WG362751-3					
Aroclor 1016	68	83	40-140	19	20
Aroclor 1260	90	98	40-140	8	20

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		63		30-150	A
Decachlorobiphenyl	100		102		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		68		30-150	B
Decachlorobiphenyl	126		124		30-150	B

METALS

Project Name: YARD'S END

Lab Number: L0906284

Project Number: 31502-050

Report Date: 05/22/09

SAMPLE RESULTS

Lab ID: L0906284-01
 Client ID: HA-I8-5152009
 Sample Location: Not Specified
 Matrix: Water

Date Collected: 05/15/09 10:20
 Date Received: 05/15/09
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Antimony, Dissolved	ND		mg/l	0.0020	4	05/19/09 12:30	05/21/09 16:40	EPA 3005A	64,6020A	BM
Arsenic, Dissolved	ND		mg/l	0.005	1	05/18/09 09:35	05/19/09 13:46	EPA 3005A	60,6010B	AI
Barium, Dissolved	0.030		mg/l	0.010	1	05/18/09 09:35	05/19/09 13:46	EPA 3005A	60,6010B	AI
Beryllium, Dissolved	ND		mg/l	0.004	1	05/18/09 09:35	05/19/09 13:46	EPA 3005A	60,6010B	AI
Cadmium, Dissolved	ND		mg/l	0.004	1	05/18/09 09:35	05/19/09 13:46	EPA 3005A	60,6010B	AI
Chromium, Dissolved	ND		mg/l	0.01	1	05/18/09 09:35	05/19/09 13:46	EPA 3005A	60,6010B	AI
Lead, Dissolved	ND		mg/l	0.010	1	05/18/09 09:35	05/19/09 13:46	EPA 3005A	60,6010B	AI
Mercury, Dissolved	ND		mg/l	0.0002	1	05/18/09 17:10	05/19/09 12:29	EPA 7470A	64,7470A	EZ
Nickel, Dissolved	ND		mg/l	0.025	1	05/18/09 09:35	05/19/09 13:46	EPA 3005A	60,6010B	AI
Selenium, Dissolved	ND		mg/l	0.010	1	05/18/09 09:35	05/19/09 13:46	EPA 3005A	60,6010B	AI
Silver, Dissolved	ND		mg/l	0.007	1	05/18/09 09:35	05/19/09 13:46	EPA 3005A	60,6010B	AI
Thallium, Dissolved	ND		mg/l	0.0020	4	05/19/09 12:30	05/21/09 16:40	EPA 3005A	64,6020A	BM
Vanadium, Dissolved	ND		mg/l	0.010	1	05/18/09 09:35	05/19/09 13:46	EPA 3005A	60,6010B	AI
Zinc, Dissolved	0.096		mg/l	0.050	1	05/18/09 09:35	05/19/09 13:46	EPA 3005A	60,6010B	AI



Project Name: YARD'S END

Lab Number: L0906284

Project Number: 31502-050

Report Date: 05/22/09

SAMPLE RESULTS

Lab ID: L0906284-02
 Client ID: HA-4-5152009
 Sample Location: Not Specified
 Matrix: Water

