Subsurface Investigation Report
Twin Bridge Market
Leeds, Maine

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Prepared for:

Maine Department of Environmental Protection

Prepared by:

MAI ENVIRONMENTAL

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TABLE OF CONTENTS

Page

LIST OF FIGURES

LIST OF TABLES

LIST OF APPENDICES

SECTION 1. INTRODUCTION AND OBJECTIVES

This report documents the methods and results of a subsurface investigation at Twin Bridge Market, Leeds, Maine. The investigation was performed in two phases. The objective of the first phase, performed in October 2010, was to delineate the extent of petroleum impacted soil remaining at the Site following a MEDEP lead soil removal program in 1997 that was initiated during the removal and replacement of two gasoline USTs. The two replacement USTs still exist at the Site as does a dispenser pump located next to the north side of the building. The existing USTs and dispenser pump are out-of-service and the building is being remodeled for use as a restaurant. The Site and surrounding area are served by Private wells and septic systems. The well supply line and the septic system discharge pipe are located at the rear of the building (south side), which is on the opposite side of where the known petroleum impacted soil exists.

The objective of the second phase, performed in November 2010, was to determine if petroleum impacted soil or groundwater is causing vapor intrusion into the building that exceeds MEDEP guidelines. The second phase of the project was additionally designed to collected soil, groundwater, and soil vapor data that can be used by the State in MEDEP's on-going "Vapor Triage Study".

SECTION 2. SCOPE OF WORK

The completed scope of work included the following:

- Completion of 21 direct-push borings (B1 - B10, B10A, B11 - B20). Soils were logged and field screened using a PID.
- Installation of four (4) monitoring wells (MW1 - MW4).
- Installation of four (4) soil vapor implants (SG1-SG4).
- Collection and laboratory analysis of one (1) soil sample for VPH analysis (B18, 8-9') by MAI and collection and analysis of four (4) soil samples for VPH and EPH analysis by the MEDEP.
- Collection and laboratory analysis of four (4) groundwater samples for VPH analysis (MW1 – MW4).
- Collection and laboratory analysis of four (4) soil vapor samples (SG1-SG4) for:
    - chlorinated volatile organic compounds by EPA method TO-15,
    - volatile petroleum hydrocarbons in air (APH), and
    - fixed gases oxygen, carbon dioxide and methane (O_2, CO_2 and CH_4)

SECTION 3. METHODOLOGY

The general methodological approach and specific sampling and testing methodologies are presented in Tables 1 and 2.

3.1 General Methodology

The general methodology of this investigation was to 1) delineate the extent of petroleum impacted soil at the Site to assist the MEDEP in developing volume estimates for the planned soil removal in 2011 and 2) test soil, groundwater and soil gas for concentrations of VPH compounds in the following categories of locations:

- Source area location; previously documented areas with high concentrations of petroleum hydrocarbons,
- Migration areas, offset from the documented source areas, for evaluation of contaminant migration (15 and 30 ft from source area),
- Potential receptors (Site building).

Co-located soil, groundwater and soil gas samples from the same location were collected for comparison of impacts in different media.

Table 1, General Methodology, Appendix 1, describes the samples collected in each category, and the rationale for each sample.

3.2 Sample Collection and Testing Methodologies

The sample collection and testing methodologies are described in Table 2, Sample Collection and Testing Methodologies, Appendix 1.

Soil boring logs are in Appendix 2, Boring Logs and Monitoring Well Construction Details.

Soil and groundwater samples collected by MAI were submitted to Analytics Environmental Laboratory LLC, via Maine Environmental Laboratory in Yarmouth, Maine, for analysis of VPH. A trip blank accompanied all groundwater samples. Soil samples collected by the MEDEP were submitted to the State Laboratory (HETL).

Soil gas samples were submitted to Alpha Analytical, Mansfield, Massachusetts for analysis of chlorinated organic compounds, petroleum hydrocarbons, and fixed gases. Field data sheets for soil gas sampling are in Appendix 3, Soil Gas Field Data Sheets.

Soil analytical results were compared to Leaching to Groundwater Scenario, Table 3, Tier 1 Cumulative Risk-Based Soil Remediation Guidelines for Petroleum Target Compounds and Hydrocarbon Fractions, in *Remediation Guidelines for Petroleum Contaminated Sites in Maine*, effective December 1, 2009.

Groundwater analytical results were compared to the following standards and guidelines:

- Maine Centers for Disease Control, Maximum Exposure Guidelines for drinking water, December 14, 2010, (MEGs),

- Massachusetts Contingency Plan Method 1 Groundwater Standards, Table 1, GW-2 Standards (310 CMR 40.0974(2), which apply to groundwater that is considered a potential source of indoor air contamination, and
- Draft (11/23/2010) Table B11, Groundwater Vapor Intrusion Screening Levels for Chronic Residential and Commercial Scenarios (ug/l), provided by MEDEP, (Draft MEDEP Screening Levels).

Soil gas analytical results were compared to MEDEP's Soil Gas Target concentrations (SGT), which are calculated by applying a 50 times factor to the MEDEP Indoor Air Target (IAT) concentrations in Table B6, Indoor Air Targets for Chronic Commercial Scenario (ug/m3) – 1/14/2010 Interim Final for Multi-Contaminant Sites, in *MEDEP Vapor Intrusion Evaluation Guidance, January 13, 2010.*

Full laboratory reports are in Appendix 4, Laboratory Reports. Laboratory data is summarized in Tables 3 through 6.

SECTION 4. RESULTS

4.1 Quality Assurance

Samples were collected in a consistent manner according to standard practices outlined in the Table 2.

The investigation resulted in data that appears to reasonably represent the contaminant concentrations in the media sampled.

Fixed gases were monitored in the field for quality assurance for soil gas samples. Ambient air and pre-sample and post-sample O_2 and CO_2 were measured during sample collection. CH4 was also monitored in the soil gas implants prior to sampling (pre-sample). O2, CO2 and CH4 were analyzed on soil gas samples submitted to the laboratory. The field and laboratory fixed gas data are presented in Table 3, Fixed Gas Data.

Fixed gas data for all samples shows ambient O2 at expected concentration (20.9) and CO2 at 0.1% by volume. Pre-sample concentrations are appropriately lower (O2) and higher (CO2) than ambient concentrations. Post-sample O2 were equal to pre-sample concentrations and post sample CO2 were within 0.1% of the pre-sample CO2. Pre- and post sample O2 and CO2 concentrations are not indicative of an anomaly in the sampling or testing.

Laboratory analyses of O2 concentrations were lower than post-sample concentrations by 1.9 to 3.1% by volume. These decreases translate to 9.5 to 15% of the post-sample concentrations, which are within the +/-20% acceptable surrogate recovery limits in matrix spike data for laboratories.

Laboratory analyses of CO2 showed consistent decreases in CO2 concentrations compared to the post-sample field analyses. The decreases were between 0.18 and 0.74% by volume. These translate to differences of 13 to 39% compared to post-sample concentrations. The percent difference in one of the samples (SG2) exceeded the +/-20% acceptable surrogate recovery limits in matrix spike data for laboratories.

CH4 was not detected in field or laboratory analyses of soil gas samples.

4.2 Soil Samples

Twenty one (21) soil borings were completed during this investigation using Geoprobe direct push technology with continuous sampling and field screening for VOCs. Soil boring logs with field VOC concentrations are in Appendix 2. Four (4) soil samples were submitted for laboratory analysis of VPH and EPH and one (1) sample was submitted for VPH analysis only. A summary of the laboratory data is in Table 4. Laboratory analytical data for soil samples are included in Appendix 4, Soil Analytical Results.

Field PID and laboratory testing data indicate that a zone of residual petroleum impacted soil exists in the front portion of the building, west of where the 1997 soil excavation work was conducted **(See Figure 1)**. Laboratory results were compared to the MEDEP Leaching to Groundwater guideline. Based on the results, VPH parameters ethylbenzene, naphthalene, and C9-C10 aromatics exceed the remediation guideline in both B1 (8-9') and B18 (8-9'). The soil sample from B18 (8-9') also had total xylenes in excess of the remediation guideline. The sample from B2 (11-12') exceeded the guideline for naphthalene only and B6 exceeded the guideline for ethylbenzene only. No parameters were exceeded in the sample from B10 (7-8'). MTBE was not detected in any of the soil sample analyses.

EPH parameters were non-detect for samples B2 (11-12'), B6 (9-10'), and B10 (8-9'). EPH parameters were detected in B1 (8-9') and of the parameters detected, 2-methylnaphthalene exceeded the DEP Leaching to Groundwater guideline. EPH was not analyzed for the soil sample from B18 (8-9').

The petroleum constituent concentration in B1 and B18 soil samples (close to building) were higher than in B2 and B6 (close to road), indicating a decreasing trend in soil impacts from near source out towards the road. It is likely that impacted soil exists under the edge of the north side of the building, beginning at the east corner of the building to a point between B19 and B7, which is approximately 40 ft away. In addition, it is likely that impacted soil exists beneath the near side travel lane of Route 219 between B2 and B6.

The vertical extent of petroleum impacts within the zone of contamination extends from approximately 5 ft below ground surface (bgs) to 10-12 ft bgs.

4.3 Groundwater

Five groundwater samples were collected during this investigation, and submitted for laboratory analysis of VPH compounds and fractions. One of the five was collected from the basement sump in side the building and the remaining four were collected from monitoring wells. The analytical results, along with three sets of regulatory guidelines are shown in Table 5, and the laboratory reports are shown in Appendix 4.

The groundwater testing indicated elevated petroleum concentrations in MW1, located next to the fuel dispenser and within a small area adjacent to the building that did not get excavated as part of the 1997 removal program. At the time of the 1997 removal work, the dispenser was still in operation, thus soil removal close to the dispenser was limited. The results from MW1 show that ethylbenzene, naphthalene, and C9-C10 aromatics exceed the Maine MEGs. With regard to groundwater screening guidelines for vapor intrusion potential, none of the detected parameters in MW1 exceeded the MA GW2 standard. Ethylbenzene and C9-C10 aromatics exceeded the Maine Draft VI screening standard for commercial properties. MBTE was detected in trace concentration (1 J ug/l) in MW1 and in the basement sump.

4.4 Soil Gas

Four soil gas samples were collected during this investigation and submitted for laboratory analysis of air petroleum hydrocarbons by MA DEP's APH method, and a list of chlorinated organic compounds by EPA Method TO-15. The soil gas analytical results are summarized in Table 6**,** and the laboratory reports are provided in Appendix 4**.**

One chlorinated organic compound was detected in the laboratory analyses. PCE was detected at a concentration of 2.89 ug/m3, which does not exceed the MEDEP SGT of 105 ug/m3 for the chronic commercial scenario.

APH fractions were detected in all soil gas samples, but the concentrations were all below the MEDEP SGTs. Total APH fractions are most elevated in SG1 (106 ug/m3) and SG2 (190 ug/m3), which are the two soil gas implants closest to the source area. SG1 is co-located with MW1; MW1 being the only monitoring well that showed detections of petroleum constituents in the groundwater samples. SG3 and SG 4 which are located along the front of the building 15 ft and 30 ft respectively away from SG1 show lower APH fraction concentrations and no APH compounds. There does not appear to be strong correlation between the groundwater concentrations in the monitoring wells and the co-located soil gas concentrations. For example, VPH in groundwater was non-detect in MW2, MW3, and MW4, however, APH concentrations in the soil gas at co-located samples from SG2, SG3, and SG4 were positive. MW1 showed elevated VPH compounds in the groundwater, but its co-located soil gas sample from SG1 was similar in concentration to SG2, which is co-located with MW2 (non-detect for VPH in groundwater). The data indicate that although groundwater at MW3 and MW4 did not show detections of VPH in groundwater, soil gas from the source area has migrated along and likely beneath the front of the building, but at concentrations lower than the SGTs.

SECTION 5. CONCLUSIONS

This investigation has resulted in the following conclusions:

- Soil samples from B1, B2, B6, and B9 had petroleum constituent concentrations that exceed the Leaching to Groundwater remediation guidelines (*Remediation Guidelines for Petroleum Contaminated Sites in Maine, December 2009*), according to laboratory analytical data. Soil borings and samples from around the existing UST and in the area of the 1997 soil removal, did not show evidence of petroleum contamination that exceeds the remediation guidelines. The area in close proximity to the dispenser pump and in front of the building, where soil removal in 1997 was not performed, still has residual petroleum contamination to soil that exceeds the MEDEP guidelines for the Leaching to Groundwater standard.
- The amount of residually impacted soil that exceeds the remediation goals is estimated as follows:

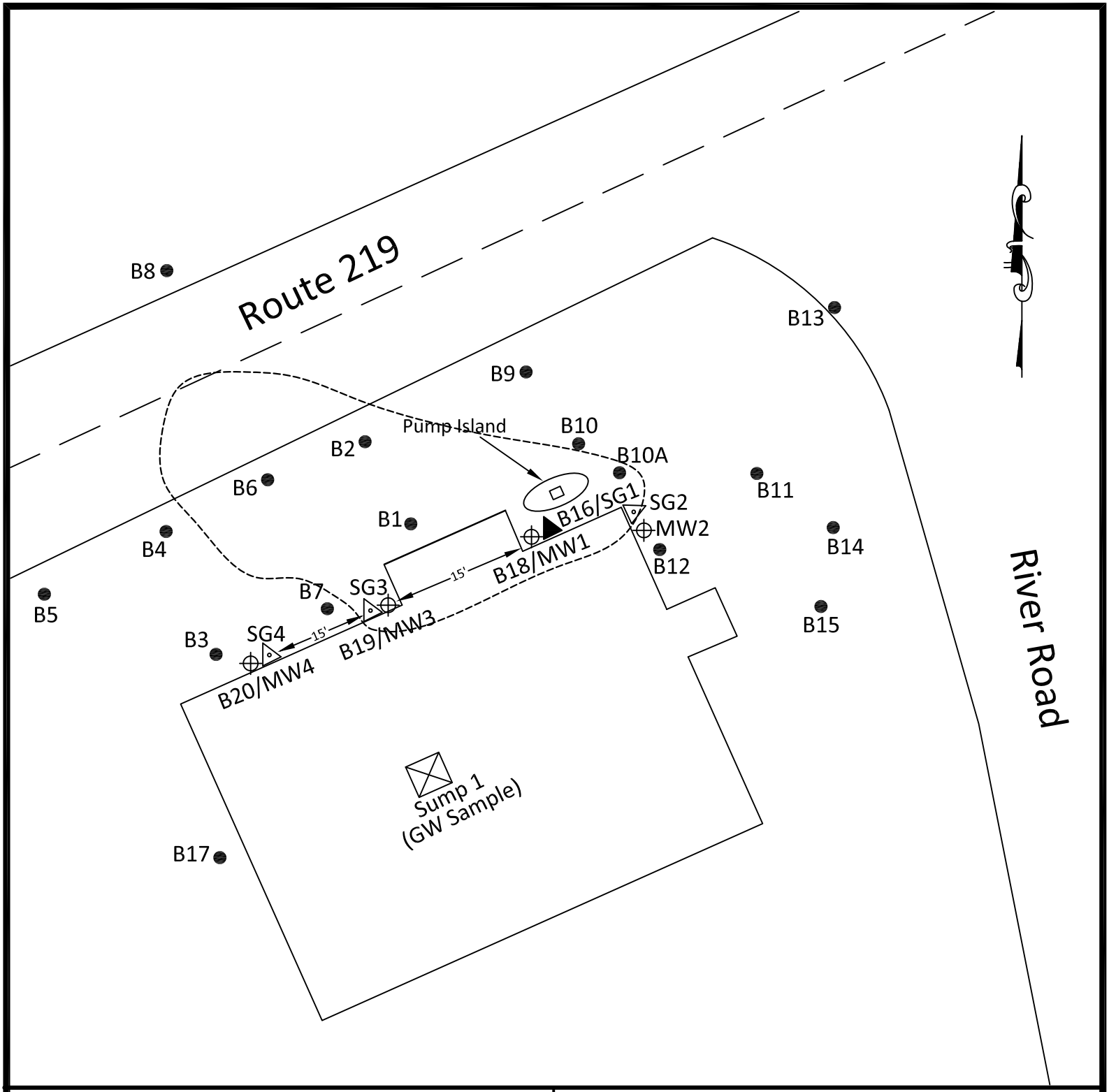
  Surface Area: *1,000 sqft*
  Vertical Zone: *5 – 12 ft bgs*
  Volume: *260 yds x 20% contingency factor = 315 yds.*
  Tonnage: *1.5 tons/yd, 315 yds x 1.5 tons/yd = 468 tons.*

- Groundwater laboratory analyses in overburden monitoring well MW1 show regulatory guidelines for drinking water (Maine MEGs) and MEDEP Draft Groundwater Vapor Intrusion Screening Levels (Commercial) were exceeded for ethylbenzene and C9-C10 aromatics. Naphthalene exceeded the MEG only. None of the groundwater sample parameters exceeded the Massachusetts GW-2 standards for vapor intrusion.

- One chlorinated organic compounds was detected in soil gas testing. PCE was detected at a concentration of 2.89 ug/m3 (SG2), which does not exceed the MEDEP SGT of 105 ug/m3 for the chronic commercial scenario. APH fractions were detected in all soil gas samples, but the concentrations were all below the MEDEP SGTs. APH compounds were detected in SG1 and SG2 only, which are the two soil gas implants closest to the source area. The data indicate that soil gas from the source area has migrated along and likely beneath the front of the building, but at concentrations lower than the SGTs.

APPENDIX 1

Tables and Figures



B1 ● Soil Boring (10/10)

SG1 ▲ Soil Vapor Implant (10/10)

MW1 ⊕ Proposed Soil Boring/Monitoring Well

SG2 △ Proposed Soil Vapor Implant

---------- Approximate Area of Impacted Soil

All Site Features Have Been Approximated based on Site Observations.

FIGURE 1
Site Plan

Twin Bridge Market
Leeds, ME

SCALE: ±1" = 15'

DATE: 1/14/11

DWG: A-1049

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Table 1
General Methodology

Category	Sample ID/Media	Rationale
Delineation		
	B1 – B17/Soil	Phase 1 soil borings completed around the Site to determine the horizontal and vertical extent of petroleum impacted soil.
	B1 (8-9'), B2 (11-12'), B6 (9-10'), B10 (7-8')/Soil	EPH and VPH testing of selected soil samples to assist in delineation of impacted soil and to compare to MEDEP remediation standards.
Source Area		
	B1, B2, B6/Soil	Soil samples collected by DEP personnel. Assess contaminant concentrations in soil inside the impacted zone as determined from the direct-push borings and PID levels.
	B18/Soil	Soil sample collected to assess contaminant concentrations in soil inside the source area as determined from the direct-push borings, PID levels, and laboratory testing (EPH/VPH).
	MW1/Groundwater	Groundwater sampled to assess contaminant concentrations in source area groundwater to compare with soil gas samples inside source area and soil gas samples outside source area to assess migration.
	SG1/Soil Gas	Soil gas sample collected in source area and to assess near slab vapor intrusion potential.
Migration		
	MW2/Groundwater	To provide groundwater concentration data up gradient of source area (area of residual soil impacts).
	MW3/Groundwater	To provide groundwater concentration data 15 ft down to cross gradient of source area.
	MW4/Groundwater	To provide groundwater concentration data 30 ft down to cross gradient of source area.
	SG2/Soil Gas	Assess soil gas migration up gradient of known source area, co-located to MW2 and B12.
	SG3/Soil Gas	Assess soil gas migration 15 ft down to cross gradient of known source area, co-located to MW3 and B19.
	SG4/Soil Gas	Assess soil gas migration 30 ft down to cross gradient of known source area, co-located to MW4 and B20.
Receptor		
	SG-1/Soil Gas	Assess soil gas concentration in source area adjacent to building slab.
	Sump 1	To provide groundwater concentration data from sump water inside building basement.

Table 2
Sample Collection and Testing Methodologies

Media	Sample Points (Depth ft)	Collection Methods	Field Testing	Laboratory Testing
Soil	B1 – B20	Soil borings were completed using MAI's Geoprobe 6620 DT direct-push drilling rig. Samples were collected in a 5' long disposable acetate liner at continuous depth intervals.	Thermo 580 B photoionization detector (PID). Calibrated using a 100 ppm isobutylene standard with a response factor of 1.0. MEDEP Poly-bag Headspace technique, MEDEP SOP DR #011	MADEP Hydrocarbon Fractions Analytical Methods. VPH - Volatile Petroleum Hydrocarbons. EPH – Extractable Petroleum Hydrocarbons.
Groundwater	MW1 – MW4	Monitoring wells were installed using MAI's Geoprobe 6620 DT direct-push drilling rig. Wells were made of 10' long, 1" dia. PVC well screen (10-slot) and solid riser pipe. The screens were placed across the observed water table such that 2' of screen extended above the water table and 8' below. The well screen sections were back filled with filter sand to 6" above top of implant and sealed with hydrated bentonite clay. Groundwater samples were collected using "Low flow" sampling methods.	Turbidity and water level.	MADEP Hydrocarbon Fractions Analytical Methods. VPH - Volatile Petroleum Hydrocarbons.
	Sump-1	Ran building sump pump from 9:00am – noon on day of sampling. Collected grab sample from sump at noon.	Turbidity, PID	MADEP Hydrocarbon Fractions Analytical Methods. VPH - Volatile Petroleum Hydrocarbons.
Soil Gas	SG1 (4.5') SG2 (3.25') SG3 (3.25') SG4 (3.25')	Soil gas implants (6" long) were installed to a depth of 2' above the observed water table using MAI's Geoprobe 6620 DT direct-push drilling rig. The implants were installed through the drill casing, backfilled with filter sand and sealed with bentonite clay. Soil gas was collected using a peristaltic pump at a low flow rate (100 ml/min) to minimize the potential for short circuiting.	RKI Eagle, or MSA Orion Plus IR detector, Multi-Gas Meter. Rotameter - model P single flow tube meter Dwyer instruments magnehelic gauge (Model 2000-00 has a range of 0-0.50" w.c., minor divisions .01, calibrated for vertical scale position)	MADEP - Air Phase Petroleum Hydrocarbons MA-APH (Air Phase Petroleum Hydrocarbons) and breakdown products) • EDB (ethylene dibromide) and TO-15 • fixed gases (Methane, O2 and CO2)

Table 3: Fixed Gas Data

Sample ID	**SG-1**	**SG-2**	**SG-3**	**SG-4**
Sample Date:	11/19/10	11/19/10	11/24/10	11/19/10
Sample Depth (ft):	4.5	3.5	3.5	3.5
Depth to Water (ft):	4.75	4.08	5.10	5.05
O2				
Ambient O2 (%):	20.9	20.9	20.9	20.9
Pre-sample O2 (%):	20.4	19.9	20.4	19.9
Post Sample O2 (%):	20.4	20.0	20.4	19.8
Lab O2 (%):	17.3	18.1	18.0	17.9
CO2				
Ambient CO2 (%):	0.1	0.1	0.1	0.1
Pre-sample CO2 (%):	1.4	1.5	1.9	1.8
Post Sample CO2 (%):	1.4	1.5	1.9	1.8
Lab CO2 (%):	1.22	1.25	1.16	1.61
CH4				
Pre-sample CH4 (%LEL):	0	0	0	0
Lab CH4 (%):	ND	ND	ND	ND

TABLE 4
Soil Analytical Data

Sample ID	**B1 (8-9')**	**B2 (11-12')**	**B6 (9-10')**	**B10 (7-8')**	**B18 (8-9') MW1**	**GW Leaching Soil Guideline** [1]
Sample Date	10/26/10	10/26/10	10/26/10	10/26/10	11/16/10	
VOCs by PID, ppmv	807	210	427	68.8	227	--
VPH Analytes, mg/kg						
Toluene	0.25	ND (0.05)	ND (0.05)	ND (0.05)	0.881 J	8.1
Ethylbenzene	**2.9**	0.13	**0.89**	ND (0.05)	**7.73**	0.81
m/p- Xylenes	13	0.14	1.9	ND (0.1)	30.8	--
o-Xylene	3.3	ND (0.05)	ND (0.05)	ND (0.05)	3.8	--
Xylenes, total	16.3	0.14	1.9	ND	**34.6**	26
Naphthalene	**4.3**	**3.2**	1.0	ND (0.1)	**7.15**	1.7
C5-C8 Aliphatic	95	25	43	6.8	54.8	1600
C9-C12 Aliphatic	15	8.3	22	34	ND (40.7)	---
C9-C10 Aromatic	**140**	12	44	1.6	**221**	75
EPH Analytes, mg/kg						
Naphthalene	1.6	ND (0.2)	ND (0.2)	ND (0.2)	NA	1.7
2-Methylnaphthalene	**5.0**	ND (0.2)	ND (0.2)	ND (0.2)	NA	3.6
C9-C18 Aliphatic	35	ND (20)	ND (20)	ND (20)	NA	---
C19-C36 Aliphatic	ND (20)	ND (20)	ND (20)	ND (20)	NA	---
C11-C22 Aromatic	37	ND (20)	ND (20)	ND (20)	NA	460

NOTES - [1] Groundwater Leaching scenario, Table 3, Tier 1 Cumulative Risk-Based Soil Remediation Guidelines for Petroleum Target Compounds and Hydrocarbon Fractions, Remediation Guidelines for Petroleum Contaminated Sites in Maine, effective December 1, 2009

-- = No guideline for this compound

ND = Not detected above the laboratory reporting limit (Reporting Limit – RL)

J = Compound detected below calibrated range, concentration estimated

mg/kg = milligrams per kilogram

ppmv = parts per million by volume

TABLE 5
Groundwater Analytical Results

Sample ID	**MW-1**	**MW-2**	**MW-3**	**MW-4**	**Sump-1**	**Trip Blank**	**MA GW2 Standard [1]**	**ME MEGs 2010 [3]**	**Draft VI Screening-Commercial [2]**
Sample Date	11/19/10	11/19/10	11/19/10	11/19/10	11/19/10	11/19/10			
Units	Micrograms per liter (ug/l)								
VPH Analytes									
Benzene	2	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	2000	**4**	6.9
Toluene	2	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	50000	**600**	16000
Ethylbenzene	**34**	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	20000	**30**	15
m/p- Xylenes	77	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	--	**--**	--
o-Xylene	18	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	--	**--**	--
Xylenes, total	95	ND	ND	ND	ND	ND	9000	**1000**	410
Methyl tert butyl ether	1 J	ND (2)	ND (2)	ND (2)	1 J	ND (2)	50000	**35**	2000
Naphthalene	**12**	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	1000	**10**	20
C5-C8 Aliphatic	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	3000	**300**	3.2
C9-C12 Aliphatics	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	5000	**700**	2.7
C9-C10 Aromatic	**244**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	7000	**200**	130

NOTES - [1] Massachusetts Contingency Plan Method 1 Groundwater Standards, Table1, GW-2 Standards, (310 CMR 40.0974(2)), for groundwater that is considered a potential source of indoor air contamination; exceedances are shaded

[2] Draft (11/23/2010) Table B11, Groundwater Vapor Intrusion Screening Levels for Chronic Residential and Commercial Scenarios (ug/l), provided by MEDEP, (Draft MEDEP Screening Levels).

