

II. Suggested Notice of Intent (NOD) Form

1. General facility information. Please provide the following information about the facility.

a) Name of facility: Cambridge Hospital	Mailing Address for the Facility: 1493 Cambridge Street, Cambridge, MA. 02139	
b) Location Address of the Facility (if different from mailing address):	Facility Location longitude: 42°22'31.30"N latitude: 71°06'03.62"W	Type of Business: Hospital Facility SIC codes: 8060
c) Name of facility owner: Cambridge Health Alliance Owner's Tel #: 617-665-2681 Address of owner (if different from facility address) 1492 Cambridge Street, Cambridge, MA Owner is (check one): 1. Federal _____ 2. State _____ 3. Tribal ☒ 4. Private ☒ 4. Other _____ (Describe) Legal name of Operator, if not owner: _____ Operator Contact Name: _____ Operator Tel Number: _____ Fax Number: _____ Operator's email: _____ Operator Address (if different from owner) _____		
d) Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water. Map attached? ☒		
e) Check Yes or No for the following: 1. Has a prior NPDES permit been granted for the discharge? Yes _____ No ☒ If Yes, Permit Number: _____ 2. Is the discharge a "new discharge" as defined by 40 CFR Section 122.22? Yes ☒ No _____ 3. Is the facility covered by an individual NPDES permit? Yes _____ No ☒ If Yes, Permit Number _____ 4. Is there a pending application on file with EPA for this discharge? Yes _____ No ☒ If Yes, date of submittal: _____		

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed)

- a) Name of receiving water into which discharge will occur: Charles River
State Water Quality Classification: B Freshwater: X Marine Water: _____
- b) Describe the discharge activities for which the owner/applicant is seeking coverage:
1. Construction dewatering of groundwater intrusion and/or storm water accumulation.
2. Short-term or long-term dewatering of foundation sumps.
3. Other.
- c) Number of outfalls 1
- For each outfall:
- d) Estimate the maximum daily and average monthly flow of the discharge (in gallons per day – GPD). Max Daily Flow 10,000 GPD
Average Monthly Flow 670 GPD
- e) What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH 7 Min pH 5
- f) Identify the source of the discharge (i.e. potable water, surface water, or groundwater). If groundwater, the facility shall submit effluent test results, as required in Section 4.4.5 of the General Permit.
- g) What treatment does the wastewater receive prior to discharge? settlement & filtration
- h) Is the discharge continuous? Yes _____ No ✓ If no, is the discharge periodic (P) (occurs regularly, i.e., monthly or seasonally, but is not continuous all year) or intermittent (I) (occurs sometimes but not regularly) or both (B) P
If (P), number of days or months per year of the discharge 7 and the specific months of discharge May or June;
If (I), number of days/year there is a discharge 7
Is the discharge temporary? Yes ✓ No _____
If yes, approximate start date of dewatering May 25, 2011 approximate end date of dewatering June 1, 2011
- i) Latitude and longitude of each discharge within 100 feet (See http://www.epa.gov/tri/report/siting_tool): Outfall 1: long. 42°15'2.63"N lat. 71°04'34.27"W;
Outfall 2: long. _____ lat. _____; Outfall 3: long. _____ lat. _____.
- j) If the source of the discharge is potable water, please provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water and attach any calculation sheets used to support stream flow and dilution calculations N/A cfs
(See Appendix VII for equations and additional information)

MASSACHUSETTS FACILITIES: See Section 3.4 and Appendix 1 of the General Permit for more information on Areas of Critical Environmental Concern (ACEC):

- k) Does the discharge occur in an ACEC? Yes _____ No ✓
If yes, provide the name of the ACEC:

3. Contaminant Information

- a) Are any pH neutralization and/or dechlorination chemicals used in the discharge? If so, include the chemical name and manufacturer; maximum and average daily quantity used as well as the maximum and average daily expected concentrations (mg/l) in the discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC₅₀ in percent for aquatic organism(s)). NA
- b) Please report any known remediation activities or water-quality issues in the vicinity of the discharge.

4. Determination of Endangered Species Act Eligibility: Provide documentation of ESA eligibility as required at Part 3.4 and Appendices III and IV. In addition, respond to the following questions.

- a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes _____ No ✓
- b) Has any consultation with the federal services been completed? Yes _____ No ✓
- c) Is consultation underway? Yes _____ No ✓
- d) What were the results of the consultation with the U.S. Fish and Wildlife Service and/or NOAA Fisheries Service (check one): a "no jeopardy" opinion _____ or written concurrence _____ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat.
- e) Which of the five eligibility criteria listed in Appendix 2, Section B (A,B,C,D, or E) have you met? _____
- f) Please attach a copy of the most current federal listing of endangered and threatened species, found at USF&W website.

5. Documentation of National Historic Preservation Act requirements: Please respond to the following questions:

- a) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility site or in proximity to the discharge? Yes ✓ No _____
- b) Have any State or Tribal historic preservation officers been consulted in this determination? Yes _____ or No ✓ If yes, attach the results of the consultation(s).
- c) Which of the three National Historic Preservation Act requirements listed in Appendix 3, Section C (1,2 or 3) have you met? 2

6. Supplemental Information: Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit

7. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22 (see below) including the following certification:

I certify under penalty of law that (1) no biocides or other chemical additives except for those used for pH adjustment and/or dechlorination are used in the dewatering system; (2) the discharge consists solely of dewatering and authorized pH adjustment and/or

dechlorination chemicals; (3) the discharge does not come in contact with any raw materials, intermediate product, water product or finished product; (4) if the discharge of dewatering subsequently mixes with other permitted wastewater (i.e. stormwater) prior to discharging to the receiving water, any monitoring provided under this permit will be only for dewatering discharge; (5) where applicable, the facility has complied with the requirements of this permit specific to the Endangered Species Act and National Historic Preservation Act; and (6) this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility Name: Cambridge Hospital

Operator signature: 

Title: Pamela of Mary O'Leary

Date: May 11, 2011

Federal regulations require this application to be signed as follows:

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

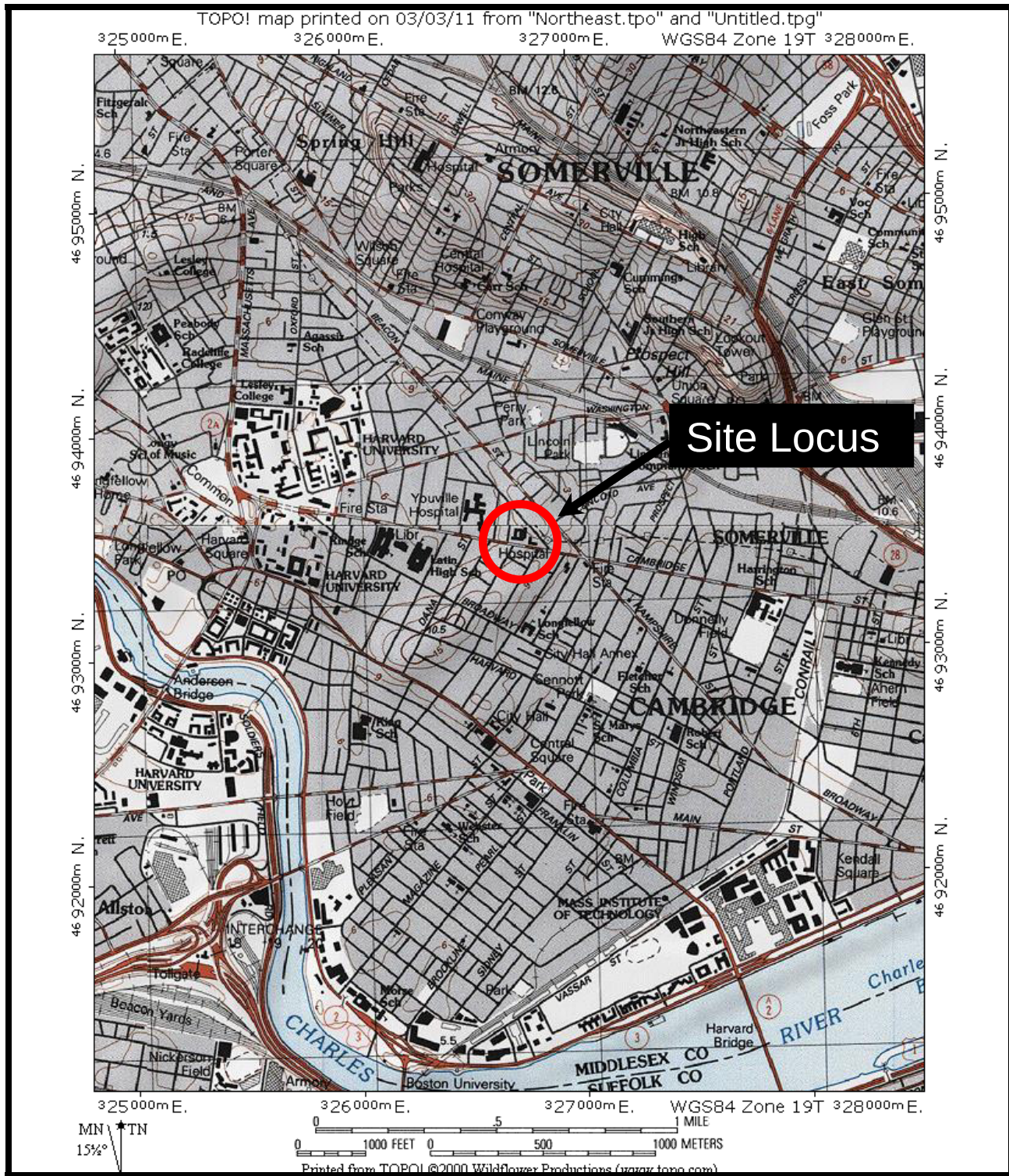


FIGURE 1

LOCUS MAP

Cambridge Hospital

1493 Cambridge Street
Cambridge, MA

Lord Associates,
Inc.

1506 Providence
Highway, Suite 30
Norwood, MA.
02062



City of Cambridge
Massachusetts

All data is provided for graphic representation only. The City of Cambridge expressly disclaims all warranties of any type, expressed or implied, including, but not limited to, any warranty as to the accuracy of the data, merchantability, or fitness for a particular purpose.

- Pumping St
-  Pump Station
-  Lift Station
- Lampholes
 -  Stormwater
 -  Sewage
-  Trench Drains
- Service Laterals
 -  Combined Wastewater, In
 -  Stormwater
 -  Sewage
 -  Abandoned
- MWRA Mains
 -  Abandoned
 -  In Service
- Underground Structures
 -  Stormwater
 -  Sewage
 -  Combined Sewage

DPW Sewer Viewer - Windows Internet Explorer

http://gis.cambridgema.gov/map/Viewer.aspx

File Edit View Favorites Tools Help

Favorites DPW Sewer Viewer

Cambridge Cityviewer

Sewer System DPW Ortho

Size

Help

Scale 1" = 101 ft

Google Maps Go v3.2.0 [beta 1] AppGeo Save Map as Image

Selection Legend Location Markup

Select Outfalls

(show all)

Facility ID	Type	Water Type	Status
CAM017	Overflow	Combined Wastewater	Deployed

1 selected To Mailing Labels To Spreadsheet

Outfall Info

Print

Facility ID CAM017
Type Overflow
Water Type Combined Wastewater
Status Deployed
Diameter 90" x 96"
Catchment CAM 017
Invert 999
Elevation
Install Date 01/01/1753
Owner City of Cambridge
Source ORIGINAL GIS
Last Edit Date 05/23/2006

© 2010 City of Cambridge, MA

Local intranet 100% 11:13 AM

MassDEP - Bureau of Waste Site Cleanup

MCP Numerical Ranking System Map: 500 feet & 0.5 Mile Radii

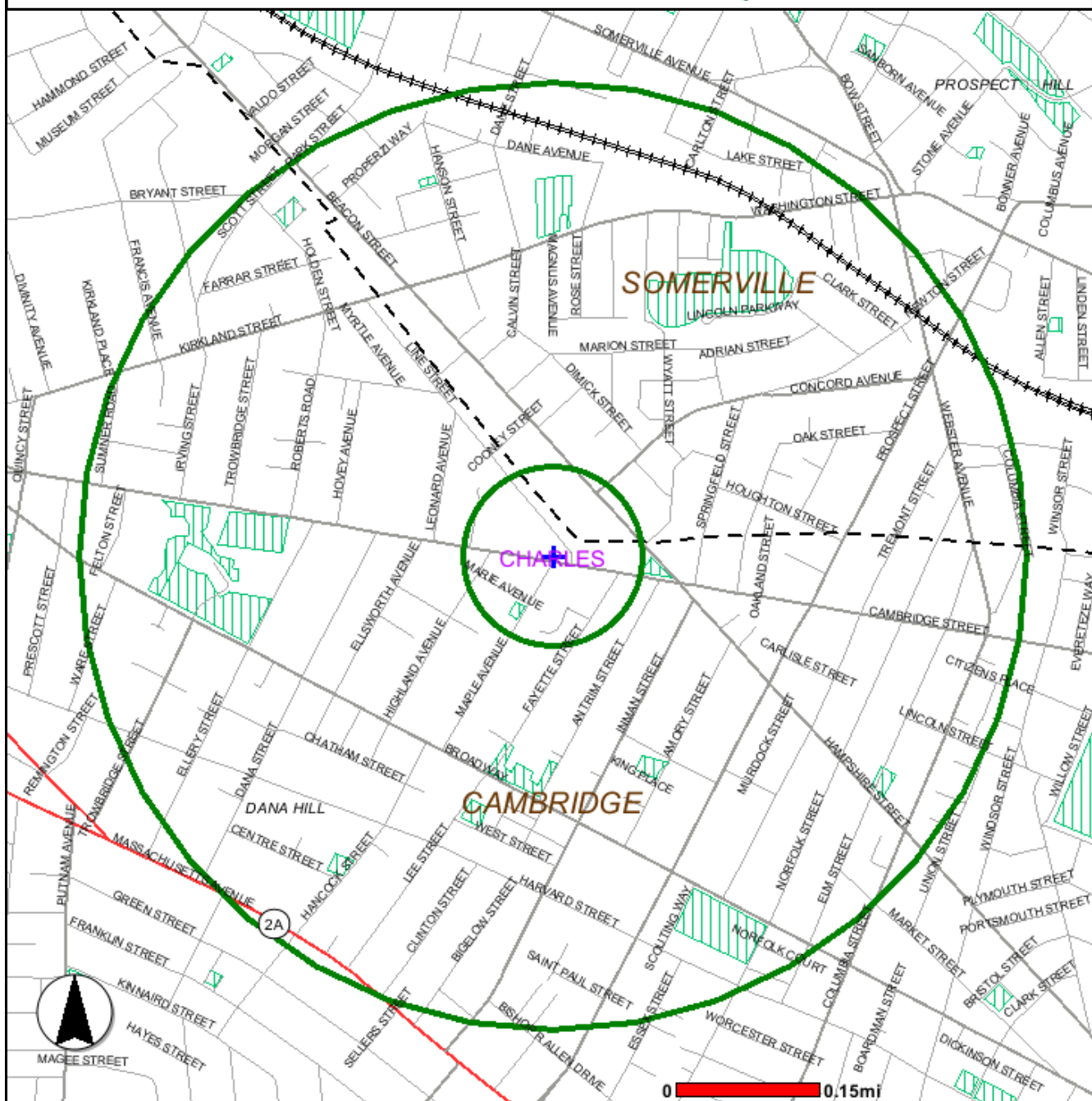
Site Name:
1493 Cambridge Street
Cambridge, MA
RTN:
NAD83 MA Coordinates:
232662mE, 902703mN



The information shown on this map is the best available at the date of printing. For more information please refer to www.mass.gov/mgis/massgis.htm



April 29, 2011



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail

Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct

Basins: Major, Sub; Streams: Perennial, Intermittent, Man Made Shore, Dam

Aquifers: Medium Yield, High Yield, EPA Sole Source.....

Non Potential Drinking Water Source Area: Medium, High (Yield)...

PWS Protection Areas: Zone II, WPA, Zone A

Hydrography: Open Water, PWS Reservoir, Tidal Flat

Wetlands: Freshwater, Saltwater, Cranberry Bog

FEMA 100yr Floodplain; Protected Open Space; ACEC

NHESP: Est Rare Wetland Habitat, Certified Vernal Pool

DEP Permitted Solid Waste Landfill.....

ANALYTICAL REPORT



Tuesday, April 26, 2011

Ralph Tella
Lord Associates, Inc.
1506 Providence Highway
Suite 30
Norwood, MA 02062-4647

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

TEL: (781) 255-5554

FAX: (781) 255-5535

Project: 1703

Location: Cambridge Hospital

Order No.: 1104193

Dear Ralph Tella:

GeoLabs, Inc. received 1 sample(s) on 4/15/2011 for the analyses presented in the following report.

