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**LIMITED VAPOR INTRUSION INVESTIGATION
FORMER PATTENS MOBIL STATION AND
FORMER METROPOLITAN LIFE PROPERTIES
540 & 560 MAIN STREET
PRESQUE ISLE, MAINE**

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INTRODUCTION

In June 2010, Summit Environmental Consultants, Inc. (Summit) along with four other consulting firms were selected by the Maine Department of Environmental Protection (MEDEP) to provide vapor intrusion investigation and data analysis services for petroleum sites throughout Maine. Summit was assigned two abutting sites in Presque Isle including the Former Metropolitan Life Insurance Property (Metlife) located at 560 Main Street and the Former Patten's Mobil service station (Patten's Mobil) located at 540 Main Street (for the purposes of this report, the "Site" consists of both properties) to identify the potential for petroleum vapor intrusion (PVI) into site buildings.

In November 2010 Summit developed a Work Plan for the project following MEDEP guidance and incorporating their input including a conceptual site model and description of the scope of investigations. This report provides the results of this Limited Vapor Intrusion Investigation and follows the reporting format and content provided by MEDEP.

1.0 OBJECTIVES

The objectives of the study were to:

- Sample residual soil contamination (if indicated by field observations) at potential source areas that were reasonably accessible (i.e. adjacent to previous UST)
- Sample groundwater beneath and downgradient of source areas if contamination was indicated by field observations
- Characterize the horizontal and vertical attenuation of Chemicals of Potential Concern (CPOCs) in soil vapor from both soil and groundwater contamination areas
- Assess on-site soil vapor pathways (i.e. subslab, utility trenches) to identify potential risks to on-site and off-site receptors

2.0 SITE BACKGROUND AND CONCEPTUAL SITE MODEL

Facility Use/Petroleum Storage

The Site is located on the east side of Main Street and north of Church Street (see Figures 1 and 2). The Site is located in an area zoned by the City of Presque Isle as Commercial. The former Metlife building is currently used by Child Development Services, a foster child and adoption services facility. The property was previously used by the Metlife Company from 1959 (time of building construction) until 1998. The former MetLife building is a masonry brick and block building. A 1,000 gallon #2 heating oil UST was removed from the east side of the Metlife building in 1998 and free product was observed along the bedrock surface during this removal. Further information on this investigation is discussed below.

The former Patten's Mobil property abuts the Child Development Services property to the south and is now occupied by a single masonry brick and block building, currently used by Buy, Swap, and Trade, a printing publication business. The site was previously used by Patten's Mobil from the mid-1950s until approximately 1979, when three gasoline USTs were removed from the southeastern portion of the Site. Free product was observed along the bedrock surface during soil investigations performed by Langille Aroostook Engineering Group (May 26, 1998) and Fessenden Geo-Environmental Services (February 19, 2007). Further information on these investigations is discussed below.

Potential sources of petroleum vapors on the Site include the former Patten's Mobil underground storage tanks (USTs) and pump island and a former UST located on the east site of the Metlife building.

Release

DEP files contain several spill and incident reports for release(s) at the Site and adjacent properties dating back to 1979. A summary of pertinent spill reports is presented below.

B-32-79 - On March 4, 1979 the Presque Isle Fire Department called the DEP and reported gasoline fumes in the Maine Mutual Insurance (MMI) building (551 Main Street). Dave Boulter and Jason Duncan were the DEP investigators. Strong odors were detected in several basement drains and had reached potentially explosive concentrations in certain areas. Fuel odors had been noted for approximately two weeks prior to the report, but they were much less noticeable. No source could immediately be identified.

Investigations were conducted by the DEP over the following month and a half.

Petroleum product was observed on the ice on Presque Isle Stream and was traced to a culvert where ice had formed a natural impoundment. The MMI basement sump drained into an outside storm drain that emptied into Presque Isle Stream. The DEP decided to allow the discharge to continue rather than seal the outlet and confine the product to the sump where fumes could become a hazard within the building.

Water samples were collected from the basement sump and from the USTs at Patten's Mobil (540 Main Street) for comparison purposes. The analytical report states that samples from the sump "corresponded closely" to fuel in one of the USTs. Mr. Patten, owner of Patten's Mobil, was informed that because the test results matched, he was required to remove the tank. The tank was removed and gasoline was observed to be present on groundwater in the tank excavation. An estimated 35 gallons of petroleum product was recovered from the excavation and Presque Isle Stream. Two truckloads of contaminated soil from the excavation were taken to the Presque Isle landfill.

Four auger holes were drilled by MGS in front of the MMI building (551 Main Street) and encountered gas vapors at 6.5 feet to 7 feet below the ground surface (bgs). A trench was excavated in front of the building, encompassing the borings, but no product was observed. Clay at the bottom of the trench had an unusual odor; but not one commonly associated with gasoline. The underlying ledge showed no trace of product.

Additional borings were located at the north and south corners of the MMI building and in the sidewalk. The sidewalk boring encountered strong gas vapors and a test pit was excavated at this location. The underlying ledge formed a natural trench in the bedrock at this location and both soil and bedrock were contaminated.

The test pit was flushed with water and left open to allow rainwater to assist in the flushing. A pipe was installed in the deepest part of the bedrock trench for future flushing, if necessary.

Strong petroleum odors were noted at the underside of the basement floor in a test pit excavated where the sprinkler service main entered the building. It was determined by the MEDEP that product was not entering the basement from the sprinkler main.

The Incident Report noted that gasoline vapors were reported at the Metropolitan Life Insurance Building (Metlife - 560 Main Street) on March 12, 1979. This building does not have a basement. A Metlife employee stated she believed seeing workers at Patten's Mobil hand pumping gasoline onto the pavement on March 9. No evidence of gasoline or origin of the vapors could be identified.

1-54-85 – On August 6, 1985, contaminated soil was reported behind the Maine Mutual Insurance building (551 Main Street). Carl Allen was the DEP investigator. Saturated soil was encountered in a replacement storm drain excavation. The excavation work was below the water table. Water was pumped from the excavation to the Presque Isle Stream and created a sheen on the stream. A boom was used to control the sheen. Three hundred cubic yards of saturated soil was taken to the Presque Isle landfill. It was assumed that Patten's Mobil (540 Main Street) was the source, but a responsible party could not be identified without a hydrogeologic study.

As documented in the spill report, no further investigation was conducted because:

- 1) the spill at Patten's Mobil was large enough to have caused this problem;
- 2) new waste oil regulations would require Hoffses (581 Main Street) to start paying for disposing of the waste oil he was collecting in USTs on his property and the DEP responder would see the tanks when Hoffses abandoned them; and
- 3) the spill was not effecting anyone at the time due to drinking water being available in the area.

The USTs at Hoffses were removed on April 21, 1986 and had Incident Report I-40-86 assigned to them. According to the Langille Aroostook Engineering Group, Inc. (LAEG) UST report for 560 Main Street, the tanks were removed without incident.

1-59-86 - The Maine DEP Hazardous & Oil Spill System (HOSS) online report service reports this incident as a non-oil, non-hazardous incident. Carl Allen was the DEP investigator. According to the Phase I/Phase II report by LEAG and by the UST Assessment report by County Environmental Engineering (CEE), petroleum odors were reported from the Maine Mutual Insurance Company (551 Main Street). No action was taken.

1-143-88 - On August 31, 1988, strong fuel odors were reported at the Maine Mutual building. It was assumed the fumes were coming from the basement sump. Frank Wezner was the DEP investigator.

The DEP recommended sealing off the lid to the sump completely and all openings to the drain system under the building. They also recommended venting the sump to the outside.

1-077-98 - On March 31, 1998, fuel odors were reported in the office area of the Peoples Heritage Bank (551 Main Street, former Maine Mutual Insurance building). CEE was hired to do a Phase I and Phase II Environmental Site Assessment in the area. Delmont Wood and Sons was hired to install a sump pump. A high volume ventilation fan was also installed in the basement to control vapors.

An update to this Incident Report dated January 23, 2003 states that a culvert that handles the water from the site has 100 ppb DRO discharging to the Presque Isle Stream.

One Incident Report associated with 560 Main Street (the former Metlife building) is summarized below.

I-119-98 - Free product and contaminated soil and bedrock were encountered during removal of a UST at the former Metlife building (560 Main Street). Carl Allen was the DEP investigator. Contaminated soil was removed, but free product remained in the bedrock. It was concluded that this source was not impacting 551 Main Street (Peoples Heritage Bank). Five shallow monitoring wells and seven to eight borings were proposed for this site. Another five wells and ten borings were proposed for other properties in the area. Additional information about this incident is provided in the Metropolitan Life Insurance UST Removal section.

One Incident Report is associated with 581 Main Street (Hoffses Auto Sales). Seven Incident Reports are associated with 580 Main Street (Dead River Company). Several other Incident Reports are listed for Main Street, but the spill locations could not be determined by the information provided in the Incident Reports master list.

In 2007, The Maine Department of Environmental Protection Bureau of Waste Management Division of Technical Services hired Fessenden Geo-Environmental Services (Fessenden) to completed a workplan (February 19, 2007) for an investigation of petroleum-impacted soil and groundwater in the 500 block area of Main Street. As part of this workplan, Fessenden provided two figures summarizing the results of field screening (PID) and analytical results petroleum in groundwater and soil from previous investigations, as well as a groundwater elevation contour map. The direction of groundwater flow was reported to be northwest, obliquely across Main Street. Highest concentrations of petroleum in groundwater and soil were reported downgradient of the former Patten's Mobil.

Based on the relatively high PID results obtained during the past investigations and free product observed, it is likely that soil vapors at the site include petroleum constituents (benzene, toluene, ethylbenzene, xylenes), other petroleum fractions and potentially other Volatile Organic Compounds (VOCs).

Chemicals of Potential Concern (COPCs)

The primary chemical of potential concern is gasoline and its associated volatile petroleum constituents (primarily benzene and ethyl benzene, and to a lesser extent toluene, xylenes and other VOCs). Chemical properties relating to vapor migration and mobility in soil vapor and groundwater are summarized below:

Benzene

- Maine Soil Gas Target Concentration = 15 ug/m³
- vapor pressure = 95 mm
- Henry's law constant = 5.6 x 10⁻³ atm-m³/mol
- solubility = 1750 mg/liter
- specific gravity = 0.88

The solubility of this and other gasoline constituents (benzene = 1750 mg/liter, ethyl benzene = 100 mg/liter) indicate a tendency for these constituents to dissolve into and migrate with groundwater. However, significant concentrations of Volatile Petroleum Hydrocarbons (VPH) in soils are common at Maine UST release sites. Paved sites with sandy soils with residual petroleum impacts in relatively shallow ground water (6-8 feet bgs), a relatively thin unsaturated overburden (about 8-9 feet) suggests a low potential for attenuation.

Subsurface Exposure Pathway

The paved areas of the site (elevation 450+ feet above mean sea level) are relatively flat, dropping down to the Presque Isle Stream about 400 feet southwest of the site (the River elevation is estimated at 425 feet msl). Maine Geologic Survey has mapped Glacial Till deposits consisting of sand, silt, and gravel beneath the Site. Previous investigations completed on the Site by Fessenden and LAEG indicated sand and gravel fill to bedrock ranging from 10 to 12 feet bgs. The depth to groundwater ranges from 6 to 8 feet bgs on the property. Subsurface conditions encountered in borings completed during this VI investigation are consistent with previous interpretations.

Petroleum products released on the ground or in subsurface soil (via leaking USTs or piping) will infiltrate through permeable fill to underlying ground water. Subsequently, petroleum impacts will migrate in ground water to hydraulically downgradient locations. Vapor migration will be in response to pressure gradient and along permeable pathways such as subsurface utility corridors, foundation drains or other subsurface permeable pathways.

With potential source areas of contamination on both properties, understanding groundwater flow directions on site will be important for assessing migration of dissolved (and separate phase if any) petroleum in the groundwater (or on the water table) as it moves beneath the Site building.

Subsurface public utilities include water and sewer service to both the Childs Development Services building and the Buy, Swap and Trade Publications building.

Existing Data

Data provided by the MEDEP regarding the past investigations conducted on the property indicate that free product had been observed in at least one on-site monitoring well (referenced as MW-1 in this report), located east of the former Metlife building.

Environmental

Previous investigations have identified the property to the south, the former Patten's Mobil station, as the assumed source of the on-site contamination.

Receptors

The primary receptors of vapor intrusion from petroleum sources at the site are the workers and customers at the Site buildings and at the commercial properties to the north and west.

3.0 METHODOLOGY

Two one-day Geoprobe investigations were completed at the Child Development Services (former Metlife) property (November 12, 2010) and the Buy, Swap and Trade (former Patten's Mobil) property (November 23, 2010). Investigations included field screening, sampling of soils and soil vapor and groundwater sampling and analyses. A stepped approach was developed by MEDEP to guide the number and location of samples based on whether contamination was present at the suspected source area. Two (2) subsurface vapor samples were collected from the existing building on the Buy, Swap and Trade property. Sample locations are shown on Figure 2 and are summarized as follows:

Source Areas

Based on the history of the Site, it was considered likely that there was some residual petroleum in soils below the former USTs and fuel island at the former Patten's Mobil as a result of historic spills and/or releases at the Site. Soil contamination subsequently migrated to the bedrock surface and/or ground water.

Migration, Attenuation and Preferential Pathways

Petroleum migration and vapor intrusion have historically been issues at the Site, as well as in other nearby buildings. The objectives of this investigation are as follows:

- Assess residual soil and groundwater contamination on the Site.
- Characterize the vertical and horizontal attenuation of soil vapor contaminants of concern (COCs).
- Characterize the relationships between contaminant concentrations in soil vapor, groundwater and soil.
- Assess the on-site soil vapor pathways (i.e. subslab, utility trenches) to identify potential on-site and off-site receptors.