[3] Maine Department of Human Services, Centers for Disease Control, Maximum Exposure Guidelines (MEGs) for drinking water, December 14, 2010.; exceedances are in bold font

VPH = Volatile Petroleum Hydrocarbons, MA DEP Method

-- = No standard or guideline for this compound

ND = Not detected above the laboratory reporting limit

J = Compound detected below calibrated range, concentration estimated

TABLE 6
Soil Gas Analytical Results

Sample ID (depth)	SG-1 (4.5')	SG-2 (3.5')	SG-3 (3.5')	SG-4 (3.5')	Regulatory Guidelines
Sample Date	11/19/10	11/19/10	11/24/10	11/19/10	
Analyte	Units ug/m^3				SGT [1]
Chlorinated VOCs (TO-15) [2]					
Tetrachloroethene (PCE)	ND (1.36)	2.89	ND (1.36)	ND (1.36)	105
APH					
1,3-Butadiene	ND (2)	ND (2)	ND (2)	ND (2)	20.5
Benzene	ND (2)	ND (2)	ND (2)	ND (2)	80
Toluene	220	24	ND (2)	ND (2)	220000
Ethylbenzene	ND (2)	5.9	ND (2)	ND (2)	245
m/p- Xylenes	4.1	18	ND (4)	ND (4)	-
o-Xylene	ND (2)	8.5	ND (2)	ND (2)	-
Xylenes, total	4.1	36.5	ND	ND	4400
Naphthalene	ND (2)	ND (2)	ND (2)	ND (2)	18
Methyl tert butyl ether	ND (2)	ND (2)	ND (2)	ND (2)	23.5
C5-C8 Aliphatic, Adjusted	18	58	13	22	9000
C9-C12 Aliphatics, Adjusted	88	52	39	40	9000
C9-C10 Aromatic, Total	ND (10)	80	ND (10)	19	2200

NOTES - [1] Soil Gas Target (SGT) = 50 times the MEDEP Indoor Air Target for Chronic Commercial-Multi Contaminant Scenario, Table B6 – 01/14/10 MEDEP Vapor Intrusion Evaluation Guidance; exceedances are shaded.
[2] Chlorinated volatile organic compounds by EPA Method TO-15. Analyte List: Vinyl chloride, 1,1-Dichloroethene, Trans-1,2-Dichloroethene, 1,1-Dichloroethane, Cis-1,2-Dichloroethene, 1,1,1-Trichloroethane, Trichloroethene, 1,2-Dibromomethane, Tetrachloroethene,
ND = Not detected above the laboratory reporting limit

APPENDIX 2

Boring Logs and Well Construction Details

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Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B1**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube
Date Drilled:	October 26, 2010	Total Depth of Borehole:	18.8 Feet
Drilling Method:	Direct Push		

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		Asphalt				
S1		Brown medium SAND, trace Silt and gravel		0	PID Calibrated Using Set Point of 1.0	
S1		Brown fine to medium SAND, trace Silt		0.8		
			5			
S2		Brown fine to medium SAND, trace Silt (turns gray at 7.5')		654	Wet at 7.5' - Petrol Odor	
S2		Olive gray SILT & CLAY (dense)		807	Petrol Odor Lab VPH, EPH	
S2		Dense gray fine to coarse SAND, some Silt & Gravel (Till)		751	Petrol Odor	
			10			
S3		Dense gray fine to coarse SAND, some Silt & Gravel (Till)		69.7		
S3		Dense gray fine to coarse SAND, some Silt & Gravel (Till)		12.7	Dense	
			15			
S4		Dense gray fine to coarse SAND, some Silt & Gravel (Till)		7.2		
		Bottom of Boring 18.8-feet (Refusal)				
			20			

MAI Environmental

Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B2**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube
Date Drilled:	October 26, 2010	Total Depth of Borehole:	15 Feet
Drilling Method:	Direct Push		

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		Asphalt				
		Brown fine to medium SAND, trace Gravel and silt				
S1				0	PID Calibrated Using Set Point of 1.0	
S1		Brown fine SAND, some Silt and clay	5	0		
		Orange/Brown medium SAND, trace Silt				
S2				0.4	Wet at 7.5' - Petrol Odor	
S2		Olive gray SILT & CLAY		42.7		
S2		Gray medium SAND, trace Silt & Gravel		590	Wet, Petrol Odor	
S2		Dense gray fine to coarse SAND, some Silt & Gravel (Till)	10	732	Petrol Odor	
		Dense gray fine to coarse SAND, some Silt & Gravel (Till)				
S3				210	Petrol Odor Lab 11'-12' VPH, EPH	
S3		Dense orange/brown fine to coarse SAND, some Silt & Gravel (Till)		1.4		
		Bottom of Boring 15-feet (Refusal)	15			
			20			

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Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B3**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube
Date Drilled:	October 26, 2010	Total Depth of Borehole:	15 Feet
Drilling Method:	Direct Push		

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		Asphalt				
S1		Orange/Brown fine to medium SAND, trace silt		1.7	PID Calibrated Using Set Point of 1.0	
			5			
S2		Orange/Brown fine to medium SAND, trace silt		0		
S2		Olive gray SILT & CLAY		0		
			10			
S3		Olive gray SILT & CLAY		0		
S3		Dense gray fine to coarse SAND, some Silt & Gravel (Till)		0		
			15			
		Bottom of Boring 15-feet (Refusal)				
			20			

MAI Environmental

Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B4**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube
Date Drilled:	October 26, 2010	Total Depth of Borehole:	15 Feet
Drilling Method:	Direct Push		

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		Asphalt				
S1		Orange/Brown fine to medium SAND, trace silt		2.1	PID Calibrated Using Set Point of 1.0	
			5			
S2		Orange/Brown fine to medium SAND, trace silt		0.8		
S2		Olive gray SILT & CLAY		0		
			10			
S3		Olive gray SILT & CLAY		0		
S3		Dense gray fine to coarse SAND, some Silt & Gravel (Till)		0		
			15			
		Bottom of Boring 15-feet (No Refusal)				
			20			

MAI Environmental

Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B5**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube
Date Drilled:	October 26, 2010	Total Depth of Borehole:	10 Feet
Drilling Method:	Direct Push		

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		Asphalt				
		Orange/Brown fine to medium SAND, trace silt				
S1				0.8	PID Calibrated Using Set Point of 1.0	
			5			
		Orange/Brown fine to medium SAND, trace silt				
S2				0.8		
		Olive gray SILT & CLAY				
S2				0		
		Bottom of Boring 10-feet (No Refusal)	10			
			15			
			20			

MAI Environmental

Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B6**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube
Date Drilled:	October 26, 2010	Total Depth of Borehole:	12.1 Feet
Drilling Method:	Direct Push		

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		Asphalt				
S1		Orange/Brown fine to medium SAND, trace silt		2.1	PID Calibrated Using Set Point of 1.0	
			5			
S2		Orange/Brown fine to medium SAND, trace silt		0		
S2		Olive gray SILT & CLAY		427		
			10			
S3		Dense gray fine to coarse SAND, some Silt & Gravel (Till)		6.4		
		Bottom of Boring 12.1-feet (Refusal)				
			15			
			20			

MAI Environmental

Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B7**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube
Date Drilled:	October 26, 2010	Total Depth of Borehole:	15 Feet
Drilling Method:	Direct Push		

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		Asphalt				
S1		Orange/Brown fine to medium SAND, trace silt		0.9	PID Calibrated Using Set Point of 1.0	
			5			
S2		Orange/Brown fine to medium SAND, trace silt		0.4		
S2		Olive gray SILT & CLAY		4.7		
			10			
S3		Olive gray SILT & CLAY		1.7		
S3		Dense gray fine to coarse SAND, some Silt & Gravel (Till)		0		
			15			
		Bottom of Boring 15-feet (No Refusal)				
			20			

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Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B8**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube
Date Drilled:	October 26, 2010	Total Depth of Borehole:	11 Feet
Drilling Method:	Direct Push		

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
S1		Dark Brown fine to medium SAND, some Gravel, little silt		0	PID Calibrated Using Set Point of 1.0	
S2		Dark Brown fine to medium SAND, trace Silt		0		
S3		Dark Brown fine to medium SAND, trace Silt	5	0		
S3		Olive gray SILT & CLAY		0		
S4		Brown SAND and gravel, little silt (poor recovery)	10	0		
		Bottom of Boring 11-feet (Refusal)				
			15			
			20			

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Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B9**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube
Date Drilled:	October 26, 2010	Total Depth of Borehole:	14 Feet
Drilling Method:	Direct Push		

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		Asphalt				
		Orange/Brown fine to medium SAND, trace silt and gravel				
S1				0.8	PID Calibrated Using Set Point of 1.0	
			5			
S2		Orange/Brown fine to medium SAND, trace silt and gravel		0		
		Olive gray SILT & CLAY (dense few sand partings)				
S2				0		
			10			
		Olive gray SILT & CLAY				
S3				0		
S3		Dense gray fine to coarse SAND, some Silt & Gravel (Till)		0		
		Bottom of Boring 14-feet (Refusal)				
			15			
			20			

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Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B10**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube
Date Drilled:	October 26, 2010	Total Depth of Borehole:	8.5 Feet
Drilling Method:	Direct Push		

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		Asphalt				
S1		Orange/Brown medium to coarse SAND, trace silt		0	PID Calibrated Using Set Point of 1.0	
S2		Orange/Brown medium to coarse SAND, trace silt	5	0		
S2		Olive gray SILT & CLAY		68.8	Wet	
		Bottom of Boring 8.5-feet (Refusal rock/stone)	10			
			15			
			20			

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Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B10A**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube
Date Drilled:	October 26, 2010	Total Depth of Borehole:	13 Feet
Drilling Method:	Direct Push		

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		Asphalt				
S1		Orange/Brown medium SAND, trace silt and gravel		0	PID Calibrated Using Set Point of 1.0	
			5			
S2		Orange/Brown medium SAND, trace silt and gravel		2.5		
S2		Olive gray SILT & CLAY		0.9	Wet	
			10			
S3		Olive gray SILT & CLAY		0		
		Bottom of Boring 13-feet (Refusal)				
			15			
			20			

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Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B11**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube
Date Drilled:	October 26, 2010	Total Depth of Borehole:	15 Feet
Drilling Method:	Direct Push		

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		Asphalt				
		Orange/Brown fine to medium SAND, trace silt, little gravel				
S1				0.4	PID Calibrated Using Set Point of 1.0	
			5			
		Orange/Brown medium SAND, trace silt, little gravel				
S2				0		
		Olive gray SILT & CLAY				
S2				0	Wet	
		Olive gray SILT & CLAY	10			
S3				0		
			15			
		Bottom of Boring 15-feet (No Refusal)				
			20			

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Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B12**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube
Date Drilled:	October 27, 2010	Total Depth of Borehole:	14 Feet
Drilling Method:	Direct Push		

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		Asphalt				
		Orange/Brown medium SAND, trace silt and gravel				
S1				0	PID Calibrated Using Set Point of 1.0	
			5			
		Orange/Brown medium SAND, trace silt and gravel				
S2				0		
		Olive gray SILT & CLAY				
S2				0		
		Olive gray SILT & CLAY	10			
S3				0		
S3		Dense gray fine to coarse SAND, some Silt & Gravel (Till)		0		
		Bottom of Boring 14-feet (Refusal)	15			
			20			

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Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B13**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube
Date Drilled:	October 27, 2010	Total Depth of Borehole:	14 Feet
Drilling Method:	Direct Push		

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		Asphalt				
		Orange/Brown medium SAND, trace silt and gravel				
S1				0	PID Calibrated Using Set Point of 1.0	
			5			
		Orange/Brown medium SAND, trace silt and gravel				
S2				0		
		Olive gray SILT & CLAY				
S2				0		
		Olive gray SILT & CLAY	10			
S3				0		
S3				0		
		Dense gray fine to coarse SAND, some Silt & Gravel (Till)				
		Bottom of Boring 14-feet (No Refusal)	15			
			20			

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Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B14**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube
Date Drilled:	October 27, 2010	Total Depth of Borehole:	14 Feet
Drilling Method:	Direct Push		

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		Asphalt				
		Orange/Brown medium SAND, trace silt and gravel				
S1				0	PID Calibrated Using Set Point of 1.0	
			5			
S2		Orange/Brown medium SAND, trace silt and gravel		0		
		Olive gray SILT & CLAY				
S2				0		
			10			
		Olive gray SILT & CLAY				
S3				0		
S3		Dense brown/gray fine to coarse SAND, some Silt & Gravel (Till)		0		
		Bottom of Boring 14-feet (Refusal)				
			15			
			20			

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Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B15**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube
Date Drilled:	October 27, 2010	Total Depth of Borehole:	14 Feet
Drilling Method:	Direct Push		

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		Asphalt				
		Orange/Brown medium SAND, trace silt and gravel				
S1				0	PID Calibrated Using Set Point of 1.0	
			5			
		Brown fine to coarse SAND, trace silt and gravel (poor recovery - possible tank pit backfill)				
S2				0		
			10			
		Brown fine to coarse SAND, trace silt and gravel (poor recovery - possible tank pit backfill)				
S3				0		
		Olive gray SILT & CLAY				
S3				0		
S3		Dense brown/gray fine to coarse SAND, some Silt & Gravel (Till)		0		
		Bottom of Boring 14-feet (Refusal)	15			
			20			

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Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B16 SG1**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube
Date Drilled:	October 27, 2010	Total Depth of Borehole:	9 Feet
Drilling Method:	Direct Push	**NOTE: 5' Sample Intervals Composited For PID Screening**	

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Vapor Point | SVP Tubing

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Soil Vapor Point
		Asphalt				
S1		Orange/Brown medium SAND, trace silt and gravel		0	PID Calibrated Using Set Point of 1.0	
S2		Orange/Brown medium SAND, trace silt and gravel	5	0	SV Implant set 4-4.5' Water Level @ 6'	
S2		Dark gray SILT & CLAY (dense till in tip)		548		
		Bottom of Boring 9-feet (Refusal)	10			
			15			
			20			

MAI Environmental

Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B17**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube
Date Drilled:	October 27, 2010	Total Depth of Borehole:	10 Feet
Drilling Method:	Direct Push		

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		Asphalt				
S1		Orange/Brown medium SAND, trace silt and gravel		0	PID Calibrated Using Set Point of 1.0	
			5			
S2		Orange/Brown medium SAND, trace silt and gravel		0		
S2		Olive gray SILT & CLAY (dense till in tip)		0		
		Bottom of Boring 10-feet (Refusal)	10			
			15			
			20			

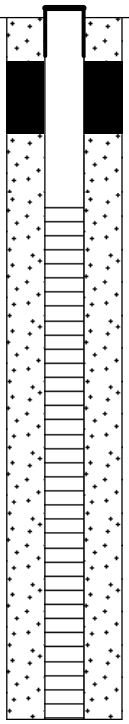
MAI Environmental

Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B18 MW1**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	Paul Prescott	Sampling Method:	Dual Tube
Date Drilled:	November 6, 2010	Total Depth of Borehole:	12 Feet
Drilling Method:	Direct Push	**NOTE: 5' Sample Intervals Composited For PID Screening**	

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes
		Asphalt			
		Orange/Brown medium to fine SAND, trace silt and gravel			
S1				0	PID Calibrated Using Set Point of 1.0
			5		
		Brown/Grey SAND			
S2				0	
		Gray SILT & CLAY			
S2				227	Petrol Odor
S2		Gray SILT & CLAY		32	No Petrol Odor
			10		
		Gray SILT & CLAY			
S3				77	Slight Petrol Odor
S3		Brown SAND and Silt (Till)		0	
		Bottom of Boring 12-feet (Refusal)			
			15		
			20		

Well Completion



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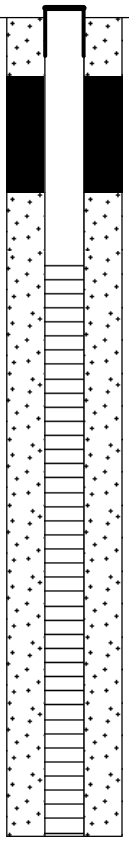
Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**MW2**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	Paul Prescott	Sampling Method:	Dual Tube
Date Drilled:	November 6, 2010	Total Depth of Borehole:	14 Feet
Drilling Method:	Direct Push	**NOTE: 5' Sample Intervals Composited For PID Screening**	

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		No Samples Collected - Installed adjacent to B12	5 10 15 20			

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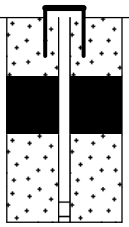
Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**SG2**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	Paul Prescott	Sampling Method:	Dual Tube
Date Drilled:	November 6, 2010	Total Depth of Borehole:	14 Feet
Drilling Method:	Direct Push	**NOTE: 5' Sample Intervals Composited For PID Screening**	

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Vapor Point | SVP Tubing

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Soil Vapor Point
		No Samples Collected - Installed adjacent to B12	5, 10, 15, 20		SV Implant set 3.0'-3.5'	

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Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B19 MW3**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	Paul Prescott	Sampling Method:	Dual Tube
Date Drilled:	November 6, 2010	Total Depth of Borehole:	11 Feet
Drilling Method:	Direct Push	**NOTE: 5' Sample Intervals Composited For PID Screening**	

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		Asphalt				
		Orange/Brown medium SAND, trace gravel				
S1				0	PID Calibrated Using Set Point of 1.0	
			5			
S2		Orange/Brown medium SAND, trace gravel		0		
S2		Gray SILT & CLAY		222	Petrol Odor	
		Gray SILT & CLAY				
S2				48		
			10			
S3		Gray SILT & CLAY - Rock in Tip		0.8		
		Bottom of Boring 11-feet (Boulder)				
			15			
			20			

MAI Environmental

Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B19 SG3**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	Paul Prescott	Sampling Method:	Dual Tube
Date Drilled:	November 6, 2010	Total Depth of Borehole:	11 Feet
Drilling Method:	Direct Push	**NOTE: 5' Sample Intervals Composited For PID Screening**	

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Vapor Point | SVP Tubing

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Soil Vapor Point
		Asphalt				
		Orange/Brown medium SAND, trace gravel				
S1				0	PID Calibrated Using Set Point of 1.0	
			5			
S2		Orange/Brown medium SAND, trace gravel		0		
S2		Gray SILT & CLAY		222	SV Implant set 3-3.5'	
		Gray SILT & CLAY				
S2				48		
			10			
S3		Gray SILT & CLAY - Rock in Tip		0.8		
		Bottom of Boring 11-feet (Boulder)				
			15			
			20			

MAI Environmental

Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B20 MW4**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	Paul Prescott	Sampling Method:	Dual Tube
Date Drilled:	November 6, 2010	Total Depth of Borehole:	11 Feet
Drilling Method:	Direct Push	**NOTE: 5' Sample Intervals Composited For PID Screening**	

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Screen | Riser

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		Asphalt				
		Orange/Brown fine to medium SAND				
S1				0	PID Calibrated Using Set Point of 1.0	
			5			
S2		Orange/Brown fine to medium SAND		0		
S2		Gray SILT & CLAY		0		
S2		Brown SAND, Silt, Gravel, pulverized rock (Till)		0		
			10			
S3		Brown SAND, Silt, Gravel, pulverized rock (Till)		0		
		Bottom of Boring 11-feet (Refusal)				
			15			
			20			

MAI Environmental

Twin Bridge Market - Route 219	Leeds, Maine	**BORING DESIGNATION**	**B20 SG4**
Project Number:	1048	Drilling Rig:	Geoprobe 6620DT
Geologist:	Paul Prescott	Sampling Method:	Dual Tube
Date Drilled:	November 6, 2010	Total Depth of Borehole:	11 Feet
Drilling Method:	Direct Push	**NOTE: 5' Sample Intervals Composited For PID Screening**	

Clay | Sand | Silt | Silty Sand | Asphalt | Bentonite | Filter Sand | Vapor Point | SVP Tubing

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Soil Vapor Point
		Asphalt				
S1		Orange/Brown fine to medium SAND		0	PID Calibrated Using Set Point of 1.0	
			5			
S2		Orange/Brown fine to medium SAND		0	SV Impland Set 3.0'-3.5'	
S2		Gray SILT & CLAY		0		
S2		Brown SAND, Silt, Gravel, pulverized rock (Till)		0		
			10			
S3		Brown SAND, Silt, Gravel, pulverized rock (Till)		0		
		Bottom of Boring 11-feet (Refusal)				
			15			
			20			

APPENDIX 3

Soil Gas and Groundwater Sampling Field Data Sheets

MAI ENVIRONMENTAL
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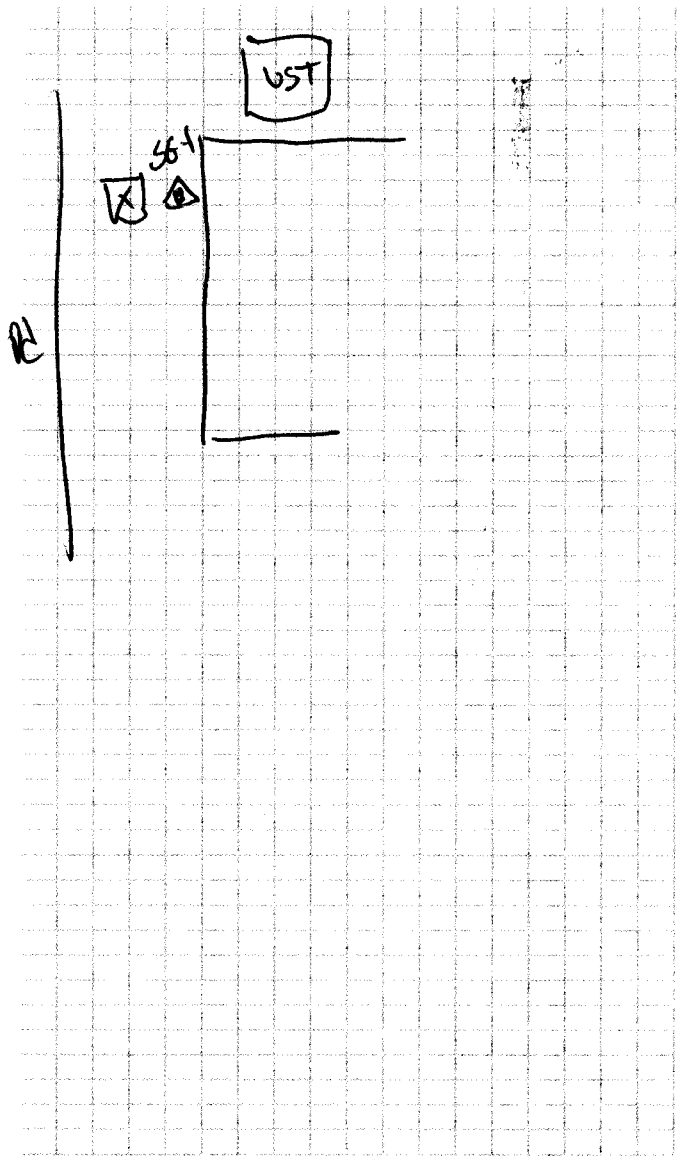
Soil Gas Sampling Data Record

PROJECT: Twin Bridge Market
LOCATION: Leeds, Maine
DATE: 11/19/10

SAMPLE ID: SG-1
SAMPLER: Seth Brown

Sampling Purpose	(Source) (Utility) (Mitigation) (Receptor) (Other)
Collection Device:	(Summa Cannister) (Tedlar Bag) (Niosh Tube)
Sample Penetration Location:	(Ashphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth: (ft bgs)	3.25
Depth to Water: (ft bgs)	4.75
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	1478
Controller I.D.:	90
Flow rate: (ml/min)	200
O_2 Ambient (%)	20.9
CO_2 Ambient (%)	0.1
Pre Sample O_2: (%)	20.4
Pre Sample CO_2: (%)	1.4
Pre Sample PID: (ppm)	0
Pre Sample CH_4: (% LEL)	0
Sampling Start Time:	11:22
Initial Cannister Vacuum: (" H_2O)	-28
Sampling End Time:	11:33
Final Cannister Vaccum: (" H_2O)	-5
Post Sample O_2: (%)	20.4
Post Sample CO_2: (%)	1.4
Post Sample CH_4: (% LEL)	—

Sample Location Sketch



Notes: Vacuum .08"

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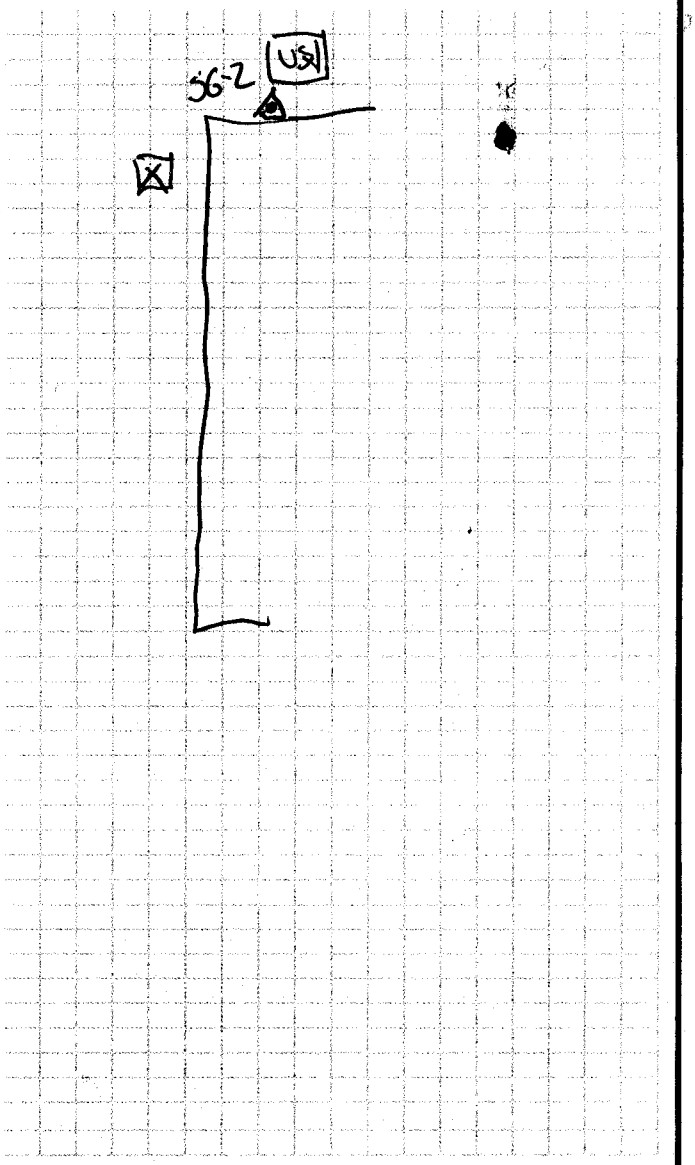
Soil Gas Sampling Data Record

PROJECT: Twin Bridge Market
LOCATION: Leeds, Maine
DATE: 11/19/10

SAMPLE ID: SG-2
SAMPLER: Seth Brown

Sampling Purpose	(Source) (Utility) (Mitigation) (Receptor) (Other)
Collection Device:	(Suma Cannister) (Tedlar Bag) (Niosh Tube)
Sample Penetration Location:	(Ashphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth: (ft bgs)	3.25
Depth to Water: (ft bgs)	4.08
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	490
Controller I.D.:	236
Flow rate: (ml/min)	200
O_2 Ambient (%)	20.9
CO_2 Ambient (%)	0.1
Pre Sample O_2: (%)	19.9
Pre Sample CO_2: (%)	1.5
Pre Sample PID: (ppm)	0
Pre Sample CH_4: (% LEL)	0
Sampling Start Time:	11:00
Initial Cannister Vacuum: (" H_2O)	-28
Sampling End Time:	11:20
Final Cannister Vaccum: (" H_2O)	-5
Post Sample O_2: (%)	20
Post Sample CO_2: (%)	1.5
Post Sample CH_4: (% LEL)	—

Sample Location Sketch



Notes:

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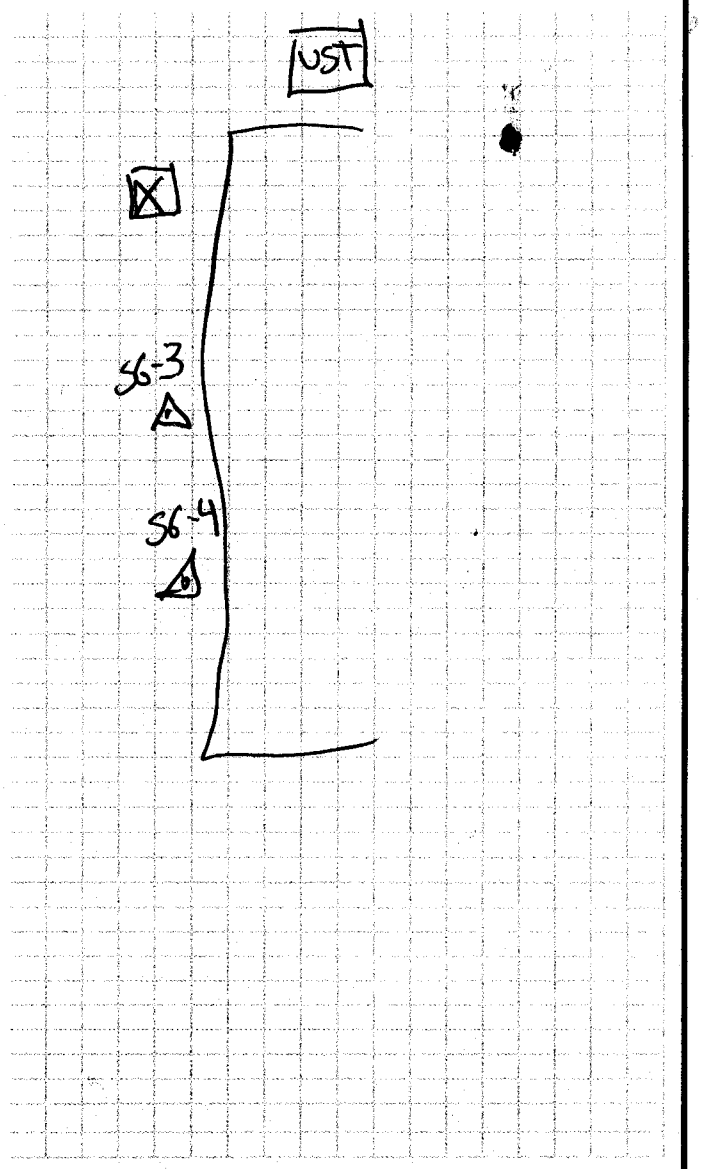
Soil Gas Sampling Data Record

PROJECT: **Twin Bridge Market**
LOCATION: **Leeds, Maine**
DATE: 11/24/10

SAMPLE ID: SG-3
SAMPLER: **Seth Brown**

Sampling Purpose	(Source) (Utility) (Mitigation) (Receptor) (Other)
Collection Device:	(Suma Cannister) (Tedlar Bag) (Niosh Tube)
Sample Penetration Location:	(Ashphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth: (ft bgs)	3.25
Depth to Water: (ft bgs)	5.05
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	511
Controller I.D.:	469
Flow rate: (ml/min)	200
O_2 Ambient (%)	20.9
CO_2 Ambient (%)	0.1
Pre Sample O_2: (%)	19.9
Pre Sample CO_2: (%)	1.8
Pre Sample PID: (ppm)	0
Pre Sample CH_4: (% LEL)	0
Sampling Start Time:	11:52
Initial Cannister Vacuum: (" H_2O)	-29
Sampling End Time:	12:04
Final Cannister Vaccum: (" H_2O)	-5
Post Sample O_2: (%)	20.4
Post Sample CO_2: (%)	1.9
Post Sample CH_4: (% LEL)	—