All data for associated QC met method or laboratory specifications, except where noted in the Case Narrative.

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

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

Sincerely,

David Mick
Laboratory Director

For current certifications, please visit our website at www.geolabs.com

Certifications:

CT (PH-0148) - MA (M-MA015) - ME (MA0015) - NH (2508) - NJ (MA009) - PA (68-03417) - RI (LA000252)

Accredited in Accordance with NELAC

MassDEP Analytical Protocol Certification Form

Laboratory Name: GeoLabs, Inc.

Project #: 1703

Project Location: Cambridge Hospital

RTN:

This Form provides certification for the following data set: 1104193-001

Matrices: ☒ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other

CAM Protocol (check all that apply below):

8260 VOC CAM II A ☒	7470/7471 Hg CAM III B ☐	MassDEP VPH CAM IV A ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐
6010 Metals CAM III A ☒	6020 Metals CAM III D ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☒ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☒ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☒ Yes ☐ No
D	Does the laboratory report comply with all reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☒ Yes ☐ No
E	VPH, EPH, APH and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications.) b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)	☒ Yes ☐ No

Responses to Questions G, H, and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes ☒ No ¹
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Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056 (2) (k) and WSC-07-350.

H	Were all QC performance standards in specified in the CAM protocol(s) achieved?	☐ Yes ☒ No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes ☒ No ¹

¹ All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: David Mick

Position: Laboratory Director

Printed Name: David Mick

Date: 4/26/2011

Date: 26-Apr-11

CLIENT: Lord Associates, Inc.
Project: 1703
Lab Order: 1104193

CASE NARRATIVE

Physical Condition of Samples

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

Project Documentation

The project was accompanied by satisfactory Chain of Custody documentation.

Analysis of Sample(s)

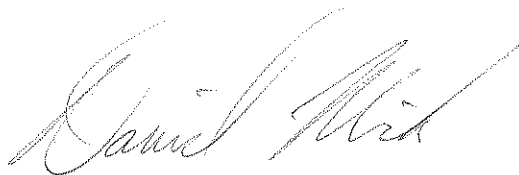
Chromium, Iron & Lead only reported via method 6010C.

All extractable samples were extracted and analyzed and any Volatile samples were analyzed within method specified holding times and according to GeoLabs documented Standard Operating Procedure. The following analytical anomalies or non-conformances were noted by the laboratory during the processing of these samples:

8260 LCSD RPD % Recovery is outside recovery limits.

The following do not meet MCP limits: Hexachlorobutadiene and EDB. Cis & trans-1,3-Dichloropropene are reported at MDLs.

SIGNATURE:



LAB DIRECTOR

PRINTED NAME: David Mick

DATE: 04/26/11

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reported Date: 26-Apr-11

CLIENT: Lord Associates, Inc.
 Lab Order: 1104193
 Project: 1703
 Lab ID: 1104193-001

Client Sample ID: Cambridge GW-Comp
 Collection Date: 4/14/2011
 Date Received: 4/15/2011
 Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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TOTAL SUSPENDED SOLIDS - SM2540D

Analyst: WFR

Prep Method:

Prep Date:

Total Suspended Solids	40.0	4.00		mg/L	1	4/20/2011
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TOTAL PETROLEUM HYDROCARBONS - 8100M

Analyst: Jsi

Prep Method: (8100M)

Prep Date: 4/19/2011 9:58:11 AM

Total Petroleum Hydrocarbons	0.230	0.153		mg/L	1	4/19/2011
Surr: o-Terphenyl	101	40-140		%REC	1	4/19/2011

TOTAL METALS BY ICP - SW6010C

Analyst: QS

Prep Method: (SW3010A)

Prep Date: 4/18/2011 1:24:42 PM

Chromium	ND	0.0100		mg/L	1	4/18/2011
Iron	1.42	0.0100		mg/L	1	4/18/2011
Lead	ND	0.0100		mg/L	1	4/18/2011

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZC

Prep Method:

Prep Date:

1,1,1,2-Tetrachloroethane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
1,1,1-Trichloroethane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
1,1,2-Trichloroethane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
1,1-Dichloroethane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
1,1-Dichloroethene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
1,1-Dichloropropene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
1,2,3-Trichlorobenzene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
1,2,4-Trichlorobenzene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
1,2,4-Trimethylbenzene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
1,2-Dibromo-3-Chloropropane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
1,2-Dichlorobenzene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM

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

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reported Date: 26-Apr-11

CLIENT: Lord Associates, Inc.
 Lab Order: 1104193
 Project: 1703
 Lab ID: 1104193-001

Client Sample ID: Cambridge GW-Comp
 Collection Date: 4/14/2011
 Date Received: 4/15/2011
 Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZC

Prep Method:

Prep Date:

1,3,5-Trimethylbenzene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
1,3-Dichlorobenzene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
1,3-Dichloropropane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
1,4-Dichlorobenzene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
1,4-Dioxane	ND	500		µg/L	1	4/16/2011 2:59:00 PM
2,2-Dichloropropane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
2-Butanone	ND	10.0		µg/L	1	4/16/2011 2:59:00 PM
2-Chlorotoluene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
2-Hexanone	ND	10.0		µg/L	1	4/16/2011 2:59:00 PM
2-Methoxy-2-Methylbutane (TAME)	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
4-Chlorotoluene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
4-Isopropyltoluene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
4-Methyl-2-Pentanone	ND	5.00		µg/L	1	4/16/2011 2:59:00 PM
Acetone	ND	10.0		µg/L	1	4/16/2011 2:59:00 PM
Benzene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Bromobenzene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Bromochloromethane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Bromodichloromethane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Bromoform	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Bromomethane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Carbon Disulfide	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Carbon Tetrachloride	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Chlorobenzene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Chloroethane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Chloroform	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Chloromethane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
cis-1,2-Dichloroethene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
cis-1,3-Dichloropropene	ND	0.170		µg/L	1	4/16/2011 2:59:00 PM
Dibromochloromethane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Dibromomethane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Dichlorodifluoromethane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Diethyl Ether	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Diisopropyl Ether	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Ethylbenzene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Ethyl-t-Butyl Ether	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Hexachlorobutadiene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM

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

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reported Date: 26-Apr-11

CLIENT: Lord Associates, Inc.
 Lab Order: 1104193
 Project: 1703
 Lab ID: 1104193-001

Client Sample ID: Cambridge GW-Comp
 Collection Date: 4/14/2011
 Date Received: 4/15/2011
 Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZC

Prep Method:

Prep Date:

Isopropylbenzene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Methyl Tert-Butyl Ether	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Methylene Chloride	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Naphthalene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
n-Butylbenzene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
n-Propylbenzene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
sec-Butylbenzene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Styrene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
tert-Butylbenzene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Tetrachloroethene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Tetrahydrofuran	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Toluene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
trans-1,2-Dichloroethene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
trans-1,3-Dichloropropene	ND	0.270		µg/L	1	4/16/2011 2:59:00 PM
Trichloroethene	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Trichlorofluoromethane	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Vinyl Chloride	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Xylenes, Total	ND	2.00		µg/L	1	4/16/2011 2:59:00 PM
Surr: 1,2-Dichloroethane-d4	105	70-130		%REC	1	4/16/2011 2:59:00 PM
Surr: 4-Bromofluorobenzene	115	70-130		%REC	1	4/16/2011 2:59:00 PM
Surr: Dibromofluoromethane	96.2	70-130		%REC	1	4/16/2011 2:59:00 PM
Surr: Toluene-d8	96.9	70-130		%REC	1	4/16/2011 2:59:00 PM

CHLORIDE - L-10-177-07-1-B

Analyst: RP

Prep Method:

Prep Date:

Chloride	4070	100		mg/L	100	4/20/2011
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Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL QC SUMMARY REPORT

Date: 26-Apr-11

CLIENT: Lord Associates, Inc.