Date Collected: 05/15/09 11:50
 Date Received: 05/15/09
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Antimony, Dissolved	ND		mg/l	0.0020	4	05/19/09 12:30	05/21/09 17:03	EPA 3005A	64,6020A	BM
Arsenic, Dissolved	ND		mg/l	0.005	1	05/18/09 09:35	05/19/09 13:49	EPA 3005A	60,6010B	AI
Barium, Dissolved	0.039		mg/l	0.010	1	05/18/09 09:35	05/19/09 13:49	EPA 3005A	60,6010B	AI
Beryllium, Dissolved	ND		mg/l	0.004	1	05/18/09 09:35	05/19/09 13:49	EPA 3005A	60,6010B	AI
Cadmium, Dissolved	ND		mg/l	0.004	1	05/18/09 09:35	05/19/09 13:49	EPA 3005A	60,6010B	AI
Chromium, Dissolved	ND		mg/l	0.01	1	05/18/09 09:35	05/19/09 13:49	EPA 3005A	60,6010B	AI
Lead, Dissolved	0.022		mg/l	0.010	1	05/18/09 09:35	05/19/09 13:49	EPA 3005A	60,6010B	AI
Mercury, Dissolved	ND		mg/l	0.0002	1	05/18/09 17:10	05/19/09 12:31	EPA 7470A	64,7470A	EZ
Nickel, Dissolved	ND		mg/l	0.025	1	05/18/09 09:35	05/19/09 13:49	EPA 3005A	60,6010B	AI
Selenium, Dissolved	ND		mg/l	0.010	1	05/18/09 09:35	05/19/09 13:49	EPA 3005A	60,6010B	AI
Silver, Dissolved	ND		mg/l	0.007	1	05/18/09 09:35	05/19/09 13:49	EPA 3005A	60,6010B	AI
Thallium, Dissolved	ND		mg/l	0.0020	4	05/19/09 12:30	05/21/09 17:03	EPA 3005A	64,6020A	BM
Vanadium, Dissolved	ND		mg/l	0.010	1	05/18/09 09:35	05/19/09 13:49	EPA 3005A	60,6010B	AI
Zinc, Dissolved	0.212		mg/l	0.050	1	05/18/09 09:35	05/19/09 13:49	EPA 3005A	60,6010B	AI



Project Name: YARD'S END

Lab Number: L0906284

Project Number: 31502-050

Report Date: 05/22/09

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 01-02 Batch: WG362797-1								
Arsenic, Dissolved	ND	mg/l	0.005	1	05/18/09 09:35	05/19/09 13:00	60,6010B	AI
Barium, Dissolved	ND	mg/l	0.010	1	05/18/09 09:35	05/19/09 13:00	60,6010B	AI
Beryllium, Dissolved	ND	mg/l	0.004	1	05/18/09 09:35	05/19/09 13:00	60,6010B	AI
Cadmium, Dissolved	ND	mg/l	0.004	1	05/18/09 09:35	05/19/09 13:00	60,6010B	AI
Chromium, Dissolved	ND	mg/l	0.01	1	05/18/09 09:35	05/19/09 13:00	60,6010B	AI
Lead, Dissolved	ND	mg/l	0.010	1	05/18/09 09:35	05/19/09 13:00	60,6010B	AI
Nickel, Dissolved	ND	mg/l	0.025	1	05/18/09 09:35	05/19/09 13:00	60,6010B	AI
Selenium, Dissolved	ND	mg/l	0.010	1	05/18/09 09:35	05/19/09 13:00	60,6010B	AI
Silver, Dissolved	ND	mg/l	0.007	1	05/18/09 09:35	05/19/09 13:00	60,6010B	AI
Vanadium, Dissolved	ND	mg/l	0.010	1	05/18/09 09:35	05/19/09 13:00	60,6010B	AI
Zinc, Dissolved	ND	mg/l	0.050	1	05/18/09 09:35	05/19/09 13:00	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 01-02 Batch: WG362890-1								
Mercury, Dissolved	ND	mg/l	0.0002	1	05/18/09 17:10	05/19/09 11:37	64,7470A	EZ

Prep Information

Digestion Method: EPA 7470A

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 01-02 Batch: WG363011-1								
Antimony, Dissolved	ND	mg/l	0.0005	1	05/19/09 12:30	05/21/09 15:59	64,6020A	BM
Thallium, Dissolved	ND	mg/l	0.0005	1	05/19/09 12:30	05/21/09 15:59	64,6020A	BM