Sample Location Sketch



Notes:

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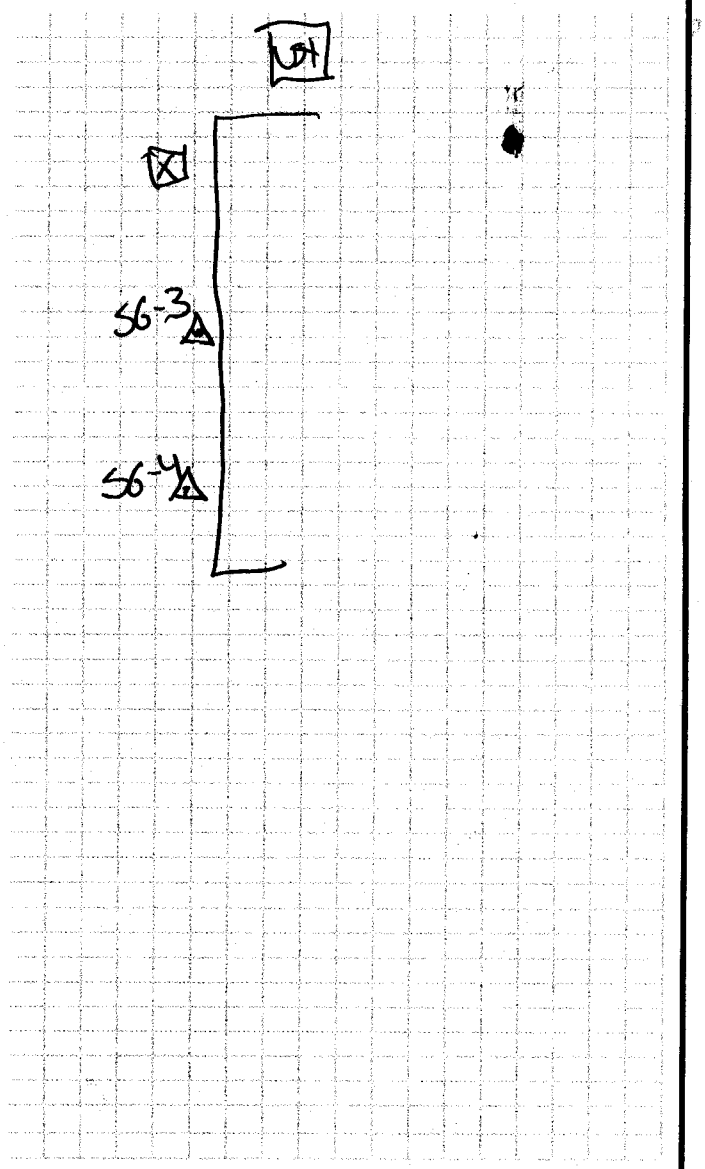
Soil Gas Sampling Data Record

PROJECT: Twin Bridge Market
LOCATION: Leeds, Maine
DATE: 11/19/10

SAMPLE ID: SG-4
SAMPLER: Seth Brown

Sampling Purpose	(Source) (Utility) (Mitigation) (Receptor) (Other)
Collection Device:	(Suma Cannister) (Tedlar Bag) (Niosh Tube)
Sample Penetration Location:	(Ashphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth: (ft bgs)	3.25
Depth to Water: (ft bgs)	5.05
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	1729
Controller I.D.:	352
Flow rate: (ml/min)	200
O_2 Ambient (%)	20.9
CO_2 Ambient (%)	0.1
Pre Sample O_2: (%)	19.9
Pre Sample CO_2: (%)	1.8
Pre Sample PID: (ppm)	0
Pre Sample CH_4: (% LEL)	0
Sampling Start Time:	1152
Initial Cannister Vacuum: (" H_2O)	-30
Sampling End Time:	1204
Final Cannister Vaccum: (" H_2O)	-5
Post Sample O_2: (%)	19.8
Post Sample CO_2: (%)	1.8
Post Sample CH_4: (% LEL)	—

Sample Location Sketch



Notes:

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Water Sampling Data Documentation

PROJECT: **Twin Bridge Market** **DATE: 11/19/2010**

LOCATION: **Leeds, Maine** **SAMPLER: Seth Brown**

Sampling Point	Water Level (Ft bgs)	Purge Start	Purge Stop	Flow Rate (ml/min)	Turbidity (NTU)
MW-1	4.75	930	955	150	16.10
MW-2	4.08	1000	1045	150	+400 Over Range
MW-3	5.10	855	925	150	8.00
MW-4	5.05	835	850	150	7.38
Sump	NA	Pump Active Prior to Sampling		NA	45.7

Notes:

APPENDIX 4

Laboratory Reports

analytics environmental laboratory LLC

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800-929-9906
www.analyticslab.com

Mr. Herb Kodis
Maine Environmental Laboratory, Inc.
PO Box 1107
Yarmouth, ME 04096-1107

Report Number: 68420

Revision: Rev. 0

Re: MAI 396-10

Enclosed are the results of the analyses on your sample(s). Samples were received on 19 November 2010 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Sample Analysis: The attached pages detail the Client Sample IDs, Lab Sample IDs, and Analyses requested

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 12/03/2010

analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
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800-929-9906
www.analyticslab.com

CLIENT: Maine Environmental Laboratory, Inc. **REPORT NUMBER: 68420** **REV: Rev. 0**

PROJECT: MAI 396-10

Lab Number	Sample Date	Station Location	Analysis	Comments
68420-1	11/16/10	B18 8'	Volatile Petroleum Hydrocarbons	
68420-2	11/19/10	MW-1	Volatile Petroleum Hydrocarbons	
68420-3	11/19/10	MW-2	Volatile Petroleum Hydrocarbons	
68420-4	11/19/10	MW-3	Volatile Petroleum Hydrocarbons	
68420-5	11/19/10	MW-4	Volatile Petroleum Hydrocarbons	
68420-6	11/19/10	Sump	Volatile Petroleum Hydrocarbons	
68420-7	11/19/10	Trip Blank (aq)	Volatile Petroleum Hydrocarbons	
68420-8	11/16/10	Trip Blank (s)	Electronic Data Deliverable	
	11/16/10	Trip Blank (s)	Volatile Petroleum Hydrocarbons	

analytics environmental laboratory LLC

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Mr. Herb Kodis
Maine Environmental Laboratory, Inc.
PO Box 1107
Yarmouth, ME 04096-1107

December 3, 2010

CLIENT SAMPLE ID

Project Name: MAI 396-10

Project Number:
Client Sample ID: B18 8'

SAMPLE DATA

Lab Sample ID: 68420-1
Matrix: Solid
Percent Solid: 78
Dilution Factor: 813
Collection Date: 11/16/10
Lab Receipt Date: 11/19/10
Analysis Date: 11/30/10

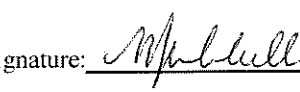
VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	40700	µg/kg	**55700**
Unadjusted C9-C12 Aliphatics[1]	N/A	40700	µg/kg	**133000**
Benzene	C5-C8	1626	µg/kg	U
Ethylbenzene	C9-C12	1626	µg/kg	**7730**
Methyl-tert-butyl ether	C5-C8	1626	µg/kg	U
Naphthalene	N/A	1626	µg/kg	**7150**
Toluene	C5-C8	1626	µg/kg	**881 J**
m- & p-Xylenes	C9-C12	3252	µg/kg	**30800**
o-Xylene	C9-C12	1626	µg/kg	**3800**
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	40700	µg/kg	**54800**
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	40700	µg/kg	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	8130	µg/kg	**221000**
Surrogate % Recovery (2,5-Dibromotoluene) PID				92
Surrogate % Recovery (2,5-Dibromotoluene) FID				89
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range and conc. of C9-C10 Aromatic Hydrocarbons.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis, Revision 1.1 May 2004

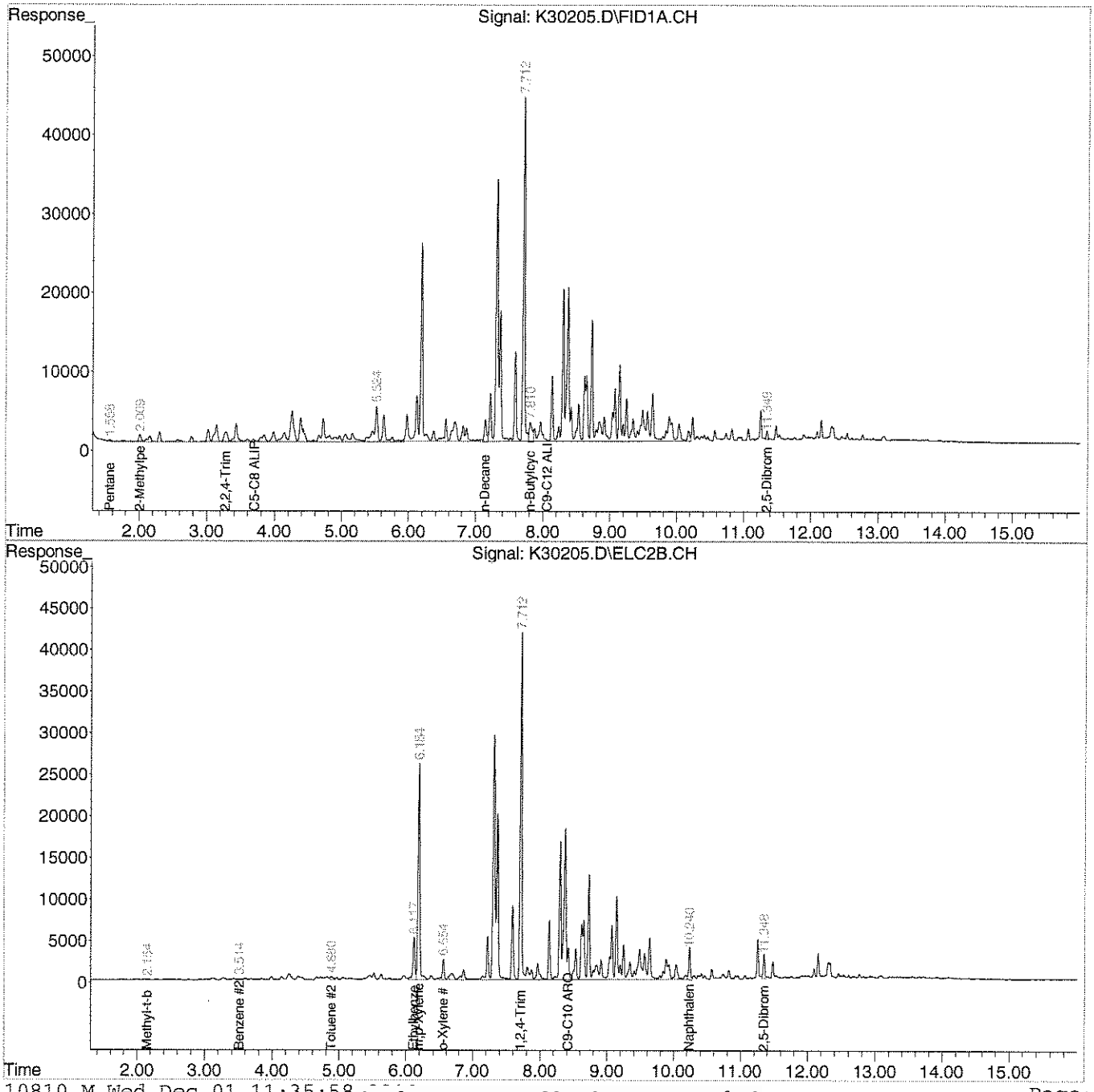
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: 

Data Path : C:\msdchem\1\DATA\113010-K\
Data File : K30205.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 30 Nov 2010 11:16 pm
Operator : JJL
Sample : 68420-1,10X
Misc : 10,9.64,SOIL
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 01 11:35:24 2010
Quant Method : C:\msdchem\1\METHODS\VPH110810.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Tue Nov 09 10:03:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



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Mr. Herb Kodis
Maine Environmental Laboratory, Inc.
PO Box 1107
Yarmouth, ME 04096-1107

December 3, 2010

CLIENT SAMPLE ID

Project Name: MAI 396-10

Project Number:

Client Sample ID: MW-1

SAMPLE DATA

Lab Sample ID: 68420-2
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 11/19/10
Lab Receipt Date: 11/19/10
Analysis Date: 11/24/10

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	50	µg/L	**28 J**
Unadjusted C9-C12 Aliphatics[1]	N/A	50	µg/L	**161**
Benzene	C5-C8	2	µg/L	**2**
Ethylbenzene	C9-C12	2	µg/L	**34**
Methyl-tert-butyl ether	C5-C8	2	µg/L	**1 J**
Naphthalene	N/A	2	µg/L	**12**
Toluene	C5-C8	2	µg/L	**2**
m- & p-Xylenes	C9-C12	4	µg/L	**77**
o-Xylene	C9-C12	2	µg/L	**18**
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	50	µg/L	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	µg/L	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	10	µg/L	**244**
Surrogate % Recovery (2,5-Dibromotoluene) PID				100
Surrogate % Recovery (2,5-Dibromotoluene) FID				101
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range and conc. of C9-C10 Aromatic Hydrocarbons.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis, Revision 1.1 May 2004.

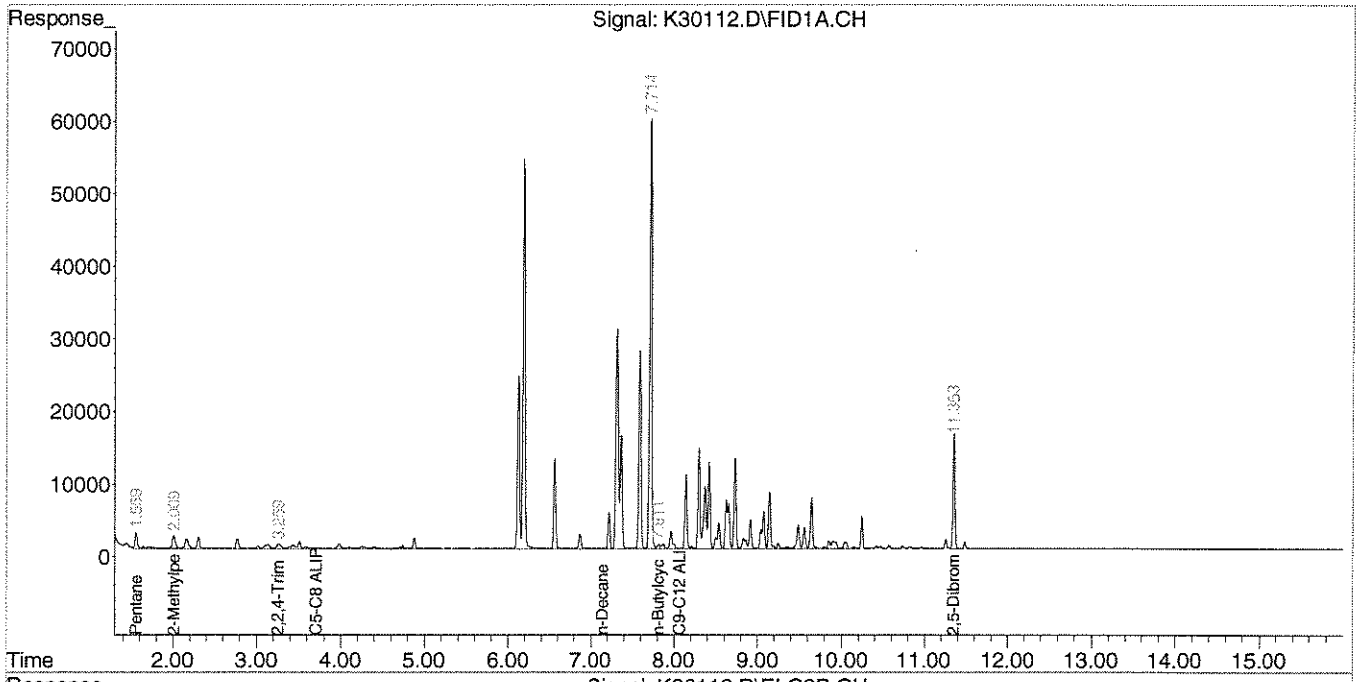
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

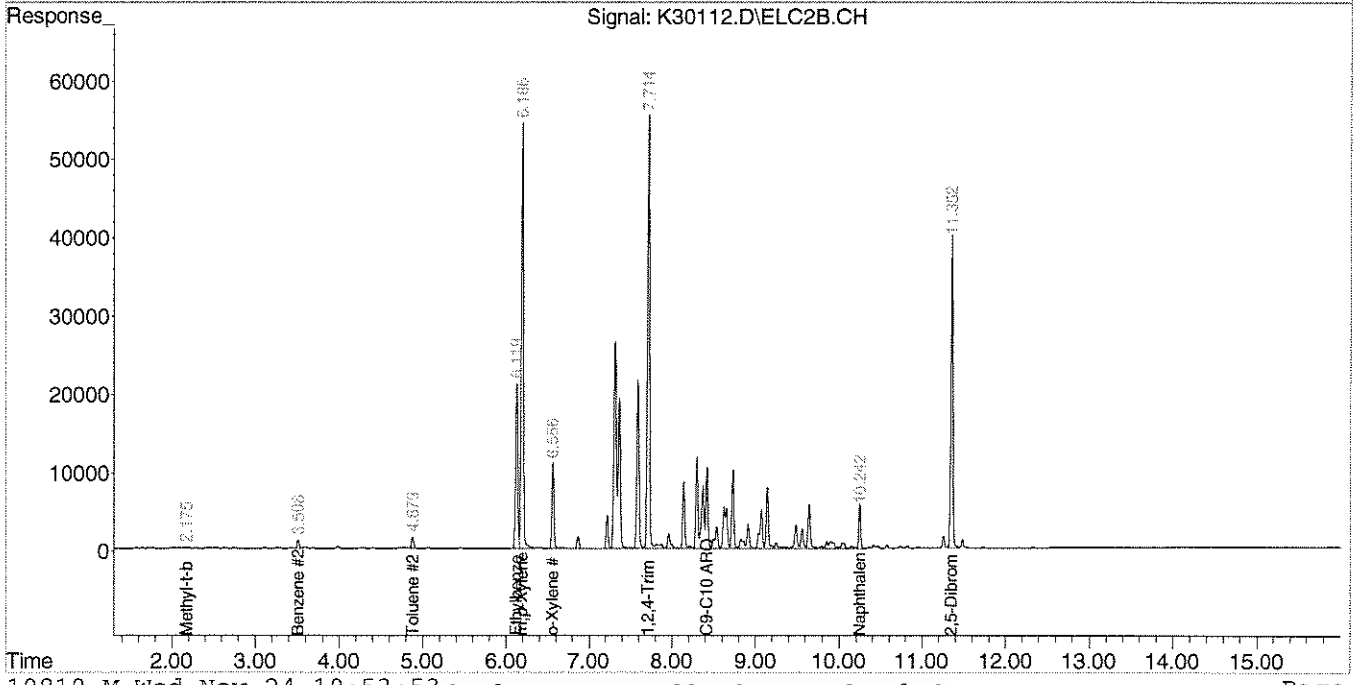
Authorized signature: _____

Data Path : C:\msdchem\1\DATA\112310-K\
Data File : K30112.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 24 Nov 2010 12:21 am
Operator : JJL
Sample : 68420-2
Misc : 5000
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 24 10:53:28 2010
Quant Method : C:\msdchem\1\METHODS\VPH110810.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Tue Nov 09 10:03:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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PO Box 1107
Yarmouth, ME 04096-1107

December 3, 2010

CLIENT SAMPLE ID

Project Name: MAI 396-10

Project Number:

Client Sample ID: MW-2

SAMPLE DATA

Lab Sample ID: 68420-3
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 11/19/10
Lab Receipt Date: 11/19/10
Analysis Date: 11/24/10

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	50	µg/L	U
Unadjusted C9-C12 Aliphatics[1]	N/A	50	µg/L	U
Benzene	C5-C8	2	µg/L	U
Ethylbenzene	C9-C12	2	µg/L	U
Methyl-tert-butyl ether	C5-C8	2	µg/L	U
Naphthalene	N/A	2	µg/L	U
Toluene	C5-C8	2	µg/L	U
m- & p-Xylenes	C9-C12	4	µg/L	U
o-Xylene	C9-C12	2	µg/L	U
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	50	µg/L	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	µg/L	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	10	µg/L	U
Surrogate % Recovery (2,5-Dibromotoluene) PID				84
Surrogate % Recovery (2,5-Dibromotoluene) FID				89
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range and conc. of C9-C10 Aromatic Hydrocarbons.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis, Revision 1.1 May 2004.

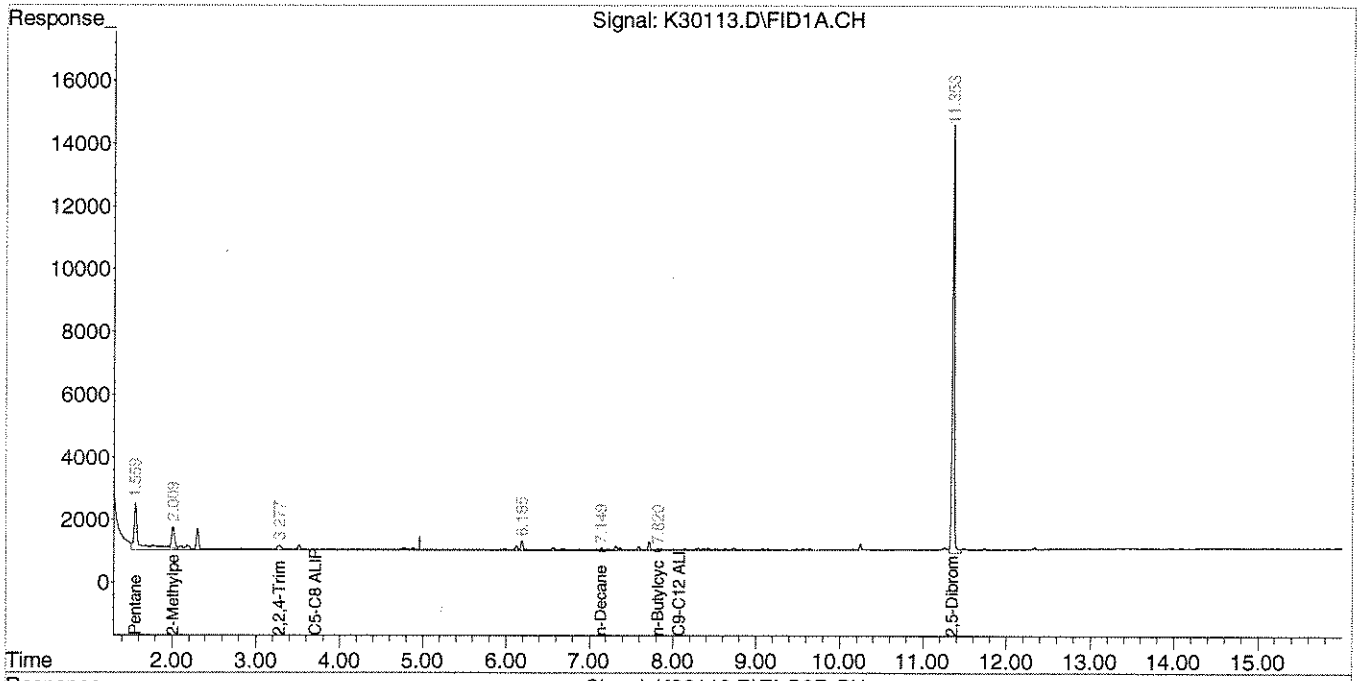
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

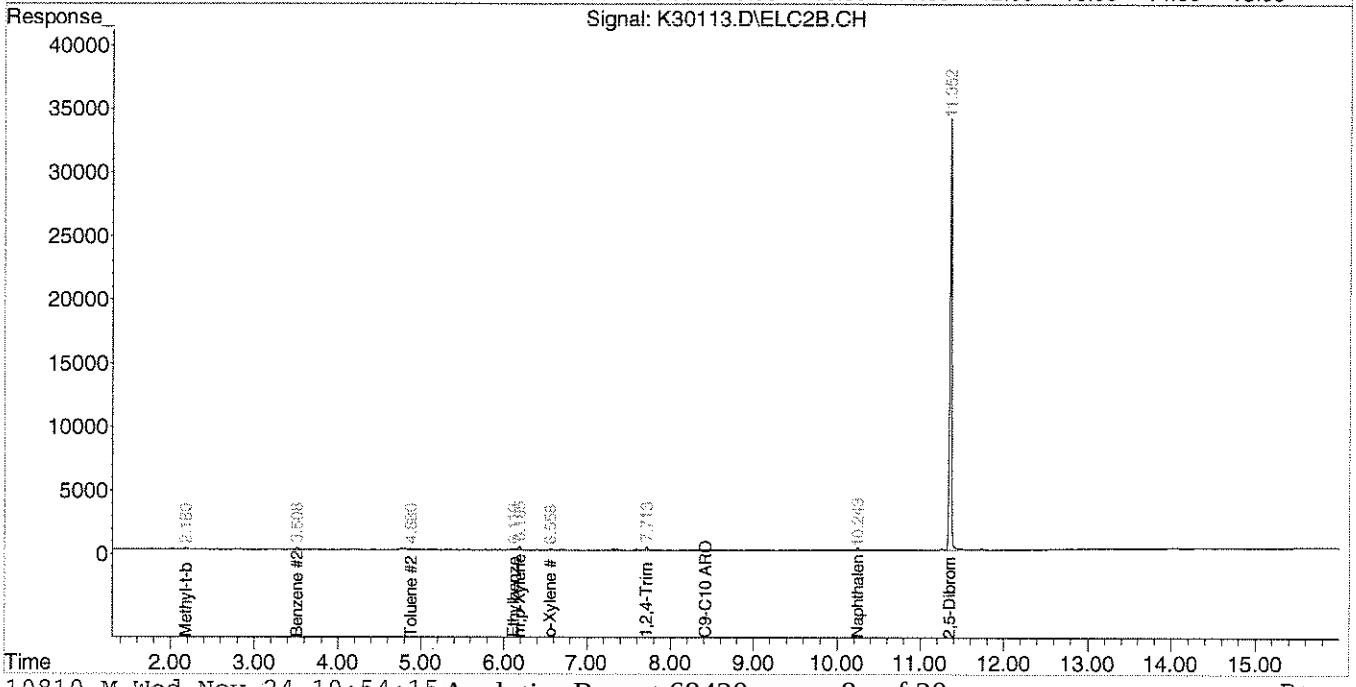
Authorized signature: 

Data Path : C:\msdchem\1\DATA\112310-K\
Data File : K30113.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 24 Nov 2010 12:46 am
Operator : JJL
Sample : 68420-3
Misc : 5000
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 24 10:53:57 2010
Quant Method : C:\msdchem\1\METHODS\VPH110810.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Tue Nov 09 10:03:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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PO Box 1107
Yarmouth, ME 04096-1107

December 3, 2010

CLIENT SAMPLE ID

Project Name: MAI 396-10

Project Number:

Client Sample ID: MW-3

SAMPLE DATA

Lab Sample ID: 68420-4
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 11/19/10
Lab Receipt Date: 11/19/10
Analysis Date: 11/24/10

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	50	µg/L	U
Unadjusted C9-C12 Aliphatics[1]	N/A	50	µg/L	U
Benzene	C5-C8	2	µg/L	U
Ethylbenzene	C9-C12	2	µg/L	U
Methyl-tert-butyl ether	C5-C8	2	µg/L	U
Naphthalene	N/A	2	µg/L	U
Toluene	C5-C8	2	µg/L	U
m- & p-Xylenes	C9-C12	4	µg/L	U
o-Xylene	C9-C12	2	µg/L	U
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	50	µg/L	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	µg/L	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	10	µg/L	U
Surrogate % Recovery (2,5-Dibromotoluene) PID				88
Surrogate % Recovery (2,5-Dibromotoluene) FID				90
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range and conc. of C9-C10 Aromatic Hydrocarbons.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis, Revision 1.1 May 2004.

COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

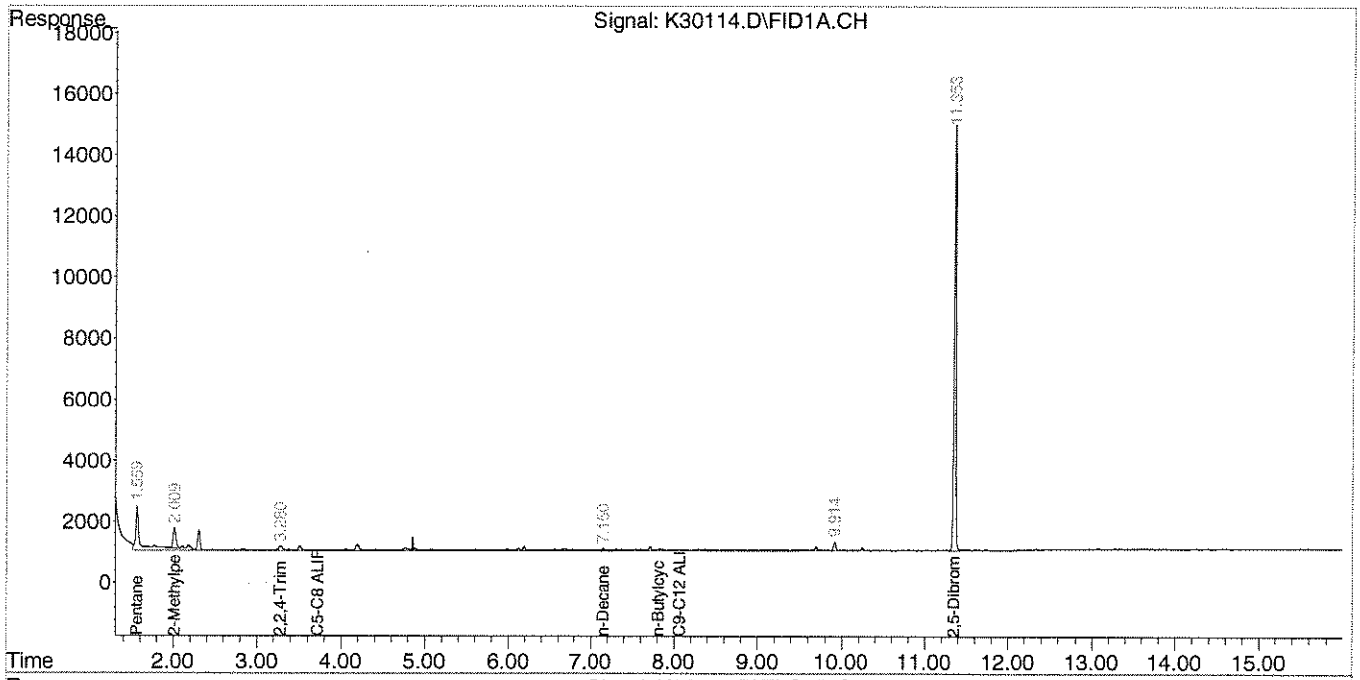
Authorized signature:

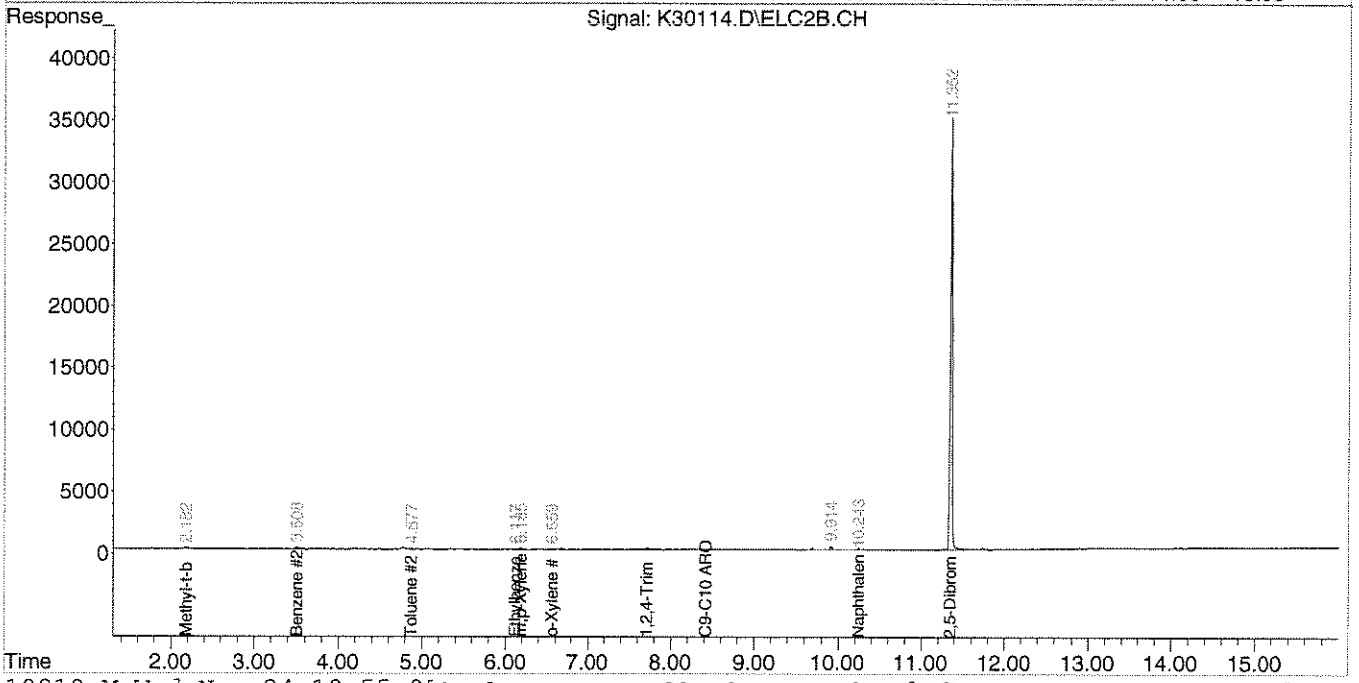
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\112310-K\
Data File : K30114.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 24 Nov 2010 1:11 am
Operator : JJL
Sample : 68420-4
Misc : 5000
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 24 10:54:42 2010
Quant Method : C:\msdchem\1\METHODS\VPH110810.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Tue Nov 09 10:03:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. Herb Kodis
Maine Environmental Laboratory, Inc.
PO Box 1107
Yarmouth, ME 04096-1107

December 3, 2010

CLIENT SAMPLE ID

Project Name: MAI 396-10

Project Number:

Client Sample ID: MW-4

SAMPLE DATA

Lab Sample ID: 68420-5
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 11/19/10
Lab Receipt Date: 11/19/10
Analysis Date: 11/24/10

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	50	µg/L	U
Unadjusted C9-C12 Aliphatics[1]	N/A	50	µg/L	U
Benzene	C5-C8	2	µg/L	U
Ethylbenzene	C9-C12	2	µg/L	U
Methyl-tert-butyl ether	C5-C8	2	µg/L	U
Naphthalene	N/A	2	µg/L	U
Toluene	C5-C8	2	µg/L	U
m- & p-Xylenes	C9-C12	4	µg/L	U
o-Xylene	C9-C12	2	µg/L	U
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	50	µg/L	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	µg/L	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	10	µg/L	U
Surrogate % Recovery (2,5-Dibromotoluene) PID				92
Surrogate % Recovery (2,5-Dibromotoluene) FID				98
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range and conc. of C9-C10 Aromatic Hydrocarbons.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis, Revision 1.1 May 2004.

COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

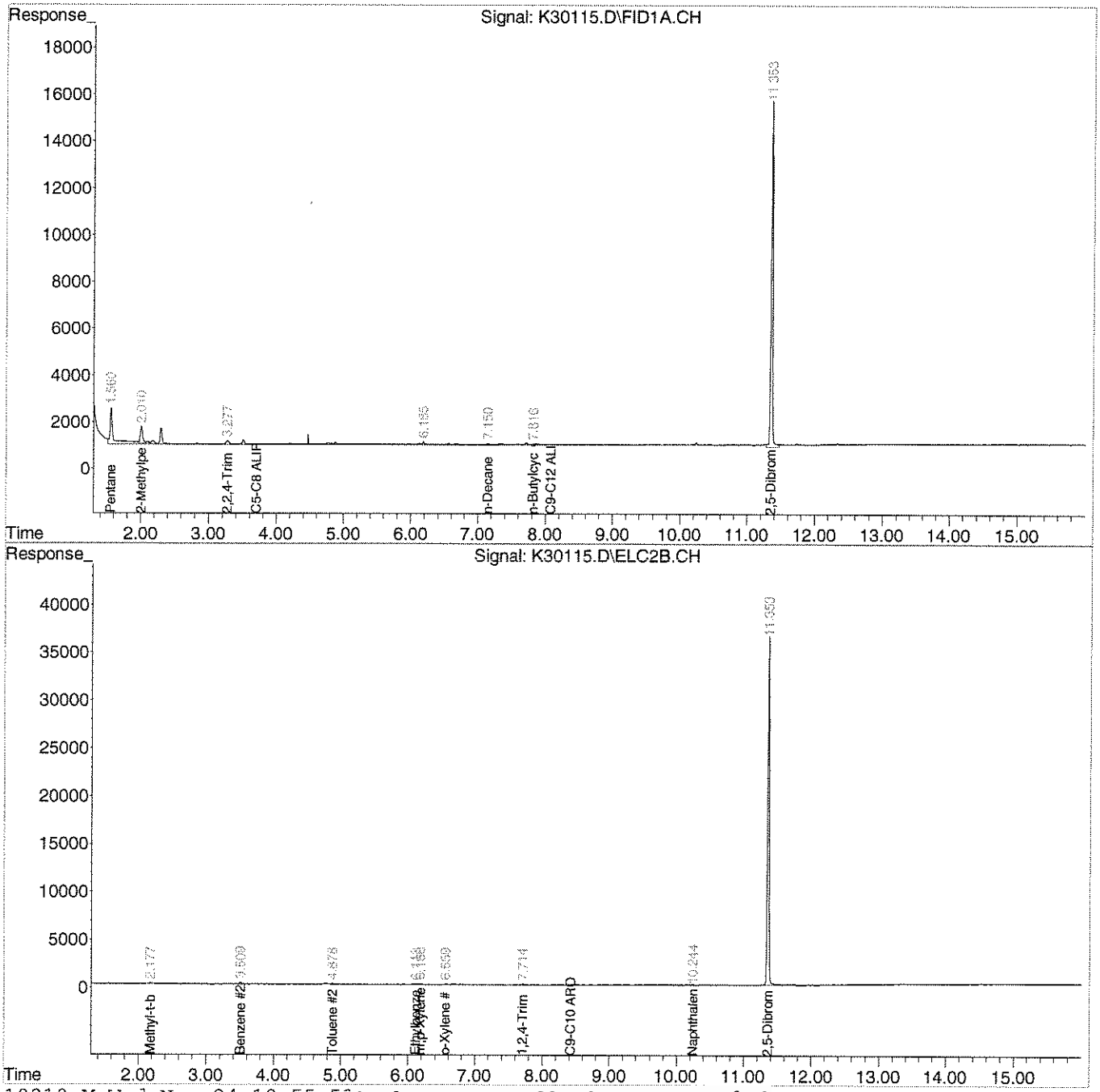
Authorized signature: Mitchell

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\112310-K\
Data File : K30115.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 24 Nov 2010 1:36 am
Operator : JJL
Sample : 68420-5
Misc : 5000
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 24 10:55:34 2010
Quant Method : C:\msdchem\1\METHODS\VPH110810.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Tue Nov 09 10:03:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



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PO Box 1107
Yarmouth, ME 04096-1107

December 3, 2010

CLIENT SAMPLE ID

Project Name: MAI 396-10

Project Number:

Client Sample ID: Sump

SAMPLE DATA

Lab Sample ID: 68420-6
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 11/19/10
Lab Receipt Date: 11/19/10
Analysis Date: 11/24/10

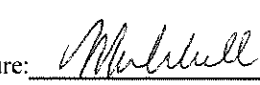
VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	50	µg/L	U
Unadjusted C9-C12 Aliphatics[1]	N/A	50	µg/L	U
Benzene	C5-C8	2	µg/L	U
Ethylbenzene	C9-C12	2	µg/L	U
Methyl-tert-butyl ether	C5-C8	2	µg/L	1 J
Naphthalene	N/A	2	µg/L	U
Toluene	C5-C8	2	µg/L	U
m- & p-Xylenes	C9-C12	4	µg/L	U
o-Xylene	C9-C12	2	µg/L	U
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	50	µg/L	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	µg/L	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	10	µg/L	U
Surrogate % Recovery (2,5-Dibromotoluene) PID				89
Surrogate % Recovery (2,5-Dibromotoluene) FID				91
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range and conc. of C9-C10 Aromatic Hydrocarbons.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis, Revision 1.1 May 2004.

COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

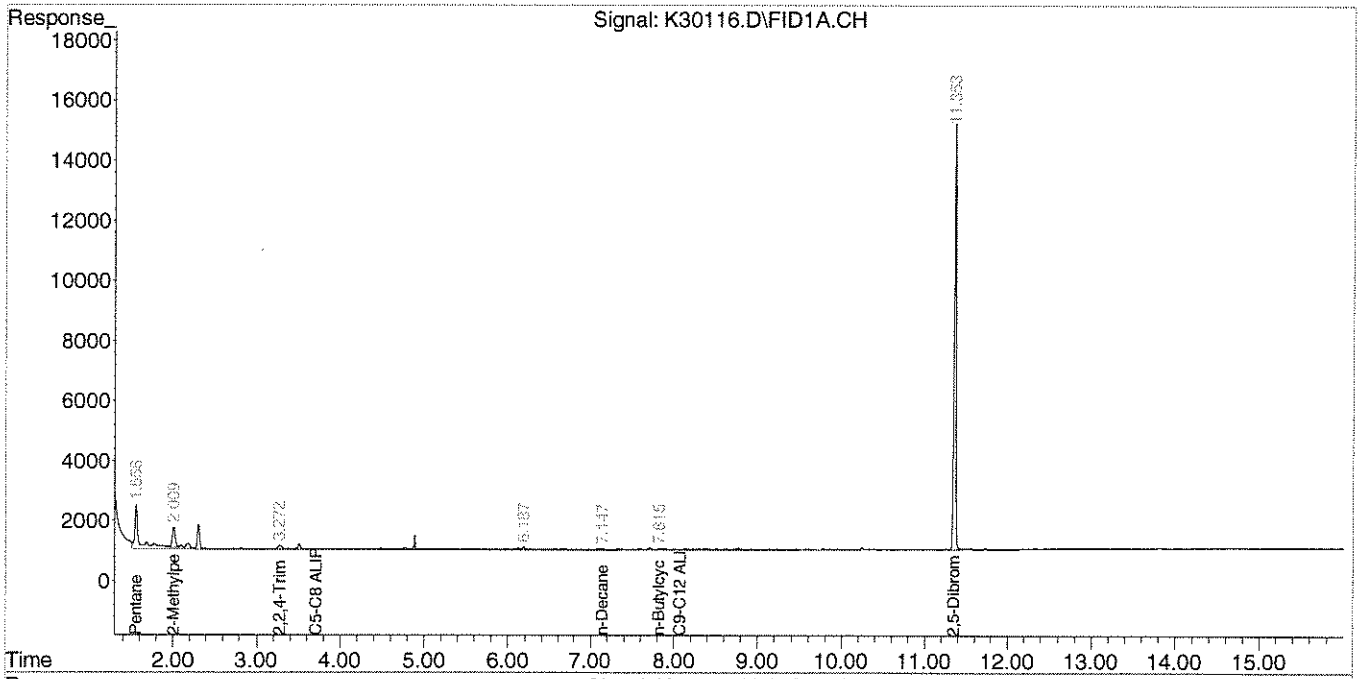
Authorized signature: 

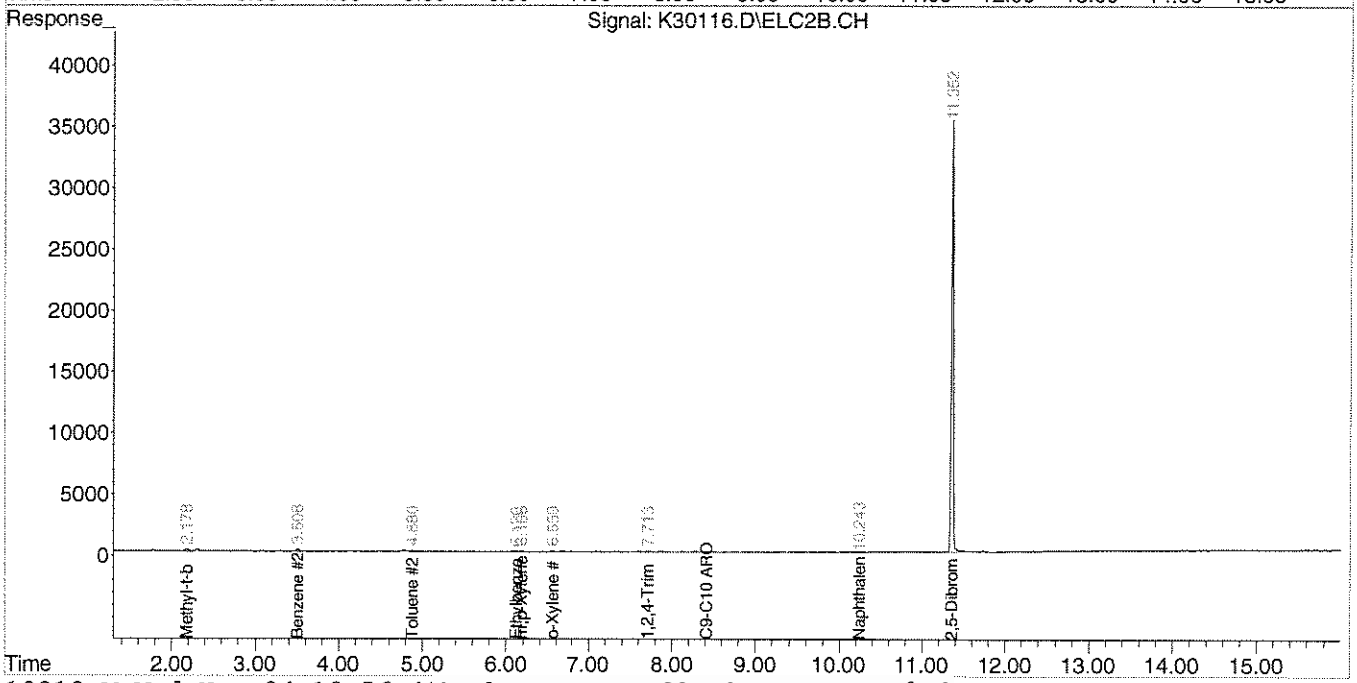
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\112310-K\
Data File : K30116.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 24 Nov 2010 2:00 am
Operator : JJL
Sample : 68420-6
Misc : 5000
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 24 10:55:57 2010
Quant Method : C:\msdchem\1\METHODS\VPH110810.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Tue Nov 09 10:03:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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PO Box 1107
Yarmouth, ME 04096-1107

December 3, 2010

CLIENT SAMPLE ID

Project Name: MAI 396-10

Project Number:

Client Sample ID: Trip Blank (aq)

SAMPLE DATA

Lab Sample ID:	68420-7
Matrix:	Aqueous
Percent Solid:	N/A
Dilution Factor:	1
Collection Date:	11/19/10
Lab Receipt Date:	11/19/10
Analysis Date:	11/29/10

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	50	µg/L	U
Unadjusted C9-C12 Aliphatics[1]	N/A	50	µg/L	U
Benzene	C5-C8	2	µg/L	U
Ethylbenzene	C9-C12	2	µg/L	U
Methyl-tert-butyl ether	C5-C8	2	µg/L	U
Naphthalene	N/A	2	µg/L	U
Toluene	C5-C8	2	µg/L	U
m- & p-Xylenes	C9-C12	4	µg/L	U
o-Xylene	C9-C12	2	µg/L	U
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	50	µg/L	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	µg/L	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	10	µg/L	U
Surrogate % Recovery (2,5-Dibromotoluene) PID				81
Surrogate % Recovery (2,5-Dibromotoluene) FID				84
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range and conc. of C9-C10 Aromatic Hydrocarbons.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis, Revision 1.1 May 2004.

COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

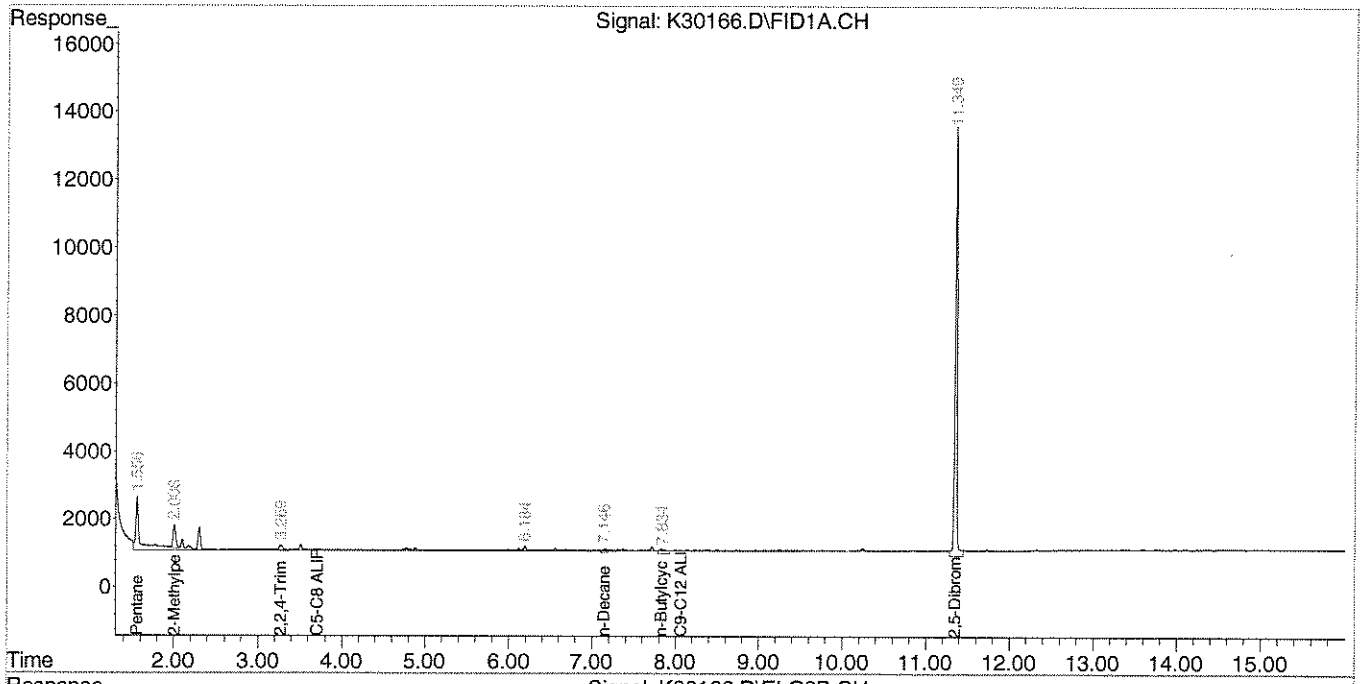
Authorized signature:

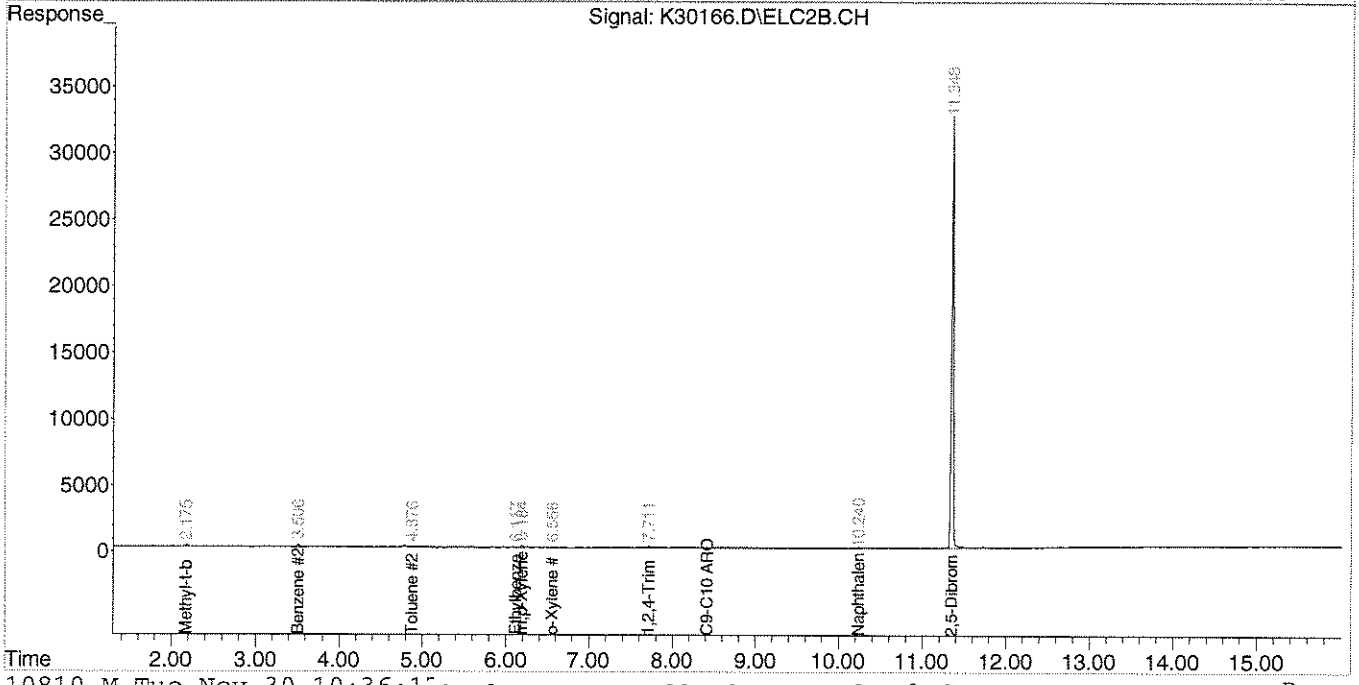
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\112910-K\
Data File : K30166.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 29 Nov 2010 9:46 pm
Operator : JJL
Sample : 68420-7
Misc : 5000
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 30 08:53:38 2010
Quant Method : C:\msdchem\1\METHODS\VPH110810.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Tue Nov 09 10:03:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Maine Environmental Laboratory, Inc.
PO Box 1107
Yarmouth, ME 04096-1107

December 3, 2010

CLIENT SAMPLE ID

Project Name: MAI 396-10

Project Number:

Client Sample ID: Trip Blank (s)

SAMPLE DATA

Lab Sample ID: 68420-8
Matrix: Solid
Percent Solid: 100
Dilution Factor: 50
Collection Date: 11/16/10
Lab Receipt Date: 11/19/10
Analysis Date: 11/24/10

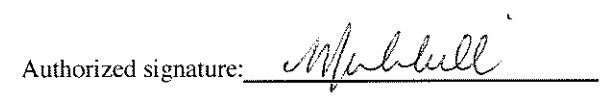
VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics[1]	N/A	2500	µg/kg	U
Unadjusted C9-C12 Aliphatics[1]	N/A	2500	µg/kg	U
Benzene	C5-C8	100	µg/kg	U
Ethylbenzene	C9-C12	100	µg/kg	U
Methyl-tert-butyl ether	C5-C8	100	µg/kg	U
Naphthalene	N/A	100	µg/kg	U
Toluene	C5-C8	100	µg/kg	U
m- & p-Xylenes	C9-C12	200	µg/kg	U
o-Xylene	C9-C12	100	µg/kg	U
C5-C8 Aliphatics Hydrocarbons[1,2]	N/A	2500	µg/kg	U
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	2500	µg/kg	U
C9-C10 Aromatic Hydrocarbons[1]	N/A	500	µg/kg	U
Surrogate % Recovery (2,5-Dibromotoluene) PID				82
Surrogate % Recovery (2,5-Dibromotoluene) FID				82
Surrogate Acceptance Range				70-130%

[1]Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
[2]C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
[3]C9-C12 Aliphatic Hydrocarbons exclude conc. of Target Analytes eluting in that range and conc. of C9-C10 Aromatic Hydrocarbons.
RL = Report Limit
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: MADEP Volatile Petroleum Hydrocarbons (VPH), ORS Division of Environmental Analysis, Revision 1.1 May 2004

COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

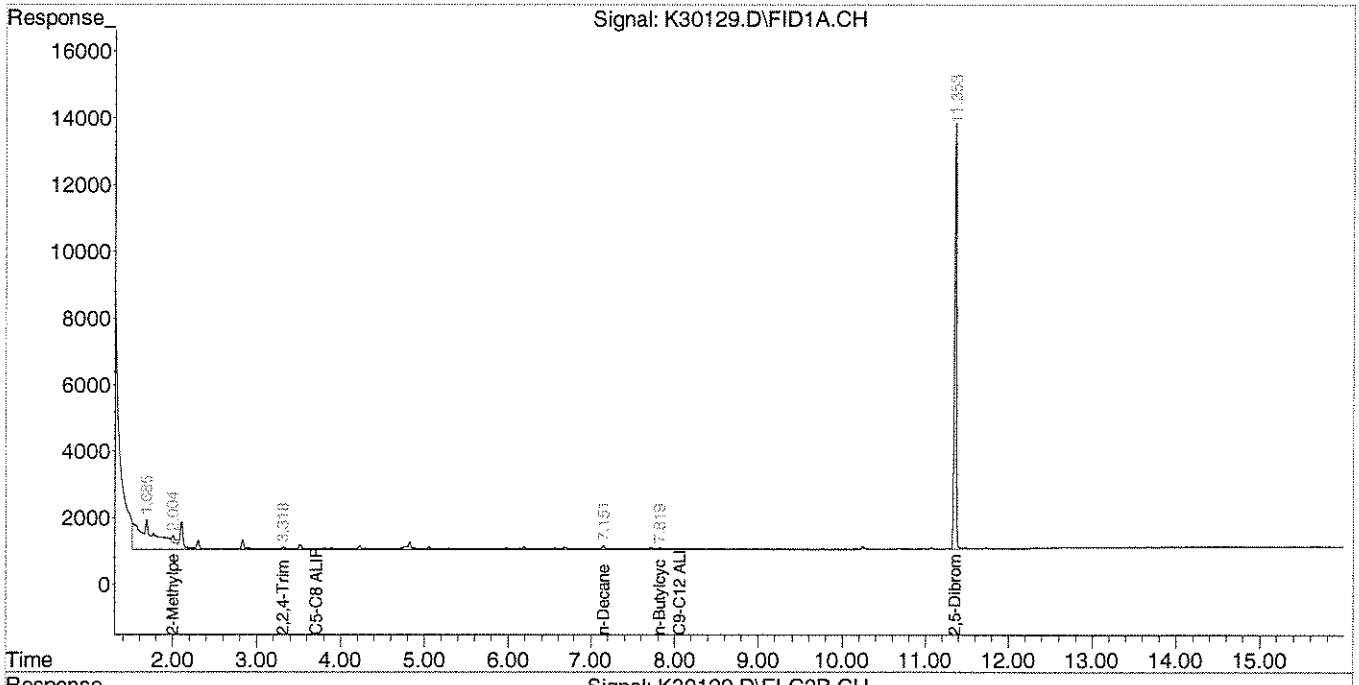
Authorized signature: 