To assess these issues, seventeen (17) Geoprobe borings and two (2) hand-auger borings were advanced to characterize the soils / groundwater / soil vapor at the Site. Additionally, two (2) subslab samples were collected from the former Patten's Mobil building. Soils information was not collected for the (2) hand-auger borings. Several borings were completed for soil/contaminant characterization only, as outlined below. Monitoring well (MW-1) is a preexisting monitoring point on-site; all other monitoring wells reference in this report were installed as part of this investigation. At locations where monitoring wells and vapor probes are both present, they were each installed in separate adjacent boreholes that are accessed through a shared roadbox. The borings completed and soil vapor / groundwater monitoring equipment installed as part of this investigation are as follows:

- Geoprobe borings (SS-1, SS-2, SS-3, B-104, B-105, B-106, B-107, B-108) were completed for soil classification and characterization of petroleum-impacted soils, if encountered. No soil vapor probes or monitoring wells were installed in these borings.
- Geoprobe boring (SV-1) contains soil vapor probe (SV-1). This boring was located as close as possible to a preexisting monitoring well (MW-1). MW-1 was sampled as part of this investigation.
- Geoprobe boring (SV-2) contains soil vapor probe (SV-2) and monitoring well (MW-2). MW-2 could not be sampled due to a lack of water.
- Geoprobe boring (SV-3) contains soil vapor probe (SV-3).
- Geoprobe boring (SV-4) contains soil vapor probe (SV-4).
- Geoprobe boring (SV-5) contains soil vapor probe (SV-5) and monitoring well (MW-5).
- Hand-auger boring (SV-6) contains soil vapor probe (SV-6).
- Hand-auger boring (SV-7) contains soil vapor probe (SV-7).

- Geoprobe boring (SV-8) contains two (2) soil vapor probes installed at 4 ft (SV-8-4) and 6 ft (SV-8-6) below the ground surface and monitoring well (MW-8).
- Geoprobe boring (SV-101) contains soil vapor probe (SV-101) and monitoring well (MW-101).
- Geoprobe boring (SV-102) contains two (2) soil vapor probes installed at 4 ft and 7.5 ft below the ground surface and monitoring well (MW-102).
- Geoprobe boring (SV-103) contains soil vapor probe (SV-103).
- Two (2) subslab vapor probe (SV-104, SV-105) samples were collected from the building located on the former Pattens Mobil property.

Table 1 summarizes the types of analytical data collected at each of the borings with a soil vapor probe(s).

TABLE 1: SUMMARY OF SAMPLING LOCATIONS AND PARAMETERS

Boring ID	SV-1	SV-2	SV-3	SV-4	SV-5	SV-6	SV-7	SV-8	SV-101	SV-102	SV-103	SV-104	SV-105
Date	11/12	11/12	11/12	11/12	11/12	11/12	11/12	11/12	11/23	11/23	11/23	11/23	11/23
Soil "	7-8 ft bgs				8-11 ft bgs			8-9 ft bgs	0-2 ft & 10-11 ft bgs	0-2 ft bgs	5 ft bgs		
Ground Water	MW-1				MW-5			MW-8	MW-101	MW-102			
Vapor "	6 ft bgs	6 ft bgs	5 ft bgs	4.5 ft bgs	7 ft bgs	1.5 ft bgs	1.5 ft bgs	4 ft & 6 ft bgs	5 ft bgs	4 ft & 7.5 ft bgs	5 ft bgs	1 ft bss	1 ft bss
Vapor Sample Purpose [^]	S,NS	LA	NS	NS,LA	NS,LA	P,LA	P,LA	VA,NS	NS,LA	VA,LA,NS	NS,LA	SS	SS

[^] Purpose: S=source, SS=subslab, NS=near slab, LA = lateral attenuation, VA = vertical attenuation, P=preferential pathway

" bgs = below the ground surface ; bss = below the slab surface

Soil

Geoprobe borings were advanced using a four-foot sampling tube with dedicated disposable acetate sampling sleeves. Refusal was encountered at depths ranging from 4 feet bgs at SS-1 to 12.5 feet bgs at B-107. Soil boring logs are provided in Appendix A.

Soil samples were collected continuously, logged for geologic classification and screened with a *MiniRae 3000*[®] field-portable PID equipped with a 10.6 eV probe, calibrated with 100 ppm isobutylene and recording uncorrected results.

Table 2 is a summary of the fifteen (15) soil samples and one (1) duplicate that were collected from Geoprobe borings and submitted to Maine Environmental Laboratory/Analytics Environmental Laboratory (MEL/AEL) for Massachusetts Department of Environmental Protection (MADEP) Volatile Petroleum Hydrocarbon (VPH) analysis. Soil samples were selected

for laboratory analysis based on PID responses, odor indications, visual evidence of petroleum impact (stains, discoloration), or to coincide with sampling of other impacted media (i.e., vapor, groundwater).

Groundwater

As shown on Figure 2, five monitoring wells were installed in borings where groundwater was encountered (MW-2 (dry), MW-5, MW-8, MW-101 and MW-102). Wells were constructed of 1 inch PVC screen and riser to allow ground water sampling and to provide depth to groundwater data. Groundwater samples were collected with a peristaltic pump using low-flow sampling procedures. Groundwater samples from monitoring wells MW-101 and MW-102 were submitted to MEL/AEL for VPH analyses. Ground water samples from monitoring wells MW-1 (preexisting), MW-5, and MW-8 were submitted to MEL/AEL for VPH and VOC analysis. Well completion logs for MW-2, MW-5, MW-8, MW-101 and MW-102 are included in Appendix A.

Soil Vapor

Soil vapor sampling probes were installed consistent with methods described in the current MEDEP SOPs for Collecting Soil Gas Samples.

Soil vapor probes were supplied by Geoprobe and consisted of ½ inch x 6 inch double woven stainless steel wire screens with 0.0057 inch slots connected to ¼ inch Teflon tubing. They were installed as follows:

- Soil vapor probes (SV-6, SV-7) were set in hand auger borings 1.5 feet below the ground surface (bgs) adjacent/within a sewer utility trench that crosses the property line between the two properties. The purpose of these vapor probes was to assess this potential preferential pathway (granular backfill) and the horizontal attenuation of soil vapor along the length of the trench.
- Soil vapor probes (SV-1, SV-2, SV-3, SV-4, SV-5, SV-103) were set in Geoprobe borings at approximately 2 feet above the water table to assess the distribution of soil vapor concentration and the relationship to VPH concentrations in soil and/or groundwater from historic spills or releases.
- Shallow and deep soil vapor probes (SV-8) were set in a Geoprobe boring at 4 and 6 feet bgs to assess the vertical attenuation of soil vapor concentrations and the relationship to VPH concentrations in soil and groundwater (MW-8).
- Shallow and deep soil vapor probes (SV-102) were set in a Geoprobe boring at 4 and 7.5 feet bgs to assess the vertical attenuation of soil vapor concentrations and the relationship to VPH concentrations in soil and groundwater (MW-101).
- Subslab vapor probe (SV-104) was set one foot below the slab surface by drilling a hole in the floor slab of the utility closet in the northwestern corner of the building and installing a probe and Teflon tubing and sealing the tubing in the hole.
- Subslab vapor probe (SV-105) was set one foot below the slab surface by drilling a hole in the floor slab of the printing room in the northeastern portion of the building and installing a probe and Teflon tubing and sealing the tubing in the hole.

Field screening of soil gas extracted with a peristaltic pump was performed with a CO₂/O₂ meter to ensure that atmospheric concentrations of CO₂ were not present and that the soil gas

samples were representative of soil vapor. Soil vapor samples were collected in 30 minute Summa canisters and submitted to Alpha Analytical for analyses by the MADEP Air Petroleum Hydrocarbon (APH) method for petroleum parameters and by TO-15 for Volatile Organic Compounds (VOCs). All soil vapor samples were analyzed for APH, and samples collected at SV-1 to SV-8 were also analyzed for TO-15. Canisters typically started at 27 to 30 inches (of mercury) vacuum and finished at 1 to 5 inches of vacuum. Soil vapor probe construction and sampling information are provided on Field Data Sheets in Appendix B.

Receptors

Potential receptors of petroleum vapors at the site include customers and workers at the buildings on both properties and building occupants on adjacent commercial and residential properties surrounding the Site. In addition, Public Works and/or Department of Transportation (DOT) workers who may conduct utility or roadway excavations adjacent to the Site may be potential receptors of petroleum vapors.

4.0 RESULTS

Results of field and laboratory analyses are provided in Table 1 (Groundwater Summary), Table 2 (Soil Summary), Table 3 (Soil Vapor Summary) and Table 4 (Summary of Soil Vapor Detections) prepared from MEDEPs EGAD database providing a comprehensive tabulation of analytes, results, detection limits and data qualifiers.

4.1 QUALITY ASSURANCE

A comparison of post sample field and laboratory measurements of carbon dioxide and oxygen at soil vapor probes indicate the following (see Table 3):

- Field measurements of carbon dioxide ranged from 0.1% to greater than 5% (the upper range of the instrument), while lab results ranged from less than 0.162 to 10.2%. Field measurements ranged from 1.72 to 1.06 times higher than lab results.
- Field measurements of oxygen ranged from 1.5% to 20.8%, while lab results ranged from 1.55% to 19.8%. Field measurements ranged from 1.12 times higher to 0.82 of lab results.

A comparison of post sample (0.23 to greater than 5%) to ambient (0.07 to 0.19%) carbon dioxide measurements at soil vapor probes (except SV-104, SV-105, SV-6 and SV-7) indicates field evidence of a good seal.

Based on low post sample carbon dioxide (field and lab result) and somewhat elevated oxygen results, it appears that there may be been some leakage at the soil vapor probes for the sub-slab samples (SV-104 and SV-105) and the shallow utility trench samples (SV-6 and SV-7). The presence of APH well above statewide outside ambient average in SV-6, SV-7 and SV-104 suggest that the data is generally representative of soil vapor. However, the presence of very low concentrations of APH in SV-105 compared to the high concentrations of APH in SV-104 suggests that sample SV-105 was significantly diluted by indoor air. It should be noted that the floor slab contained several cracks that may provide pathways for ambient air to be drawn into the SV-105 sample. Alternatively, the seal between the drilled hole and Teflon sample tubing may have been compromised.

VPH results from duplicate soil samples collected at SV-5 show good consistency, indicating accurate and reproducible lab results.

Samples from the Child Development Services property were delivered to MEL on November 16, 2010. All samples were delivered within the applicable holding times and within the specified temperature range. Summit obtained sample results from MEL on November 29, 2010. Included in the sample results package was a copy of QA data. Summit shipped the Child Development Services property soil gas samples to Alpha Analytical on November 13, 2010 and received confirmation of their delivery on November 16, 2010 (within holding time). Summit obtained analytical results from Alpha on November 30, 2010. The labs did not indicate interferences or problems had occurred in the analytical stages or handling of the samples.

Samples from the Buy, Swap and Trade property were delivered to MEL on November 29, 2010. All samples were delivered within the applicable holding times and within the specified temperature range. Summit obtained sample results from MEL on December 9, 2010. Included in the sample results package was a copy of QA data. Summit shipped the Buy, Swap and Trade property soil gas samples to Alpha Analytical on November 26, 2010 and received confirmation of their delivery on November 29, 2010 (within holding time). Summit obtained analytical results from Alpha on December 13, 2010. The labs did not indicate interferences or problems had occurred in the analytical stages or handling of the samples.

4.2 SOURCE AREA SOIL

Surficial geology at the Site consisted of asphalt and/or topsoil underlain by silty gravel to sand and gravel fill above weather bedrock or silty gravel to sand and gravel fill underlain by a thin dense silty till above weathered bedrock. On the Child Development Services property the depth to refusal on bedrock or dense till ranged from 4 to 11 feet bgs. On the Buy, Swap and Trade property the depth to refusal on bedrock or dense till ranged from 9 to 12.5 feet bgs. The depth to the water table ranged from approximately 8 to 9 feet bgs.

Indications of petroleum (odor and PID or shake test) in soil samples were observed at borings SS-3, SV-1, SV-5, SV-8, B-101, B-102, SV-103, B-104, B-105, B-106, B-107 and B-108. The highest PID (uncorrected) measurements and/or free product droplets within a shake test, were observed at B-104 (product droplets at 8-10.5 ft), B-105 (3,989 ppmv) and B-108 (1,830 ppmv). PID and shake test results are included on Soil Boring Logs in Appendix A.

The reported VPH concentrations in fifteen (15) soil samples and exceedances of Maine Remedial Action Guidelines (RAGs) for Petroleum contaminated Sites are summarized in Table 2. VPH hydrocarbon fractions ranged from non-detect (ND) in B-105 (0-2 ft) and B-106 to 1,564 mg/L in B-108. RAG exceedances of total xylene occurred in B-104 (0-2 ft) and B-108 (0-2 ft). No samples reported MTBE above laboratory detection limits.

4.3 GROUNDWATER

Results of groundwater sampling for VPH are presented in Table 2. Results indicate petroleum contamination in all wells. Based on a comparison of detected VPH concentrations to the Massachusetts Groundwater Standard-2 (Mass GW-2) exceedances occurred in wells MW-101, MW-102, MW-103, and MW-3A for specific compounds. Please refer to the table for further information.

4.4 SOIL VAPOR

Soil vapor detections are summarized in Table 4. Low to high levels of MADEP-APH were detected in all soil vapor probes. Low to high levels of MADEP-APH were detected in all soil vapor probes. Based on a comparison of detected concentrations to the Maine Commercial

Multi-Contaminant Chronic Soil Gas Target (G-1) in Table 4, exceedences occurred at all probes except SV-1, SV-104, (subslab) and SV-105 (subslab). Refer to the table for further information as to exceedences.

The conceptual site model identified two utility trenches as potential vapor migration pathways potentially affecting subslab soil vapor. The sewer line utility trench is situated approximately 40 feet down/cross gradient from the highest soil vapor concentrations on-site (SV-103). Attenuation of soil vapor target analytes from SV-103 to SV-7 range from 0.000056 for C5-C8 aliphatic hydrocarbons to 0.0058 for toluene. The water line trench crosses or is in close proximity to the former USTs and fuel dispenser canopy at the former Patten's Mobil and enters the building in proximity to SV-102. Attenuation of soil vapor target analytes from SV-103 to subslab sample SV-104 range from 0.000032 for C5-C8 aliphatic hydrocarbons to 0.0049 for C9-C12 aliphatic hydrocarbons.