Project Name: YARD'S END

Lab Number: L0906284

Project Number: 31502-050

Report Date: 05/22/09

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: YARD'S END

Project Number: 31502-050

Lab Number: L0906284

Report Date: 05/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Dissolved Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG362797-2 WG362797-3					
Arsenic, Dissolved	110	110	80-120	0	20
Barium, Dissolved	104	104	80-120	0	20
Beryllium, Dissolved	108	109	80-120	1	20
Cadmium, Dissolved	112	111	80-120	1	20
Chromium, Dissolved	105	105	80-120	0	20
Lead, Dissolved	107	107	80-120	0	20
Nickel, Dissolved	105	105	80-120	0	20
Selenium, Dissolved	110	111	80-120	1	20
Silver, Dissolved	104	104	80-120	0	20
Vanadium, Dissolved	105	104	80-120	1	20
Zinc, Dissolved	109	108	80-120	1	20
MCP Dissolved Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG362890-2 WG362890-3					
Mercury, Dissolved	109	107	80-120	2	20
MCP Dissolved Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG363011-2 WG363011-3					
Antimony, Dissolved	95	100	80-120	5	20
Thallium, Dissolved	90	94	80-120	4	20

Project Name: YARD'S END

Project Number: 31502-050

Lab Number: L0906284

Report Date: 05/22/09

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	Pres	Seal	Analysis
L0906284-01A	Vial HCl preserved	A	N/A	4	Y	Absent	MCP-8260-04(14)
L0906284-01B	Vial HCl preserved	A	N/A	4	Y	Absent	MCP-8260-04(14)
L0906284-01C	Vial HCl preserved	A	N/A	4	Y	Absent	VPH-04(14)
L0906284-01D	Vial HCl preserved	A	N/A	4	Y	Absent	VPH-04(14)
L0906284-01E	Plastic 500ml HNO3 preserved	A	<2	4	Y	Absent	MCP-AG-6010S(180),MCP-BA-6010S(180),MCP-SB-6020S(180),MCP-SE-6010S(180),MCP-BE-6010S(180),MCP-NI-6010S(180),MCP-CD-6010S(180),MCP-TL-6020S(180),MCP-7470S(28),MCP-CR-6010S(180),MCP-PB-6010S(180),MCP-ZN-6010S(180),MCP-AS-6010S(180),MCP-V-6010S(180)
L0906284-01F	Amber 1000ml unpreserved	A	7	4	Y	Absent	MCP-8270-04(7),MCP-8270SIM-04(7)
L0906284-01G	Amber 1000ml unpreserved	A	7	4	Y	Absent	MCP-8270-04(7),MCP-8270SIM-04(7)
L0906284-01I	Amber 1000ml HCl preserved	A	<2	4	Y	Absent	EPH-04(14)
L0906284-01J	Amber 1000ml HCl preserved	A	<2	4	Y	Absent	EPH-04(14)
L0906284-01K	Amber 1000ml unpreserved	A	7	4	Y	Absent	MCP-8082-04(7)
L0906284-01L	Amber 1000ml unpreserved	A	7	4	Y	Absent	MCP-8082-04(7)
L0906284-02A	Vial HCl preserved	A	N/A	4	Y	Absent	MCP-8260-04(14)
L0906284-02B	Vial HCl preserved	A	N/A	4	Y	Absent	MCP-8260-04(14)
L0906284-02C	Vial HCl preserved	A	N/A	4	Y	Absent	VPH-04(14)
L0906284-02D	Vial HCl preserved	A	N/A	4	Y	Absent	VPH-04(14)
L0906284-02E	Plastic 500ml HNO3 preserved	A	<2	4	Y	Absent	MCP-AG-6010S(180),MCP-BA-6010S(180),MCP-SB-6020S(180),MCP-SE-6010S(180),MCP-BE-6010S(180),MCP-NI-6010S(180),MCP-CD-6010S(180),MCP-TL-6020S(180),MCP-7470S(28),MCP-CR-6010S(180),MCP-PB-6010S(180),MCP-ZN-6010S(180),MCP-AS-6010S(180),MCP-V-6010S(180)
L0906284-02F	Amber 1000ml unpreserved	A	7	4	Y	Absent	MCP-8270-04(7),MCP-8270SIM-04(7)
L0906284-02G	Amber 1000ml unpreserved	A	7	4	Y	Absent	MCP-8270-04(7),MCP-8270SIM-04(7)

*Hold days indicated by values in parentheses



Project Name: YARD'S END**Project Number:** 31502-050**Lab Number:** L0906284**Report Date:** 05/22/09**Container Information**