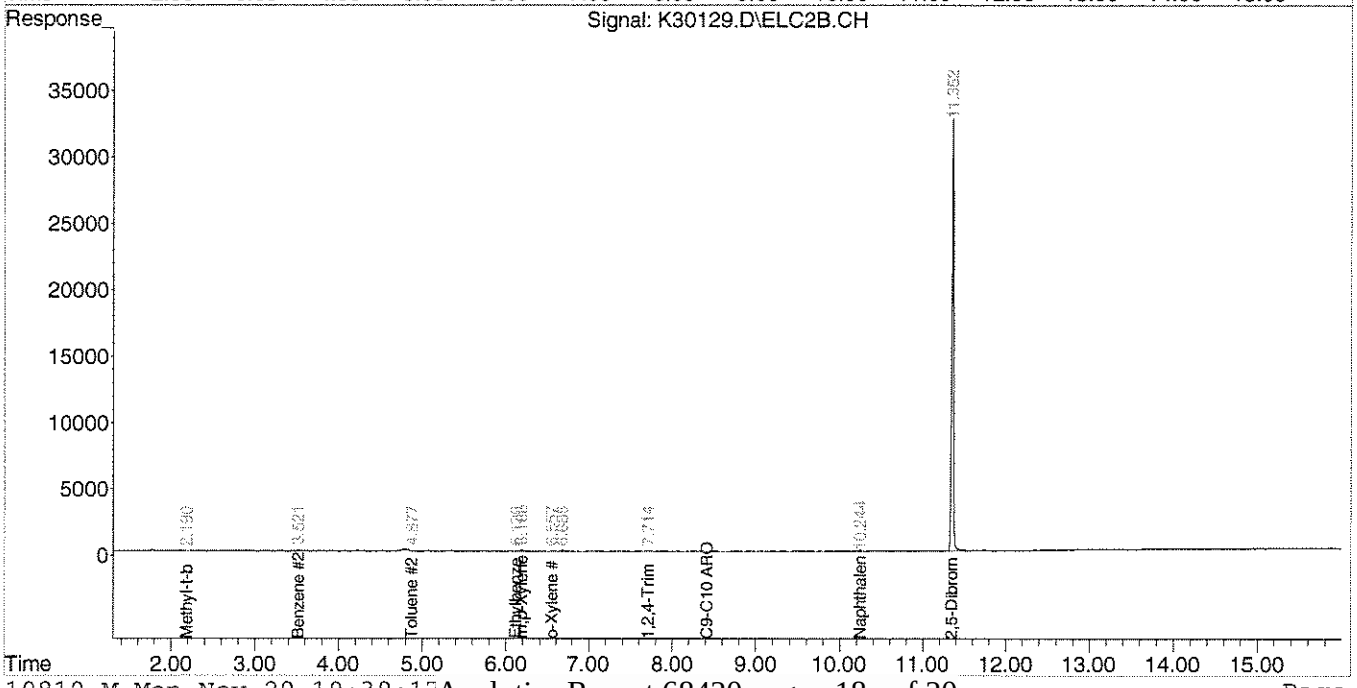
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\112410-K\
Data File : K30129.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 24 Nov 2010 1:57 pm
Operator : JJL
Sample : 68420-8
Misc : 100,10.00,SOIL
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 29 10:35:25 2010
Quant Method : C:\msdchem\1\METHODS\VPH110810.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Tue Nov 09 10:03:10 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





AEL

MAINE ENVIRONMENTAL LABORATORY- Chain of Custody

One Main Street Yarmouth, Maine 04096-6716 (207) 846-6569 fax: (207) 846-9066
e-mail: melab@maine.rr.com

PROJECT MANAGER: H. Kodis | TELEPHONE | FAX # / E-MAIL

COMPANY | PURCHASE ORDER # / BILL TO

ADDRESS

PROJECT NAME: MAI396-10 | SAMPLER NAME

LABORATORY REPORT #

Delivered by

TURNAROUND REQUEST
☒ Standard 12/3
☐ Priority (SURCHARGE)

Quote # MEL3120101-35

SAMPLE IDENTIFICATION	# CONTAINERS	TYPE OF CONTAINERS	FIELD FILTRATION YES	FIELD FILTRATION NO	SAMPLE MATRIX	GRAB	COMP.	METHOD PRESERVED	SAMPLING DATE	SAMPLING TIME	VPH	LABORATORY IDENTIFICATION/ SUBCONTRACTOR
3188'	2	G Vial		X	Soil	X		①MeOH/≤6c ①≤6c	11/16/10	1000	X	68420-1
MW-1	3			X	GW	X		HCL/≤6c	11/19/10	1000	X	-2
MW-2				X		X				1030	X	-3
MW-3				X		X				930	X	-4
MW-4				X		X				900	X	-5
Sump				X		X				1200	X	-6
Trip Blank	1			X	H2O	X			—	—	X	-7
Trip Blank	1			X	MeOH			MeOH/≤6c	—	—	X	-8

Analytics Report 68420 page 19 of 20

11/22/10

Received within hold time ☑ yes ☐ no ☐ N/A
Received in good condition ☑ yes ☐ no ☐ N/A
Temp. Blank °C 2.5° /Frozen ice packs ☐ N/A
Samples received preserved ☑ yes ☐ no ☐ N/A
Custody seal present ☐ yes ☑ no

COMMENTS
ME DEP EDD (Twin Bridges, Leeds)
Cooler 86

		DATE	TIME
RELINQUISHED BY SAMPLER:			
RELINQUISHED BY:	K Hoppe	11/19/10	3:15
RELINQUISHED BY:			
RECEIVED BY:		11/19/10	
RECEIVED BY:			
RECEIVED BY LABORATORY:		11/19/10	

COC-04 E 11/19

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 68420 | COOLER NUMBER: 86

CLIENT: MEL | NUMBER OF COOLERS: 1

PROJECT: MAE396-10 | DATE RECEIVED: 11/19/10

A: PRELIMINARY EXAMINATION: | DATE COOLER OPENED: 11/19/10

1. Cooler received by(initials): VM | Date Received: 11/19/10

2. Circle one: (Hand delivered) Shipped (If so, skip 3)

3. Did cooler come with a shipping slip? Y (N)

3a. Enter carrier name and airbill number here: _____

4. Were custody seals on the outside of cooler? Y (N)
How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y N/A

6. COC#: _____

7. Were Custody papers filled out properly (ink,signed, etc)?	(Y)	N
8. Were custody papers sealed in a plastic bag?	(Y)	N
9. Did you sign the COC in the appropriate place?	(Y)	N
10. Was the project identifiable from the COC papers?	(Y)	N

11. Was enough ice used to chill the cooler? (Y) N Temp. of cooler: 2-5°

B. Log-In: Date samples were logged in: 11/22/10 By: VM

12. Type of packing in cooler(bubble wrap, popcorn)	(Y)	N
13. Were all bottles sealed in separate plastic bags?	(Y)	N
14. Did all bottles arrive unbroken and were labels in good condition?	(Y)	N
15. Were all bottle labels complete(ID,Date,time,etc.)	(Y)	N
16. Did all bottle labels agree with custody papers?	(Y)	N
17. Were the correct containers used for the tests indicated:	(Y)	N
18. Were samples received at the correct pH?	Y	N/A
19. Was sufficient amount of sample sent for the tests indicated?	(Y)	N
20. Were bubbles absent in VOA samples?	(Y)	N

If NO, List Sample ID's and Lab #s: _____

21. Laboratory labeling verified by (initials): JAB Date: 11/22/10

ANALYTICAL REPORT

Lab Number:	L1018872
Client:	Maine DEP-Div. of Technical Services Division of Technical Services 312 Canco Road Portland, ME 04103
ATTN:	Peter Eremita
Phone:	(207) 592-0592
Project Name:	2 BRIDGES MARKET
Project Number:	1048
Report Date:	12/13/10

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: 2 BRIDGES MARKET
Project Number: 1048

Lab Number: L1018872
Report Date: 12/13/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1018872-01	SG-1	LEEDS	11/19/10 11:20
L1018872-02	SG-2	LEEDS	11/19/10 10:55
L1018872-03	SG-4	LEEDS	11/19/10 11:50

Project Name: 2 BRIDGES MARKET **Lab Number:** L1018872

Project Number: 1048 **Report Date:** 12/13/10

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).	YES
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	YES
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: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1018872
Report Date: 12/13/10

Case Narrative

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

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

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

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

Report Submission

This report replaces the report issued on December 10, 2010. The report has been amended to include the batch quality control for the APH analysis.

MCP Related Narratives

Canisters were released from the laboratory on November 12, 2010.

The canister certification data is provided as an addendum.

Volatile Organics in Air

The WG445963-3 LCS recovery for Vinyl chloride (131%) is outside the 70%-130% acceptance limit. All associated samples were non-detect for Vinyl Chloride.

Project Name: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1018872
Report Date: 12/13/10

Case Narrative (continued)

Fixed Gas

L1018872-01, -02, and -03: Prior to sample analysis, the canisters were pressurized with UHP Hydrogen in order to facilitate the transfer of sample to the Gas Chromatograph. The addition of Hydrogen resulted in a dilution of the sample. The reporting limits have been elevated accordingly.

Petroleum Hydrocarbons in Air

All MCP required questions were answered with affirmative responses; therefore, there are no relevant data issues to discuss.

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: Kathleen O'Brien

Title: Technical Director/Representative Date: 12/13/10

AIR

Project Name: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1018872
Report Date: 12/13/10

SAMPLE RESULTS

Lab ID: L1018872-01
Client ID: SG-1
Sample Location: LEEDS
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/02/10 20:17
Analyst: RY

Date Collected: 11/19/10 11:20
Date Received: 11/24/10
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	93		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	95		60-140

Project Name: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1018872
Report Date: 12/13/10

SAMPLE RESULTS

Lab ID: L1018872-02
Client ID: SG-2
Sample Location: LEEDS
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/02/10 21:30
Analyst: RY

Date Collected: 11/19/10 10:55
Date Received: 11/24/10
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.426	0.200	--	2.89	1.36	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	92		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	91		60-140

Project Name: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1018872
Report Date: 12/13/10

SAMPLE RESULTS

Lab ID: L1018872-03
Client ID: SG-4
Sample Location: LEEDS
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/02/10 22:06
Analyst: RY

Date Collected: 11/19/10 11:50
Date Received: 11/24/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	83		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	95		60-140

Project Name: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1018872
Report Date: 12/13/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/02/10 17:26

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01-03 Batch: WG445963-4								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: 2 BRIDGES MARKET

Project Number: 1048

Lab Number: L1018872

Report Date: 12/13/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-03 Batch: WG445963-3								
Vinyl chloride	**131**	Q	-		70-130	-		
1,1-Dichloroethene	112		-		70-130	-		
trans-1,2-Dichloroethene	105		-		70-130	-		
1,1-Dichloroethane	118		-		70-130	-		
cis-1,2-Dichloroethene	112		-		70-130	-		
1,2-Dichloroethane	101		-		70-130	-		
1,1,1-Trichloroethane	92		-		70-130	-		
Trichloroethene	94		-		70-130	-		
1,2-Dibromoethane	117		-		70-130	-		
Tetrachloroethene	112		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: 2 BRIDGES MARKET
Project Number: 1048

Lab Number: L1018872
Report Date: 12/13/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG445963-5 QC Sample: L1018872-01 Client ID: SG-1						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	ND	ND	ppbV	NC		25

Project Name: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1018872
Report Date: 12/13/10

SAMPLE RESULTS

Lab ID:	L1018872-01	D	Date Collected:	11/19/10 11:20
Client ID:	SG-1		Date Received:	11/24/10
Sample Location:	LEEDS		Field Prep:	Not Specified
Matrix:	Soil_Vapor		Extraction Method:	
Analytical Method:	51,3C			
Analytical Date:	12/09/10 14:50			
Analyst:	RY			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	17.3		%	2.19	--	2.192
Carbon Dioxide	1.22		%	0.219	--	2.192
Methane	ND		%	0.219	--	2.192

Project Name: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1018872
Report Date: 12/13/10

SAMPLE RESULTS

Lab ID:	L1018872-02	D	Date Collected:	11/19/10 10:55
Client ID:	SG-2		Date Received:	11/24/10
Sample Location:	LEEDS		Field Prep:	Not Specified
Matrix:	Soil_Vapor		Extraction Method:	
Analytical Method:	51,3C			
Analytical Date:	12/09/10 15:28			
Analyst:	RY			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	18.1		%	1.64	--	1.644
Carbon Dioxide	1.25		%	0.164	--	1.644
Methane	ND		%	0.164	--	1.644

Project Name: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1018872
Report Date: 12/13/10

SAMPLE RESULTS

Lab ID:	L1018872-03	D	Date Collected:	11/19/10 11:50
Client ID:	SG-4		Date Received:	11/24/10
Sample Location:	LEEDS		Field Prep:	Not Specified
Matrix:	Soil_Vapor		Extraction Method:	
Analytical Method:	51,3C			
Analytical Date:	12/09/10 16:07			
Analyst:	RY			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	17.9		%	1.67	--	1.67
Carbon Dioxide	1.61		%	0.167	--	1.67
Methane	ND		%	0.167	--	1.67

Project Name: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1018872
Report Date: 12/13/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 51,3C
Analytical Date: 12/09/10 14:17
Analyst: RY

Parameter	Result	Qualifier	Units	RL	MDL
Fixed Gases by GC - Mansfield Lab for sample(s): 01-03 Batch: WG447014-2					
Oxygen	ND		%	1.00	--
Carbon Dioxide	ND		%	0.100	--
Methane	ND		%	0.100	--

Lab Control Sample Analysis

Batch Quality Control

Project Name: 2 BRIDGES MARKET

Project Number: 1048

Lab Number: L1018872

Report Date: 12/13/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-03 Batch: WG447014-1								
Oxygen	92		-		80-120	-		
Carbon Dioxide	105		-		80-120	-		
Methane	106		-		80-120	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: 2 BRIDGES MARKET
Project Number: 1048

Lab Number: L1018872
Report Date: 12/13/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG447014-3 QC Sample: L1018872-01 Client ID: SG-1						
Oxygen	17.3	18.2	%	5		5
Carbon Dioxide	1.22	1.22	%	0		5
Methane	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG447014-4 QC Sample: L1018872-02 Client ID: SG-2						
Oxygen	18.1	18.0	%	1		5
Carbon Dioxide	1.25	1.25	%	0		5
Methane	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG447014-5 QC Sample: L1018872-03 Client ID: SG-4						
Oxygen	17.9	17.9	%	0		5
Carbon Dioxide	1.61	1.61	%	0		5
Methane	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG447014-6 QC Sample: L1019019-01 Client ID: DUP Sample						
Oxygen	18.0	18.0	%	0		5
Carbon Dioxide	1.16	1.16	%	0		5
Methane	ND	ND	%	NC		5

Project Name: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1018872
Report Date: 12/13/10

SAMPLE RESULTS

Lab ID:	L1018872-01	Date Collected:	11/19/10 11:20
Client ID:	SG-1	Date Received:	11/24/10
Sample Location:	LEEDS	Field Prep:	Not Specified
Matrix:	Soil_Vapor		
Analytical Method:	96,APH		
Analytical Date:	12/02/10 20:17		
Analyst:	RY		

Quality Control Information

Sample Type:	200 ml/min Composite
Sample Container Type:	Canister - 2.7 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Petroleum Hydrocarbons in Air - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	220		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	18		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	4.1		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	88		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		50-200
Bromochloromethane	90		50-200
Chlorobenzene-d5	97		50-200

Project Name: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1018872
Report Date: 12/13/10

SAMPLE RESULTS

Lab ID:	L1018872-02	Date Collected:	11/19/10 10:55
Client ID:	SG-2	Date Received:	11/24/10
Sample Location:	LEEDS	Field Prep:	Not Specified
Matrix:	Soil_Vapor		
Analytical Method:	96,APH		
Analytical Date:	12/02/10 21:30		
Analyst:	RY		

Quality Control Information

Sample Type:	200 ml/min Composite
Sample Container Type:	Canister - 2.7 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Petroleum Hydrocarbons in Air - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	24		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	58		ug/m3	12	--	1
Ethylbenzene	5.9		ug/m3	2.0	--	1
p/m-Xylene	18		ug/m3	4.0	--	1
o-Xylene	8.5		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	52		ug/m3	14	--	1
C9-C10 Aromatics Total	80		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		50-200
Bromochloromethane	90		50-200
Chlorobenzene-d5	93		50-200

Project Name: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1018872
Report Date: 12/13/10

SAMPLE RESULTS

Lab ID:	L1018872-03	Date Collected:	11/19/10 11:50
Client ID:	SG-4	Date Received:	11/24/10
Sample Location:	LEEDS	Field Prep:	Not Specified
Matrix:	Soil_Vapor		
Analytical Method:	96,APH		
Analytical Date:	12/02/10 22:06		
Analyst:	RY		

Quality Control Information

Sample Type:	200 ml/min Composite
Sample Container Type:	Canister - 2.7 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Petroleum Hydrocarbons in Air - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	22		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	40		ug/m3	14	--	1
C9-C10 Aromatics Total	19		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	80		50-200
Bromochloromethane	85		50-200
Chlorobenzene-d5	97		50-200

Project Name: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1018872
Report Date: 12/13/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 96,APH
Analytical Date: 12/02/10 17:26
Analyst: RY

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbons in Air - Mansfield Lab for sample(s): 01-03 Batch: WG445964-4					
1,3-Butadiene	ND		ug/m3	2.0	--
Methyl tert butyl ether	ND		ug/m3	2.0	--
Benzene	ND		ug/m3	2.0	--
Toluene	ND		ug/m3	2.0	--
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--
Ethylbenzene	ND		ug/m3	2.0	--
p/m-Xylene	ND		ug/m3	4.0	--
o-Xylene	ND		ug/m3	2.0	--
Naphthalene	ND		ug/m3	2.0	--
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--
C9-C10 Aromatics Total	ND		ug/m3	10	--

Lab Control Sample Analysis

Batch Quality Control

Project Name: 2 BRIDGES MARKET

Project Number: 1048

Lab Number: L1018872

Report Date: 12/13/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG445964-3								
1,3-Butadiene	75		-		70-130	-		
Methyl tert butyl ether	77		-		70-130	-		
Benzene	92		-		70-130	-		
Toluene	87		-		70-130	-		
C5-C8 Aliphatics, Adjusted	71		-		70-130	-		
Ethylbenzene	105		-		70-130	-		
p/m-Xylene	103		-		70-130	-		
o-Xylene	105		-		70-130	-		
Naphthalene	98		-		50-150	-		
C9-C12 Aliphatics, Adjusted	96		-		70-130	-		
C9-C10 Aromatics Total	81		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: 2 BRIDGES MARKET
Project Number: 1048

Lab Number: L1018872
Report Date: 12/13/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG445964-5 QC Sample: L1018872-01 Client ID: SG-1						
1,3-Butadiene	ND	ND	ug/m3	NC		30
Methyl tert butyl ether	ND	ND	ug/m3	NC		30
Benzene	ND	ND	ug/m3	NC		30
Toluene	220	220	ug/m3	0		30
C5-C8 Aliphatics, Adjusted	18	20	ug/m3	11		30
Ethylbenzene	ND	ND	ug/m3	NC		30
p/m-Xylene	4.1	4.0	ug/m3	2		30
o-Xylene	ND	ND	ug/m3	NC		30
Naphthalene	ND	ND	ug/m3	NC		30
C9-C12 Aliphatics, Adjusted	88	88	ug/m3	0		30
C9-C10 Aromatics Total	ND	ND	ug/m3	NC		30

Project Name: 2 BRIDGES MARKET **Lab Number:** L1018872

Project Number: 1048 **Report Date:** 12/13/10

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L1018872-01	SG-1	0090	#90 SV		-	-	195	195	0
L1018872-01	SG-1	147B	2.7L Can	L1017602	-29.5	-3.6	-	-	-
L1018872-02	SG-2	0236	#90 SV		-	-	197	204	3
L1018872-02	SG-2	490	2.7L Can	L1017602	-29.5	-0.3	-	-	-
L1018872-03	SG-4	0352	#20 AMB		-	-	200	212	6
L1018872-03	SG-4	1729	2.7L Can	L1017602	-29.5	-0.6	-	-	-

Air Volatiles Can Certification

Project Name: BATCH CANISTER CERTIFICATION ***Lab Number:*** L1017602

Project Number: CANISTER QC BAT ***Report Date:*** 12/13/10

Air Canister Certification Results

Lab ID: L1017602-01
Client ID: CAN 147B SHELF 8
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 11/10/10 17:11
Analyst: RY

Date Collected: 11/05/10 00:00
Date Received: 11/05/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air (Low Level) - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.200	--	ND	0.344	--		1
Propane	ND	0.200	--	ND	0.606	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.988	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.776	--		1
Chloroethane	ND	0.200	--	ND	0.527	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.841	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.14	--		1
Acetone	ND	1.00	--	ND	2.37	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION ***Lab Number:*** L1017602

Project Number: CANISTER QC BAT ***Report Date:*** 12/13/10

Air Canister Certification Results

Lab ID: L1017602-01 Date Collected: 11/05/10 00:00

Client ID: CAN 147B SHELF 8 Date Received: 11/05/10

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air (Low Level) - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.622	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.720	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.589	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.976	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.589	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.923	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.704	--		1
Diisopropyl ether	ND	0.200	--	ND	0.835	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.835	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.907	--		1
Benzene	ND	0.200	--	ND	0.638	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.835	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.720	--		1

Project Name: BATCH CANISTER CERTIFICATION ***Lab Number:*** L1017602

Project Number: CANISTER QC BAT ***Report Date:*** 12/13/10

Air Canister Certification Results

Lab ID: L1017602-01 Date Collected: 11/05/10 00:00

Client ID: CAN 147B SHELF 8 Date Received: 11/05/10

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air (Low Level) - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.819	--		1
2,4,4-trimethyl-1-pentene	ND	0.500	--	ND	2.29	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.819	--		1
2,4,4-trimethyl-2-pentene	ND	0.500	--	ND	2.29	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.753	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.923	--		1
2-Hexanone	ND	0.200	--	ND	0.819	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.37	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.920	--		1
Ethylbenzene	ND	0.200	--	ND	0.868	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.06	--		1
Styrene	ND	0.200	--	ND	0.851	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.868	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.982	--		1

Project Name: BATCH CANISTER CERTIFICATION ***Lab Number:*** L1017602

Project Number: CANISTER QC BAT ***Report Date:*** 12/13/10

Air Canister Certification Results

Lab ID: L1017602-01 Date Collected: 11/05/10 00:00

Client ID: CAN 147B SHELF 8 Date Received: 11/05/10

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air (Low Level) - Mansfield Lab								
Bromobenzene	ND	0.200	--	ND	1.28	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.03	--		1
n-Propylbenzene	ND	0.200	--	ND	0.982	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.03	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.982	--		1
1,3,5-Trimethybenzene	ND	0.200	--	ND	0.982	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.03	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION ***Lab Number:*** L1017602

Project Number: CANISTER QC BAT ***Report Date:*** 12/13/10

Air Canister Certification Results

Lab ID: L1017602-01 Date Collected: 11/05/10 00:00

Client ID: CAN 147B SHELF 8 Date Received: 11/05/10

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air (Low Level) - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	103		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	95		60-140

Project Name: BATCH CANISTER CERTIFICATION ***Lab Number:*** L1017602

Project Number: CANISTER QC BAT ***Report Date:*** 12/13/10

Air Canister Certification Results

Lab ID: L1017602-01
Client ID: CAN 147B SHELF 8
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 11/10/10 17:11
Analyst: RY

Date Collected: 11/05/10 00:00
Date Received: 11/05/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.403	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION ***Lab Number:*** L1017602

Project Number: CANISTER QC BAT ***Report Date:*** 12/13/10

Air Canister Certification Results

Lab ID: L1017602-01 Date Collected: 11/05/10 00:00

Client ID: CAN 147B SHELF 8 Date Received: 11/05/10

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.020	--	ND	0.075	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.206	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1

Project Name: BATCH CANISTER CERTIFICATION ***Lab Number:*** L1017602

Project Number: CANISTER QC BAT ***Report Date:*** 12/13/10

Air Canister Certification Results

Lab ID: L1017602-01 Date Collected: 11/05/10 00:00

Client ID: CAN 147B SHELF 8 Date Received: 11/05/10

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Project Name: BATCH CANISTER CERTIFICATION ***Lab Number:*** L1017602

Project Number: CANISTER QC BAT ***Report Date:*** 12/13/10

Air Canister Certification Results

Lab ID: L1017602-01 Date Collected: 11/05/10 00:00

Client ID: CAN 147B SHELF 8 Date Received: 11/05/10

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	85		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	86		60-140

AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1017602

Project Number: CANISTER QC BAT **Report Date:** 12/13/10

AIR CAN CERTIFICATION RESULTS

Lab ID:	L1017602-01	Date Collected:	11/05/10 00:00
Client ID:	CAN 147B SHELF 8	Date Received:	11/05/10
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	11/10/10 17:11		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: 2 BRIDGES MARKET
Project Number: 1048

Lab Number: L1018872
Report Date: 12/13/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**

Cooler

N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1018872-01A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1018872-02A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1018872-03A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	2 BRIDGES MARKET	**Lab Number:**	L1018872
Project Number:	1048	**Report Date:**	12/13/10

GLOSSARY

Acronyms

EPA · Environmental Protection Agency.

LCS · Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD · Laboratory Control Sample Duplicate: Refer to LCS.

MDL · Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS · Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD · Matrix Spike Sample Duplicate: Refer to MS.

NA · Not Applicable.

NC · Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI · Not Ignitable.

RL · Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD · Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

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

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

Report Format: Data Usability Report

Project Name:	2 BRIDGES MARKET	**Lab Number:**	L1018872
Project Number:	1048	**Report Date:**	12/13/10

Data Qualifiers

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1018872
Report Date: 12/13/10

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

51 Determination of Carbon Dioxide, Methane, Nitrogen and Oxygen from Stationary Sources. Method 3C. Appendix A, Part 60, 40 CFR (Code of Federal Regulations). June 20, 1996.

96 Method for the Determination of Air-Phase Petroleum Hydrocarbons (APH), MassDEP, December 2009, Revision 1 with QC Requirements & Performance Standards for the Analysis of APH by GC/MS under the Massachusetts Contingency Plan, WSC-CAM-IXA, 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 July 19, 2010 – Mansfield 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-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, EPA 120.1, SM2510B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via LA-DEQ.***

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

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

U.S. Army Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312,3051, 6020, 747A, 7474, 9045C,9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580, 3570, 3540C, 5035, 8260B, 8270C, 8270 Alk-PAH, 8082, 8081A, 8015 (SHC), 8015 (DRO).

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP
Certification is not available by NELAP for the following analytes: **8270C:** Biphenyl.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

ALPHA ANALYTICAL
320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L1018872

Client Information

Client: Peter Eremita MEDEP
Address: 312 Canco Rd
Portland, ME
Phone: 207-822-6306
Fax:
Email: Pete.M.Eremita@maine.gov

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 2 Bridges Market
Project Location: Leeds
Project #: 1048
Project Manager: Prescott
ALPHA Quote #:

Turn-Around Time

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

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:

Report to: (if different than Project Manager)
Client & Drana.M.McKenzie @Maine.Gov

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria
MEDEP	BWR	1/16

Other Project Specific Requirements/Comments: * See Attached

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-14A by TO-15	TO-15 + 4 Chlor + EDB	TO-15 SIM APH	FIXED GASES O2, CO2, CH4	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
L1018872-1	SG-1	11-19-10	1110	1120	-28	-5	SV	SB	2.7L	1478	90	X		X	X			
2	SG-3 (was 11/23/10 SG-2)		10:45	10:55	-28	-5				490	236	X		X	X			
3	SG-4		1140	1150	-30	-5				1729	352	X		X	X			

* Limited as per MEDEP Request.