Work Order: 1104193

Project: 1703

TestCode: 6010C_W

Sample ID: MBLK-17891	SampType: MBLK	TestCode: 6010C_W	Units: mg/L	Prep Date: 4/18/2011	RunNo: 40522						
Client ID: ZZZZZ	Batch ID: 17891	TestNo: SW6010B	(SW3010A)	Analysis Date: 4/18/2011	SeqNo: 460806						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: LCS-17891	SampType: LCS	TestCode: 6010C_W	Units: mg/L	Prep Date: 4/18/2011	RunNo: 40522						
Client ID: ZZZZZ	Batch ID: 17891	TestNo: SW6010B	(SW3010A)	Analysis Date: 4/18/2011	SeqNo: 460804						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: LCSD-17891	SampType: LCSD	TestCode: 6010C_W	Units: mg/L	Prep Date: 4/18/2011	RunNo: 40522						
Client ID: ZZZZZ	Batch ID: 17891	TestNo: SW6010B	(SW3010A)	Analysis Date: 4/18/2011	SeqNo: 460805						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

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

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

CLIENT: Lord Associates, Inc.

Work Order: 1104193

Project: 1703

TestCode: 8260B_W MCP

Sample ID: MBLK	SampleType: MBLK	TestCode: 8260B_W MC	Units: µg/L	Prep Date:	RunNo: 40516						
Client ID: ZZZZZ	Batch ID: R40516	TestNo: SW8260B		Analysis Date: 4/16/2011	SeqNo: 460749						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	2.00									
1,1,1-Trichloroethane	ND	2.00									
1,1,2,2-Tetrachloroethane	ND	2.00									
1,1,2-Trichloroethane	ND	2.00									
1,1-Dichloroethane	ND	2.00									
1,1-Dichloroethene	ND	2.00									
1,1-Dichloropropene	ND	2.00									
1,2,3-Trichlorobenzene	ND	2.00									
1,2,3-Trichloropropane	ND	2.00									
1,2,4-Trichlorobenzene	ND	2.00									
1,2,4-Trimethylbenzene	ND	2.00									
1,2-Dibromo-3-Chloropropane	ND	2.00									
1,2-Dibromoethane	ND	2.00									
1,2-Dichlorobenzene	ND	2.00									
1,2-Dichloroethane	ND	2.00									
1,2-Dichloropropane	ND	2.00									
1,3,5-Trimethylbenzene	ND	2.00									
1,3-Dichlorobenzene	ND	2.00									
1,3-Dichloropropane	ND	2.00									
1,4-Dichlorobenzene	ND	2.00									
1,4-Dioxane	ND	500									
2,2-Dichloropropane	ND	2.00									
2-Butanone	ND	10.0									
2-Chlorotoluene	ND	2.00									
2-Hexanone	ND	10.0									
2-Methoxy-2-Methylbutane (TAME)	ND	2.00									
4-Chlorotoluene	ND	2.00									
4-Isopropyltoluene	ND	2.00									

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

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

CLIENT: Lord Associates, Inc.
 Work Order: 1104193
 Project: 1703

TestCode: 8260B_W MCP

Sample ID: MBLK	SampType: MBLK	TestCode: 8260B_W MC	Units: µg/L	Prep Date:	RunNo: 40516						
Client ID: ZZZZZ	Batch ID: R40516	TestNo: SW8260B		Analysis Date: 4/16/2011	SeqNo: 460749						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Methyl-2-Pentanone	ND	5.00									
Acetone	ND	10.0									
Benzene	ND	2.00									
Bromobenzene	ND	2.00									
Bromochloromethane	ND	2.00									
Bromodichloromethane	ND	2.00									
Bromoform	ND	2.00									
Bromomethane	ND	2.00									
Carbon Disulfide	ND	2.00									
Carbon Tetrachloride	ND	2.00									
Chlorobenzene	ND	2.00									
Chloroethane	ND	2.00									
Chloroform	ND	2.00									
Chloromethane	ND	2.00									
cis-1,2-Dichloroethene	ND	2.00									
cis-1,3-Dichloropropene	ND	0.170									
Dibromochloromethane	ND	2.00									
Dibromomethane	ND	2.00									
Dichlorodifluoromethane	ND	2.00									
Diethyl Ether	ND	2.00									
Diisopropyl Ether	ND	2.00									
Ethylbenzene	ND	2.00									
Ethyl-t-Butyl Ether	ND	2.00									
Hexachlorobutadiene	ND	2.00									
Isopropylbenzene	ND	2.00									
Methyl Tert-Butyl Ether	ND	2.00									
Methylene Chloride	ND	2.00									
Naphthalene	ND	2.00									

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

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

CLIENT: Lord Associates, Inc.
 Work Order: 1104193
 Project: 1703

TestCode: 8260B_W MCP

Sample ID: MBLK	SampType: MBLK	TestCode: 8260B_W MC	Units: µg/L	Prep Date:	RunNo: 40516
Client ID: ZZZZZ	Batch ID: R40516	TestNo: SW8260B		Analysis Date: 4/16/2011	SeqNo: 460749
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

n-Butylbenzene	ND	2.00																	
n-Propylbenzene	ND	2.00																	
sec-Butylbenzene	ND	2.00																	
Styrene	ND	2.00																	
tert-Butylbenzene	ND	2.00																	
Tetrachloroethene	ND	2.00																	
Tetrahydrofuran	ND	2.00																	
Toluene	ND	2.00																	
trans-1,2-Dichloroethene	ND	2.00																	
trans-1,3-Dichloropropene	ND	0.270																	
Trichloroethene	ND	2.00																	
Trichlorofluoromethane	ND	2.00																	
Vinyl Chloride	ND	2.00																	
Xylenes, Total	ND	2.00																	
Surr: 1,2-Dichloroethane-d4	30.39	0	30	0	101	70	130												
Surr: 4-Bromofluorobenzene	35.10	0	30	0	117	70	130												
Surr: Dibromofluoromethane	28.94	0	30	0	96.5	70	130												
Surr: Toluene-d8	28.69	0	30	0	95.6	70	130												

Sample ID: LCS	SampType: LCS	TestCode: 8260B_W MC	Units: µg/L	Prep Date:	RunNo: 40516
Client ID: ZZZZZ	Batch ID: R40516	TestNo: SW8260B		Analysis Date: 4/16/2011	SeqNo: 460747
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

1,1,1,2-Tetrachloroethane	49.70	2.00	50	0	99.4	70	130												
1,1,1-Trichloroethane	49.88	2.00	50	0	99.8	70	130												
1,1,2,2-Tetrachloroethane	42.48	2.00	50	0	85.0	70	130												
1,1,2-Trichloroethane	44.52	2.00	50	0	89.0	70	130												

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

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

CLIENT: Lord Associates, Inc.
 Work Order: 1104193
 Project: 1703

TestCode: 8260B_W MCP

Sample ID: LCS	SampType: LCS	TestCode: 8260B_W MC	Units: µg/L	Prep Date:	RunNo: 40516						
Client ID: ZZZZZ	Batch ID: R40516	TestNo: SW8260B		Analysis Date: 4/16/2011	SeqNo: 460747						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	43.33	2.00	50	0	86.7	70	130				
1,1-Dichloroethene	46.16	2.00	50	0	92.3	70	130				
1,1-Dichloropropene	53.09	2.00	50	0	106	70	130				
1,2,3-Trichlorobenzene	52.16	2.00	50	0	104	70	130				
1,2,3-Trichloropropane	40.01	2.00	50	0	80.0	70	130				
1,2,4-Trichlorobenzene	54.21	2.00	50	0	108	70	130				
1,2,4-Trimethylbenzene	50.45	2.00	50	0	101	70	130				
1,2-Dibromo-3-Chloropropane	46.53	2.00	50	0	93.1	70	130				
1,2-Dibromoethane	43.02	2.00	50	0	86.0	70	130				
1,2-Dichlorobenzene	51.29	2.00	50	0	103	70	130				
1,2-Dichloroethane	45.57	2.00	50	0	91.1	70	130				
1,2-Dichloropropane	48.94	2.00	50	0	97.9	70	130				
1,3,5-Trimethylbenzene	50.85	2.00	50	0	102	70	130				
1,3-Dichlorobenzene	51.16	2.00	50	0	102	70	130				
1,3-Dichloropropane	44.99	2.00	50	0	90.0	70	130				
1,4-Dichlorobenzene	50.54	2.00	50	0	101	70	130				
2,2-Dichloropropane	49.59	2.00	50	0	99.2	70	130				
2-Butanone	45.24	10.0	50	0	90.5	70	130				
2-Chlorotoluene	49.38	2.00	50	0	98.8	70	130				
2-Hexanone	44.58	10.0	50	0	89.2	70	130				
2-Methoxy-2-Methylbutane (TAME)	49.70	2.00	50	0	99.4	70	130				
4-Chlorotoluene	49.44	2.00	50	0	98.9	70	130				
4-Isopropyltoluene	54.22	2.00	50	0	108	70	130				
4-Methyl-2-Pentanone	41.89	5.00	50	0	83.8	70	130				
Acetone	43.99	10.0	50	0	88.0	70	130				
Benzene	47.94	2.00	50	0	95.9	70	130				
Bromobenzene	44.91	2.00	50	0	89.8	70	130				
Bromochloromethane	46.92	2.00	50	0	93.8	70	130				