Based the high attenuation factors reported between the source (SV-101, SV-103) and the receptors (SV-104, SV-7), utility trenches do not appear to be a significant vapor migration pathway. However, soil vapor concentrations in the utility trench samples, may have been diluted by ambient air and attenuation factors could be lower than those calculated based on the reported laboratory results. Due to a request by Child Development Services management, subslab vapor samples were not collected from the building and further evaluation of utility trench migration potential is limited.

Based on a recent literature summary published in *Soil and Sediment Contamination* (Evaluation of Vapor Attenuation at Petroleum Hydrocarbon sites: Consideration for Site Screening and Investigations; 19:724-745, 2010) provided by MEDEP, the potential for vapor intrusion impacts at this site appears to be moderate to high, based on residual petroleum impacts in relatively shallow ground water (8-9 feet bgs), a relatively thin unsaturated overburden (about 8-9 feet), the overall percentage of paved areas, granular fill soils and moderate to high soil vapor concentration at source areas.

5.0 CONCLUSIONS

5.1 HYDROGEOLOGIC INFLUENCES ON VAPOR MIGRATION

Soils

The permeable granular fill soils on-site and the limited unsaturated thickness (8-9 feet) likely allow for some vapor migration from two source areas:

1. The area immediately downgradient of the former pump island (SV-103) and likely the islands themselves, and
2. The area at and immediately downgradient of the former USTs on the former Patten Mobil property.
3. Soil impacts associated with a former fuel oil UST on the Child Development Services property do not appear to be a significant source for vapor migration due to the lack of fuel oil related impacts in Site borings, although the lack of subslab vapor samples in the building adjacent to the former UST location remains a data gap.

While the soils are well oxygenated as confirmed by both field and laboratory data, the relatively thin unsaturated zone limits the amount of biodegradation. The moderate to high petroleum concentrations in soil vapor indicate a source of petroleum remains at the site. The

result from this investigation indicates that there is residual soil contamination at the source (former location of Patten's Mobil USTs and fuel island) and to a lesser extent there is residual soil and groundwater contamination along Main Street west of the Child development Services building.

Groundwater

Petroleum constituents were detected in all monitoring wells, with the highest concentrations reported at MW-101, located downgradient of the former Patten's Mobil (product droplets were observed in a soil sample shake test at this location). High concentrations of VPH hydrocarbon fractions, benzene, ethylbenzene, total xylene and naphthalene were reported in the groundwater sample from MW-101. VPH hydrocarbon fractions in monitoring wells ranged from 10,560 ug/L in MW-101 to 237 ug/L in MW-1.

5.2 PETROLEUM DISTRIBUTION AND RELATIONSHIPS BETWEEN MEDIA

For SV-102 and SV-8 a factor of soil vapor vertical attenuation of target analytes is provided.

Based on a review of Table 4, the following observations are made:

- At SV-1/MW-1 contaminated soils are the most significant contributing factor to soil vapor concentrations. Indications of soil contamination were only observed at the base of the boring, which is consistent with the past soil removal in this area associated with a historic UST leak.
- At SV-103 contaminated soils are the most significant contributing factor to soil vapor concentrations. Groundwater was not encountered at this location. The relatively high ratio between the concentration of soil vapor and soil suggests that a portion of this vapor may be migrating from another location (i.e directly to the south).
- At SV-8/MW-8 contaminated soils are the most significant contributing factor to soil vapor concentrations.
- At SV-102/MW-102 soil vapor concentrations are significantly higher than groundwater and soil concentration, indicating that a significant portion of this vapor may be migrating from another portion of the site (i.e directly to the south).
- At SV-101/MW-101 contaminated soils are the most significant contributing factor to soil vapor concentrations. The occurrence of shallow and deep contaminated soils suggests that the primary source of the petroleum was a spill or release to soil in this area.
- The vertical attenuation of target analytes was measured at SV-102 and SV-8 using vapor probes separated vertically by 3.5 feet and 2 feet, respectively. At SV-102, vertical attenuation for analytes ranged from 0.94 for benzene to 0.083 for C9-C12 aliphatic hydrocarbons. At SV-8, the vertical attenuation analytes ranged from 0.94 for ethylbenzene to 0.097 for C5-C8 aliphatic hydrocarbons.
- For some parameters, petroleum was detected at high concentrations in both soil and groundwater, but was not detected in soil vapor suggesting variable biodegradation rates or localized subsurface conditions limiting vapor migration for specific analytes or fractions.

5.3 PREFERENTIAL PATHWAYS, OFFSITE MIGRATION AND RECEPTORS

The conceptual site model identified two utility trenches as potential vapor migration pathways affecting subslab vapors concentrations. The sewer line utility trench is situated approximately

40 feet down/across gradient from the highest soil vapor concentrations on-site (SV-103). Attenuation of soil vapor target analytes from SV-103 to SV-7 range from 0.000056 for C5-C8 aliphatic hydrocarbons to 0.0058 for toluene. The water line trench is situated within the former location of the Patten's Mobil fuel island. Attenuation of soil vapor target analytes from SV-103 to subslab sample SV-104 range from 0.000032 for C5-C8 aliphatic hydrocarbons to 0.0049 for C9-C12 aliphatic hydrocarbons. However, soil vapor concentrations in the utility trench samples, may have been diluted by ambient air and attenuation factors could be lower than those calculated based on the reported laboratory results.

Based the high attenuation factors reported between the source (SV-103) and the receptors (SV-104, SV-7), utility trenches do not appear to be a significant vapor migration pathway.

Offsite transport of impacted groundwater (and associated soil vapor) across Main Street appears likely given the high concentrations of petroleum impacted soil along Main Street and the significant topographic and hydraulic gradient to the west towards Presque Isle Stream.

Receptors at the Site are limited to customers and workers at the store. Abutting potential receptors include residences and/or commercial buildings on Main Street, which are located approximately 60 feet from the Site. In addition, Public Works and/or Department of Transportation (DOT) workers who may conduct utility or roadway excavations adjacent to the Site may be potential receptors of petroleum vapors.

5.4 CONCEPTUAL SITE MODEL CONFIRMATION AND UPDATE

The general Conceptual Model was verified during this investigation (i.e., relatively thin (8-10 feet thick) granular fill soil overlying bedrock with ground water being present at 8-10 feet bgs. However, data collected for this vapor intrusion investigation has allowed updating the Conceptual Model to exclude or limit the potential that two possible preferential pathways in utility backfill are significant migration pathways for vapor intrusion. Soil and groundwater contamination at the former Patten's Mobil property appears to be the primary source of the observed soil vapor distribution on both properties.

5.5 DATA GAPS AND RECOMMENDATIONS

Based on substantial soil vapor exceedences of Maine's G-1 soil gas targets (more than 3700x for C5-C8 aliphatic hydrocarbons and more than 2200x for benzene) and the presence of petroleum contaminated soil/groundwater along Main Street and at the Buy, Swap and Trade (former Patten's Mobil), we suggest that further soil/subslab vapor investigation should be conducted in buildings downgradient of the Site to assess vapor intrusion exposure to potential receptors. The following recommendations are offered for consideration:

1. Collect a second round of subslab vapor samples within the Buy, Swap and Trade building to determine if a subslab mitigation system is warranted.
2. Collect at least two subslab samples from the Child Development Services building to determine if impacts are present above vapor intrusion targets.
3. Conduct a subslab/soil vapor survey at properties down gradient of the Site (across Main Street).
4. Notify Presque Isle Public Works and Maine Department of Transportation (DOT) of potential petroleum vapors in soil under Main Street and along utility corridors adjacent to the Site.

Tables

**Table 2: Groundwater Samples Summary
Former Patten's Mobil, Presque Isle, Maine**

Method Parameter Sample Point	Sample Date	Depth	MADEP-VPH BENZENE			MADEP-VPH C5-C8 ALIPHATIC HYDROCARBONS			MADEP-VPH C9-C10 AROMATIC HYDROCARBONS			MADEP-VPH C9-C12 ALIPHATIC HYDROCARBONS			MADEP-VPH ETHYLBENZENE			MADEP-VPH M,P-XYLENE								
			Concentrat	Reporting I	Qualifier	Units	Concentration	Reporting I	Qualifier	Units	Concentrat	Reporting I	Qualifier	Units	Concentration	Reporting I	Qualifier	Units	Concentrat	Reporting I	Qualifier	Units				
MW-1	11/12/2010	8 FT		2	U	UG/L		50	U	UG/L	237	10	UG/L		50	U	UG/L	1	2	J	UG/L		4	U	UG/L	
MW-101	11/23/2010	9 FT	45	40		UG/L	3560	1000		UG/L	7000	200	UG/L		1000	U	UG/L	1010	40		UG/L	4090	80		UG/L	
MW-102	11/23/2010	9 FT	2	4	J	UG/L	261	100		UG/L	545	20	UG/L		100	U	UG/L	44	4		UG/L		8	U	UG/L	
MW-5	11/12/2010	9 FT		4	U	UG/L	513	100		UG/L	422	20	UG/L		100	U	UG/L	21	4		UG/L	8	8		UG/L	
MW-8	11/12/2010	7 FT	5	2		UG/L	151	50		UG/L	260	10	UG/L		50	U	UG/L	11	2		UG/L	72	4		UG/L	
CURRENT MAXIMUM EXPOSURE GUIDELINE MASSACHUSETTS GROUNDWATER STANDARD (GW-2)			4			UG/L	300			UG/L	200		UG/L	700		UG/L	30			UG/L	20000					
			2000			PPB	3000			PPB	7000		PPB	5000		PPB				PPB						

Method Parameter Sample Point	Sample Date	Depth	MADEP-VPH METHYL-TERT-BUTYL ETHER (MTBE)			MADEP-VPH NAPHTHALENE			MADEP-VPH O-XYLENE			MADEP-VPH TOLUENE			MADEP-VPH UNADJUSTED C5-C8 ALIPHATICS			MADEP-VPH UNADJUSTED C9-C12 ALIPHATICS								
			Concentrat	Reporting I	Qualifier	Units	Concentration	Reporting I	Qualifier	Units	Concentrat	Reporting I	Qualifier	Units	Concentration	Reporting I	Qualifier	Units	Concentrat	Reporting I	Qualifier	Units				
MW-1	11/12/2010	8 FT	1	2	J	UG/L	7	2		UG/L		2	U	UG/L		2	U	UG/L		50	U	UG/L	136	50		UG/L
MW-101	11/23/2010	9 FT		40	U	UG/L	579	40		UG/L	855	40	UG/L	90	40		UG/L	3700	1000		UG/L	5700	1000		UG/L	
MW-102	11/23/2010	9 FT	2	4	J	UG/L		4	U	UG/L	5	4		UG/L	4	4		UG/L	269	100		UG/L	335	100		UG/L
MW-5	11/12/2010	9 FT	4	4		UG/L		4	U	UG/L	5	4		UG/L	3	4	J	UG/L	521	100		UG/L	300	100		UG/L
MW-8	11/12/2010	7 FT	2	2		UG/L	8	2		UG/L	5	2		UG/L	3	2		UG/L	161	50		UG/L	168	50		UG/L
CURRENT MAXIMUM EXPOSURE GUIDELINE MASSACHUSETTS GROUNDWATER STANDARD (GW-2)			35			UG/L	10			UG/L				600		UG/L				UG/L						
			50000			PPB	1000			PPB				50000		PPB				PPB						

Note: Bold greater than Maine CDC MEGs
Italics above Massachusetts GW-2

Table 4
Summary of Soil Vapor Detections
Former Patten's Mobil, Presque Isle

SAMPLE POINT	DEPTH	FIELD		FIELD PID SOIL	MADEP-APH	MADEP-APH	MADEP-APH		MADEP-APH		MADEP-APH	MADEP-APH	MADEP-APH	MADEP-APH
		DIOXIDE	OXYGEN				CS-C8 ALIPHATIC	C9-C10 AROMATIC	C9-C12 ALIPHATIC	ETHYLBENZENE				
		%	%	PPM	UGM3	UGM3	UGM3	UGM3	UGM3	UGM3	UGM3	UGM3	UGM3	UGM3
Indoor Air Target - Comm Multi Chronic					0.41	1.6	180	44	180	4.9	88	0.36	4,400	
Soil Gas Target - Comm Multi Chronic					20	80	9,000	2,200	9,000	245	4,400	18	220,000	
Near Slab - ML														
SV-1	ambient	0.19	20.8											
SV-1	6 FT	1.32	19.3	0.5										
SV-1 -dup	6 FT	1.32	19.3	0.5		5.1	440	50	1,100	7.6	25.6		30	
SV-1 -dup	6 FT	1.46	19.6			4	440	35	1,600	8.7	26		24	
Near Slab - Pat														
SV-101	ambient	0.16	20.8											
SV-101	5 FT	5	14.5	4.5										
SV-101 -dup	5 FT	5	13.8				38,000	480	5,000	79	353			
SV-101 -dup	5 FT						40,000	640	6,600	110	476			
Near Slab - Pat														
SV-102	ambient	0.14	20.8											
SV-102	4 FT	3.65	10.9	0.9										
SV-102	4 FT	3.6	10.8			49	26,000	190	6,700	26	127		74	
SV-102	7.5 FT	5	5.8	44.2										
SV-102	7.5 FT	5	5.7			52	60,000	560	81,000	70	211		110	
Exc Worker														
SV-103	ambient	0.18	20.8											
SV-103	5 FT	5	1.5	1,140										
SV-103	5 FT	5	1.5			180,000	34,000,000	160,000	1,100,000	160,000	690,000		240,000	
Sub Slab - Pat														
SV-104	ambient	0.22	20.8											
SV-104	sub-slab	0.1	20.1	0										
SV-104	sub-slab	0.1	20.1			1,100		640	5,400	200	1,170	8	12	
Sub Slab - Pat														
SV-105	ambient	0.22	20.4											
SV-105	sub-slab	0.17	20.2	0										
SV-105	sub-slab	0.16	20.2			25			14					
Near Slab - Pat														
SV-2	ambient	0.19	20.8											
SV-2	6 FT	1.86	19.8	2.1										
SV-2	6 FT	2.05	19.6		7.4	6.2	7,500		230	27	90		43	
Near Slab - ML														
SV-3	ambient	0.17	20.8											
SV-3	5 FT	0.68	20.2	6										
SV-3	5 FT	0.8	20.1				35,000		990	28	121			
Near Slab - Pat														
SV-4	ambient	0.1	20.8											
SV-4	4.5 FT	0.24	20.8	0.6										
SV-4	4.5 FT	0.23	20.8			80	1,400		430				12	
Near Slab - ML														
SV-5	ambient	0.1	20.8											
SV-5	7 FT	0.55	20.8	172.5										
SV-5	7 FT	0.6	20.8				360,000		47,000					
Utility - ML														
SV-6	ambient	0.13	20.8											
SV-6	1.5 FT	0.2	20.8	0.5										
SV-6	1.5 FT	0.2	20.8			7.6	670	53	840	70	199		230	
Utility - ML														
SV-7	ambient	0.14	20.8											
SV-7	1.5 FT	0.18	20.8	2.3										
SV-7	1.5 FT	0.2	20.7			10	1,900	150	1,400	460	1,470		1,400	
Near Slab - ML														
SV-8	ambient	0.07	20.8											
SV-8	4 FT	0.26	20.8	1.2										
SV-8	4 FT	0.29	20.8		2	7.4	3,200	140	1,300	32	132	2.2	57	
SV-8	6 FT	0.3	20.8	11.2										
SV-8	6 FT	0.33	20.8			30	33,000	500	7,500	34	237		29	
MAINE Commercial MULTI-CONT. CHRONIC SOIL GAS TARGET					20	80	9,000	2,200	9,000	245	4,400	18	220,000	
EXCEEDANCE FACTOR (MAX CONC/TARGET SOIL GAS TARGET)					0.4	2250.0	3777.8	72.7	122.2	653.1	156.8	0.4	1.1	
Notes:														
1. Total Xylene = M,P-xylene + O-xylene														
2. No entry = parameter not detected														
3. Bold entrees exceed soil gas target concentration														
4. Exceedance Factor for highest concentration of target concentration														