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0906284-02I	Amber 1000ml HCl preserved	A	<2	4	Y	Absent	EPH-04(14)
L0906284-02J	Amber 1000ml HCl preserved	A	<2	4	Y	Absent	EPH-04(14)
L0906284-02K	Amber 1000ml unpreserved	A	7	4	Y	Absent	MCP-8082-04(7)
L0906284-02L	Amber 1000ml unpreserved	A	7	4	Y	Absent	MCP-8082-04(7)
L0906284-03A	Vial HCl preserved	A	N/A	4	Y	Absent	MCP-8260-04(14)

*Hold days indicated by values in parentheses

Project Name: YARD'S END
Project Number: 31502-050

Lab Number: L0906284
Report Date: 05/22/09

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.
ND	- Not detected at the reported detection limit for the sample.
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

*	- The batch duplicate RPD exceeds the acceptance criteria. This flag is not applicable when the sample concentrations are less than 5x the RDL. (Metals only.)
A	- Spectra identified as "Aldol Condensation Product".
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.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
N	- The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
J	- Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report



Project Name: YARD'S END
Project Number: 31502-050

Lab Number: L0906284
Report Date: 05/22/09

REFERENCES

- 59 Method for the Determination of Volatile Petroleum Hydrocarbons (VPH). Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004, Revision 1.1.
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.
- 61 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH). Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004, Revision 1.1.
- 64 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). August 2004.

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 February 18, 2009 - 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.

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.)

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), 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: MA0086.

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 150.1, 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, Nitrite-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, EPA 150.1, SM4500H-B.

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

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), SM6251B, 314.0.

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,Tl,Ti,V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Nitrate-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, 4500CN-CE, 2540D, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1

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

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCB-Water) 600/4-81-045-PCB-Oil

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.*Drinking Water*

Microbiology Parameters: SM9215B; MF-SM9222B; ENZ. SUB. SM9223; EC-SM9221E; MF-SM9222D; ENZ. SUB. SM9223;

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

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 110.2, 120.1, 150.1, 300.0, 325.2, 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, 150.1, 300.0, 305.1, 310.1, 325.2, 340.2, 350.1, 350.2, 351.1, 353.2, 354.1, 365.2, 375.4, 376.2, 405.1, 415.1, 420.1, 425.1, 1664A, SW-846 9010, 9030, 9040B, EPA 160.1, 160.2, 160.3, 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.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, 331.0, 110.2, SM2120B, 2510B, 5310C, EPA 150.1, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.1, SM5220D, 4500CI-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, EPA 350.2/1, 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.)

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, 3540C, 3545, 3550B, 3580A, 5035L, 5035H.)

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

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 8215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 331.0, SM2320B, EPA 300.0, 325.2, 110.2, SM2120B, 4500CN-E, 4500F-C, EPA 150.1, SM4500H-B, 4500NO₃-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, EPA 405.1, SM5210B, EPA 410.4, SM5220D, EPA 305.1, SM2310B-4a, EPA 310.1, SM2320B, EPA 200.7, 300.0, 325.2, LACHAT 10-117-07-1A or B, SM4500CI-E, EPA 340.2, SM4500F-C, EPA 375.4, SM15 426C, EPA 350.1, 350.2, 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-NO₃F, EPA 354.1, SM4500-NO₂-B, EPA 365.2, SM4500P-E, EPA 160.3, SM2540B, EPA 160.1, SM2540C, EPA 160.2, SM2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, 110.2, SM2120B, 335.2, LACHAT 10-204-00-1-A, EPA 150.1, 9040B, SM4500-HB, EPA 1664A, EPA 415.1, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, EPA 376.2, SM4500S-D, EPA 425.1, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, 8021B, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 3005A, 3050B, 3051, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 8021B, 3540C, 3545, 3580, 5030B, 5035.)

Analytical Services Protocol: CLP Volatile Organics, CLP Inorganics, CLP PCB/Pesticides.

Rhode Island Department of Health Certificate/Lab ID: LAO00065.

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

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

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. Registered Laboratory.