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

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

CLIENT: Lord Associates, Inc.
Work Order: 1104193
Project: 1703

TestCode: 8260B_W MCP

Sample ID: LCS	SampType: LCS	TestCode: 8260B_W MC	Units: µg/L	Prep Date:	RunNo: 40516						
Client ID: ZZZZZ	Batch ID: R40516	TestNo: SW8260B		Analysis Date: 4/16/2011	SeqNo: 460747						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	50.05	2.00	50	0	100	70	130				
Bromoform	40.71	2.00	50	0	81.4	70	130				
Bromomethane	41.00	2.00	50	0	82.0	70	130				
Carbon Disulfide	46.38	2.00	50	0	92.8	70	130				
Carbon Tetrachloride	46.73	2.00	50	0	93.5	70	130				
Chlorobenzene	47.65	2.00	50	0	95.3	70	130				
Chloroethane	36.47	2.00	50	0	72.9	70	130				
Chloroform	48.11	2.00	50	0	96.2	70	130				
Chloromethane	40.00	2.00	50	0	80.0	70	130				
cis-1,2-Dichloroethene	49.34	2.00	50	0	98.7	70	130				
cis-1,3-Dichloropropene	42.49	0.170	50	0	85.0	70	130				
Dibromochloromethane	47.27	2.00	50	0	94.5	70	130				
Dibromomethane	45.90	2.00	50	0	91.8	70	130				
Dichlorodifluoromethane	42.84	2.00	50	0	85.7	70	130				
Diethyl Ether	45.99	2.00	50	0	92.0	70	130				
Diisopropyl Ether	46.09	2.00	50	0	92.2	70	130				
Ethylbenzene	50.86	2.00	50	0	102	70	130				
Ethyl-t-Butyl Ether	49.45	2.00	50	0	98.9	70	130				
Hexachlorobutadiene	49.36	2.00	50	0	98.7	70	130				
Isopropylbenzene	50.78	2.00	50	0	102	70	130				
Methyl Tert-Butyl Ether	43.34	2.00	50	0	86.7	70	130				
Methylene Chloride	48.19	2.00	50	0	96.4	70	130				
Naphthalene	50.34	2.00	50	0	101	70	130				
n-Butylbenzene	52.99	2.00	50	0	106	70	130				
n-Propylbenzene	49.84	2.00	50	0	99.7	70	130				
sec-Butylbenzene	51.84	2.00	50	0	104	70	130				
Styrene	50.50	2.00	50	0	101	70	130				
tert-Butylbenzene	51.34	2.00	50	0	103	70	130				

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

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

CLIENT: Lord Associates, Inc.
Work Order: 1104193
Project: 1703

TestCode: 8260B_W MCP

Sample ID: LCS	SampType: LCS	TestCode: 8260B_W MC	Units: µg/L	Prep Date:	RunNo: 40516						
Client ID: ZZZZZ	Batch ID: R40516	TestNo: SW8260B		Analysis Date: 4/16/2011	SeqNo: 460747						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	47.98	2.00	50	0	96.0	70	130				
Tetrahydrofuran	44.67	2.00	50	0	89.3	70	130				
Toluene	48.63	2.00	50	0	97.3	70	130				
trans-1,2-Dichloroethene	45.69	2.00	50	0	91.4	70	130				
trans-1,3-Dichloropropene	41.86	0.270	50	0	83.7	70	130				
Trichloroethene	50.26	2.00	50	0	101	70	130				
Trichlorofluoromethane	39.49	2.00	50	0	79.0	70	130				
Vinyl Chloride	41.20	2.00	50	0	82.4	70	130				
Xylenes, Total	150.8	2.00	150	0	101	70	130				
Surr: 1,2-Dichloroethane-d4	27.39	0	30	0	91.3	70	130				
Surr: 4-Bromofluorobenzene	30.97	0	30	0	103	70	130				
Surr: Dibromofluoromethane	30.38	0	30	0	101	70	130				
Surr: Toluene-d8	29.57	0	30	0	98.6	70	130				

Sample ID: LCSD	SampType: LCSD	TestCode: 8260B_W MC	Units: µg/L	Prep Date:	RunNo: 40516						
Client ID: ZZZZZ	Batch ID: R40516	TestNo: SW8260B		Analysis Date: 4/16/2011	SeqNo: 460748						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	48.83	2.00	50	0	97.7	70	130	49.7	1.77	20	
1,1,1-Trichloroethane	49.64	2.00	50	0	99.3	70	130	49.88	0.482	20	
1,1,2,2-Tetrachloroethane	46.68	2.00	50	0	93.4	70	130	42.48	9.42	20	
1,1,2-Trichloroethane	46.30	2.00	50	0	92.6	70	130	44.52	3.92	20	
1,1-Dichloroethane	42.74	2.00	50	0	85.5	70	130	43.33	1.37	20	
1,1-Dichloroethene	44.98	2.00	50	0	90.0	70	130	46.16	2.59	20	
1,1-Dichloropropene	51.22	2.00	50	0	102	70	130	53.09	3.59	20	
1,2,3-Trichlorobenzene	59.89	2.00	50	0	120	70	130	52.16	13.8	20	
1,2,3-Trichloropropane	43.98	2.00	50	0	88.0	70	130	40.01	9.45	20	

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

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

CLIENT: Lord Associates, Inc.

Work Order: 1104193

Project: 1703

TestCode: 8260B_W MCP

Sample ID: LCSD	SampType: LCSD	TestCode: 8260B_W MC	Units: µg/L	Prep Date:	RunNo: 40516						
Client ID: ZZZZZ	Batch ID: R40516	TestNo: SW8260B		Analysis Date: 4/16/2011	SeqNo: 460748						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	57.72	2.00	50	0	115	70	130	54.21	6.27	20	
1,2,4-Trimethylbenzene	51.04	2.00	50	0	102	70	130	50.45	1.16	20	
1,2-Dibromo-3-Chloropropane	56.37	2.00	50	0	113	70	130	46.53	19.1	20	
1,2-Dibromoethane	47.71	2.00	50	0	95.4	70	130	43.02	10.3	20	
1,2-Dichlorobenzene	51.56	2.00	50	0	103	70	130	51.29	0.525	20	
1,2-Dichloroethane	44.42	2.00	50	0	88.8	70	130	45.57	2.56	20	
1,2-Dichloropropane	47.63	2.00	50	0	95.3	70	130	48.94	2.71	20	
1,3,5-Trimethylbenzene	50.04	2.00	50	0	100	70	130	50.85	1.61	20	
1,3-Dichlorobenzene	50.36	2.00	50	0	101	70	130	51.16	1.58	20	
1,3-Dichloropropane	46.99	2.00	50	0	94.0	70	130	44.99	4.35	20	
1,4-Dichlorobenzene	50.25	2.00	50	0	101	70	130	50.54	0.575	20	
2,2-Dichloropropane	56.65	2.00	50	0	113	70	130	49.59	13.3	20	
2-Butanone	45.91	10.0	50	0	91.8	70	130	45.24	1.47	20	
2-Chlorotoluene	49.85	2.00	50	0	99.7	70	130	49.38	0.947	20	
2-Hexanone	50.52	10.0	50	0	101	70	130	44.58	12.5	20	
2-Methoxy-2-Methylbutane (TAME)	49.70	2.00	50	0	99.4	70	130	49.7	0	20	
4-Chlorotoluene	49.40	2.00	50	0	98.8	70	130	49.44	0.0809	20	
4-Isopropyltoluene	53.78	2.00	50	0	108	70	130	54.22	0.815	20	
4-Methyl-2-Pentanone	46.96	5.00	50	0	93.9	70	130	41.89	11.4	20	
Acetone	42.85	10.0	50	0	85.7	70	130	43.99	2.63	20	
Benzene	46.97	2.00	50	0	93.9	70	130	47.94	2.04	20	
Bromobenzene	47.87	2.00	50	0	95.7	70	130	44.91	6.38	20	
Bromochloromethane	46.05	2.00	50	0	92.1	70	130	46.92	1.87	20	
Bromodichloromethane	47.95	2.00	50	0	95.9	70	130	50.05	4.29	20	
Bromoform	43.74	2.00	50	0	87.5	70	130	40.71	7.18	20	
Bromomethane	37.29	2.00	50	0	74.6	70	130	41	9.48	20	
Carbon Disulfide	45.18	2.00	50	0	90.4	70	130	46.38	2.62	20	
Carbon Tetrachloride	46.06	2.00	50	0	92.1	70	130	46.73	1.44	20	

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

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

CLIENT: Lord Associates, Inc.