Figures

Figure 1

Site Location Map

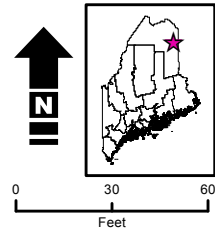
Figure 1: Site Location Map Maine Mutual Presque Isle, ME



- MONITORING WELL
- GEO-PROBE
- SOIL GAS SAMPLE
- SOIL BORING
- CATCH BASIN
- HYDRANT
- UTILITY POLE
- WATER VALVE
- SEWER LINE
- WATER LINE
- Roads

Map Notes:
 1) Sample locations, structure and utility features were collected using a Trimble ProXR GPS Unit or digitized from georeferenced DOQs. Wells have an accuracy of < 1 meter, all other features +/- 3 meters.
 2) Background hydrologic, topographic and political features are from Maine OGIS data layers with an accuracy of +/- 40 ft.
 3) All data is projected to NAD 1983 UTM Zone 19.
 4) All spatial data specific to Maine DEP Bureau of Remediation and Waste Management programs are post-processed, geo-referenced and maintained by John Lynam and Chris Halsted of the Maine DEP GIS Unit.
 5) This map is to be used for reference purposes only and does not represent authoritative locations of displayed features.

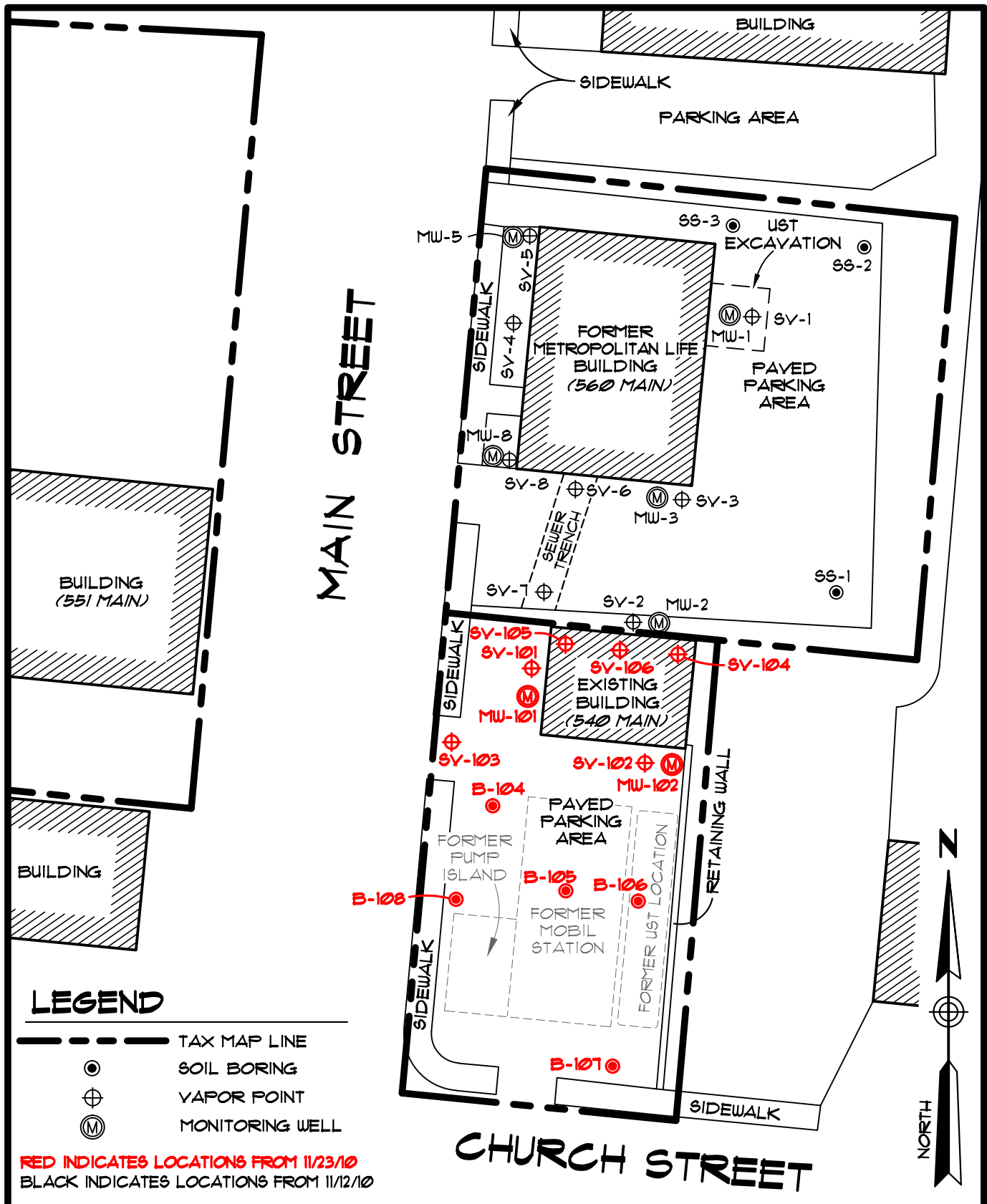
Map Prepared By: Chris Halsted
 MDEP GIS Unit, 12/17/10, 2/7/11



Second St

Figure 2

Sample Location Map



**FIGURE 2 - SITE SKETCH
PATTEN'S MOBIL**

MAIN STREET - PRESQUE ISLE, ME
PREPARED FOR
MAINE D.E.P.



DATE: FEB. 2012	DRAWN BY: KRF	CHECKED BY: JKC
JOB: 10-3110.1	SCALE: 1" = 40'	FILE: 10146 FIG2

640 MAIN ST.
LEWISTON, MAINE 04240

Tel.: (207) 795-6009
Fax: (207) 795-6128

Appendices

Appendix A

Boring Logs and Monitoring Well Installation Log

SUMMIT ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240				SOIL BORING LOG				Boring #: SS-1	
Project: Former Patten's Mobil and Met. Life.				Project #: 10-3310.3				Sheet:	
Location: 560 Main Street, Presque Isle, ME				Chkd by:					
Drilling Co: County Environmental				Boring Location:					
Personnel: Nate, Craig				Elevation:					
Summit Staff: JKC/MAD				Date started: 11/12/2010		Date Completed: 11/12/2010			
DRILLING METHOD		SAMPLER		ESTIMATED GROUND WATER DEPTH					
Vehicle: Geoprobe	Type: 4" Sleeve	Date	Depth	Reference	Groundwater Elevation				
Model: Truck	Hammer: NA			Ex. Grade					
Method: Dual Tube	Fall: NA			Top of PVC					
Depth (ft.)	SAMPLE DESCRIPTION				Stratum	Field Screening (ppmv)			
	No.	Pen/Rec (in)	Depth (ft)	Blows/6 in.					
2		48/36	0-4		Asphalt Brown silty gravel (fill)	0.2			
4									
6					Refusal @ 4.0 ft. (Ledge)				
8									
10									
12									
14									
16									
18									
20									
Granular Soils		Cohesive Soils		% Composition		NOTES: 1. Field screening results in parts per million by volume (ppmv). 2. All Samples screened with a Mini-Rae 3000 field portable PID.			
Blows/ft.	Density	Blows/ft.	Consistency						
0-4	V. Loose	<2	V. soft						
4-10	Loose	2-4	Soft	<5%				trace	
10-30	Compact	4-8	Firm	5-15	little				
30-50	Dense	8-15	Stiff	15-25	some				
>50	V. Dense	15-30	V. Stiff	>25	and				
		>30	Hard						

SUMMIT ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240				SOIL BORING LOG				Boring #: SS-2	
Project: Former Patten's Mobil and Met. Life.				Project #: 10-3310.3				Sheet:	
Location: 560 Main Street, Presque Isle, ME				Chkd by:					
Drilling Co: County Environmental				Boring Location: North of storage building					
Personnel: Nate, Craig				Elevation:					
Summit Staff: JKC/MAD				Date started: 11/12/2010		Date Completed: 11/12/2010			
DRILLING METHOD		SAMPLER		ESTIMATED GROUND WATER DEPTH					
Vehicle:	Geoprobe	Type:	4' Sleeve	Date	Depth	Reference	Groundwater Elevation		
Model:	Truck	Hammer:	NA			Ex. Grade			
Method:	Dual Tube	Fall:	NA			Top of PVC			
Depth (ft.)					SAMPLE DESCRIPTION		Stratum	Field Screening (ppmv)	
	No.	Pen/Rec (in)	Depth (ft)	Blows/6 in.					
2		48/40	0-4		Asphalt, 3 inches Olive/gray silty gravel (Fill) (dry)			0.1	
4		6/6			Refusal @ 4.5 ft. Ledge			1.2	
6									
8									
10									
12									
14									
16									
18									
20									
Granular Soils		Cohesive Soils		% Composition		NOTES: 1. Field screening results in parts per million by volume (ppmv). 2. All Samples screened with a Mini-Rae 3000 field portable PID.			
Blows/ft.	Density	Blows/ft.	Consistency						
0-4	V. Loose	<2	V. soft	<5%	trace				
4-10	Loose	2-4	Soft	5-15	little				
10-30	Compact	4-8	Firm	15-25	some				
30-50	Dense	8-15	Stiff	>25	and				
>50	V. Dense	15-30	V. Stiff						
		>30	Hard						

SUMMIT ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240				SOIL BORING LOG				Boring #: SS-3	
Project: Former Patten's Mobil and Met. Life.				Project #:		10-3310.3			
Location: 560 Main Street, Presque Isle, ME				Sheet:					
Drilling Co: County Environmental				Boring Location: North of storage building		Chkd by:			
Personnel: Nate, Craig				Elevation:					
Summit Staff: JKC/MAD				Date started: 11/12/2010		Date Completed: 11/12/2010			
DRILLING METHOD		SAMPLER		ESTIMATED GROUND WATER DEPTH					
Vehicle:	Geoprobe	Type:	4' Sleeve	Date	Depth	Reference	Groundwater Elevation		
Model:	Truck	Hammer:	NA			Ex. Grade			
Method:	Dual Tube	Fall:	NA			Top of PVC			
Depth (ft.)	No.	Pen/Rec (in)	Depth (ft)	Blows/6 in.	SAMPLE DESCRIPTION		Stratum	Field Screening (ppmv)	
2		48/40	0-4		Asphalt, 2 inches Brown silty gravel, fill (dry)			0.2	
4		36/30	4-7		Brown silty gravel Fill (slight petroleum odor)			12.5	
6					Refusal @ 7 ft.				
8					Ledge				
10					dye shake test > 2500 ppm (4-7 ft.) red meniscus				
12									
14									
16									
18									
20									
Granular Soils		Cohesive Soils		% Composition		NOTES: 1. Field screening results in parts per million by volume (ppmv). 2. All Samples screened with a Mini-Rae 3000 field portable PID. 3. Soil sample collected for VPH at 4-7 feet			
Blows/ft.	Density	Blows/ft.	Consistency						
0-4	V. Loose	<2	V. soft						
4-10	Loose	2-4	Soft	<5%	trace				
10-30	Compact	4-8	Firm	5-15	little				
30-50	Dense	8-15	Stiff	15-25	some				
>50	V. Dense	15-30	V. Stiff	>25	and				
		>30	Hard						