ALPHA JOURNAL: L0906284

**ALFRED
MURKIN**Haley & Aldrich, Inc.
465 Westford St.,
Suite 2200,
Boston, MA 02129-1400**CHAIN OF CUSTODY RECORD**Phone (617) 556-7400
Fax (617) 556-7400
Page 1 of 1

LAB FILE NO.

31502-050

LABORATORY

ALPHA

DELIVERY DATE

5-15-09

PROJECT NAME

YARDS END

ADDRESS

TURNAROUND TIME

STANDARD

S. PREVENCA

CONTACT

PROJECT MANAGER

T. BUTLER

Sample No.

Date

Time

Days

Type

VOA

ASPH

PAHs

MCH Metals

Pesticides

PCBs

TPH (specify)

TCLP (specify)

Reactivity

Ignitability

Corrosivity

Number of

Containers

Comments

(Special instructions, preservation, additional method numbers, etc.)

Laboratory to use applicable IBC CAN methods, unless otherwise directed.

1 VOC'S B260

2 SVOC'S

3 DUEP 14 METALS

4 EPH - C-RANGES ONLY

5 UPH

6 PCB'S

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ANALYTICAL REPORT

Lab Number:	L1019320
Client:	Haley & Aldrich, Inc. 465 Medford Street, Suite 2200 Charlestown, MA 02129-1400
ATTN:	Ken Alepidis
Phone:	(617) 886-7366
Project Name:	SPAULDING REHAB
Project Number:	31502-135
Report Date:	12/07/10

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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.

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



Project Name: SPAULDING REHAB
Project Number: 31502-135

Lab Number: L1019320
Report Date: 12/07/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1019320-01	OW-100	Not Specified	12/03/10 15:15

Project Name: SPAULDING REHAB
Project Number: 31502-135

Lab Number: L1019320
Report Date: 12/07/10

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.

Chloride

L1019320-01 has an elevated detection limit due to the dilution required to quantitate the result within the calibration range.

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:  Elizabeth Simmons

Title: Technical Director/Representative

Date: 12/07/10

INORGANICS & MISCELLANEOUS

Project Name: SPAULDING REHAB**Project Number:** 31502-135**Lab Number:** L1019320**Report Date:** 12/07/10**SAMPLE RESULTS****Lab ID:** L1019320-01**Client ID:** OW-100**Sample Location:** Not Specified**Matrix:** Water**Date Collected:** 12/03/10 15:15**Date Received:** 12/03/10**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chloride	4900		mg/l	100	--	100	-	12/06/10 18:03	1,9251	LA



Project Name: SPAULDING REHAB

Lab Number: L1019320

Project Number: 31502-135

Report Date: 12/07/10

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG446443-2										
Chloride	ND		mg/l	1.0	--	1	-	12/06/10 17:34	1,9251	LA

Lab Control Sample Analysis

Batch Quality Control

Project Name: SPAULDING REHAB

Project Number: 31502-135

Lab Number: L1019320

Report Date: 12/07/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG446443-1								
Chloride	103		-		90-110	-		

Matrix Spike Analysis

Batch Quality Control

Project Name: SPAULDING REHAB

Lab Number: L1019320

Project Number: 31502-135

Report Date: 12/07/10

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: WG446443-3 QC Sample: L1019386-01 Client ID: MS Sample												
Chloride	56	20	77	105		-	-		58-140	-		7

Lab Duplicate Analysis
Batch Quality Control

Project Name: SPAULDING REHAB
Project Number: 31502-135

Lab Number: L1019320
Report Date: 12/07/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG446443-4 QC Sample: L1019386-01 Client ID: DUP Sample						
Chloride	56	57	mg/l	2		7

Project Name: SPAULDING REHAB**Project Number:** 31502-135**Lab Number:** L1019320**Report Date:** 12/07/10**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA**Cooler Information Custody Seal****Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1019320-01A	Plastic 1000ml unpreserved	A	7	2	Y	Absent	CL-9251(28)

*Values in parentheses indicate holding time in days

Project Name: SPAULDING REHAB
Project Number: 31502-135

Lab Number: L1019320
Report Date: 12/07/10

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.
MDL	· Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
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.
RL	· Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL 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

A	· Spectra identified as "Aldol Condensation Product".
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 MCP-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. 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.
D	· Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	· Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	· The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	· The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
P	· The RPD between the results for the two columns exceeds the method-specified criteria.
Q	· 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 RL. (Metals only.)
R	· Analytical results are from sample re-analysis.