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
	11/23/10 8:30	Alicia MacDonald	11/24/10 11:15

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

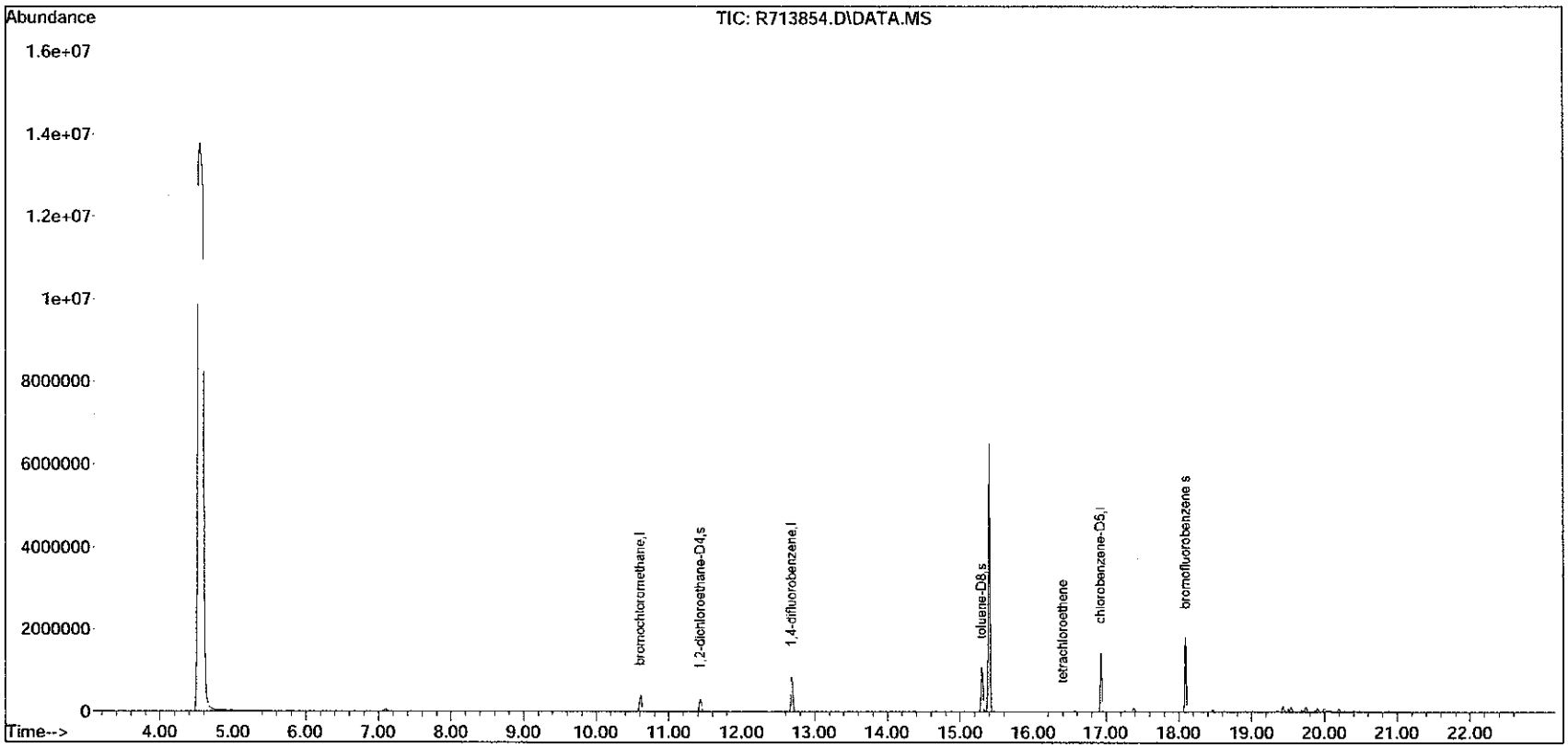
Form No: 101-02 (19-Jun-09)

TO-15

Sub List : 9_Chlorinateds+EDB - .•••• (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2010\101202T\
Data File : R713854.D
Acq On : 2 Dec 2010 8:17 pm
Operator : AIRLAB7:RY
Sample : L1018872-01,3,250,250
Misc : wg445963,ical5297
ALS Vial : 7 Sample Multiplier: 1

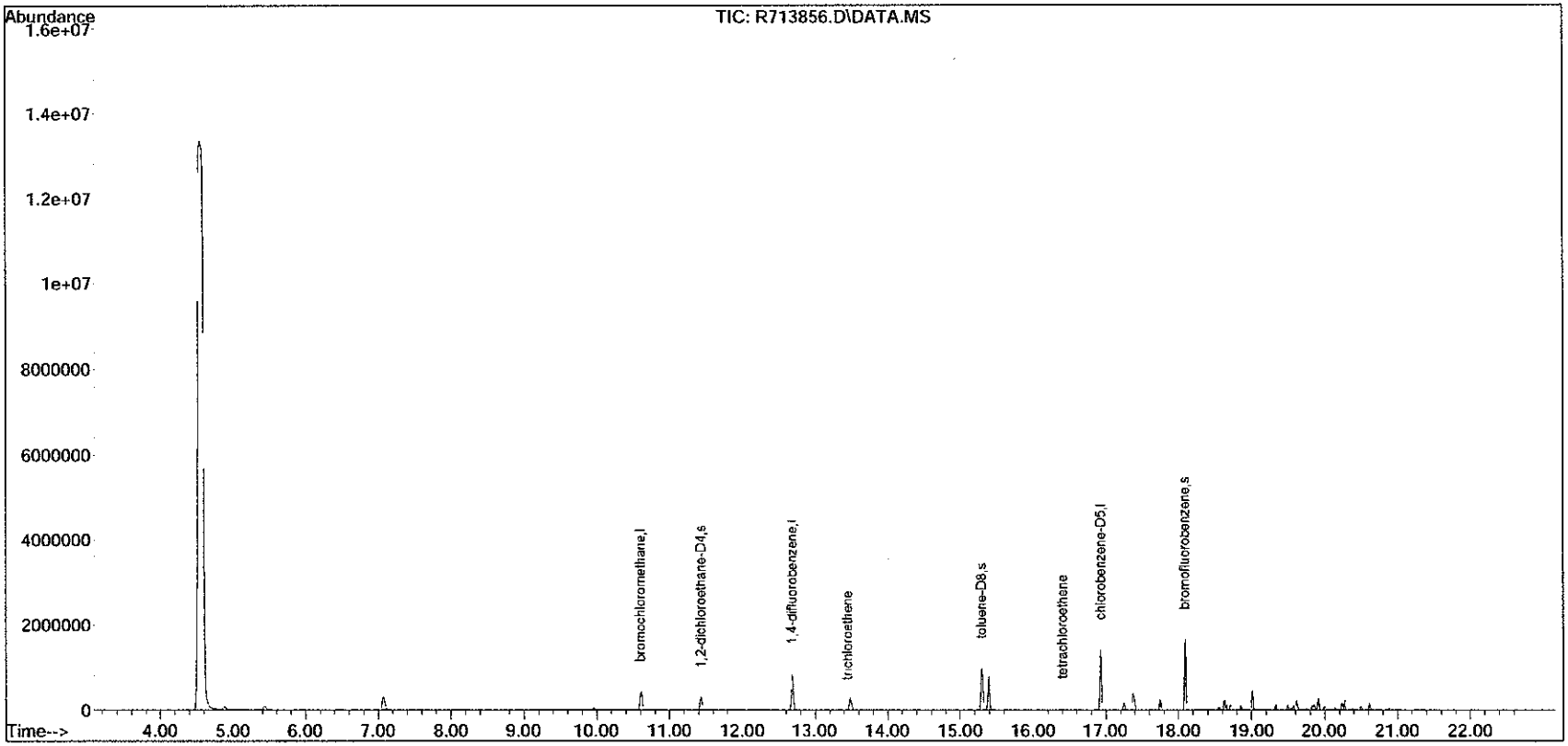
Quant Time: Dec 03 17:19:12 2010
Quant Method : O:\Forensics\Data\Airlab7\2010\101202T\TALL100825.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Aug 26 11:10:47 2010
Response via : Initial Calibration



Sub List : 9_Chlorinateds+EDB - .•••• (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2010\101202T\
Data File : R713856.D
Acq On : 2 Dec 2010 9:30 pm
Operator : AIRLAB7:RY
Sample : L1018872-02,3,250,250
Misc : wg445963,ical5297
ALS Vial : 8 Sample Multiplier: 1

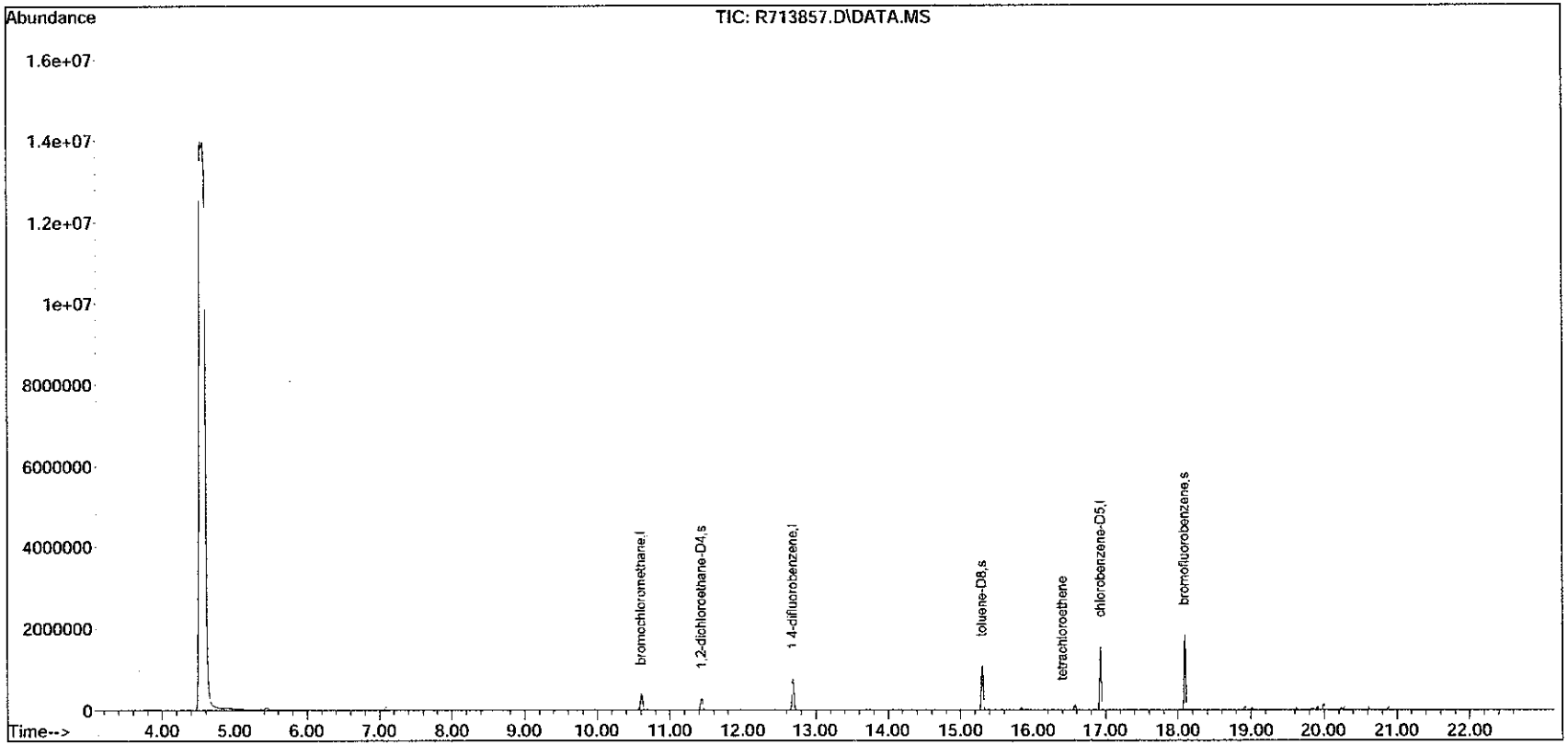
Quant Time: Dec 03 17:20:15 2010
Quant Method : O:\Forensics\Data\Airlab7\2010\101202T\TALL100825.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Aug 26 11:10:47 2010
Response via : Initial Calibration



Sub List : 9_Chlorinateds+EDB - .•••• (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2010\101202T\
Data File : R713857.D
Acq On : 2 Dec 2010 10:06 pm
Operator : AIRLAB7:RY
Sample : L1018872-03,3,250,250
Misc : wg445963,ical5297
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 03 17:20:52 2010
Quant Method : O:\Forensics\Data\Airlab7\2010\101202T\TALL100825.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Aug 26 11:10:47 2010
Response via : Initial Calibration



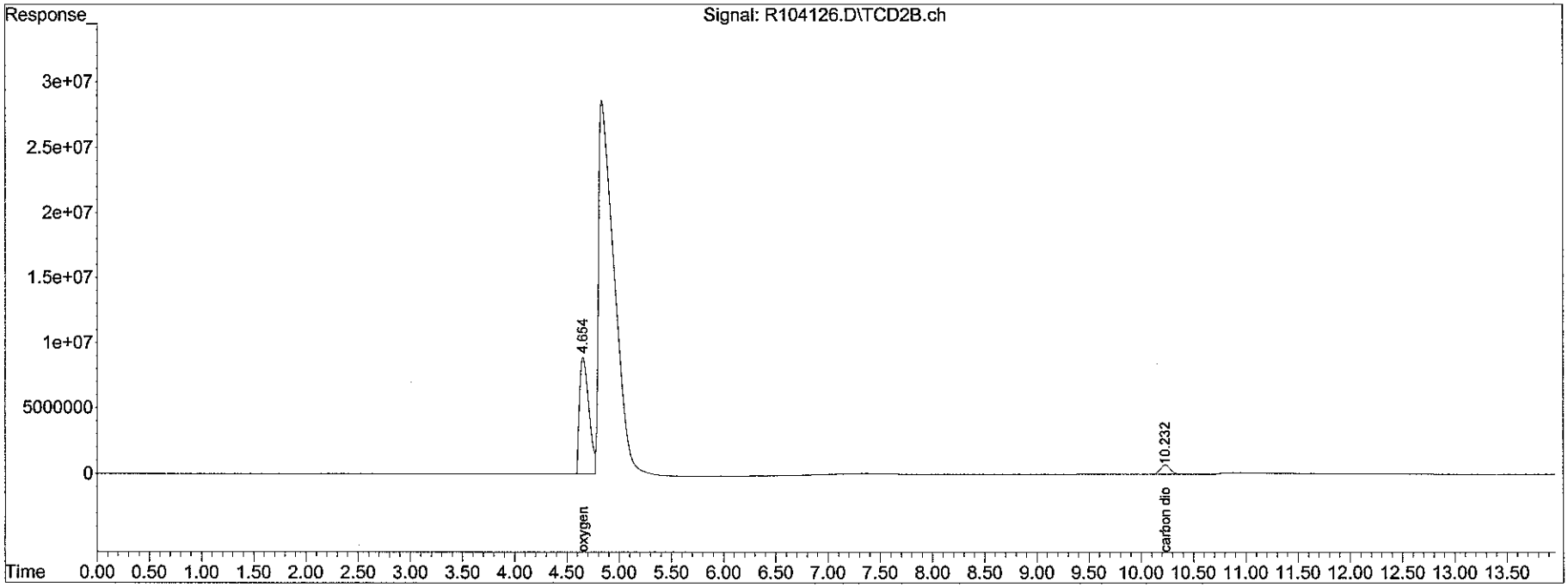
Fixed Gases

Sub List : CO2,O2,CH4 - .[redacted]eport (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\101209fg\
Data File : R104126.D
Signal(s) : TCD2B.ch
Acq On : 9 Dec 2010 2:50 pm
Operator : airlab10:ry
Sample : l1018872-01d,4,0.4562,1
Misc : WG447014,ICAL5222
ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 09 15:15:17 2010
Quant Method : O:\Forensics\Data\airlab10\101209fg\FG100730.M
Quant Title : Fixed Gas Analysis via Method 3C
QLast Update : Sat Oct 30 10:36:20 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

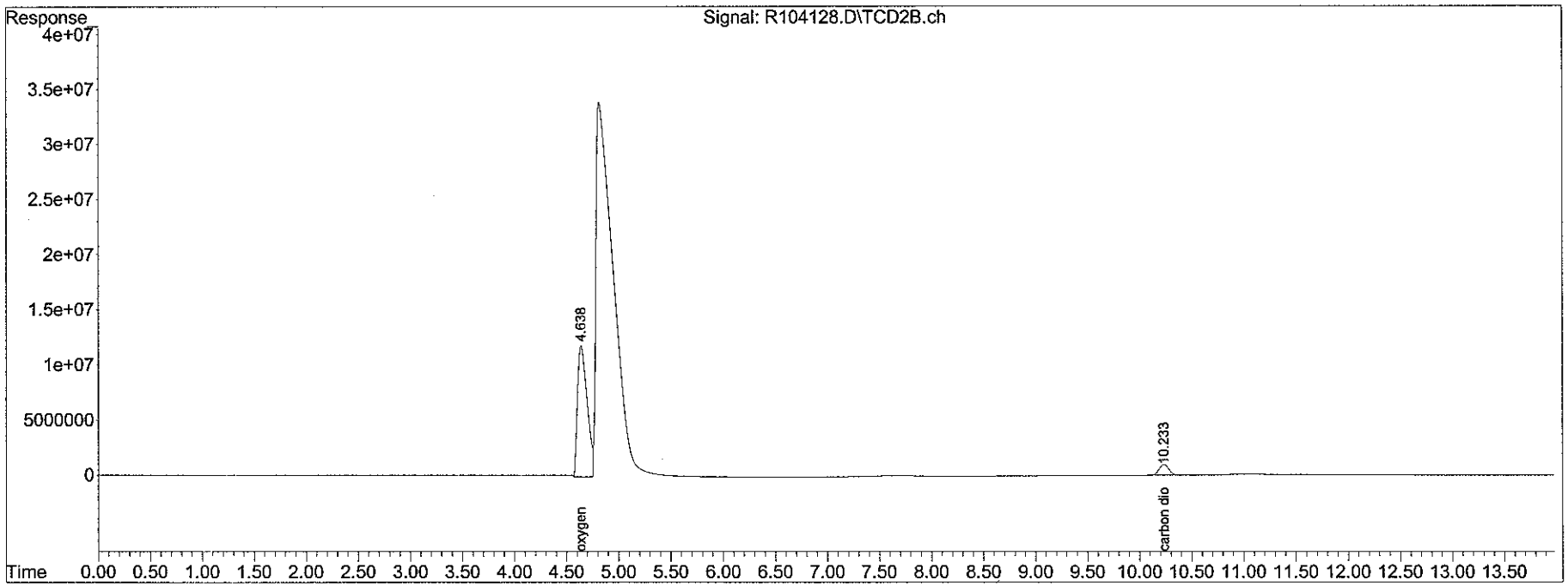


Sub List : CO2,O2,CH4 - .[redacted]eport (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\101209fg\
Data File : R104128.D
Signal(s) : TCD2B.ch
Acq On : 9 Dec 2010 3:28 pm
Operator : airlab10:ry
Sample : l1018872-02d,4,0.6083,1
Misc : WG447014,ICAL5222
ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 09 15:47:32 2010
Quant Method : O:\Forensics\Data\airlab10\101209fg\FG100730.M
Quant Title : Fixed Gas Analysis via Method 3C
QLast Update : Sat Oct 30 10:36:20 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

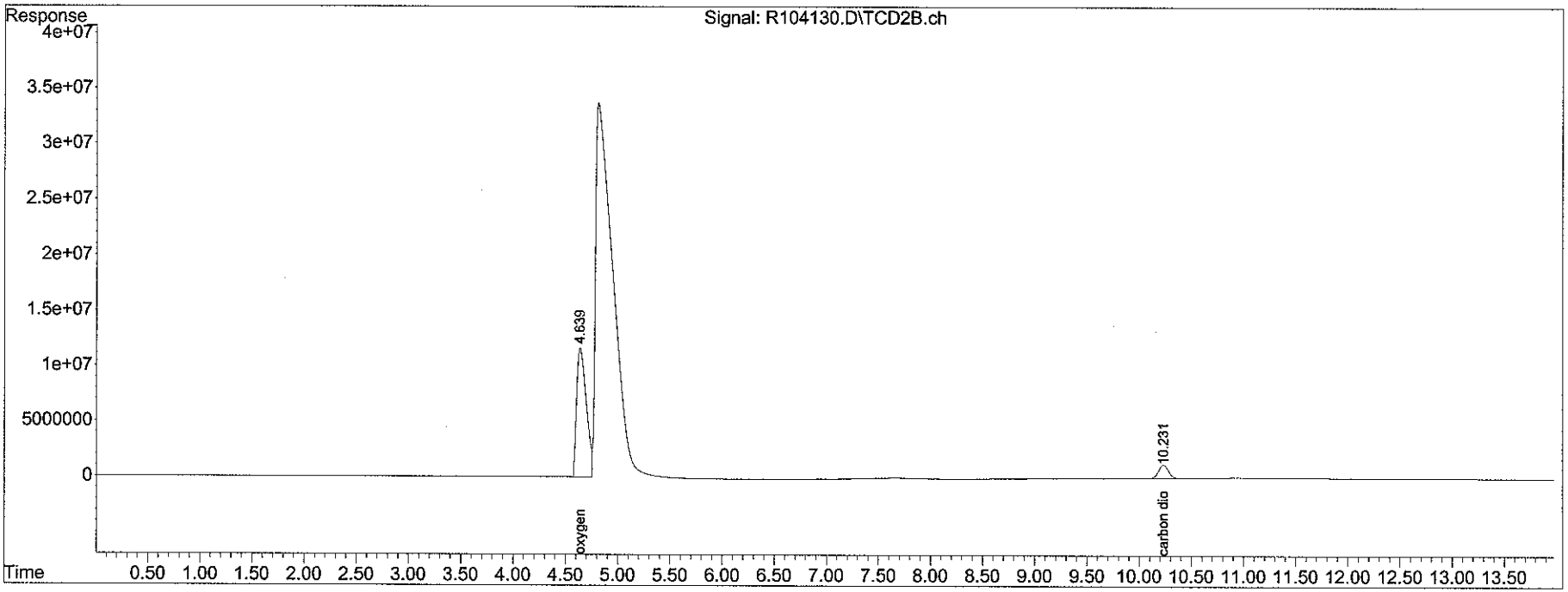


Sub List : CO2,O2,CH4 - .[redacted]eport (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\101209fg\
Data File : R104130.D
Signal(s) : TCD2B.ch
Acq On : 9 Dec 2010 4:07 pm
Operator : airlab10:ry
Sample : l1018872-03d,4,0.5988,1
Misc : WG447014,ICAL5222
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 09 16:22:02 2010
Quant Method : O:\Forensics\Data\airlab10\101209fg\FG100730.M
Quant Title : Fixed Gas Analysis via Method 3C
QLast Update : Sat Oct 30 10:36:20 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

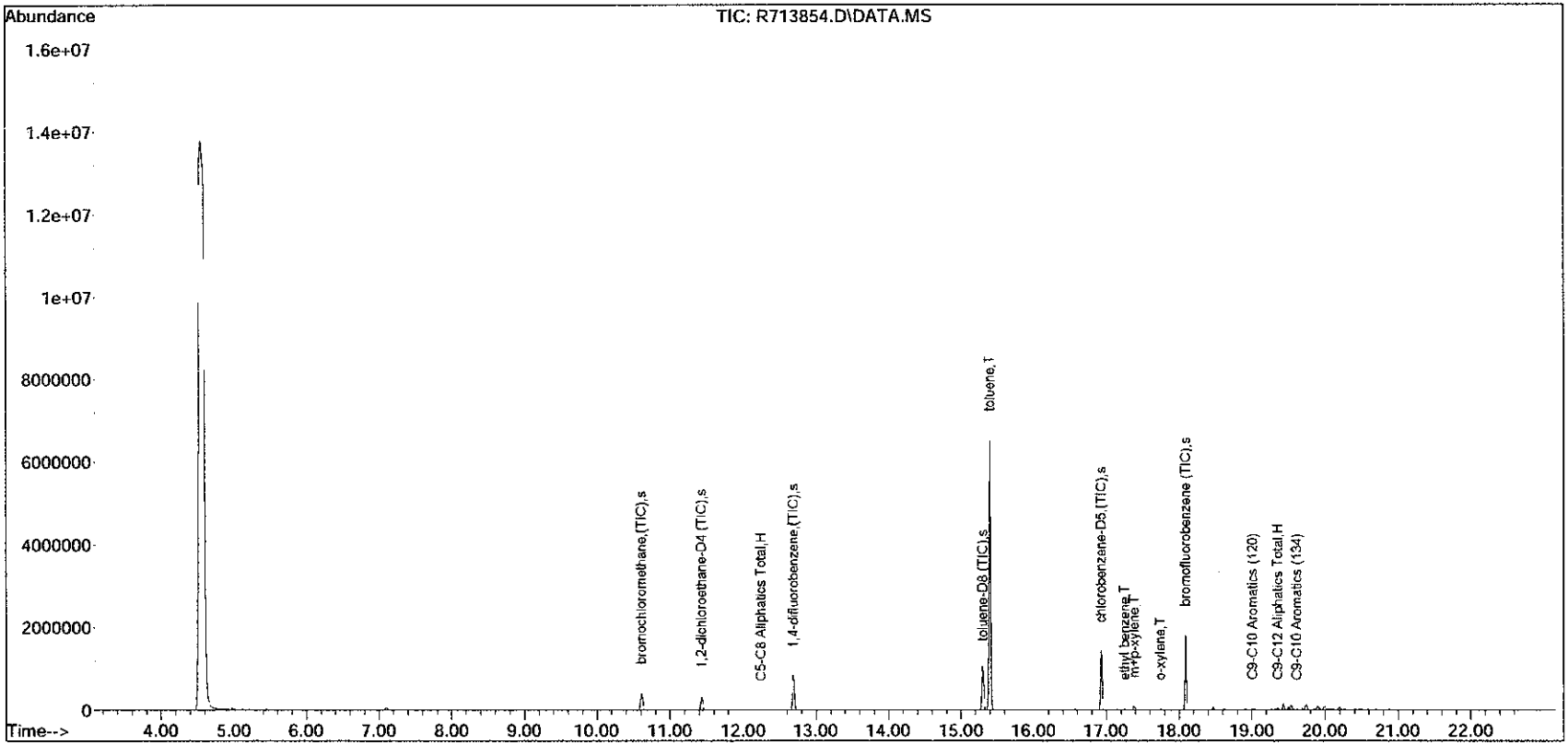


APH

Sub List : APH_STD_M - .••••Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2010\101202A\
Data File : R713854.D
Acq On : 2 Dec 2010 8:17 pm
Operator : AIRLAB7:RY
Sample : L1018872-01,3,250,250
Misc : WG445964,ICAL5416
ALS Vial : 7 Sample Multiplier: 1

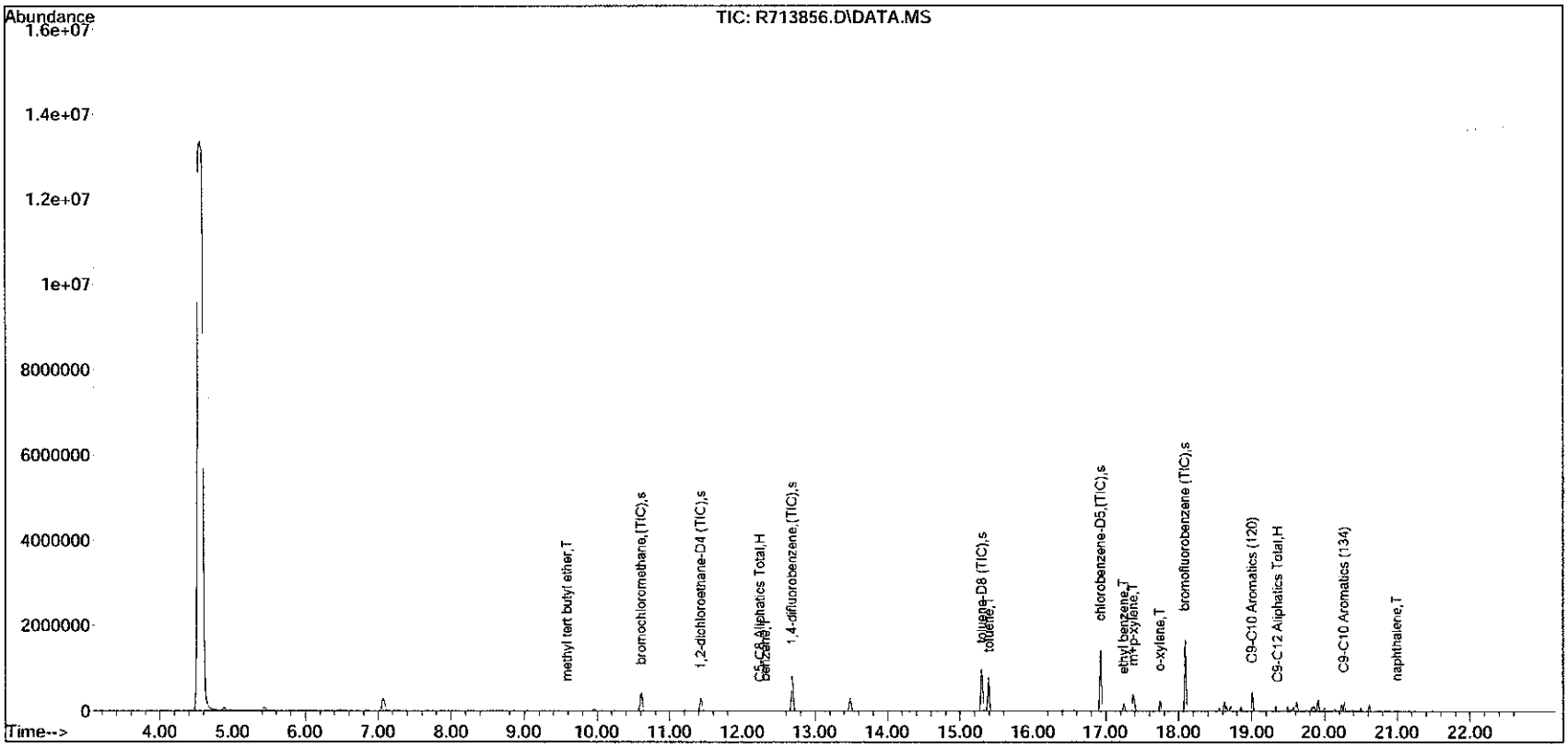
Quant Time: Dec 03 10:53:03 2010
Quant Method : O:\Forensics\Data\Airlab7\2010\101202A\APH101018.M
Quant Title : APH Analysis
QLast Update : Tue Oct 19 09:18:46 2010
Response via : Initial Calibration