Work Order: 1104193

Project: 1703

TestCode: 8260B_W MCP

Sample ID: LCSD	SampType: LCSD	TestCode: 8260B_W MC	Units: µg/L	Prep Date:	RunNo: 40516						
Client ID: ZZZZZ	Batch ID: R40516	TestNo: SW8260B		Analysis Date: 4/16/2011	SeqNo: 460748						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	47.63	2.00	50	0	95.3	70	130	47.65	0.0420	20	
Chloroethane	46.12	2.00	50	0	92.2	70	130	36.47	23.4	20	R
Chloroform	46.54	2.00	50	0	93.1	70	130	48.11	3.32	20	
Chloromethane	39.13	2.00	50	0	78.3	70	130	40	2.20	20	
cis-1,2-Dichloroethene	49.34	2.00	50	0	98.7	70	130	49.34	0	20	
cis-1,3-Dichloropropene	44.35	0.170	50	0	88.7	70	130	42.49	4.28	20	
Dibromochloromethane	49.43	2.00	50	0	98.9	70	130	47.27	4.47	20	
Dibromomethane	46.01	2.00	50	0	92.0	70	130	45.9	0.239	20	
Dichlorodifluoromethane	41.33	2.00	50	0	82.7	70	130	42.84	3.59	20	
Diethyl Ether	44.09	2.00	50	0	88.2	70	130	45.99	4.22	20	
Diisopropyl Ether	46.09	2.00	50	0	92.2	70	130	46.09	0	20	
Ethylbenzene	49.72	2.00	50	0	99.4	70	130	50.86	2.27	20	
Ethyl-t-Butyl Ether	51.97	2.00	50	0	104	70	130	49.45	4.97	20	
Hexachlorobutadiene	52.53	2.00	50	0	105	70	130	49.36	6.22	20	
Isopropylbenzene	50.73	2.00	50	0	101	70	130	50.78	0.0985	20	
Methyl Tert-Butyl Ether	45.10	2.00	50	0	90.2	70	130	43.34	3.98	20	
Methylene Chloride	46.51	2.00	50	0	93.0	70	130	48.19	3.55	20	
Naphthalene	53.19	2.00	50	0	106	70	130	50.34	5.51	20	
n-Butylbenzene	53.31	2.00	50	0	107	70	130	52.99	0.602	20	
n-Propylbenzene	49.79	2.00	50	0	99.6	70	130	49.84	0.100	20	
sec-Butylbenzene	53.12	2.00	50	0	106	70	130	51.84	2.44	20	
Styrene	50.33	2.00	50	0	101	70	130	50.5	0.337	20	
tert-Butylbenzene	51.92	2.00	50	0	104	70	130	51.34	1.12	20	
Tetrachloroethene	48.75	2.00	50	0	97.5	70	130	47.98	1.59	20	
Tetrahydrofuran	49.84	2.00	50	0	99.7	70	130	44.67	10.9	20	
Toluene	47.83	2.00	50	0	95.7	70	130	48.63	1.66	20	
trans-1,2-Dichloroethene	45.69	2.00	50	0	91.4	70	130	45.69	0	20	
trans-1,3-Dichloropropene	44.98	0.270	50	0	90.0	70	130	41.86	7.19	20	

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

GeoLabs, Inc.

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CLIENT: Lord Associates, Inc.
Work Order: 1104193
Project: 1703

TestCode: 8260B_W MCP

Sample ID: LCSD	SampleType: LCSD	TestCode: 8260B_W MC	Units: µg/L	Prep Date:	RunNo: 40516						
Client ID: ZZZZZ	Batch ID: R40516	TestNo: SW8260B		Analysis Date: 4/16/2011	SeqNo: 460748						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	48.72	2.00	50	0	97.4	70	130	50.26	3.11	20	
Trichlorofluoromethane	39.83	2.00	50	0	79.7	70	130	39.49	0.857	20	
Vinyl Chloride	39.81	2.00	50	0	79.6	70	130	41.2	3.43	20	
Xylenes, Total	149.8	2.00	150	0	99.9	70	130	150.8	0.659	20	
Surr: 1,2-Dichloroethane-d4	27.10	0	30	0	90.3	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	30.04	0	30	0	100	70	130	0	0	0	
Surr: Dibromofluoromethane	27.94	0	30	0	93.1	70	130	0	0	0	
Surr: Toluene-d8	29.62	0	30	0	98.7	70	130	0	0	0	

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

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CLIENT: Lord Associates, Inc.
Work Order: 1104193
Project: 1703

TestCode: CHLORIDE_W

Sample ID: MB-R40548	SampType: MBLK	TestCode: CHLORIDE_	Units: mg/L	Prep Date:	RunNo: 40548						
Client ID: ZZZZZ	Batch ID: R40548	TestNo: 10-177-07-1-B		Analysis Date: 4/20/2011	SeqNo: 461134						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	1.00									

Sample ID: LCS-R40548	Sample Type: LCS	TestCode: CHLORIDE_	Units: mg/L	Prep Date:	RunNo: 40548						
Client ID: ZZZZZ	Batch ID: R40548	TestNo: 10-177-07-1-B		Analysis Date: 4/20/2011	SeqNo: 461135						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	51.56	1.00	50	0.5567	102	85	115				

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

GeoLabs, Inc.

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CLIENT: Lord Associates, Inc.
Work Order: 1104193
Project: 1703

TestCode: tph_w

Sample ID: MBLK-17900	SampType: mbik	TestCode: tph_w	Units: mg/L	Prep Date: 4/19/2011	RunNo: 40621
Client ID: ZZZZZ	Batch ID: 17900	TestNo: 8100M	(8100M)	Analysis Date: 4/19/2011	SeqNo: 461936
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Petroleum Hydrocarbons
Surr: o-Terphenyl

ND
53.54

0.150
0

100

53.5

40 140

Sample ID: LCS-17900	SampType: Lcs	TestCode: tph_w	Units: mg/L	Prep Date: 4/19/2011	RunNo: 40621
Client ID: ZZZZZ	Batch ID: 17900	TestNo: 8100M	(8100M)	Analysis Date: 4/19/2011	SeqNo: 461937
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Petroleum Hydrocarbons
Surr: o-Terphenyl

1.584
93.45

0.150
0

2
100

79.2
93.4

40 140
40 140

Sample ID: LCSD-17900	SampType: Lcsd	TestCode: tph_w	Units: mg/L	Prep Date: 4/19/2011	RunNo: 40621
Client ID: ZZZZZ	Batch ID: 17900	TestNo: 8100M	(8100M)	Analysis Date: 4/19/2011	SeqNo: 461938
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Petroleum Hydrocarbons
Surr: o-Terphenyl

1.515
83.66

0.150
0

2
100

75.8
83.7

40 140
40 140

4.46
0

50
50

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

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CLIENT: Lord Associates, Inc.
 Work Order: 1104193
 Project: 1703

TestCode: TSS_SM

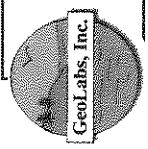
Sample ID: MB-R40567	SampType: MBLK	TestCode: TSS_SM	Units: mg/L	Prep Date:	RunNo: 40567						
Client ID: ZZZZZ	Batch ID: R40567	TestNo: SM2540D		Analysis Date: 4/20/2011	SeqNo: 461392						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	ND		4.00								

Sample ID: LCS-R40567	SampType: LCS	TestCode: TSS_SM	Units: mg/L	Prep Date:	RunNo: 40567						
Client ID: ZZZZZ	Batch ID: R40567	TestNo: SM2540D		Analysis Date: 4/20/2011	SeqNo: 461393						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	97.00	4.00	96.6	0	100	82.9	110				

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

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CHAIN OF CUSTODY RECORD

GeoLabs, Inc. *Environmental Laboratories*
445 Johnson Lane, Braintree, MA 02184
p 781.848.7844 • f 781.848.7811
www.geolabs.com