Report Format: Data Usability Report



Project Name: SPAULDING REHAB
Project Number: 31502-135

Lab Number: L1019320
Report Date: 12/07/10

Data Qualifiers

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Project Name: SPAULDING REHAB
Project Number: 31502-135

Lab Number: L1019320
Report Date: 12/07/10

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

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 Analytical 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 Analytical.

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 July 19, 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: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total 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, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, 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), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, 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, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

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, 4500CI-D, 4500CI-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, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

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, SM4500CI-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.)

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, 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, MassDEP EPH, MassDEP VPH.)

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, MassDEP EPH, MassDEP VPH.)

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.

HALEY & ALDRICH
 Haley & Aldrich, Inc.
 465 Medford St.,
 Suite 2200,
 Boston, MA 02129-1400

ALPHA Job # 41019320

CHAIN OF CUSTODY RECORD
 Phone (617) 886-7400
 Fax (617) 886-7600

Page 1 of 1

H&A FILE NO.

21502-135

LABORATORY

ALPHA

DELIVERY DATE

12/3/2005

PROJECT NAME

SPRINGFIELD REAR

ADDRESS

Westboro, MA

TURNAROUND TIME

3-5 days

H&A CONTACT

K. Anderson

CONTACT

G. Hill

PROJECT MANAGER

K. Anderson

Analysis Requested

Sample No.	Date	Time	Depth	Type
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☒ VOCs	☐ ABNs	☐ PAH only	☐ MCP Metals	☐ Pesticides	☐ PCBs	☐ VPH	☐ Full Suite	☐ C-ranges only	☐ EPH	☐ Full Suite	☐ C-ranges only	☐ TPH (specify)	☐ TCLP (specify)	☐ Reactivity	☐ Ignitability	☐ Corrosivity	☐ Number of Containers
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 Comments
 (special instructions, precautions, additional method numbers, etc.)

Laboratory to use applicable DEP CAM methods, unless otherwise directed.

① chlorine

OW-100	12/10	1515	-	Ag
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LIQUID																
1pc																

Sampling Comments

Signed and Relinquished by Sign <u>OWEN LAMER</u> Print <u>OWEN LAMER</u> Firm <u>ALPHA</u> Date <u>12/3/05</u> Time <u>1620</u>	Received by Sign <u>MAK</u> Print <u>Wayne Plummer</u> Firm <u>ALPHA</u> Date <u>12/7/05</u> Time <u>1630</u>
--	---

LIQUID																
30ml																

Sampling Comments

Signed and Relinquished by Sign <u>Wayne Plummer</u> Print <u>Wayne Plummer</u> Firm <u>ALPHA</u> Date <u>12/3/05</u> Time <u>1805</u>	Received by Sign <u>William M. Gendron</u> Print <u>William M. Gendron</u> Firm <u>ALPHA</u> Date <u>12/3/05</u> Time <u>1805</u>
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SOLID																
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Sampling Comments

Signed and Relinquished by Sign <u>Wayne Plummer</u> Print <u>Wayne Plummer</u> Firm <u>ALPHA</u> Date <u>12/3/05</u> Time <u>1805</u>	Received by Sign <u>William M. Gendron</u> Print <u>William M. Gendron</u> Firm <u>ALPHA</u> Date <u>12/3/05</u> Time <u>1805</u>
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SOLID																
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Sampling Comments

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

Required Reporting Limits and Data Quality Objectives

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TTCs are required, as appropriate. Laboratory should (specify if applicable) _____ analyze

☐ RC-S1 ☐ S1 ☐ GW1

☐ RC-S2 ☐ S2 ☐ GW2

☐ RC-GW1 ☐ S3 ☐ GW3

☐ RC-GW2

WHITE - Laboratory

CANARY - Project Manager

PINK - Haley & Aldrich Laboratory

AUGUST 2008