Sub List : APH_STD_M - .••••Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2010\101202A\
Data File : R713856.D
Acq On : 2 Dec 2010 9:30 pm
Operator : AIRLAB7:RY
Sample : L1018872-02,3,250,250
Misc : WG445964,ICAL5416
ALS Vial : 8 Sample Multiplier: 1

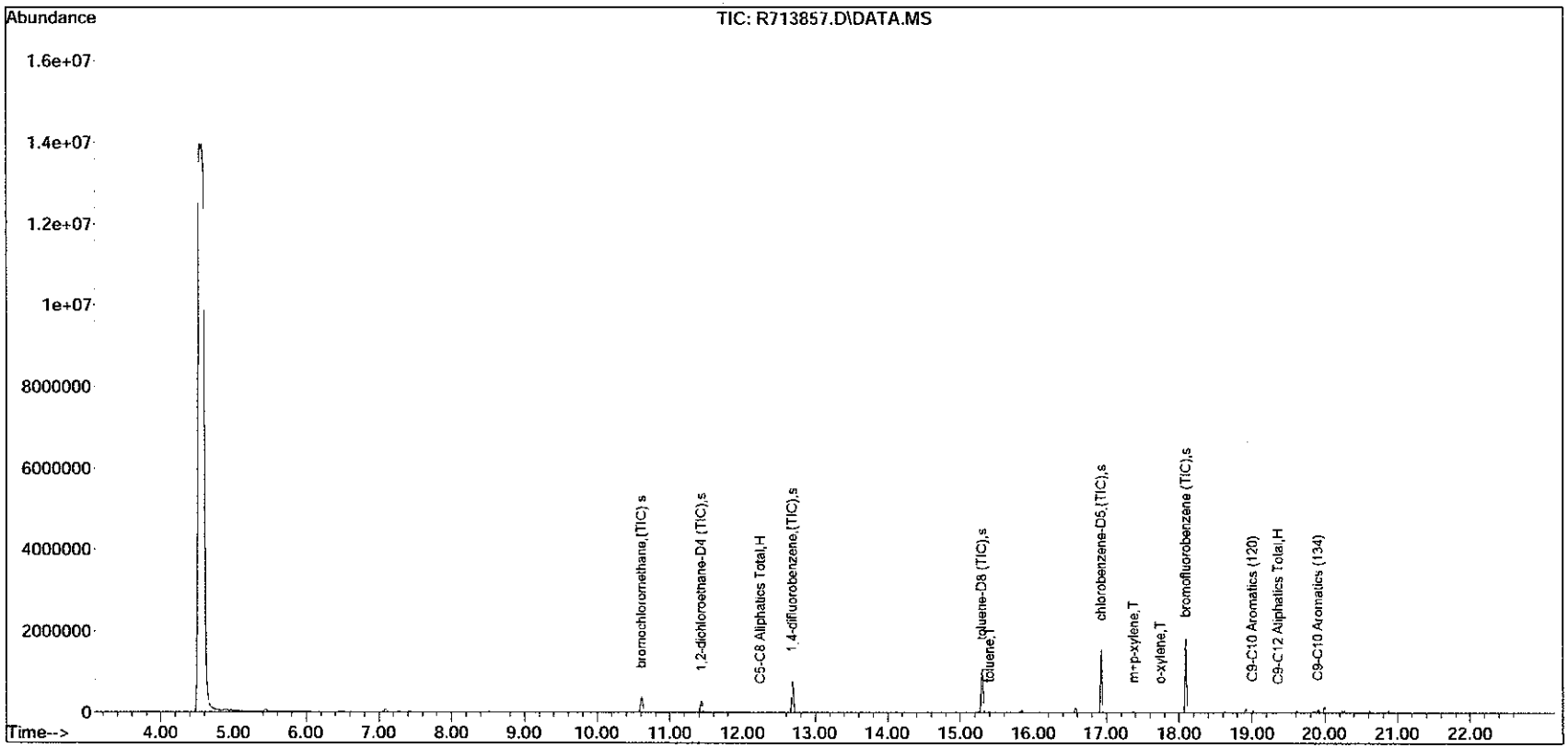
Quant Time: Dec 03 10:54:38 2010
Quant Method : O:\Forensics\Data\Airlab7\2010\101202A\APH101018.M
Quant Title : APH Analysis
QLast Update : Tue Oct 19 09:18:46 2010
Response via : Initial Calibration



Sub List : APH_STD_M - .••••Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2010\101202A\
Data File : R713857.D
Acq On : 2 Dec 2010 10:06 pm
Operator : AIRLAB7:RY
Sample : L1018872-03,3,250,250
Misc : WG445964,ICAL5416
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 03 10:55:19 2010
Quant Method : O:\Forensics\Data\Airlab7\2010\101202A\APH101018.M
Quant Title : APH Analysis
QLast Update : Tue Oct 19 09:18:46 2010
Response via : Initial Calibration



ANALYTICAL REPORT

Lab Number:	L1019019
Client:	Maine DEP-Div. of Technical Services Division of Technical Services 312 Canco Road Portland, ME 04103
ATTN:	Peter Eremita
Phone:	(207) 592-0592
Project Name:	2 BRIDGES MARKET
Project Number:	1048
Report Date:	12/13/10

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: 2 BRIDGES MARKET
Project Number: 1048

Lab Number: L1019019
Report Date: 12/13/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1019019-01	SG-3	LEEDS	11/24/10 08:45

Project Name: 2 BRIDGES MARKET **Lab Number:** L1019019

Project Number: 1048 **Report Date:** 12/13/10

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).	YES
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	YES
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: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1019019
Report Date: 12/13/10

Case Narrative

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

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

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

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

Report Submission

This report replaces the report issued on December 10, 2010. The report has been amended to include the batch quality control for the APH analysis.

MCP Related Narratives

Canisters were released from the laboratory on November 12, 2010.

The canister certification data is provided as an addendum.

Volatile Organics in Air

The WG445963-3 LCS recovery for Vinyl chloride (131%) is outside the 70%-130% acceptance limit. All associated samples were non-detect for Vinyl Chloride.

Project Name:	2 BRIDGES MARKET	**Lab Number:**	L1019019
Project Number:	1048	**Report Date:**	12/13/10

Case Narrative (continued)

Fixed Gas

L1019019-01: Prior to sample analysis, the canister was pressurized with UHP Hydrogen in order to facilitate the transfer of sample to the Gas Chromatograph. The addition of Hydrogen resulted in a dilution of the sample. The reporting limits have been elevated accordingly.

Petroleum Hydrocarbons in Air

All MCP required questions were answered with affirmative responses; therefore, there are no relevant data issues to discuss.

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: Kathleen O'Brien

Title: Technical Director/Representative Date: 12/13/10

AIR

Project Name: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1019019
Report Date: 12/13/10

SAMPLE RESULTS

Lab ID: L1019019-01
Client ID: SG-3
Sample Location: LEEDS
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/02/10 19:41
Analyst: RY

Date Collected: 11/24/10 08:45
Date Received: 11/30/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	87		60-140

Project Name: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1019019
Report Date: 12/13/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/02/10 17:26

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01 Batch: WG445963-4								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: 2 BRIDGES MARKET

Project Number: 1048

Lab Number: L1019019

Report Date: 12/13/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01 Batch: WG445963-3								
Vinyl chloride	**131**	Q	-		70-130	-		
1,1-Dichloroethene	112		-		70-130	-		
trans-1,2-Dichloroethene	105		-		70-130	-		
1,1-Dichloroethane	118		-		70-130	-		
cis-1,2-Dichloroethene	112		-		70-130	-		
1,2-Dichloroethane	101		-		70-130	-		
1,1,1-Trichloroethane	92		-		70-130	-		
Trichloroethene	94		-		70-130	-		
1,2-Dibromoethane	117		-		70-130	-		
Tetrachloroethene	112		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: 2 BRIDGES MARKET
Project Number: 1048

Lab Number: L1019019
Report Date: 12/13/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG445963-5 QC Sample: L1018872-01 Client ID: DUP Sample						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	ND	ND	ppbV	NC		25

Project Name: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1019019
Report Date: 12/13/10

SAMPLE RESULTS

Lab ID:	L1019019-01	D	Date Collected:	11/24/10 08:45
Client ID:	SG-3		Date Received:	11/30/10
Sample Location:	LEEDS		Field Prep:	Not Specified
Matrix:	Soil_Vapor		Extraction Method:	
Analytical Method:	51,3C			
Analytical Date:	12/09/10 16:45			
Analyst:	RY			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	18.0		%	1.81	--	1.809
Carbon Dioxide	1.16		%	0.181	--	1.809
Methane	ND		%	0.181	--	1.809

Project Name: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1019019
Report Date: 12/13/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 51,3C
Analytical Date: 12/09/10 14:17
Analyst: RY

Parameter	Result	Qualifier	Units	RL	MDL
Fixed Gases by GC - Mansfield Lab for sample(s): 01 Batch: WG447014-2					
Oxygen	ND		%	1.00	--
Carbon Dioxide	ND		%	0.100	--
Methane	ND		%	0.100	--

Lab Control Sample Analysis

Batch Quality Control

Project Name: 2 BRIDGES MARKET

Project Number: 1048

Lab Number: L1019019

Report Date: 12/13/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01 Batch: WG447014-1								
Oxygen	92		-		80-120	-		
Carbon Dioxide	105		-		80-120	-		
Methane	106		-		80-120	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: 2 BRIDGES MARKET
Project Number: 1048

Lab Number: L1019019
Report Date: 12/13/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG447014-3 QC Sample: L1018872-01 Client ID: DUP Sample						
Oxygen	17.3	18.2	%	5		5
Carbon Dioxide	1.22	1.22	%	0		5
Methane	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG447014-4 QC Sample: L1018872-02 Client ID: DUP Sample						
Oxygen	18.1	18.0	%	1		5
Carbon Dioxide	1.25	1.25	%	0		5
Methane	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG447014-5 QC Sample: L1018872-03 Client ID: DUP Sample						
Oxygen	17.9	17.9	%	0		5
Carbon Dioxide	1.61	1.61	%	0		5
Methane	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG447014-6 QC Sample: L1019019-01 Client ID: SG-3						
Oxygen	18.0	18.0	%	0		5
Carbon Dioxide	1.16	1.16	%	0		5
Methane	ND	ND	%	NC		5

Project Name: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1019019
Report Date: 12/13/10

SAMPLE RESULTS

Lab ID:	L1019019-01	Date Collected:	11/24/10 08:45
Client ID:	SG-3	Date Received:	11/30/10
Sample Location:	LEEDS	Field Prep:	Not Specified
Matrix:	Soil_Vapor		
Analytical Method:	96,APH		
Analytical Date:	12/02/10 19:41		
Analyst:	RY		

Quality Control Information

Sample Type:	200 ml/min Composite
Sample Container Type:	Canister - 2.7 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Petroleum Hydrocarbons in Air - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	13		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	39		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	82		50-200
Bromochloromethane	87		50-200
Chlorobenzene-d5	89		50-200

Project Name: 2 BRIDGES MARKET
Project Number: 1048
Lab Number: L1019019
Report Date: 12/13/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 96,APH
Analytical Date: 12/02/10 17:26
Analyst: RY

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbons in Air - Mansfield Lab for sample(s): 01 Batch: WG445964-4					
1,3-Butadiene	ND		ug/m3	2.0	--
Methyl tert butyl ether	ND		ug/m3	2.0	--
Benzene	ND		ug/m3	2.0	--
Toluene	ND		ug/m3	2.0	--
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--
Ethylbenzene	ND		ug/m3	2.0	--
p/m-Xylene	ND		ug/m3	4.0	--
o-Xylene	ND		ug/m3	2.0	--
Naphthalene	ND		ug/m3	2.0	--
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--
C9-C10 Aromatics Total	ND		ug/m3	10	--

Lab Control Sample Analysis

Batch Quality Control

Project Name: 2 BRIDGES MARKET

Project Number: 1048

Lab Number: L1019019

Report Date: 12/13/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01 Batch: WG445964-3								
1,3-Butadiene	75		-		70-130	-		
Methyl tert butyl ether	77		-		70-130	-		
Benzene	92		-		70-130	-		
Toluene	87		-		70-130	-		
C5-C8 Aliphatics, Adjusted	71		-		70-130	-		
Ethylbenzene	105		-		70-130	-		
p/m-Xylene	103		-		70-130	-		
o-Xylene	105		-		70-130	-		
Naphthalene	98		-		50-150	-		
C9-C12 Aliphatics, Adjusted	96		-		70-130	-		
C9-C10 Aromatics Total	81		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: 2 BRIDGES MARKET
Project Number: 1048

Lab Number: L1019019
Report Date: 12/13/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG445964-5 QC Sample: L1018872-01 Client ID: DUP Sample						
1,3-Butadiene	ND	ND	ug/m3	NC		30
Methyl tert butyl ether	ND	ND	ug/m3	NC		30
Benzene	ND	ND	ug/m3	NC		30
Toluene	220	220	ug/m3	0		30
C5-C8 Aliphatics, Adjusted	18	20	ug/m3	11		30
Ethylbenzene	ND	ND	ug/m3	NC		30
p/m-Xylene	4.1	4.0	ug/m3	2		30
o-Xylene	ND	ND	ug/m3	NC		30
Naphthalene	ND	ND	ug/m3	NC		30
C9-C12 Aliphatics, Adjusted	88	88	ug/m3	0		30
C9-C10 Aromatics Total	ND	ND	ug/m3	NC		30

Project Name: 2 BRIDGES MARKET **Lab Number:** L1019019

Project Number: 1048 **Report Date:** 12/13/10

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L1019019-01	SG-3	0469	#90 SV		-	-	200	205	2
L1019019-01	SG-3	511	2.7L Can	L1017602	-29.3	-3.8	-	-	-

Air Volatiles Can Certification

Project Name: BATCH CANISTER CERTIFICATION ***Lab Number:*** L1017602

Project Number: CANISTER QC BAT ***Report Date:*** 12/13/10

Air Canister Certification Results

Lab ID: L1017602-01
Client ID: CAN 147B SHELF 8
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 11/10/10 17:11
Analyst: RY

Date Collected: 11/05/10 00:00
Date Received: 11/05/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air (Low Level) - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.200	--	ND	0.344	--		1
Propane	ND	0.200	--	ND	0.606	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.988	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.776	--		1
Chloroethane	ND	0.200	--	ND	0.527	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.841	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.14	--		1
Acetone	ND	1.00	--	ND	2.37	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION ***Lab Number:*** L1017602

Project Number: CANISTER QC BAT ***Report Date:*** 12/13/10

Air Canister Certification Results

Lab ID: L1017602-01 Date Collected: 11/05/10 00:00

Client ID: CAN 147B SHELF 8 Date Received: 11/05/10

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air (Low Level) - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.622	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.720	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.589	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.976	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.589	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.923	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.704	--		1
Diisopropyl ether	ND	0.200	--	ND	0.835	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.835	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.907	--		1
Benzene	ND	0.200	--	ND	0.638	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.835	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.720	--		1

Project Name: BATCH CANISTER CERTIFICATION ***Lab Number:*** L1017602

Project Number: CANISTER QC BAT ***Report Date:*** 12/13/10

Air Canister Certification Results

Lab ID: L1017602-01 Date Collected: 11/05/10 00:00

Client ID: CAN 147B SHELF 8 Date Received: 11/05/10

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air (Low Level) - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.819	--		1
2,4,4-trimethyl-1-pentene	ND	0.500	--	ND	2.29	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.819	--		1
2,4,4-trimethyl-2-pentene	ND	0.500	--	ND	2.29	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.753	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.923	--		1
2-Hexanone	ND	0.200	--	ND	0.819	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.37	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.920	--		1
Ethylbenzene	ND	0.200	--	ND	0.868	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.06	--		1
Styrene	ND	0.200	--	ND	0.851	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.868	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.982	--		1

Project Name: BATCH CANISTER CERTIFICATION ***Lab Number:*** L1017602

Project Number: CANISTER QC BAT ***Report Date:*** 12/13/10

Air Canister Certification Results

Lab ID: L1017602-01 Date Collected: 11/05/10 00:00

Client ID: CAN 147B SHELF 8 Date Received: 11/05/10

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air (Low Level) - Mansfield Lab								
Bromobenzene	ND	0.200	--	ND	1.28	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.03	--		1
n-Propylbenzene	ND	0.200	--	ND	0.982	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.03	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.982	--		1
1,3,5-Trimethybenzene	ND	0.200	--	ND	0.982	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.03	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION ***Lab Number:*** L1017602

Project Number: CANISTER QC BAT ***Report Date:*** 12/13/10

Air Canister Certification Results

Lab ID: L1017602-01 Date Collected: 11/05/10 00:00

Client ID: CAN 147B SHELF 8 Date Received: 11/05/10

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air (Low Level) - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	103		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	95		60-140

Project Name: BATCH CANISTER CERTIFICATION ***Lab Number:*** L1017602

Project Number: CANISTER QC BAT ***Report Date:*** 12/13/10

Air Canister Certification Results

Lab ID: L1017602-01
Client ID: CAN 147B SHELF 8
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 11/10/10 17:11
Analyst: RY

Date Collected: 11/05/10 00:00
Date Received: 11/05/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.403	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION ***Lab Number:*** L1017602

Project Number: CANISTER QC BAT ***Report Date:*** 12/13/10

Air Canister Certification Results

Lab ID: L1017602-01 Date Collected: 11/05/10 00:00

Client ID: CAN 147B SHELF 8 Date Received: 11/05/10

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.020	--	ND	0.075	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.206	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1

Project Name: BATCH CANISTER CERTIFICATION ***Lab Number:*** L1017602

Project Number: CANISTER QC BAT ***Report Date:*** 12/13/10

Air Canister Certification Results

Lab ID: L1017602-01 Date Collected: 11/05/10 00:00

Client ID: CAN 147B SHELF 8 Date Received: 11/05/10

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Project Name: BATCH CANISTER CERTIFICATION ***Lab Number:*** L1017602

Project Number: CANISTER QC BAT ***Report Date:*** 12/13/10

Air Canister Certification Results

Lab ID: L1017602-01 Date Collected: 11/05/10 00:00

Client ID: CAN 147B SHELF 8 Date Received: 11/05/10

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	85		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	86		60-140

AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1017602

Project Number: CANISTER QC BAT **Report Date:** 12/13/10

AIR CAN CERTIFICATION RESULTS

Lab ID:	L1017602-01	Date Collected:	11/05/10 00:00
Client ID:	CAN 147B SHELF 8	Date Received:	11/05/10
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	11/10/10 17:11		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: 2 BRIDGES MARKET
Project Number: 1048

Lab Number: L1019019
Report Date: 12/13/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**

Cooler

N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1019019-01A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	2 BRIDGES MARKET	**Lab Number:**	L1019019
Project Number:	1048	**Report Date:**	12/13/10

GLOSSARY

Acronyms

EPA · Environmental Protection Agency.

LCS · Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD · Laboratory Control Sample Duplicate: Refer to LCS.

MDL · Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS · Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD · Matrix Spike Sample Duplicate: Refer to MS.

NA · Not Applicable.

NC · Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI · Not Ignitable.

RL · Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD · Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

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

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

Report Format: Data Usability Report

Project Name:	2 BRIDGES MARKET	**Lab Number:**	L1019019
Project Number:	1048	**Report Date:**	12/13/10

Data Qualifiers

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

51 Determination of Carbon Dioxide, Methane, Nitrogen and Oxygen from Stationary Sources. Method 3C. Appendix A, Part 60, 40 CFR (Code of Federal Regulations). June 20, 1996.

96 Method for the Determination of Air-Phase Petroleum Hydrocarbons (APH), MassDEP, December 2009, Revision 1 with QC Requirements & Performance Standards for the Analysis of APH by GC/MS under the Massachusetts Contingency Plan, WSC-CAM-IXA, 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 July 19, 2010 – Mansfield 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-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, EPA 120.1, SM2510B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via LA-DEQ.***

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

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

U.S. Army Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312,3051, 6020, 747A, 7474, 9045C,9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580, 3570, 3540C, 5035, 8260B, 8270C, 8270 Alk-PAH, 8082, 8081A, 8015 (SHC), 8015 (DRO).

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP
Certification is not available by NELAP for the following analytes: **8270C:** Biphenyl.

Serial_No:12131016:04

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

ALPHA ANALYTICAL
320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L1019019

Client Information

Client: Pete Eremita
Address: 312 Canco Rd
Portland, ME
Phone: 207-822-6300
Fax: Pete.M.Eremita@Maine.gov
Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 2 Bridges Market
Project Location: Leeds
Project #: 1048
Project Manager: Prescott
ALPHA Quote #:

Turn-Around Time

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

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:

Report to: (if different than Project Manager)
Client c/
Diana.M.McKenzie@Maine.Gov

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria
MEDEP	BWR	1/10

Other Project Specific Requirements/Comments: * See Attached

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-14A by TO-15	TO-15 * 9 chlor + EDB	TO-15 SIM APH	FIXED GASES O_2, CO_2, CH4	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
L1019019-1	SG-1 SG-3	11/24/10	8:35	8:45	-29	-5	SV	SB	2.7L	311	469		X		X	X		
	WAP 11/30/10																	

ANALYSIS

* Limited as per MEDEP request.

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
	11/29/10 10:00	Alicia MacDonald	11/30/10 11:10

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

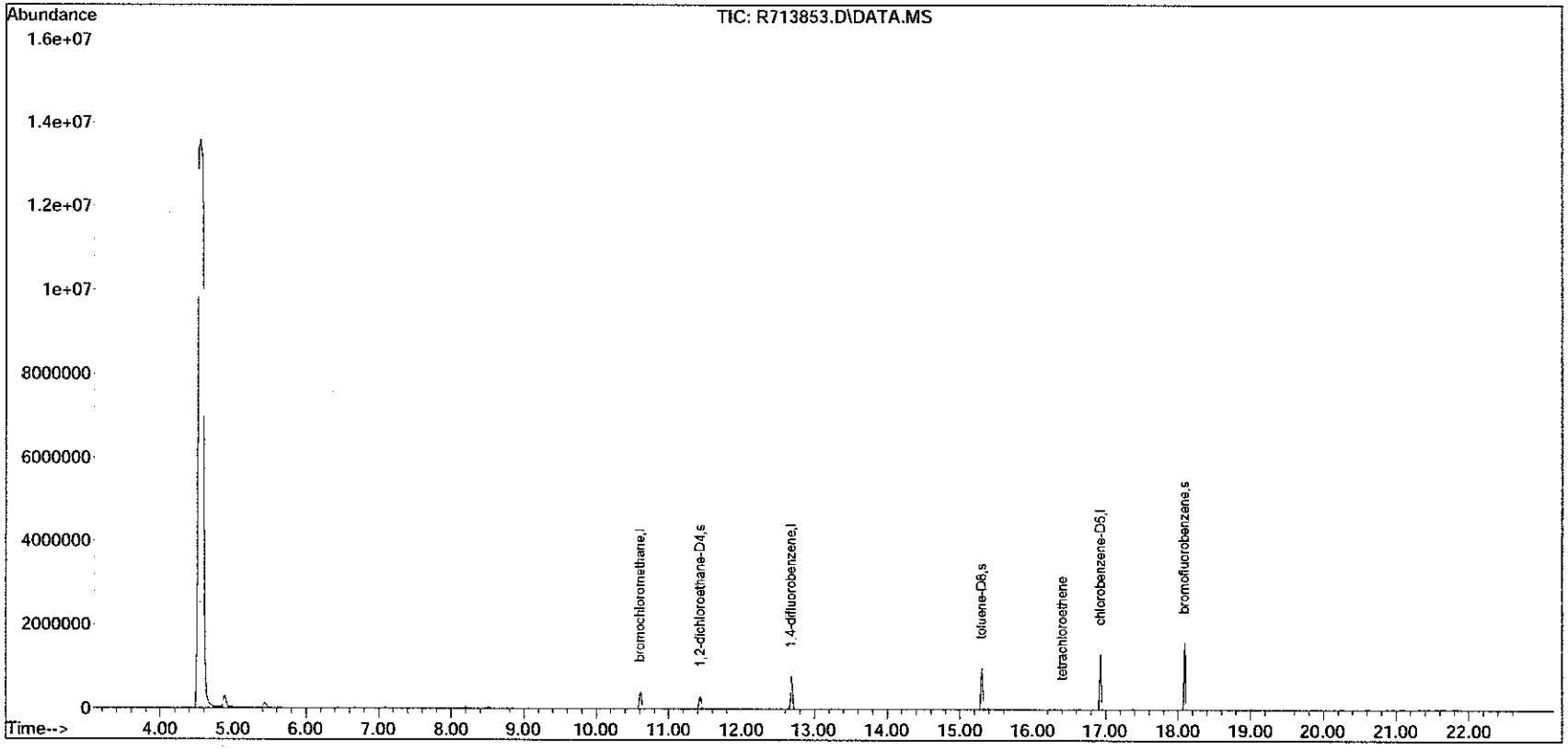
Form No: 101-02 (19-Jun-09)

TO-15

Sub List : 9_Chlorinateds+EDB - .•••• (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2010\101202T\
Data File : R713853.D
Acq On : 2 Dec 2010 7:41 pm
Operator : AIRLAB7:RY
Sample : L1019019-01,3,250,250
Misc : wg445963,ical5297
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 03 17:18:44 2010
Quant Method : O:\Forensics\Data\Airlab7\2010\101202T\TALL100825.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Aug 26 11:10:47 2010
Response via : Initial Calibration



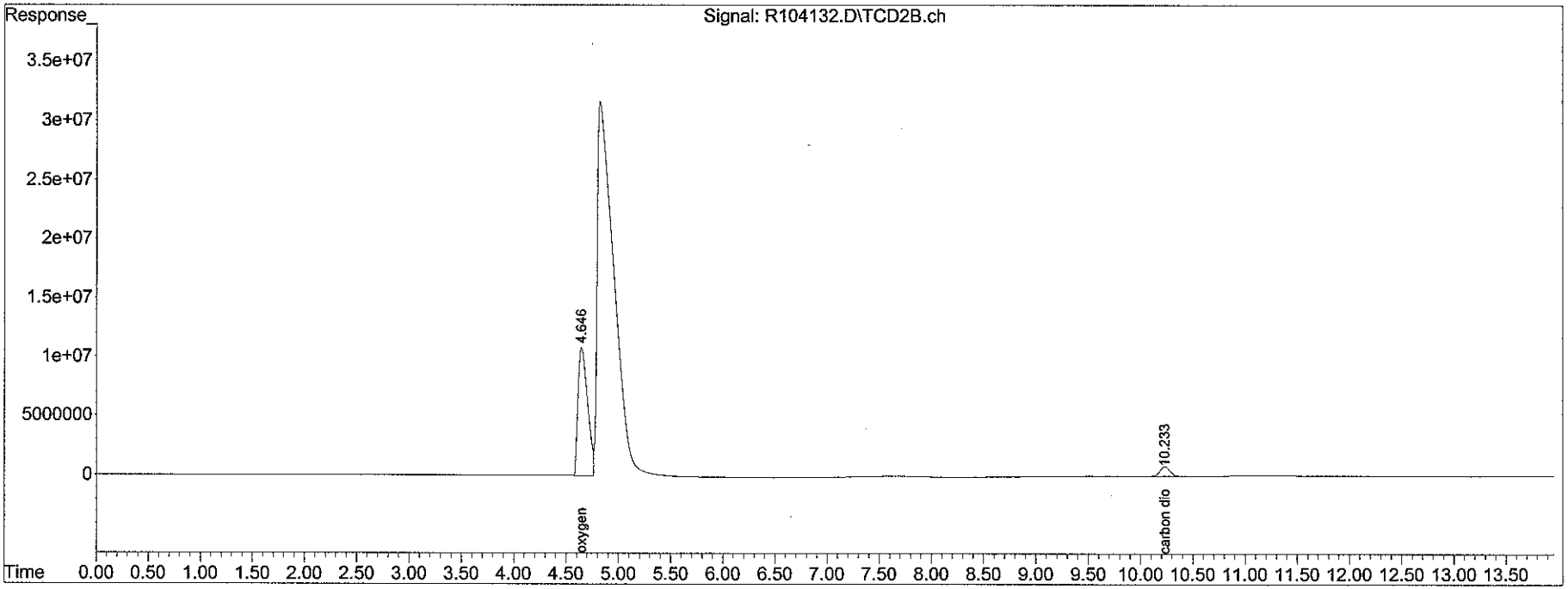
Fixed Gases

Sub List : CO2,O2,CH4 - .[redacted]eport (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\101209fg\
Data File : R104132.D
Signal(s) : TCD2B.ch
Acq On : 9 Dec 2010 4:45 pm
Operator : airlab10:ry
Sample : l1019019-01d,4,0.5529,1
Misc : WG447014,ICAL5222
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 09 17:20:48 2010
Quant Method : O:\Forensics\Data\airlab10\101209fg\FG100730.M
Quant Title : Fixed Gas Analysis via Method 3C
QLast Update : Sat Oct 30 10:36:20 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