SUMMIT ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240				SOIL BORING LOG				Boring #: SV-1	
Project: Former Patten's Mobil and Met. Life.				Project #:		10-3310.3		Sheet:	
Location: 560 Main Street, Presque Isle, ME				Chkd by:					
Drilling Co: County Environmental				Boring Location: North of storage building					
Personnel: Nate, Craig				Elevation:					
Summit Staff: JKC/MAD				Date started: 11/12/2010		Date Completed: 11/12/2010			
DRILLING METHOD		SAMPLER		ESTIMATED GROUND WATER DEPTH					
Vehicle:	Geoprobe	Type:	4' Sleeve	Date	Depth	Reference	Groundwater Elevation		
Model:	Truck	Hammer:	NA			Ex. Grade			
Method:	Dual Tube	Fall:	NA			Top of PVC			
Depth (ft.)	No.	Pen/Rec (in)	Depth (ft)	Blows/6 in.	SAMPLE DESCRIPTION		Stratum	Field Screening (ppmv)	
		48/36	0-4		Asphalt, brown silty fill, rock fragments.			ND	
2									
4		36/48	4-8		Brown/gray fill, silty sand, rock fragments			14.3	
					Petroleum odor				
6									
8					Ledge @ 7.5 ft. plus or minus				
					Dye shake test on sample from 7-8 ft. below ground surface.				
10					Around 2,500 red dye meniscus				
12					Placed glass beads around probe, then sand, bentonite plug on top.				
14					(MW-1) will leave in existing monitoring well around 8.4 ft. to top of casing.				
16									
18									
20									
Granular Soils		Cohesive Soils		% Composition		NOTES:			
Blows/ft.	Density	Blows/ft.	Consistency			1. Field screening results in parts per million by volume (ppmv).			
0-4	V. Loose	<2	V. soft	<5%	trace	2. All Samples screened with a Mini-Rae 3000 field portable PID.			
4-10	Loose	2-4	Soft	5-15	little	3. Soil sample collected for VPH at 7-8 feet			
10-30	Compact	4-8	Firm	15-25	some				
30-50	Dense	8-15	Stiff	>25	and				
>50	V. Dense	15-30	V. Stiff						
		>30	Hard						

SUMMIT ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240				SOIL BORING LOG				Boring #: SV-2	
Project: Former Patten's Mobil and Met. Life.				Project #: 10-3310.3				Sheet:	
Location: 560 Main Street, Presque Isle, ME				Chkd by:					
Drilling Co: County Environmental				Boring Location: North of storage building					
Personnel: Nate, Craig				Elevation:					
Summit Staff: JKC/MAD				Date started: 11/12/2010		Date Completed: 11/12/2010			
DRILLING METHOD		SAMPLER		ESTIMATED GROUND WATER DEPTH					
Vehicle:	Geoprobe	Type:	4' Sleeve	Date	Depth	Reference	Groundwater Elevation		
Model:	Truck	Hammer:	NA			Ex. Grade			
Method:	Dual Tube	Fall:	NA			Top of PVC			
Depth (ft.)					SAMPLE DESCRIPTION	Stratum	Field Screening (ppmv)		
	No.	Pen/Rec (in)	Depth (ft)	Blows/6 in.					
2		48/40	0-4		Asphalt, 3 inches		0		
					6-12 inches gravel fill				
4					12-48 inches brown silt with sand seams, trace of gravel				
		36/36	4/7		Brown sand, silt, trace of gravel		0.2		
6					Moist (bottom 6 inches)				
					Refusal @ 7 ft.				
8					Ledge				
					Dye shake test Non-detect 4-7 ft.				
10					Well boring advance to 8.1 ft.				
					Set well (MW-2)				
12					Screen 8-3 ft.				
					Riser 0-3 ft.				
14					Sand pack around 2 ft., bentonite to surface.				
16									
18									
20									
Granular Soils		Cohesive Soils		% Composition		NOTES:			
Blows/ft.	Density	Blows/ft.	Consistency			1. Field screening results in parts per million by volume (ppmv).			
0-4	V. Loose	<2	V. soft	<5%	trace	2. All Samples screened with a Mini-Rae 3000 field portable PID.			
4-10	Loose	2-4	Soft	5-15	little				
10-30	Compact	4-8	Firm	15-25	some				
30-50	Dense	8-15	Stiff	>25	and				
>50	V. Dense	15-30	V. Stiff						
		>30	Hard						

SUMMIT					SOIL BORING LOG			Boring #: SV-3		
ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240					Project: Former Patten's Mobil and Met. Life.			Project #: 10-3310.3		
					Location: 560 Main Street, Presque Isle, ME			Sheet:		
Drilling Co: County Environmental					Boring Location: North of storage building					
Personnel: Nate, Craig					Elevation:					
Summit Staff: JKC/MAD					Date started: 11/12/2010		Date Completed: 11/12/2010			
DRILLING METHOD		SAMPLER			ESTIMATED GROUND WATER DEPTH					
Vehicle:	Geoprobe	Type:	4' Sleeve			Date	Depth	Reference	Groundwater Elevation	
Model:	Truck	Hammer:	NA					Ex. Grade		
Method:	Dual Tube	Fall:	NA					Top of PVC		
Depth (ft.)					SAMPLE DESCRIPTION			Stratum	Field Screening (ppmv)	
	No.	Pen/Rec (in)	Depth (ft)	Blows/6 in.						
2		48/24	0-4		Asphalt				0.1	
					Brown silty gravel (Fill)					
4		18/18	4-5.8		Brown silty gravel, trace fine sand (moist)				1.6	
6					Refusal @ 5.8 ft.					
					Set vapor probe @ 5 ft. below ground surface					
8										
10										
12										
14										
16										
18										
20										
Granular Soils		Cohesive Soils		% Composition		NOTES: 1. Field screening results in parts per million by volume (ppmv). 2. All Samples screened with a Mini-Rae 3000 field portable PID.				
Blows/ft.	Density	Blows/ft.	Consistency							
0-4	V. Loose	<2	V. soft	<5%	trace					
4-10	Loose	2-4	Soft	5-15	little					
10-30	Compact	4-8	Firm	15-25	some					
30-50	Dense	8-15	Stiff	>25	and					
>50	V. Dense	15-30	V. Stiff							
		>30	Hard							

SUMMIT ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240				SOIL BORING LOG				Boring #: SV-4		
Project: Former Patten's Mobil and Met. Life.				Project #:		10-3310.3				
Location: 560 Main Street, Presque Isle, ME				Sheet:						
Drilling Co: County Environmental				Boring Location: North of storage building		Chkd by:				
Personnel: Nate, Craig				Elevation:						
Summit Staff: JKC/MAD				Date started: 11/12/2010		Date Completed: 11/12/2010				
DRILLING METHOD		SAMPLER		ESTIMATED GROUND WATER DEPTH						
Vehicle:	Geoprobe	Type:	4' Sleeve	Date	Depth	Reference	Groundwater Elevation			
Model:	Truck	Hammer:	NA			Ex. Grade				
Method:	Dual Tube	Fall:	NA			Top of PVC				
Depth (ft.)					SAMPLE DESCRIPTION		Stratum	Field Screening (ppmv)		
	No.	Pen/Rec (in)	Depth (ft)	Blows/6 in.						
2		48/30	0-4		0-6 inches topsoil			4.2		
					Silty brown gravel					
4					4-4.5 feet, hard brown silt (till) refusal @ 4.5 ft.			2.7		
					Ledge or dense till					
6										
8										
10										
12										
14										
16										
18										
20										
Granular Soils		Cohesive Soils		Blows/ft.		Density		Consistency		NOTES: 1. Field screening results in parts per million by volume (ppmv). 2. All Samples screened with a Mini-Rae 3000 field portable PID.
Blows/ft.		Blows/ft.		Density		Consistency		% Composition		
0-4		V. Loose		<2		V. soft		<5% trace		
4-10		Loose		2-4		Soft		5-15 little		
10-30		Compact		4-8		Firm		15-25 some		
30-50		Dense		8-15		Stiff		>25 and		
>50		V. Dense		15-30		V. Stiff				
		>30		Hard						

SUMMIT ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240				SOIL BORING LOG				Boring #: SV-5	
Project: Former Patten's Mobil and Met. Life.				Project #: 10-3310.3				Sheet:	
Location: 560 Main Street, Presque Isle, ME				Chkd by:					
Drilling Co: County Environmental				Boring Location: North of storage building					
Personnel: Nate, Craig				Elevation:					
Summit Staff: JKC/MAD				Date started: 11/12/2010		Date Completed: 11/12/2010			
DRILLING METHOD		SAMPLER		ESTIMATED GROUND WATER DEPTH					
Vehicle:	Geoprobe	Type:	4' Sleeve	Date	Depth	Reference	Groundwater Elevation		
Model:	Truck	Hammer:	NA			Ex. Grade			
Method:	Dual Tube	Fall:	NA			Top of PVC			
Depth (ft.)	No.	Pen/Rec (in)	Depth (ft)	Blows/6 in.	SAMPLE DESCRIPTION		Stratum	Field Screening (ppmv)	
		48/36	0-4		0-6 inches Topsoil Brown to gray silty gravel (dry)			1.7	
2									
4		48/40	4-8		Grey olive silt with gravel/rock fragments (dry) Slight petroleum odor bottom 2 in.			1.8	
6									
8									
10		36/36	8-11		Hard silty brown till or weathered rock Rock fragments et around 9 feet. Strong petroleum odor.			250.0	
12					Refusal @ 11 feet				
14					Set well (MW-5) Screen 6-11 feet below ground surface Sand pack 4-11 feet Bentonite to surface.				
16									
18									
20									
Granular Soils		Cohesive Soils		% Composition		NOTES:			
Blows/ft.	Density	Blows/ft.	Consistency			1. Field screening results in parts per million by volume (ppmv).			
0-4	V. Loose	<2	V. soft	<5%	trace	2. All Samples screened with a Mini-Rae 3000 field portable PID.			
4-10	Loose	2-4	Soft	5-15	little	3. Soil sample collected for VPH at 8-11 feet			
10-30	Compact	4-8	Firm	15-25	some				
30-50	Dense	8-15	Stiff	>25	and				
>50	V. Dense	15-30	V. Stiff						
		>30	Hard						

SUMMIT ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240				SOIL BORING LOG			Boring #: SV-8	
Project: Former Patten's Mobil and Met. Life.				Project #: 10-3310.3		Sheet:		
Location: 560 Main Street, Presque Isle, ME				Chkd by:				
Drilling Co: County Environmental				Boring Location: North of storage building				
Personnel: Nate, Craig				Elevation:				
Summit Staff: JKC/MAD				Date started: 11/12/2010		Date Completed: 11/12/2010		
DRILLING METHOD		SAMPLER		ESTIMATED GROUND WATER DEPTH				
Vehicle:	Geoprobe	Type:	4' Sleeve	Date	Depth	Reference	Groundwater Elevation	
Model:	Truck	Hammer:	NA			Ex. Grade		
Method:	Dual Tube	Fall:	NA			Top of PVC		
Depth (ft.)	No.	Pen/Rec (in)	Depth (ft)	Blows/6 in.	SAMPLE DESCRIPTION		Stratum	Field Screening (ppmv)
		48/26	0-4		Asphalt, 2 inches 2-12 inches, grey silty gravel (fill)			0.2
2					12-48 inches, Brick fragment, brown silty gravel with rock fragments Refusal @ 5 feet, move 1 foot-refusal again Move 15 feet north.			
4		48/30	4-8		Olive/gray silt with rock fragments, weathered bedrock (hard), wet (bottom 6 in.)			13
6								
8			8-9		Weathered bedrock, gray (wet) Strong odor			276.0
10					Refusal @ 9 feet			
12					Set well (MW-8) Screen 9-4 feet below ground surface Riser to ground Sand pack to 3 feet Bentonite to surface			
14								
16					Dye shake test 1,000 - 2,500 ppm			
18					Tubing: Red Top = deep Black tape = shallow			
20								
Granular Soils		Cohesive Soils		% Composition		NOTES:		
Blows/ft.	Density	Blows/ft.	Consistency			1. Field screening results in parts per million by volume (ppmv).		
0-4	V. Loose	<2	V. soft	<5%	trace	2. All Samples screened with a Mini-Rae 3000 field portable PID.		
4-10	Loose	2-4	Soft	5-15	little			
10-30	Compact	4-8	Firm	15-25	some			
30-50	Dense	8-15	Stiff	>25	and			
>50	V. Dense	15-30	V. Stiff					
		>30	Hard					

SUMMIT ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240		WELL COMPLETION LOG		Well #:	MW-5
Project: VI Investigation		Project #:		10-3310	
Location: 560 Main Street Presque Isle, Maine		Sheet:		1 of 1	
Drilling Co: <u>County</u>		Well Location: Northwest corner of building		Chkd by: JKC	
Foreman: Nate Hersey		Date started: 11/12/2010		Date Completed: 11/12/2010	
Summit Staff: JKC/MAD					
		REFERENCE ELEVATIONS		GW ELEVATIONS	
		Surveyor: Summit		Date	Elevation
		Reference (MSL or TBM):		11/12/2010	90.47
		Top of Protective Casing:			
		Top of inner casing:			
		Ground Surface:			
		WELL CONSTRUCTION DETAILS			
		PROTECTIVE CASING			
		Type (Standpipe or roadbox): <u>roadbox</u>			
		Diameter (in.): <u>4.0</u>			
		Length (in.): <u>8.0</u>			
		Concrete Seal (gal): <u>1</u>			
		WELL CASING AND SCREEN			
			Riser	Screen	
		Material:	PVC	PVC	
		Schedule:	40	40	
		Diameter (in.):	1.0	1.0	
		Length (ft):	6.0	5.0	
		Interval below ground surface (ft):	0-6	6-11	
		Slot size (in.):	0.1		
		FILTER AND SEAL MATERIALS			
			Filter	Seal	
		Type:	sand	bentonite	
		Size:			
		Quantity (lbs.):			
		Interval below ground surface (ft):	0-1, 2-11	1-2	
		GROUT			
		Type (filter sand, bentonite, etc.): _____			
		Quantity (gal. or lbs.): _____			
		Interval below ground surface (ft.): _____			
		WELL DEVELOPMENT DETAILS			
		Water level from measuring point (ft): <u>7</u>			
		Depth of well from measuring point (ft): <u>11</u>			
		Total feet of water: <u>4.00</u>			
		Volume of water (gal): <u>0.512</u>			
		Volume of water evacuated: <u>1 gallon</u>			
		Method of development: <u>peristaltic pump</u>			
<p>Depth (ft.)</p> <p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> <p>8</p> <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>13</p> <p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p>		<p>Stratum from soil boring log</p> <p>SILTY GRAVEL</p> <p>SILT with GRAVEL</p> <p>SILTY TILL</p> <p>ROCK</p> <p>Refusal @ 11'</p>		<p>Flush-mounted Roadbox</p> <p>Filter Sand</p> <p>Bentonite</p> <p>Filter Sand</p>	
NOTES:					