Sample Handling: circle choice	Done	Not Needed	Lab to do	Lab to do	Y / N
Filtration					
Preservation					

Special Instructions

5275 22 4935 12 1919 PPO*

Turnaround: circle one

1-day 3-day 5 / 7-days

2-day

Data Delivery: circle choice (s)

Fax ☐ email ☒

Format: PDF ☒

Excel ☐

	GW-1	S-1	QC
MCP Methods			
DEP			
Other			

Requirements: circle choice (s)
CT RCP (Reasonable Confidence Protocols)
State / Fed Program - Criteria

Client: Lord
Address: 1506 Providence Hwy - Suite 30
Norwood, MA 02062
Contact: Ralph Tella

Phone: 781-255-5854
Fax:
email: RTella@Lortanv.com

Project: Cambs
Project PO: 1703
Invoice to *: _____

[illegible]

Matrix Codes:

DW = Drinking Water S = Soil A = Air
SL = Sludge O = Oil OT = Other

Received on Ice

Preservatives

1 = HCl	3 = H ₂ SO ₄	5 = NaOH
2 = HNO ₃	4 = Na ₂ S ₂ O ₃	6 = MeOH

Containers:
A = Amber
G = Glass
S = Summa

Relinquished by:

Date / Time

Received by: [Signature] Date / Time [Signature]

10:30

2010730-J&P.C of CR.09/22/10

Terms: Payment due within 30 days unless other arrays

subject to interest and collection costs
check and credit cards

CT (PH-0148)

MA (MA - 015)

NH (2508) NJ

(60)



ANALYTICAL REPORT

Lab Number:	L1106637
Client:	Lord Associates, Inc. 1506 Providence Highway - Suite 30 Norwood, MA 02062
ATTN:	Ralph Tella
Phone:	(781) 255-5554
Project Name:	CAMBRIDGE HOSPITAL
Project Number:	1703
Report Date:	05/13/11

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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: CAMBRIDGE HOSPITAL
Project Number: 1703

Lab Number: L1106637
Report Date: 05/13/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1106637-01	LB-3/MW	CAMBRIDGE, MA	05/12/11 00:00
L1106637-02	CHARLES RIVER	CAMBRIDGE, MA	05/12/11 00:00

Project Name: CAMBRIDGE HOSPITAL

Lab Number: L1106637

Project Number: 1703

Report Date: 05/13/11

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 through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	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: CAMBRIDGE HOSPITAL
Project Number: 1703

Lab Number: L1106637
Report Date: 05/13/11

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.

MCP Related Narratives

Report Submission

All MCP required questions were answered with affirmative responses; therefore, there are no relevant protocol-specific QC and/or performance standard non-conformances to report.

Non MCP Related Narratives

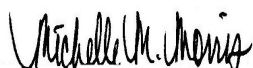
Chloride

L1106637-01 has an elevated detection limit due to the dilution required to quantitate the result within the calibration range.

The WG467624-3 MS recovery (0%), performed on L1106637-01, does not apply because the sample concentration is greater than four times the spike amount added.

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:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 05/13/11

METALS

Project Name: CAMBRIDGE HOSPITAL**Lab Number:** L1106637**Project Number:** 1703**Report Date:** 05/13/11**SAMPLE RESULTS**

Lab ID: L1106637-02

Date Collected: 05/12/11 00:00

Client ID: CHARLES RIVER

Date Received: 05/12/11

Sample Location: CAMBRIDGE, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab											
Hardness	85		mg/l	0.66	--	1	05/13/11 08:45	05/13/11 15:03	EPA 3005A	1,6010B	MG



Project Name: CAMBRIDGE HOSPITAL

Lab Number: L1106637

Project Number: 1703

Report Date: 05/13/11

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 02 Batch: WG467756-1										
Hardness	ND		mg/l	0.66	--	1	05/13/11 08:45	05/13/11 14:43	1,6010B	MG

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMBRIDGE HOSPITAL

Project Number: 1703

Lab Number: L1106637

Report Date: 05/13/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 02 Batch: WG467756-2								
Hardness	104		-		80-120	-		

Matrix Spike Analysis Batch Quality Control

Project Name: CAMBRIDGE HOSPITAL

Lab Number: L1106637

Project Number: 1703

Report Date: 05/13/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 02 QC Batch ID: WG467756-4 QC Sample: L1106641-07 Client ID: MS Sample												
Hardness	60	66.2	130	106		-	-		75-125	-		20

INORGANICS & MISCELLANEOUS

Project Name: CAMBRIDGE HOSPITAL
Project Number: 1703

Lab Number: L1106637
Report Date: 05/13/11

SAMPLE RESULTS

Lab ID: L1106637-01
Client ID: LB-3/MW
Sample Location: CAMBRIDGE, MA
Matrix: Water

Date Collected: 05/12/11 00:00
Date Received: 05/12/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	05/12/11 20:00	05/12/11 20:21	97,7196A	KK
General Chemistry - Westborough Lab										
Chloride	5800		mg/l	100	--	100	-	05/12/11 21:24	1,9251	LA



Project Name: CAMBRIDGE HOSPITAL

Lab Number: L1106637

Project Number: 1703

Report Date: 05/13/11

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab for sample(s): 01 Batch: WG467623-1										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	05/12/11 20:00	05/12/11 20:20	97,7196A	KK
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG467624-1										
Chloride	ND		mg/l	1.0	--	1	-	05/12/11 21:19	1,9251	LA

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMBRIDGE HOSPITAL

Project Number: 1703

Lab Number: L1106637

Report Date: 05/13/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG467623-2 WG467623-3								
Chromium, Hexavalent	103		103		80-120	0		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG467624-2								
Chloride	90		-		90-110	-		

Matrix Spike Analysis

Batch Quality Control

Project Name: CAMBRIDGE HOSPITAL

Project Number: 1703

Lab Number: L1106637

Report Date: 05/13/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG467623-5 QC Sample: L1106637-01 Client ID: LB-3/MW												
Chromium, Hexavalent	ND	0.1	0.103	103		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG467624-3 QC Sample: L1106637-01 Client ID: LB-3/MW												
Chloride	5800	20	5700	0	Q	-	-		58-140	-		7

Lab Duplicate Analysis

Batch Quality Control

Project Name: CAMBRIDGE HOSPITAL

Project Number: 1703

Lab Number: L1106637

Report Date: 05/13/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
MCP General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG467623-4 QC Sample: L1106637-01 Client ID: LB-3/MW						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG467624-4 QC Sample: L1106637-01 Client ID: LB-3/MW						
Chloride	5800	5800	mg/l	0		7

Project Name: CAMBRIDGE HOSPITAL**Project Number:** 1703**Lab Number:** L1106637**Report Date:** 05/13/11**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(*)
L1106637-01A	Plastic 1000ml unpreserved	A	7	2.7	Y	Absent	CL-9251(28)
L1106637-01B	Plastic 1000ml unpreserved	A	7	2.7	Y	Absent	MCP-HEXCR7196-10(1)
L1106637-02A	Plastic 500ml HNO3 preserved	A	<2	2.7	Y	Absent	HARDT(180)

*Values in parentheses indicate holding time in days

Project Name: CAMBRIDGE HOSPITAL
Project Number: 1703

Lab Number: L1106637
Report Date: 05/13/11

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.
C	· Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
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.
G	· The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
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.

Report Format: Data Usability Report



Project Name: CAMBRIDGE HOSPITAL
Project Number: 1703

Lab Number: L1106637
Report Date: 05/13/11

Data Qualifiers

- 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.
- 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: CAMBRIDGE HOSPITAL
Project Number: 1703

Lab Number: L1106637
Report Date: 05/13/11

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

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 February 23, 2011 - 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, 353.2, SM2130B, 2320B, 4500Cl-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, SM2320B, 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, 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); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; 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,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 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-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, 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. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

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

Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO₃-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 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, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, 9050A, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH₃-H, 4500NO₃-F, 4500NO₂-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3580A, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

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

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-E, 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, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH₃-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270C-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 7196A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 8270C-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

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 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO₃-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH₃-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-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, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 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.*

Drinking Water (Organic Parameters: EPA 524.2)

Non-Potable Water (Inorganic Parameters: EPA 1312. Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH₃-H. Organic Parameters: 3540C, 3545, 3546, 3550B,

3580A, 3630C, 5035, 8015B, 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 NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson 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, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, 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.