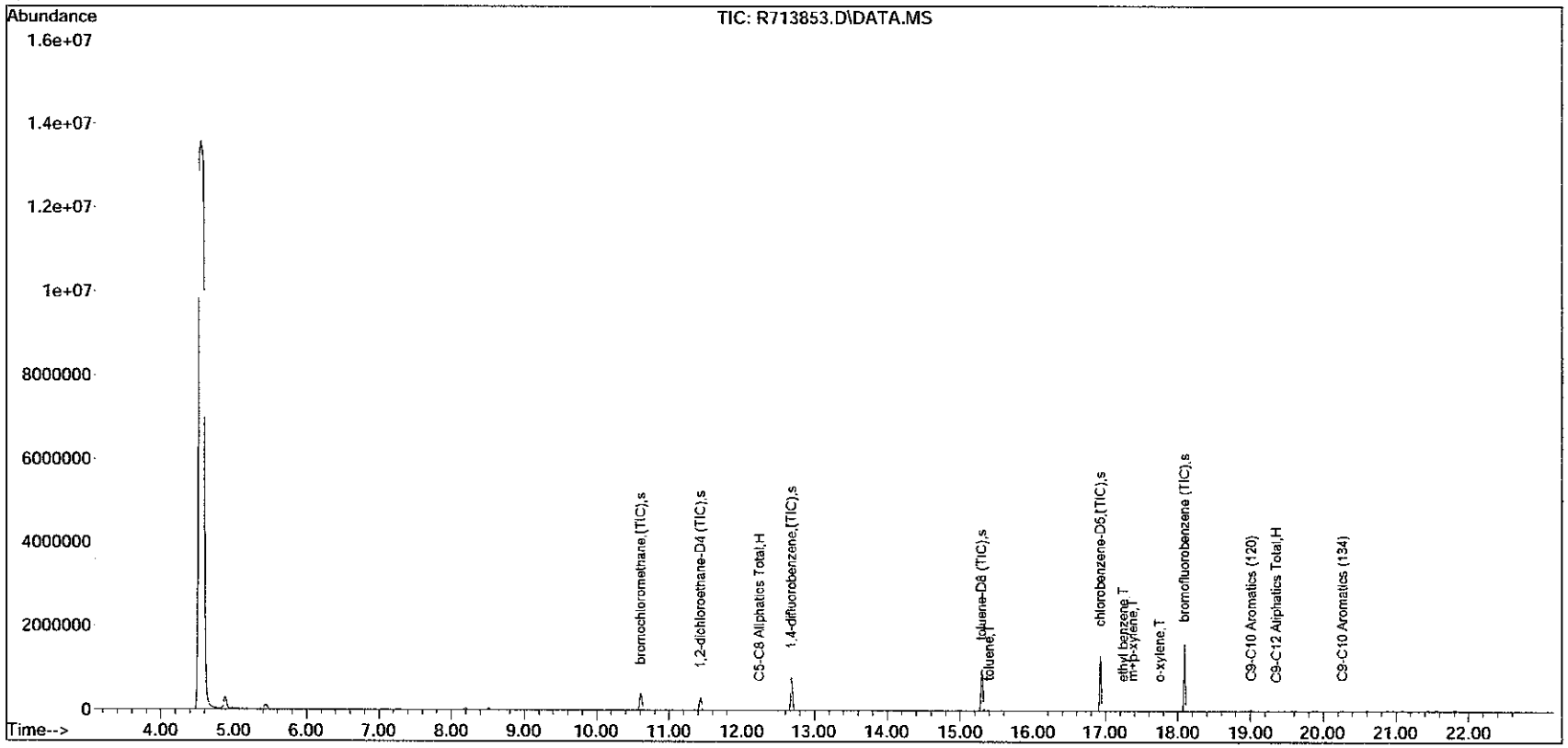


APH

Sub List : APH_STD_M - .••••Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2010\101202A\
Data File : R713853.D
Acq On : 2 Dec 2010 7:41 pm
Operator : AIRLAB7:RY
Sample : L1019019-01,3,250,250
Misc : WG445964,ICAL5416
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 03 10:52:27 2010
Quant Method : O:\Forensics\Data\Airlab7\2010\101202A\APH101018.M
Quant Title : APH Analysis
QLast Update : Tue Oct 19 09:18:46 2010
Response via : Initial Calibration



Maine Center for Disease Control and Prevention
An Office of the Department of Health and Human Services
John E. Baldacci, Governor Brenda M. Harvey, Commissioner

Department of Health and Human Services
Health and Environmental Testing Laboratory
221 State Street
#12 State House Station
Augusta, Maine 04333-0012
Tel: (207) 287-2727; Fax: (207) 287-6832
TTY: 1-800-606-0215

Logged: 10/26/2010 4:22:00PM

MOLLY ZOGBY
DEPT OF ENVIRONMENTAL PROTECTION
DEP SHS 17
AUGUSTA ME 04333 Fax#:

Folder/ Invoice # F057054

Office Use Only:
Summary
DEPP

Project Name: TWIN BRIDGE MARKET

Released: 11/4/2010

No. of Samples in Folder 9

Case #:

F057054001, F057054002, F057054003
F057054004, F057054005, F057054006
F057054007, F057054008, F057054009

CERTIFICATION

The HETL hereby certifies that all test results for this sample were analyzed by the method listed, including preservation, preparation , and holding times, unless otherwise indicated.

Kenneth G. Pote, PhD., Director Richard French, Quality Assurance Officer

If we can be of further assistance to you, Please Call us at 287-1716

Approved by:

James E. Curlett
Organics Supervisor/Chemist III

CC:

11/4/2010 11:04:21AM

Continued from Previous Page HETL Sample Number: F057054001

HETL Sample Number: F057054001 Description: B1 8-9 FT

Matrix: SOLID Sample Point:

Sampler: MOLLY ZOGBY Sample Date: 10/26/2010 Time: 10:10:00

Method: VPH Analyst Vera Maheu Analysis Datetime: 10/28/2010

Analyte	Result	Units	RL	MCL	Qualifiers
Methyl tert-Butyl Ether	<0.05	mg/Kg	0.05		
Benzene	<.05	mg/Kg	0.05		
Toluene	0.25	mg/Kg	0.05		
Ethylbenzene	2.9	mg/Kg	0.05		
m,p-Xylene	13	mg/Kg	0.1		
o-Xylene	3.3	mg/Kg	0.05		
Naphthalene	4.3	mg/Kg	0.1		
C5-C8 Aliphatic Hydrocarbons	95	mg/Kg	2.5		
C9-C12 Aliphatic Hydrocarbons	15	mg/Kg	2.5		
C9-C10 Aromatic Hydrocarbons	140	mg/Kg	1.0		
Unadjusted C5-C8 Aliphatics	95	mg/Kg	2.5		
Unadjusted C9-C12 Aliphatics	180	mg/Kg	2.5		

Surrogate Analytes (added as part of testing to verify performance)	Result	Amount	% Rec	Low % Rec	High % Rec	Qualifiers
Dibromofluoromethane	51	50.0	102.0	70	130	
Toluene-d8	53	50.0	106.0	70	130	
4-Bromofluorobenzene	50	50.0	100.0	70	130	

Units & Measurement

"mg/L" = Milligrams per liter; "ug/L" = Micrograms per Liter; "mg/Kg" = Milligrams per Kilogram;
"ug/Kg" = Micrograms per Kilogram; "PPM" = Parts per Million; "NTU" = Nephelometric Turbidity Units;

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Folder/ Invoice # F057054

Office Use Only:
Summary
DEPP

Project Name: TWIN BRIDGE MARKET

Released: 11/4/2010

No. of Samples in Folder 9

Case #:

F057054001, F057054002, F057054003
F057054004, F057054005, F057054006
F057054007, F057054008, F057054009

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If we can be of further assistance to you, Please Call us at 287-1716

Approved by:

James E. Curlett
Organics Supervisor/Chemist III

CC:

11/4/2010 11:04:21AM

Continued from Previous Page HETL Sample Number: F057054002

HETL Sample Number: F057054002 Description: B1 8-9 FT

Matrix: SOLID Sample Point:

Sampler: MOLLY ZOGBY Sample Date: 10/26/2010 Time: 10:10:00

Method: EPH Analyst Vera Maheu Analysis Datetime: 10/29/2010

Preparation Method: 3550B Prepared by: Vera Maheu

Date Prepared	Time Prepared	Amount Extracted	Extraction pH	Final Amount of Extract
10/29/2010	06:05	9.80g	N/A	1.0mL

Analyte	Result	Units	RL	MCL	Qualifiers
Naphthalene	1.6	mg/Kg	0.2		
2-Methylnaphthalene	5.0	mg/Kg	0.2		
Phenanthrene	<0.2	mg/Kg	0.2		
Acenaphthene	<0.2	mg/Kg	0.2		
Unadjusted C11-C22 Aromatics	44	mg/Kg	20		
C11-C22 Aromatic Hydrocarbons	37	mg/Kg	20		
C9-C18 Aliphatic Hydrocarbons	35	mg/Kg	20		
C19-C36 Aliphatic Hydrocarbons	<20	mg/Kg	20		
Acenaphthylene	<0.2	mg/Kg	0.2		
Fluorene	<0.2	mg/Kg	0.2		
Anthracene	<0.2	mg/Kg	0.2		
Fluoranthene	<0.2	mg/Kg	0.2		
Pyrene	<0.2	mg/Kg	0.2		
Benzo(a)anthracene	<0.2	mg/Kg	0.2		
Chrysene	<0.2	mg/Kg	0.2		
Benzo(b)fluoranthene	<0.2	mg/Kg	0.2		
Benzo(k)fluoranthene	<0.2	mg/Kg	0.2		
Benzo(a)pyrene	<0.2	mg/Kg	0.2		
Indeno(1,2,3-cd)pyrene/Dibenzo(a,h)anthracene	<0.4	mg/Kg	0.4		
Benzo(g,h,i)perylene	<0.2	mg/Kg	0.2		

Surrogate Analytes (added as part of testing to verify performance)	Result	Amount	% Rec	Low % Rec	High % Rec	Qualifiers
1-Chlorooctadecane	15.5	20.0	77.5	40	140	
o-Terphenyl	16.6	20.0	83.0	40	140	
2-Bromonaphthalene	21.8	20.0	109.0	40	140	
2-Fluorobiphenyl	22.8	20.0	114.0	40	140	

Units & Measurement

"mg/L" = Milligrams per liter; "ug/L" = Micrograms per Liter; "mg/Kg" = Milligrams per Kilogram;
"ug/Kg" = Micrograms per Kilogram; "PPM" = Parts per Million; "NTU" = Nephelometric Turbidity Units;

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MOLLY ZOGBY
DEPT OF ENVIRONMENTAL PROTECTION
DEP SHS 17
AUGUSTA ME 04333 Fax#:

Folder/ Invoice # F057054

Office Use Only:
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Project Name: TWIN BRIDGE MARKET

Released: 11/4/2010

No. of Samples in Folder 9

Case #:

F057054001, F057054002, F057054003
F057054004, F057054005, F057054006
F057054007, F057054008, F057054009

CERTIFICATION

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Kenneth G. Pote, PhD., Director Richard French, Quality Assurance Officer

If we can be of further assistance to you, Please Call us at 287-1716

Approved by:

James E. Curlett
Organics Supervisor/Chemist III

CC:

11/4/2010 11:04:21AM

Continued from Previous Page HETL Sample Number: F057054003

HETL Sample Number: F057054003 Description: B2 11-12 FT

Matrix: SOLID Sample Point:

Sampler: MOLLY ZOGBY Sample Date: 10/26/2010 Time: 10:20:00

Method: VPH Analyst Vera Maheu Analysis Datetime: 10/28/2010

Analyte	Result	Units	RL	MCL	Qualifiers
Methyl tert-Butyl Ether	<0.05	mg/Kg	0.05		
Benzene	<.05	mg/Kg	0.05		
Toluene	<0.05	mg/Kg	0.05		
Ethylbenzene	0.13	mg/Kg	0.05		
m,p-Xylene	0.14	mg/Kg	0.1		
o-Xylene	<.05	mg/Kg	0.05		
Naphthalene	3.2	mg/Kg	0.1		
C5-C8 Aliphatic Hydrocarbons	25	mg/Kg	2.5		
C9-C12 Aliphatic Hydrocarbons	8.3	mg/Kg	2.5		
C9-C10 Aromatic Hydrocarbons	12	mg/Kg	1.0		
Unadjusted C5-C8 Aliphatics	25	mg/Kg	2.5		
Unadjusted C9-C12 Aliphatics	20	mg/Kg	2.5		

Surrogate Analytes (added as part of testing to verify performance)	Result	Amount	% Rec	Low % Rec	High % Rec	Qualifiers
Dibromofluoromethane	49	50.0	98.0	70	130	
Toluene-d8	54	50.0	108.0	70	130	
4-Bromofluorobenzene	52	50.0	104.0	70	130	

Units & Measurement

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Project Name: TWIN BRIDGE MARKET

Released: 11/4/2010

No. of Samples in Folder 9

Case #:

F057054001, F057054002, F057054003
F057054004, F057054005, F057054006
F057054007, F057054008, F057054009

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If we can be of further assistance to you, Please Call us at 287-1716

Approved by:

James E. Curlett
Organics Supervisor/Chemist III

CC:

11/4/2010 11:04:21AM

Continued from Previous Page HETL Sample Number: F057054004

HETL Sample Number: F057054004 Description: B2 11-12 FT

Matrix: SOLID Sample Point:

Sampler: MOLLY ZOGBY Sample Date: 10/26/2010 Time: 10:20:00

Method: EPH Analyst Vera Maheu Analysis Datetime: 10/29/2010

Preparation Method: 3550B Prepared by: Vera Maheu

Date Prepared	Time Prepared	Amount Extracted	Extraction pH	Final Amount of Extract
10/29/2010	06:05	10.02g	N/A	1.0mL

Analyte	Result	Units	RL	MCL	Qualifiers
Naphthalene	<0.2	mg/Kg	0.2		
2-Methylnaphthalene	<0.2	mg/Kg	0.2		
Phenanthrene	<0.2	mg/Kg	0.2		
Acenaphthene	<0.2	mg/Kg	0.2		
Unadjusted C11-C22 Aromatics	<20	mg/Kg	20		
C11-C22 Aromatic Hydrocarbons	<20	mg/Kg	20		
C9-C18 Aliphatic Hydrocarbons	<20	mg/Kg	20		
C19-C36 Aliphatic Hydrocarbons	<20	mg/Kg	20		
Acenaphthylene	<0.2	mg/Kg	0.2		
Fluorene	<0.2	mg/Kg	0.2		
Anthracene	<0.2	mg/Kg	0.2		
Fluoranthene	<0.2	mg/Kg	0.2		
Pyrene	<0.2	mg/Kg	0.2		
Benzo(a)anthracene	<0.2	mg/Kg	0.2		
Chrysene	<0.2	mg/Kg	0.2		
Benzo(b)fluoranthene	<0.2	mg/Kg	0.2		
Benzo(k)fluoranthene	<0.2	mg/Kg	0.2		
Benzo(a)pyrene	<0.2	mg/Kg	0.2		
Indeno(1,2,3-cd)pyrene/Dibenzo(a,h)anthracene	<0.4	mg/Kg	0.4		
Benzo(g,h,i)perylene	<0.2	mg/Kg	0.2		

Surrogate Analytes (added as part of testing to verify performance)	Result	Amount	% Rec	Low % Rec	High % Rec	Qualifiers
1-Chlorooctadecane	13.6	20.0	68.0	40	140	
o-Terphenyl	15.1	20.0	75.5	40	140	
2-Bromonaphthalene	17.5	20.0	87.5	40	140	
2-Fluorobiphenyl	17.8	20.0	89.0	40	140	

Units & Measurement

"mg/L" = Milligrams per liter; "ug/L" = Micrograms per Liter; "mg/Kg" = Milligrams per Kilogram;
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AUGUSTA ME 04333 Fax#:

Folder/ Invoice # F057054

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Project Name: TWIN BRIDGE MARKET

Released: 11/4/2010

No. of Samples in Folder 9

Case #:

F057054001, F057054002, F057054003
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F057054007, F057054008, F057054009

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If we can be of further assistance to you, Please Call us at 287-1716

Approved by:

James E. Curlett
Organics Supervisor/Chemist III

CC:

11/4/2010 11:04:21AM

Continued from Previous Page HETL Sample Number: F057054005

HETL Sample Number: F057054005 Description: B6 9-10 FT

Matrix: SOLID Sample Point:

Sampler: MOLLY ZOGBY Sample Date: 10/26/2010 Time: 12:30:00

Method: VPH Analyst Vera Maheu Analysis Datetime: 10/28/2010

Analyte	Result	Units	RL	MCL	Qualifiers
Methyl tert-Butyl Ether	<0.05	mg/Kg	0.05		
Benzene	<.05	mg/Kg	0.05		
Toluene	<.05	mg/Kg	0.05		
Ethylbenzene	0.89	mg/Kg	0.05		
m,p-Xylene	1.9	mg/Kg	0.1		
o-Xylene	<.05	mg/Kg	0.05		
Naphthalene	1.0	mg/Kg	0.1		
C5-C8 Aliphatic Hydrocarbons	43	mg/Kg	2.5		
C9-C12 Aliphatic Hydrocarbons	22	mg/Kg	2.5		
C9-C10 Aromatic Hydrocarbons	44	mg/Kg	1.0		
Unadjusted C5-C8 Aliphatics	43	mg/Kg	2.5		
Unadjusted C9-C12 Aliphatics	70	mg/Kg	2.5		

Surrogate Analytes (added as part of testing to verify performance)	Result	Amount	% Rec	Low % Rec	High % Rec	Qualifiers
Dibromofluoromethane	50	50.0	100.0	70	130	
Toluene-d8	53	50.0	106.0	70	130	
4-Bromofluorobenzene	51	50.0	102.0	70	130	

Units & Measurement

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Released: 11/4/2010

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Case #:

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Approved by:

James E. Curlett
Organics Supervisor/Chemist III

CC:

11/4/2010 11:04:21AM

Continued from Previous Page HETL Sample Number: F057054006

HETL Sample Number: F057054006 Description: B6 9-12 FT

Matrix: SOLID Sample Point:

Sampler: MOLLY ZOGBY Sample Date: 10/26/2010 Time: 12:30:00

Method: EPH Analyst Vera Maheu Analysis Datetime: 10/29/2010

Preparation Method: 3550B Prepared by: Vera Maheu

Date Prepared	Time Prepared	Amount Extracted	Extraction pH	Final Amount of Extract
10/29/2010	06:05	9.85g	N/A	1.0mL

Analyte	Result	Units	RL	MCL	Qualifiers
Naphthalene	<0.2	mg/Kg	0.2		
2-Methylnaphthalene	<0.2	mg/Kg	0.2		
Phenanthrene	<0.2	mg/Kg	0.2		
Acenaphthene	<0.2	mg/Kg	0.2		
Unadjusted C11-C22 Aromatics	<20	mg/Kg	20		
C11-C22 Aromatic Hydrocarbons	<20	mg/Kg	20		
C9-C18 Aliphatic Hydrocarbons	<20	mg/Kg	20		
C19-C36 Aliphatic Hydrocarbons	<20	mg/Kg	20		
Acenaphthylene	<0.2	mg/Kg	0.2		
Fluorene	<0.2	mg/Kg	0.2		
Anthracene	<0.2	mg/Kg	0.2		
Fluoranthene	<0.2	mg/Kg	0.2		
Pyrene	<0.2	mg/Kg	0.2		
Benzo(a)anthracene	<0.2	mg/Kg	0.2		
Chrysene	<0.2	mg/Kg	0.2		
Benzo(b)fluoranthene	<0.2	mg/Kg	0.2		
Benzo(k)fluoranthene	<0.2	mg/Kg	0.2		
Benzo(a)pyrene	<0.2	mg/Kg	0.2		
Indeno(1,2,3-cd)pyrene/Dibenzo(a,h)anthracene	<0.4	mg/Kg	0.4		
Benzo(g,h,i)perylene	<0.2	mg/Kg	0.2		

Surrogate Analytes (added as part of testing to verify performance)	Result	Amount	% Rec	Low % Rec	High % Rec	Qualifiers
1-Chlorooctadecane	14.2	20.0	71.0	40	140	
o-Terphenyl	15.7	20.0	78.5	40	140	
2-Bromonaphthalene	18.9	20.0	94.5	40	140	
2-Fluorobiphenyl	19.0	20.0	95.0	40	140	

Units & Measurement

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An Office of the Department of Health and Human Services
John E. Baldacci, Governor Brenda M. Harvey, Commissioner

Department of Health and Human Services
Health and Environmental Testing Laboratory
221 State Street
#12 State House Station
Augusta, Maine 04333-0012
Tel: (207) 287-2727; Fax: (207) 287-6832
TTY: 1-800-606-0215

Logged: 10/26/2010 4:22:00PM

MOLLY ZOGBY
DEPT OF ENVIRONMENTAL PROTECTION
DEP SHS 17
AUGUSTA ME 04333 Fax#:

Folder/ Invoice # F057054

Office Use Only:
Summary
DEPP

Project Name: TWIN BRIDGE MARKET

Released: 11/4/2010

No. of Samples in Folder 9

Case #:

F057054001, F057054002, F057054003
F057054004, F057054005, F057054006
F057054007, F057054008, F057054009

CERTIFICATION

The HETL hereby certifies that all test results for this sample were analyzed by the method listed, including preservation, preparation , and holding times, unless otherwise indicated.

Kenneth G. Pote, PhD., Director Richard French, Quality Assurance Officer

If we can be of further assistance to you, Please Call us at 287-1716

Approved by:

James E. Curlett
Organics Supervisor/Chemist III

CC:

11/4/2010 11:04:21AM

Continued from Previous Page HETL Sample Number: F057054007

HETL Sample Number: F057054007 Description: B10 7-8 FT

Matrix: SOLID Sample Point:

Sampler: MOLLY ZOGBY Sample Date: 10/26/2010 Time: 13:58:00

Method: VPH Analyst Vera Maheu Analysis Datetime: 10/28/2010

Analyte	Result	Units	RL	MCL	Qualifiers
Methyl tert-Butyl Ether	<0.05	mg/Kg	0.05		
Benzene	<.05	mg/Kg	0.05		
Toluene	<.05	mg/Kg	0.05		
Ethylbenzene	<.05	mg/Kg	0.05		
m,p-Xylene	<0.1	mg/Kg	0.1		
o-Xylene	<.05	mg/Kg	0.05		
Naphthalene	<.1	mg/Kg	0.1		
C5-C8 Aliphatic Hydrocarbons	6.8	mg/Kg	2.5		
C9-C12 Aliphatic Hydrocarbons	34	mg/Kg	2.5		
C9-C10 Aromatic Hydrocarbons	1.6	mg/Kg	1.0		
Unadjusted C5-C8 Aliphatics	6.8	mg/Kg	2.5		
Unadjusted C9-C12 Aliphatics	36	mg/Kg	2.5		

Surrogate Analytes (added as part of testing to verify performance)	Result	Amount	% Rec	Low % Rec	High % Rec	Qualifiers
Dibromofluoromethane	50	50.0	100.0	70	130	
Toluene-d8	53	50.0	106.0	70	130	
4-Bromofluorobenzene	51	50.0	102.0	70	130	

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Folder/ Invoice # F057054

Office Use Only:
Summary
DEPP

Project Name: TWIN BRIDGE MARKET

Released: 11/4/2010

No. of Samples in Folder 9

Case #:

F057054001, F057054002, F057054003
F057054004, F057054005, F057054006
F057054007, F057054008, F057054009

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Approved by:

James E. Curlett
Organics Supervisor/Chemist III

CC:

11/4/2010 11:04:21AM

Continued from Previous Page HETL Sample Number: F057054008

HETL Sample Number: F057054008 Description: B10 7-8 FT

Matrix: SOLID Sample Point:

Sampler: MOLLY ZOGBY Sample Date: 10/26/2010 Time: 13:58:00

Method: EPH Analyst Vera Maheu Analysis Datetime: 10/29/2010

Preparation Method: 3550B Prepared by: Vera Maheu

Date Prepared	Time Prepared	Amount Extracted	Extraction pH	Final Amount of Extract
10/29/2010	06:05	10.07g	N/A	1.0mL

Analyte	Result	Units	RL	MCL	Qualifiers
Naphthalene	<0.2	mg/Kg	0.2		
2-Methylnaphthalene	<0.2	mg/Kg	0.2		
Phenanthrene	<0.2	mg/Kg	0.2		
Acenaphthene	<0.2	mg/Kg	0.2		
Unadjusted C11-C22 Aromatics	<20	mg/Kg	20		
C11-C22 Aromatic Hydrocarbons	<20	mg/Kg	20		
C9-C18 Aliphatic Hydrocarbons	<20	mg/Kg	20		
C19-C36 Aliphatic Hydrocarbons	<20	mg/Kg	20		
Acenaphthylene	<0.2	mg/Kg	0.2		
Fluorene	<0.2	mg/Kg	0.2		
Anthracene	<0.2	mg/Kg	0.2		
Fluoranthene	<0.2	mg/Kg	0.2		
Pyrene	<0.2	mg/Kg	0.2		
Benzo(a)anthracene	<0.2	mg/Kg	0.2		
Chrysene	<0.2	mg/Kg	0.2		
Benzo(b)fluoranthene	<0.2	mg/Kg	0.2		
Benzo(k)fluoranthene	<0.2	mg/Kg	0.2		
Benzo(a)pyrene	<0.2	mg/Kg	0.2		
Indeno(1,2,3-cd)pyrene/Dibenzo(a,h)anthracene	<0.4	mg/Kg	0.4		
Benzo(g,h,i)perylene	<0.2	mg/Kg	0.2		

Surrogate Analytes (added as part of testing to verify performance)	Result	Amount	% Rec	Low % Rec	High % Rec	Qualifiers
1-Chlorooctadecane	14.0	20.0	70.0	40	140	
o-Terphenyl	16.5	20.0	82.5	40	140	
2-Bromonaphthalene	20.2	20.0	101.0	40	140	
2-Fluorobiphenyl	20.3	20.0	101.5	40	140	

Units & Measurement

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Office Use Only:
Summary
DEPP

Project Name: TWIN BRIDGE MARKET

Released: 11/4/2010

No. of Samples in Folder 9

Case #:

F057054001, F057054002, F057054003
F057054004, F057054005, F057054006
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Approved by:

James E. Curlett
Organics Supervisor/Chemist III

CC:

11/4/2010 11:04:21AM

Continued from Previous Page HETL Sample Number: F057054009

HETL Sample Number: F057054009
Description: TWIN BRIDGE MARKET
Matrix: NP-H20
Sample Point:
Sampler: MOLLY ZOGBY
Sample Date: 10/26/2010 Time: 12:25:00

Method: TEPH Analyst Vera Maheu Analysis Datetime: 10/28/2010

Preparation Method: 3510C Prepared by: Vera Maheu

Date Prepared	Time Prepared	Amount Extracted	Extraction pH	Final Amount of Extract
10/28/2010	11:10	0.96L	<2	1.0mL

Analyte	Result	Units	RL	MCL	Qualifiers
Adjusted EPH	<100	ug/L	100		
Unadjusted EPH	<100	ug/L	100		
Naphthalene	<1	ug/L	1.0		
2-Methylnaphthalene	<1	ug/L	1.0		
Acenaphthylene	<1	ug/L	1.0		
Acenaphthene	<1	ug/L	1.0		
Fluorene	<1	ug/L	1.0		
Phenanthrene	<1	ug/L	1.0		
Anthracene	<1	ug/L	1.0		
Fluoranthrene	<1	ug/L	1.0		
Pyrene	<1	ug/L	1.0		
Benzo(a)anthracene	<1	ug/L	1.0		
Chrysene	<1	ug/L	1.0		
Benzo(b)fluoranthene	<1	ug/L	1.0		
Benzo(k)fluoranthene	<1	ug/L	1.0		
Benzo(a)pyrene	<1	ug/L	1.0		
Ideno(1,2,3-cd)pyrene/Dibenzo (a,h)anthracene	<2	ug/L	2.0		
Benzo(g,h,i)perylene	<1	ug/L	1.0		

Surrogate Analytes (added as part of testing to verify performance)	Result	Amount	% Rec	Low % Rec	High % Rec	Qualifiers
o-Terphenyl	14	20.0	72.0	40	140	
1-Chlorooctadecane	12	20.0	58.0	40	140	

Units & Measurement

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