SUMMIT ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240		WELL COMPLETION LOG		Well #:	MW-8																					
Drilling Co: <u>County</u>		Project: <u>VI Investigation</u>		Project #:	10-3310																					
Foreman: <u>Nate</u>		Location: <u>560 Main Street</u>		Sheet:	1 of 1																					
Summit Staff: <u>JKC/MAD</u>		<u>Presque Isle, Maine</u>		Chkd by:	JKC																					
Well Location: <u>Southwest corner of building</u>		Date started: <u>11/12/2010</u> Date Completed: <u>11/12/2010</u>																								
		REFERENCE ELEVATIONS Surveyor: <u>Summit</u> Reference (MSL or TBM): _____ Top of Protective Casing: _____ Top of inner casing: _____ Ground Surface: _____		GW ELEVATIONS Date: <u>11/12/2010</u> Elevation: <u>92.1</u>																						
		WELL CONSTRUCTION DETAILS																								
		PROTECTIVE CASING Type (Standpipe or roadbox): <u>roadbox</u> Diameter (in.): <u>4.0</u> Length (in.): <u>8.0</u> Concrete Seal (gal): <u>1</u>																								
		WELL CASING AND SCREEN <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Riser</th> <th>Screen</th> </tr> </thead> <tbody> <tr> <td>Material:</td> <td><u>PVC</u></td> <td><u>PVC</u></td> </tr> <tr> <td>Schedule:</td> <td><u>40</u></td> <td><u>40</u></td> </tr> <tr> <td>Diameter (in.):</td> <td><u>1.0</u></td> <td><u>1.0</u></td> </tr> <tr> <td>Length (ft):</td> <td><u>4.0</u></td> <td><u>5.0</u></td> </tr> <tr> <td>Interval below ground surface (ft):</td> <td><u>0-4</u></td> <td><u>4-9</u></td> </tr> <tr> <td>Slot size (in.):</td> <td></td> <td><u>0.1</u></td> </tr> </tbody> </table>					Riser	Screen	Material:	<u>PVC</u>	<u>PVC</u>	Schedule:	<u>40</u>	<u>40</u>	Diameter (in.):	<u>1.0</u>	<u>1.0</u>	Length (ft):	<u>4.0</u>	<u>5.0</u>	Interval below ground surface (ft):	<u>0-4</u>	<u>4-9</u>	Slot size (in.):		<u>0.1</u>
	Riser	Screen																								
Material:	<u>PVC</u>	<u>PVC</u>																								
Schedule:	<u>40</u>	<u>40</u>																								
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Interval below ground surface (ft):	<u>0-4</u>	<u>4-9</u>																								
Slot size (in.):		<u>0.1</u>																								
		FILTER AND SEAL MATERIALS <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Filter</th> <th>Seal</th> </tr> </thead> <tbody> <tr> <td>Type:</td> <td><u>sand</u></td> <td><u>bentonite</u></td> </tr> <tr> <td>Size:</td> <td></td> <td></td> </tr> <tr> <td>Quantity (lbs.):</td> <td></td> <td></td> </tr> <tr> <td>Interval below ground surface (ft):</td> <td><u>0-1, 2-9</u></td> <td><u>1-2</u></td> </tr> </tbody> </table>					Filter	Seal	Type:	<u>sand</u>	<u>bentonite</u>	Size:			Quantity (lbs.):			Interval below ground surface (ft):	<u>0-1, 2-9</u>	<u>1-2</u>						
	Filter	Seal																								
Type:	<u>sand</u>	<u>bentonite</u>																								
Size:																										
Quantity (lbs.):																										
Interval below ground surface (ft):	<u>0-1, 2-9</u>	<u>1-2</u>																								
		GROUT Type (filter sand, bentonite, etc.): _____ Quantity (gal. or lbs.): _____ Interval below ground surface (ft.): _____																								
		WELL DEVELOPMENT DETAILS																								
		Water level from measuring point (ft): <u>7</u> Depth of well from measuring point (ft): <u>11</u> Total feet of water: <u>4.00</u> Volume of water (gal): <u>0.512</u> Volume of water evacuated: <u>1 gallon</u> Method of development: <u>peristaltic pump</u>																								
NOTES:																										

SUMMIT ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240				SOIL BORING LOG				Boring #: SV-101	
Drilling Co: <u>County Environmental</u>				Project: <u>Former Patten's Mobil and Met. Life.</u>				Project #: <u>10-3322</u>	
Personnel: <u>Craig and Nate</u>				Location: <u>540 Main Street, Presque Isle, ME</u>				Sheet: <u>1 of 1</u>	
Summit Staff: <u>JKC</u>				Boring Location:				Chkd by: <u>JKC</u>	
Elevation:				Date started: <u>11/23/2010</u>				Date Completed: <u>11/23/2010</u>	
DRILLING METHOD		SAMPLER		ESTIMATED GROUND WATER DEPTH					
Vehicle:	<u>Geoprobe</u>	Type:	<u>4' Sleeve</u>	Date	Depth	Reference	Groundwater Elevation		
Model:	<u>Truck</u>	Hammer:	<u>NA</u>			<u>Ex. Grade</u>			
Method:	<u>Dual Tube</u>	Fall:	<u>NA</u>			<u>Top of PVC</u>			
Depth (ft.)	SAMPLE DESCRIPTION				Stratum	Field Screening (ppmv)			
	No.	Pen/Rec (in)	Depth (ft)	Blows/6 in.					
2		<u>48/36</u>	<u>0-4</u>		3" topsoil Brown to gray hard silt, some sand, gravel (Fill)	0.0 ppm			
4		<u>48/24</u>	<u>4-8</u>		Brown sand and gravel (fill) to brown silt with some sand, rock fragments (moist)	1.4 ppm			
6									
8		<u>48/36</u>	<u>8-12</u>		8-10 brown sand and gravel, some silt	1825 ppm			
10					10-11 gray silt with some gravel (Strong petro odor-wet)				
12					11-12 gray silt with rock fragments (weathered rock?)				
14					Set well (MW-101) screen 7-12 ft. Sand pack to 3 ft and bentonite to surface.				
16									
18									
20									
Granular Soils		Cohesive Soils		% Composition		NOTES: 1. Field screening results in parts per million by volume (ppmv). 2. All samples screened with a Mini-Rae 3000 field portable PID. 3. VPH samples collected 0-2 ft and 10-11 ft			
Blows/ft.	Density	Blows/ft.	Consistency						
0-4	V. Loose	<2	V. soft	<5%	trace				
4-10	Loose	2-4	Soft	5-15	little				
10-30	Compact	4-8	Firm	15-25	some				
30-50	Dense	8-15	Stiff	>25	and				
>50	V. Dense	15-30	V. Stiff						
		>30	Hard						

SUMMIT ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240				SOIL BORING LOG			Boring #:	SV-102
Drilling Co: County Environmental				Project: Former Patten's Mobil and Met. Life.			Project #:	10-3322
Personnel: Craig and Nate				Location: 540 Main Street, Presque Isle, ME			Sheet:	1 of 1
Summit Staff: JKC				Boring Location:			Chkd by:	JKC
Elevation:				Date started: 11/23/2010			Date Completed: 11/23/2010	
DRILLING METHOD		SAMPLER		ESTIMATED GROUND WATER DEPTH				
Vehicle:	Geoprobe	Type:	4' Sleeve	Date	Depth	Reference	Groundwater Elevation	
Model:	Truck	Hammer:	NA			Ex. Grade		
Method:	Dual Tube	Fall:	NA			Top of PVC		
Depth (ft.)	No.	Pen/Rec (in)	Depth (ft)	Blows/6 in.	SAMPLE DESCRIPTION	Stratum	Field	
							Screening (ppmv)	
2		48	0-4		0-6" topsoil 6-10" asphalt 1-4' brown sand, some silt with gravel (moist)		0.7 ppm	
4		48/24	4-8		Brown hard to dense sand and silt with rock fragments and gravel (till?)		0.0 ppm	
8		30/30	8-10.5		8-9' brown sand and gravel, trace silt (moist)		177.7 ppm	
10					9-10.5 gray silt with rock fragments, trace sand (wet) black staining			
12					Set well (MW-102) screen 5.5 - 10.5' Sand pack to 4' Bentonite to surface			
14								
16								
18								
20								
Granular Soils		Cohesive Soils		% Composition	NOTES: Water level approximately 9.8 ft. below top of concrete. Total depth of 11 ft. below top of concrete.			
Blows/ft.	Density	Blows/ft.	Consistency					
0-4	V. Loose	<2	V. soft		1. Field screening results in parts per million by volume (ppmv). 2. All samples screened with a Mini-Rae 3000 field portable PID. 3. VPH samples collected 0-2 ft			
4-10	Loose	2-4	Soft	<5% trace				
10-30	Compact	4-8	Firm	5-15 little				
30-50	Dense	8-15	Stiff	15-25 some				
>50	V. Dense	15-30	V. Stiff	>25 and				
		>30	Hard					

SUMMIT ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240				SOIL BORING LOG			Boring #:	SV-103
Project: Former Patten's Mobil and Met. Life.				Project #:		10-3322		
Location: 540 Main Street, Presque Isle, ME				Sheet:		1 of 1		
Drilling Co: County Environmental				Boring Location:		Chkd by: JKC		
Personnel: Craig and Nate				Elevation:				
Summit Staff: JKC				Date started: 11/23/2010		Date Completed: 11/23/2010		
DRILLING METHOD		SAMPLER		ESTIMATED GROUND WATER DEPTH				
Vehicle:	Geoprobe	Type:	4' Sleeve	Date	Depth	Reference	Groundwater Elevation	
Model:	Truck	Hammer:	NA			Ex. Grade		
Method:	Dual Tube	Fall:	NA			Top of PVC		
Depth (ft.)	No.	Pen/Rec (in)	Depth (ft)	Blows/6 in.	SAMPLE DESCRIPTION		Stratum	Field Screening (ppmv)
		48/48	0-4		0-2' Brown sand and gravel			
2					2-4' gray, silty gravel, some sand, slight petroleum odor			
4		12/12	4-5		4-5 gray silt and sand with gravel, slight petroleum odor			
6					Sand pack 3.2-5' Bentonite to surface			
8								
10								
12								
14								
16								
18								
20								
Granular Soils		Cohesive Soils		% Composition		NOTES:		
Blows/ft.	Density	Blows/ft.	Consistency			1. Field screening results in parts per million by volume (ppmv). 2. All samples screened with a Mini-Rae 3000 field portable PID.		
0-4	V. Loose	<2	V. soft					
4-10	Loose	2-4	Soft	<5%	trace			
10-30	Compact	4-8	Firm	5-15	little			
30-50	Dense	8-15	Stiff	15-25	some			
>50	V. Dense	15-30	V. Stiff	>25	and			
		>30	Hard					

SUMMIT ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240				SOIL BORING LOG				Boring #: B-104	
Project: Former Patten's Mobil and Met. Life.				Project #:		10-3322			
Location: 540 Main Street, Presque Isle, ME				Sheet:		1 of 1			
Drilling Co: County Environmental				Date started: 11/23/2010		Date Completed: 11/23/2010		Chkd by: JKC	
Personnel: Craig and Nate				Boring Location:		Elevation:			
Summit Staff: JKC				ESTIMATED GROUND WATER DEPTH					
DRILLING METHOD		SAMPLER		Date	Depth	Reference	Groundwater Elevation		
Vehicle: Geoprobe		Type: 4' Sleeve				Ex. Grade			
Model: Truck		Hammer: NA				Top of PVC			
Method: Dual Tube		Fall: NA							
Depth (ft.)	No.	Pen/Rec (in)	Depth (ft)	Blows/6 in.	SAMPLE DESCRIPTION		Stratum	Field Screening (ppmv)	
		48/36	0-4		0-6" Asphalt 6"-2' Brown sand and gravel (Fill)			5.8 ppm	
2					3-4' Gray, fine sand and silt (moist)				
4		48/18	4-8		Hard gray fine sand and silt, little gravel (moist) petroleum odor				
6									
8		30/18	8-10.5		Gray sand, some silt, trace gravel, petroleum sheen, strong odor, product droplets, bottom 18" wet				
10									
12									
14									
16									
18									
20									
Granular Soils		Cohesive Soils		% Composition		NOTES: 1. Field screening results in parts per million by volume (ppmv). 2. All samples screened with a Mini-Rae 3000 field portable PID. 3. VPH samples collected 0-2 ft and 8-10 ft			
Blows/ft.	Density	Blows/ft.	Consistency						
0-4	V. Loose	<2	V. soft	<5%	trace				
4-10	Loose	2-4	Soft	5-15	little				
10-30	Compact	4-8	Firm	15-25	some				
30-50	Dense	8-15	Stiff	>25	and				
>50	V. Dense	15-30	V. Stiff						
		>30	Hard						

SUMMIT				SOIL BORING LOG				Boring #: B-105			
ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240				Project: Former Patten's Mobil and Met. Life.		Project #: 10-3322					
				Location: 540 Main Street, Presque Isle, ME		Sheet: 1 of 1					
						Chkd by: JKC					
Drilling Co: County Environmental				Boring Location:							
Personnel: Craig and Nate				Elevation:							
Summit Staff: JKC				Date started: 11/23/2010		Date Completed: 11/23/2010					
DRILLING METHOD		SAMPLER		ESTIMATED GROUND WATER DEPTH							
Vehicle:	Geoprobe	Type:	4' Sleeve	Date	Depth	Reference	Groundwater Elevation				
Model:	Truck	Hammer:	NA			Ex. Grade					
Method:	Dual Tube	Fall:	NA			Top of PVC					
Depth (ft.)					SAMPLE DESCRIPTION		Stratum	Field Screening (ppmv)			
	No.	Pen/Rec (in)	Depth (ft)	Blows/6 in.							
		48/36	0-4		0-6" Asphalt Gray gravel, some silt, concrete, brick fragments wood debris @ 4.5' (Fill)			0.5 ppm			
2											
4		48/30	4-8		4-5' gray sand and gravel 2" seam black (coal ash?) 5-8' gray/black silt, sand, rock fragments, slight sheen (wet) strong petroleum odor			285.9 ppm			
6											
8		12/12	8-9		Gray silt with gravel, strong odor (wet)			3989 ppm			
10											
12											
14											
16											
18											
20											
Granular Soils		Cohesive Soils		% Composition		NOTES: 1. Field screening results in parts per million by volume (ppmv). 2. All samples screened with a Mini-Rae 3000 field portable PID. 3. VPH samples collected 0-2 ft and 8-8.5 ft					
Blows/ft.	Density	Blows/ft.	Consistency								
0-4	V. Loose	<2	V. soft	<5%	trace						
4-10	Loose	2-4	Soft	5-15	little						
10-30	Compact	4-8	Firm	15-25	some						
30-50	Dense	8-15	Stiff	>25	and						
>50	V. Dense	15-30	V. Stiff								
		>30	Hard								