ANALYTICAL REPORT

Lab Number:	L1106801
Client:	Lord Associates, Inc. 1506 Providence Highway - Suite 30 Norwood, MA 02062
ATTN:	Ralph Tella
Phone:	(781) 255-5554
Project Name:	CAMBRIDGE HOSPITAL
Project Number:	1703
Report Date:	05/18/11

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: CAMBRIDGE HOSPITAL
Project Number: 1703

Lab Number: L1106801
Report Date: 05/18/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1106801-01	LB-3/MW	CAMBRIDGE, MA	05/12/11 00:00

Project Name: CAMBRIDGE HOSPITAL

Lab Number: L1106801

Project Number: 1703

Report Date: 05/18/11

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 through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	NO
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO
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: CAMBRIDGE HOSPITAL
Project Number: 1703

Lab Number: L1106801
Report Date: 05/18/11

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.

MCP Related Narratives

Sample Receipt

In reference to question A:

Sample "LB-3/MW" was received without the container for Metals analysis. An aliquot was taken from an unpreserved container and preserved appropriately.

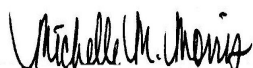
Metals

In reference to question I:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

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:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 05/18/11

METALS

Project Name: CAMBRIDGE HOSPITAL
Project Number: 1703

Lab Number: L1106801
Report Date: 05/18/11

SAMPLE RESULTS

Lab ID: L1106801-01
Client ID: LB-3/MW
Sample Location: CAMBRIDGE, MA
Matrix: Water

Date Collected: 05/12/11 00:00
Date Received: 05/12/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Westborough Lab											
Antimony, Total	ND		mg/l	0.050	--	1	05/17/11 12:30	05/18/11 11:27	EPA 3005A	97,6010B	AI
Arsenic, Total	ND		mg/l	0.005	--	1	05/17/11 12:30	05/18/11 11:27	EPA 3005A	97,6010B	AI
Cadmium, Total	ND		mg/l	0.004	--	1	05/17/11 12:30	05/18/11 11:27	EPA 3005A	97,6010B	AI
Chromium, Total	ND		mg/l	0.01	--	1	05/17/11 12:30	05/18/11 11:27	EPA 3005A	97,6010B	AI
Copper, Total	ND		mg/l	0.010	--	1	05/17/11 12:30	05/18/11 11:27	EPA 3005A	97,6010B	AI
Mercury, Total	ND		mg/l	0.0002	--	1	05/17/11 17:20	05/18/11 11:12	EPA 7470A	97,7470A	DM
Nickel, Total	0.029		mg/l	0.025	--	1	05/17/11 12:30	05/18/11 11:27	EPA 3005A	97,6010B	AI
Silver, Total	ND		mg/l	0.007	--	1	05/17/11 12:30	05/18/11 11:27	EPA 3005A	97,6010B	AI
Zinc, Total	ND		mg/l	0.050	--	1	05/17/11 12:30	05/18/11 11:27	EPA 3005A	97,6010B	AI



Project Name: CAMBRIDGE HOSPITAL

Lab Number: L1106801

Project Number: 1703

Report Date: 05/18/11

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Westborough Lab for sample(s): 01 Batch: WG468267-1										
Antimony, Total	ND		mg/l	0.050	--	1	05/17/11 12:30	05/18/11 11:18	97,6010B	AI
Arsenic, Total	ND		mg/l	0.005	--	1	05/17/11 12:30	05/18/11 11:18	97,6010B	AI
Cadmium, Total	ND		mg/l	0.004	--	1	05/17/11 12:30	05/18/11 11:18	97,6010B	AI
Chromium, Total	ND		mg/l	0.01	--	1	05/17/11 12:30	05/18/11 11:18	97,6010B	AI
Copper, Total	ND		mg/l	0.010	--	1	05/17/11 12:30	05/18/11 11:18	97,6010B	AI
Nickel, Total	ND		mg/l	0.025	--	1	05/17/11 12:30	05/18/11 11:18	97,6010B	AI
Silver, Total	ND		mg/l	0.007	--	1	05/17/11 12:30	05/18/11 11:18	97,6010B	AI
Zinc, Total	ND		mg/l	0.050	--	1	05/17/11 12:30	05/18/11 11:18	97,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Westborough Lab for sample(s): 01 Batch: WG468331-1										
Mercury, Total	ND		mg/l	0.0002	--	1	05/17/11 17:20	05/18/11 11:02	97,7470A	DM

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis Batch Quality Control

Project Name: CAMBRIDGE HOSPITAL

Project Number: 1703

Lab Number: L1106801

Report Date: 05/18/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG468267-2 WG468267-3								
Antimony, Total	103		102		80-120	1		20
Arsenic, Total	107		105		80-120	2		20
Cadmium, Total	103		103		80-120	0		20
Chromium, Total	100		100		80-120	0		20
Copper, Total	102		101		80-120	1		20
Nickel, Total	99		98		80-120	1		20
Silver, Total	102		102		80-120	0		20
Zinc, Total	100		100		80-120	0		20
MCP Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG468331-2 WG468331-3								
Mercury, Total	92		97		80-120	5		20

Project Name: CAMBRIDGE HOSPITAL**Lab Number:** L1106801**Project Number:** 1703**Report Date:** 05/18/11**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(*)
L1106801-01A	Plastic 500ml HNO3 preserved spl	A	<2	2.7	Y	Absent	MCP-CR-6010T-10(180),MCP-7470T-10(28),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-CU-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-NI-6010T-10(180)

*Values in parentheses indicate holding time in days

Project Name: CAMBRIDGE HOSPITAL
Project Number: 1703

Lab Number: L1106801
Report Date: 05/18/11

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.
C	· Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
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.
G	· The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
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.

Report Format: Data Usability Report



Project Name: CAMBRIDGE HOSPITAL
Project Number: 1703

Lab Number: L1106801
Report Date: 05/18/11

Data Qualifiers

- 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.
- 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: CAMBRIDGE HOSPITAL
Project Number: 1703

Lab Number: L1106801
Report Date: 05/18/11

REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

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 February 23, 2011 - 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, 353.2, SM2130B, 2320B, 4500Cl-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, SM2320B, 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, 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); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; 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,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 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-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, 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. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

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

Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO₃-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 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, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, 9050A, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH₃-H, 4500NO₃-F, 4500NO₂-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3580A, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

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

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-E, 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, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH₃-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270C-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 7196A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 8270C-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

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 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO₃-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH₃-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-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, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 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.*

Drinking Water (Organic Parameters: EPA 524.2)

Non-Potable Water (Inorganic Parameters: EPA 1312. Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH₃-H. Organic Parameters: 3540C, 3545, 3546, 3550B,

3580A, 3630C, 5035, 8015B, 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 NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson 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, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, 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.



CHAIN OF CUSTODY

PAGE 1 OF 1

WESTBORO, MA
TEL: 508-422-8300
FAX: 508-822-3288

MANFIELD, MA
TEL: 508-422-8300
FAX: 508-822-3288

Client Information

Client: Local Assn

Address: Koe Providence Hwy

Suite 30 Norwood, MA 02062

Phone: 781-255-5554

Fax:

Email: R.Tella@localunion.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

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

10801-01

Alpha Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials
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<u>00037</u>	<u>LG-3/MW</u>	<u>5/12/11</u>		<u>GM</u>	<u>SR</u>
<u>2</u>	<u>Charles River</u>	<u>↓</u>		<u>SW</u>	<u>↓</u>

Project Information

Project Name: Cambridge Hospital

Project Location: Cambridge, MA

Project #: 1703

Project Manager: Ralph Tella

ALPHA Quote #:

Turn-Around Time

☒ Standard ☒ RUSH (only confirmed if pre-approved)

Date Due: 5/18/11 Time: 5:00 PM

Date Rec'd in Lab: 5/12/11

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☐ ADEX ☐ Add'l Deliverables

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State Fed Program 215/MF Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

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

ANALYSIS
Hardness
Chloride
Hexavalent Chromium
Sb, As, Cd, Cr, Cu
Hg, Ni, Pb, Zn

SAMPLE HANDLING
Filtration: ☐ Done ☒ Not needed
☐ Lab to do
Preservation: ☐ Lab to do
(Please specify below)
Sample Specific Comments

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MAMCP or CT RCP?

Relinquished By:

Date/Time

Received By:

Date/Time

Container Type
Preservative

P P P
C A A

Please print clearly, legibly, and completely. Samples can not be relogged in and turnaround time clock will not start until all sample signatures are received. All samples submitted are subject to Alpha Terms and Conditions. See reverse side.