SUMMIT ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240				SOIL BORING LOG				Boring #: B-106	
Drilling Co: County Environmental				Project: Former Patten's Mobil and Met. Life.				Project #: 10-3322	
Personnel: Craig and Nate				Location: 540 Main Street, Presque Isle, ME				Sheet: 1 of 1	
Summit Staff: JKC				Boring Location:				Chkd by: JKC	
Date started: 11/23/2010				Date Completed: 11/23/2010				Elevation:	
DRILLING METHOD		SAMPLER		ESTIMATED GROUND WATER DEPTH					
Vehicle:	Geoprobe	Type:	4' Sleeve	Date	Depth	Reference	Groundwater Elevation		
Model:	Truck	Hammer:	NA			Ex. Grade			
Method:	Dual Tube	Fall:	NA			Top of PVC			
Depth (ft.)	No.	Pen/Rec (in)	Depth (ft)	Blows/6 in.	SAMPLE DESCRIPTION		Stratum	Field Screening (ppmv)	
		48/42	0-4		0-6" asphalt, Silty brown gravel (Fill), little sand			0.0 ppm	
2									
4		48/24	4-8		Brown silty gravel (Fill), some sand, moist @ 7'			0.0 ppm	
6									
8		6/6			Brown, silty (Till?), some sand, rock fragments, petroleum odor			0.7 ppm 98.7 ppm	
10					Refusal @ 8.5 Gray bedrock (sandstone - limestone?)				
12									
14									
16									
18									
20									
Granular Soils		Cohesive Soils		% Composition		NOTES: 1. Field screening results in parts per million by volume (ppmv). 2. All samples screened with a Mini-Rae 3000 field portable PID. 3. VPH samples collected 0-2 ft			
Blows/ft.	Density	Blows/ft.	Consistency						
0-4	V. Loose	<2	V. soft	<5%	trace				
4-10	Loose	2-4	Soft	5-15	little				
10-30	Compact	4-8	Firm	15-25	some				
30-50	Dense	8-15	Stiff	>25	and				
>50	V. Dense	15-30	V. Stiff						
		>30	Hard						

SUMMIT				SOIL BORING LOG				Boring #: B-107	
ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240				Project: Former Patten's Mobil and Met. Life.		Project #: 10-3322		Sheet: 1 of 1	
				Location: 540 Main Street, Presque Isle, ME		Chkd by: JKC			
Drilling Co: County Environmental				Boring Location:					
Personnel: Craig and Nate				Elevation:					
Summit Staff: JKC				Date started: 11/23/2010		Date Completed: 11/23/2010			
DRILLING METHOD		SAMPLER		ESTIMATED GROUND WATER DEPTH					
Vehicle:	Geoprobe	Type:	4' Sleeve	Date	Depth	Reference	Groundwater Elevation		
Model:	Truck	Hammer:	NA			Ex. Grade			
Method:	Dual Tube	Fall:	NA			Top of PVC			
Depth (ft.)	No.	Pen/Rec (in)	Depth (ft)	Blows/6 in.	SAMPLE DESCRIPTION		Stratum	Field Screening (ppmv)	
		48/30	0-4		0-6" Asphalt Brown silt and sand (Fill) some gravel (dry)			0.5 ppm	
2									
4		48/48			4-5' Brown silt, trace gravel, trace sand (moist)			7.9 ppm	
					5-6' Gray rock fragments				
6									
					7-8' Brown hard silt with little sand, trace gravel (Till) iron staining				
8		48/30	8/12		8-10' Brown silt with some gravel, trace sand, rock fragments (till)			72.3 ppm	
10					10-12' Gray, firm silt with rock fragments, trace sand (slight petroleum odor)				
					Till (wet)				
12									
					Refusal @ 12.5'				
14									
16									
18									
20									
Granular Soils		Cohesive Soils		% Composition		NOTES: 1. Field screening results in parts per million by volume (ppmv). 2. All samples screened with a Mini-Rae 3000 field portable PID. 3. VPH samples collected 0-2 ft			
Blows/ft.	Density	Blows/ft.	Consistency						
0-4	V. Loose	<2	V. soft	<5%	trace				
4-10	Loose	2-4	Soft	5-15	little				
10-30	Compact	4-8	Firm	15-25	some				
30-50	Dense	8-15	Stiff	>25	and				
>50	V. Dense	15-30	V. Stiff						
		>30	Hard						

SUMMIT ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240				SOIL BORING LOG				Boring #: B-108	
Drilling Co: County Environmental				Project: Former Patten's Mobil and Met. Life.				Project #: 10-3322	
Personnel: Craig and Nate				Location: 540 Main Street, Presque Isle, ME				Sheet: 1 of 1	
Summit Staff: JKC				Boring Location:				Chkd by: JKC	
Elevation:				Date started: 11/23/2010				Date Completed: 11/23/2010	
DRILLING METHOD		SAMPLER		ESTIMATED GROUND WATER DEPTH					
Vehicle:	Geoprobe	Type:	4' Sleeve	Date	Depth	Reference	Groundwater Elevation		
Model:	Truck	Hammer:	NA			Ex. Grade			
Method:	Dual Tube	Fall:	NA			Top of PVC			
Depth (ft.)	No.	Pen/Rec (in)	Depth (ft)	Blows/6 in.	SAMPLE DESCRIPTION			Stratum	Field Screening (ppmv)
		48/36	0-4		0-6" Asphalt				43.4 ppm
2					1-3' Brown sand and silt with gravel (Fill) dry				
					3-4' Gray silt, little sand (no rocks) dry				
4		48/6	4-8		Gray sand and gravel (4") No recovery in remainder of tube				74.7 ppm
6									
8		18/18	8-9.5		Brown and gray silt, trace sand, rock fragments, Petroleum odor (wet)				1830 ppm
10									
12									
14									
16									
18									
20									
Granular Soils		Cohesive Soils		% Composition		NOTES:			
Blows/ft.	Density	Blows/ft.	Consistency						
0-4	V. Loose	<2	V. soft	<5%	trace	1. Field screening results in parts per million by volume (ppmv).			
4-10	Loose	2-4	Soft	5-15	little	2. All samples screened with a Mini-Rae 3000 field portable PID.			
10-30	Compact	4-8	Firm	15-25	some	3. VPH samples collected 0-2 ft			
30-50	Dense	8-15	Stiff	>25	and				
>50	V. Dense	15-30	V. Stiff						
		>30	Hard						

SUMMIT ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240		WELL COMPLETION LOG		Well #: MW-101
Drilling Co: <u>County</u>		Project: <u>VI Investigation</u>		Project #: <u>10-3322</u>
Foreman: <u>Nate Hersey</u>		Location: <u>540 Main Street</u> <u>Presque Isle, Maine</u>		Sheet: <u>1 of 1</u>
Summit Staff: <u>JKC/MAD</u>		Well Location: <u>South of Site Building</u>		Chkd by: <u>JKC</u>
		Date started: <u>11/23/2010</u>		Date Completed: <u>11/23/2010</u>
Depth (ft.)	Flush-mounted Roadbox	Stratum from soil boring log	REFERENCE ELEVATIONS	
			Surveyor: <u>Summit</u>	GW ELEVATIONS
			Reference (MSL or TBM): _____	Date: <u>11/23/2010</u>
			Top of Protective Casing: _____	Elevation: <u>10 bgs</u>
			Top of inner casing: _____	
			Ground Surface: _____	
WELL CONSTRUCTION DETAILS				
PROTECTIVE CASING				
Type (Standpipe or roadbox): <u>roadbox</u>				
Diameter (in.): <u>4.0</u>				
Length (in.): <u>8.0</u>				
Concrete Seal (gal): <u>1</u>				
WELL CASING AND SCREEN				
FILTER AND SEAL MATERIALS				
GROUT				
Type (filter sand, bentonite, etc.): _____				
Quantity (gal. or lbs.): _____				
Interval below ground surface (ft.): _____				
WELL DEVELOPMENT DETAILS				
Water level from measuring point (ft): <u>10</u>				
Depth of well from measuring point (ft): <u>12</u>				
Total feet of water: <u>2.00</u>				
Volume of water (gal): <u>0.256</u>				
Volume of water evacuated: <u>1 gallon</u>				
Method of development: <u>peristaltic pump</u>				

1	Bentonite	SILT (Fill)	
2			
3			
4			
5	Filter Sand	SAND and GRAVEL	
6			
7			
8			
9		SAND and GRAVEL some SILT	
10			
11		SILT some GRAVEL	
12		ROCK	
13	Refusal @ 12'		
14			
15			
16			
17			
18			
19			
20			

NOTES:

SUMMIT ENVIRONMENTAL CONSULTANTS, INC. 640 Main Street Lewiston, Maine 04240		WELL COMPLETION LOG		Well #:	MW-102																					
Drilling Co: <u>County</u>		Project: <u>VI Investigation</u>		Project #:	10-3322																					
Foreman: <u>Nate Hersey</u>		Location: <u>540 Main Street</u>		Sheet:	1 of 1																					
Summit Staff: <u>JKC/MAD</u>		<u>Presque Isle, Maine</u>		Chkd by:	JKC																					
Well Location: _____		Date started: <u>11/23/2010</u> Date Completed: <u>11/23/2010</u>																								
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">Depth (ft.)</div> </div>		REFERENCE ELEVATIONS		GW ELEVATIONS																						
		Surveyor: <u>Summit</u>		Date	Elevation																					
		Reference (MSL or TBM): _____		<u>11/23/2010</u>	<u>9.8 bgs</u>																					
		Top of Protective Casing: _____																								
		Top of inner casing: _____																								
		Ground Surface: _____																								
WELL CONSTRUCTION DETAILS																										
PROTECTIVE CASING																										
Type (Standpipe or roadbox): <u>roadbox</u>																										
Diameter (in.): <u>4.0</u>																										
Length (in.): <u>8.0</u>																										
Concrete Seal (gal): <u>1</u>																										
WELL CASING AND SCREEN																										
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Riser</th> <th style="text-align: center;">Screen</th> </tr> </thead> <tbody> <tr> <td>Material:</td> <td style="text-align: center;">PVC</td> <td style="text-align: center;">PVC</td> </tr> <tr> <td>Schedule:</td> <td style="text-align: center;">40</td> <td style="text-align: center;">40</td> </tr> <tr> <td>Diameter (in.):</td> <td style="text-align: center;">1.0</td> <td style="text-align: center;">1.0</td> </tr> <tr> <td>Length (ft.):</td> <td style="text-align: center;">5.5</td> <td style="text-align: center;">5.0</td> </tr> <tr> <td>Interval below ground surface (ft.):</td> <td style="text-align: center;">0-5.5</td> <td style="text-align: center;">5.5-10.5</td> </tr> <tr> <td>Slot size (in.):</td> <td colspan="2" style="text-align: center;">0.1</td> </tr> </tbody> </table>							Riser	Screen	Material:	PVC	PVC	Schedule:	40	40	Diameter (in.):	1.0	1.0	Length (ft.):	5.5	5.0	Interval below ground surface (ft.):	0-5.5	5.5-10.5	Slot size (in.):	0.1	
	Riser	Screen																								
Material:	PVC	PVC																								
Schedule:	40	40																								
Diameter (in.):	1.0	1.0																								
Length (ft.):	5.5	5.0																								
Interval below ground surface (ft.):	0-5.5	5.5-10.5																								
Slot size (in.):	0.1																									
FILTER AND SEAL MATERIALS																										
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Filter</th> <th style="text-align: center;">Seal</th> </tr> </thead> <tbody> <tr> <td>Type:</td> <td style="text-align: center;">sand</td> <td style="text-align: center;">bentonite</td> </tr> <tr> <td>Size:</td> <td colspan="2"></td> </tr> <tr> <td>Quantity (lbs.):</td> <td colspan="2"></td> </tr> <tr> <td>Interval below ground surface (ft.):</td> <td style="text-align: center;">0-1, 2-10.5</td> <td style="text-align: center;">1-2</td> </tr> </tbody> </table>							Filter	Seal	Type:	sand	bentonite	Size:			Quantity (lbs.):			Interval below ground surface (ft.):	0-1, 2-10.5	1-2						
	Filter	Seal																								
Type:	sand	bentonite																								
Size:																										
Quantity (lbs.):																										
Interval below ground surface (ft.):	0-1, 2-10.5	1-2																								
GROUT																										
Type (filter sand, bentonite, etc.): _____																										
Quantity (gal. or lbs.): _____																										
Interval below ground surface (ft.): _____																										
WELL DEVELOPMENT DETAILS																										
Water level from measuring point (ft): <u>9.8</u>																										
Depth of well from measuring point (ft): <u>10.5</u>																										
Total feet of water: <u>0.70</u>																										
Volume of water (gal): <u>0.090</u>																										
Volume of water evacuated: <u>1 gallon</u>																										
Method of development: <u>peristaltic pump</u>																										
WELL DEVELOPMENT DETAILS																										
Water level from measuring point (ft): <u>9.8</u>																										
Depth of well from measuring point (ft): <u>10.5</u>																										
Total feet of water: <u>0.70</u>																										
Volume of water (gal): <u>0.090</u>																										
Volume of water evacuated: <u>1 gallon</u>																										
Method of development: <u>peristaltic pump</u>																										
Refusal @ 10.5'																										
NOTES:																										

Appendix B

Field Data Sheets

**Soil Gas Sampling Field Sheet
Maine DEP**

Site Name:	MET LIFE	
Town:	P.I.	
Date:	11-12-10	
Sample I.D.:	SV-1 / SV-1A	
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)	
Sampling Personnel:	CRESSEY	
Project Manager:	SYPTIKOWSKI	
Collection Device:	(Summa Can) (Tedlar Bag)	
Sample Penetration Location:	(Ashphalt) (Concrete) (Soil)	
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)	
Sample Depth:	6'	
Depth to Water:	8'	
Suspected COCs:	(Petroleum) (Solvents)	
Cannister I.D.:	337	384
Flow Control I.D.:	0287	0014
Flow control rate:	71	67
O ₂ Ambient	20.8 %	
CO ₂ Ambient	0.17 %	
subsurface pressure/vacuum	(+/- inches of water column)	
Pre-Sample O ₂	19.3 %	
Pre-Sample CO ₂	1.32 %	
Pre-Sample PID:	0.5	
Pre-Sample CH ₄ :	— (% Volume, %LEL, PPM)	
Sample Initiation Time:	7:55	8:25
Initial Vacuum:	730	7-30
Sample End Time:	8:25	9:04
Final Vacuum:	-5	-5
Post Sample O ₂	19.6	
Post Sample CO ₂	1.46	

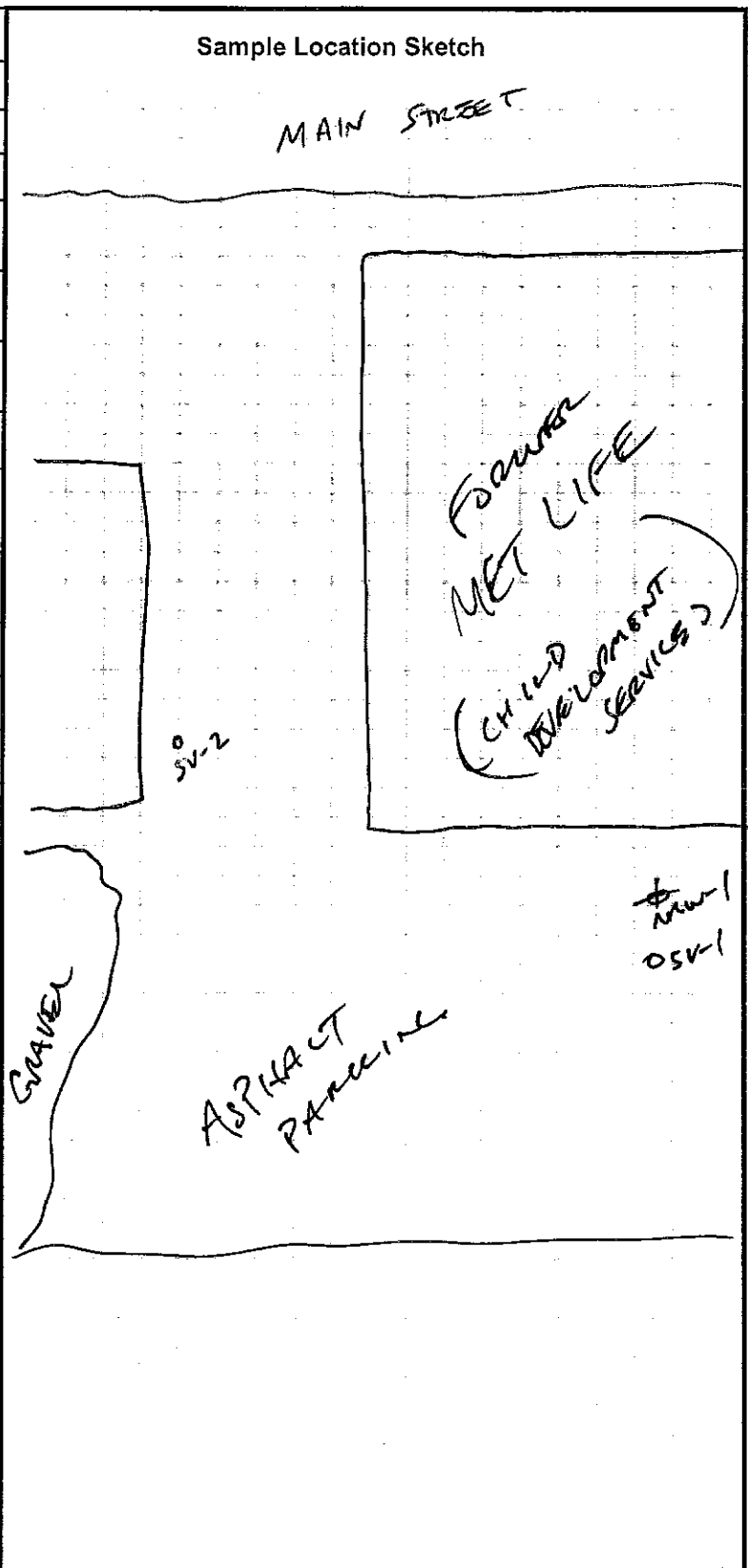
Sample Location Sketch

The sketch is drawn on a grid. It shows a large outer rectangle and a smaller inner rectangle. In the center of the grid, there is a circled 'X' with the handwritten text 'MW-1' next to it. Below this, the text 'SV-1' is written. The rectangles are drawn with solid black lines.

Notes:

Soil Gas Sampling Field Sheet
Maine DEP

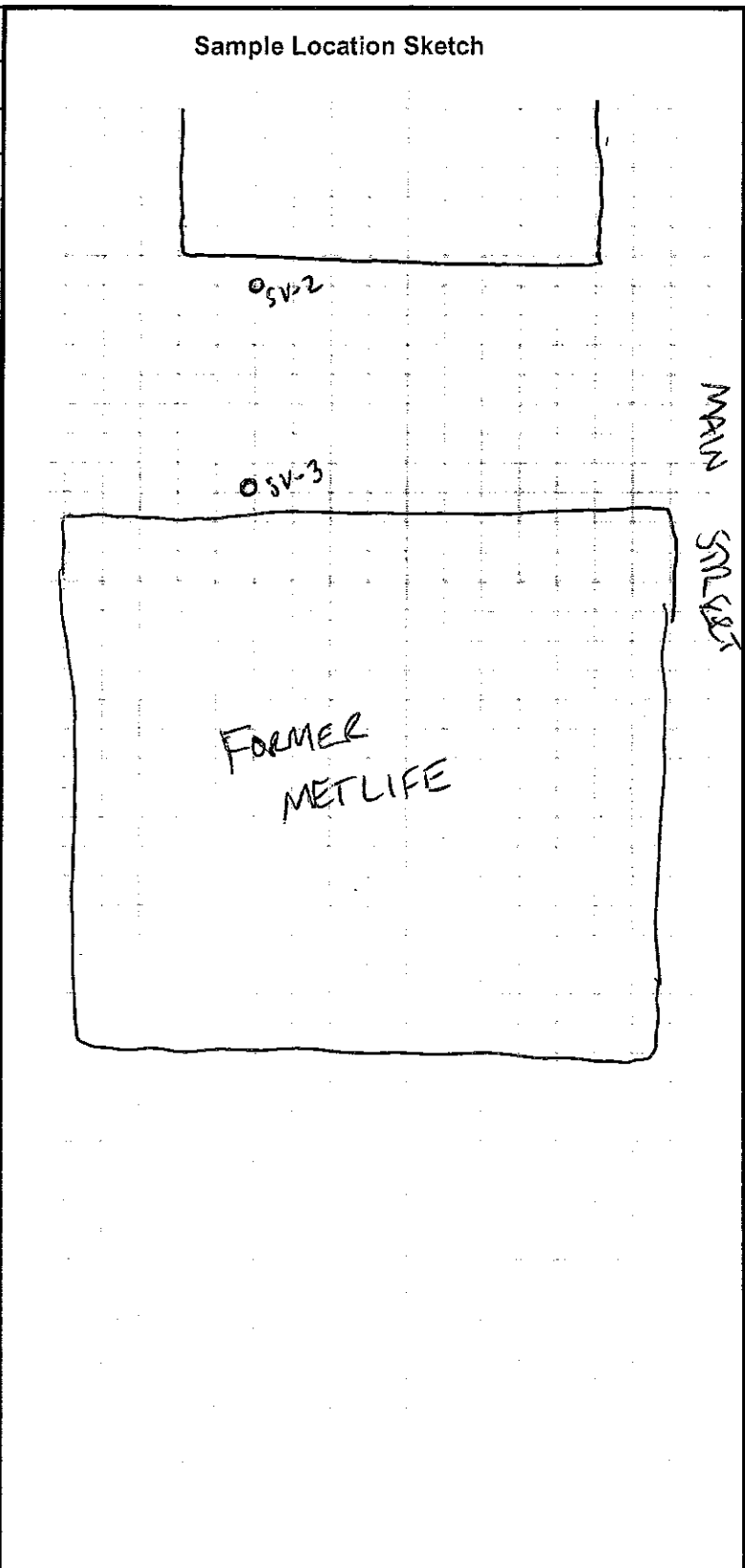
Site Name:	MET LIFE
Town:	P. I.
Date:	11-12-10
Sample I.D.:	SV-2
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	CRESSLEY
Project Manager:	SYPTIKOWSKI
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Asphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	6'
Depth to Water:	NA
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	552
Flow Control I.D.:	0154
Flow control rate:	68
O ₂ Ambient:	20.8
CO ₂ Ambient:	0.19
subsurface pressure/vacuum	(+/- inches of water column)
Pre-Sample O ₂ :	19.8
Pre-Sample CO ₂ :	1.86
Pre-Sample PID:	2.1
Pre-Sample CH ₄ :	< (% Volume, %LEL, PPM)
Sample Initiation Time:	8:12
Initial Vacuum:	-30
Sample End Time:	8:45
Final Vacuum:	-2
Post Sample O ₂ :	19.6
Post Sample CO ₂ :	2.05



Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

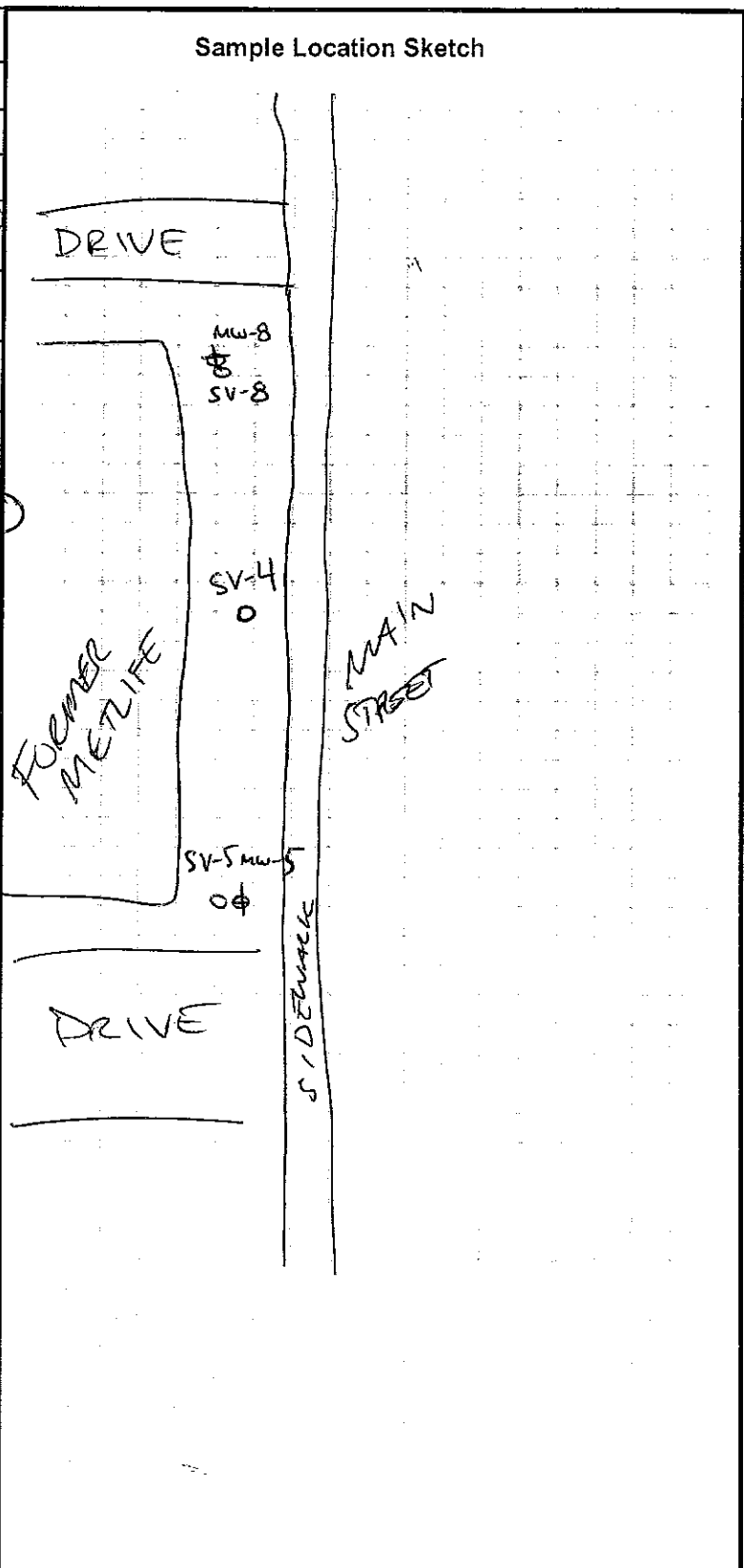
Site Name:	METLIFE
Town:	P.I.
Date:	11-12-10
Sample I.D.:	SV-3
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	BRESSAN
Project Manager:	SYPTIOWSKI
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Ashphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	5'
Depth to Water:	-
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	473
Flow Control I.D.:	0.369
Flow control rate:	0
O ₂ Ambient:	20.8
CO ₂ Ambient:	0.17
subsurface pressure/vacuum	(+/- inches of water column)
Pre-Sample O ₂ :	20.2
Pre-Sample CO ₂ :	0.68
Pre-Sample PID:	6.0
Pre-Sample CH ₄ :	- (% Volume, %LEL, PPM)
Sample Initiation Time:	9:30
Initial Vacuum:	-30
Sample End Time:	9:30 10:00
Final Vacuum:	-4
Post Sample O ₂ :	20.1
Post Sample CO ₂ :	0.80



Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

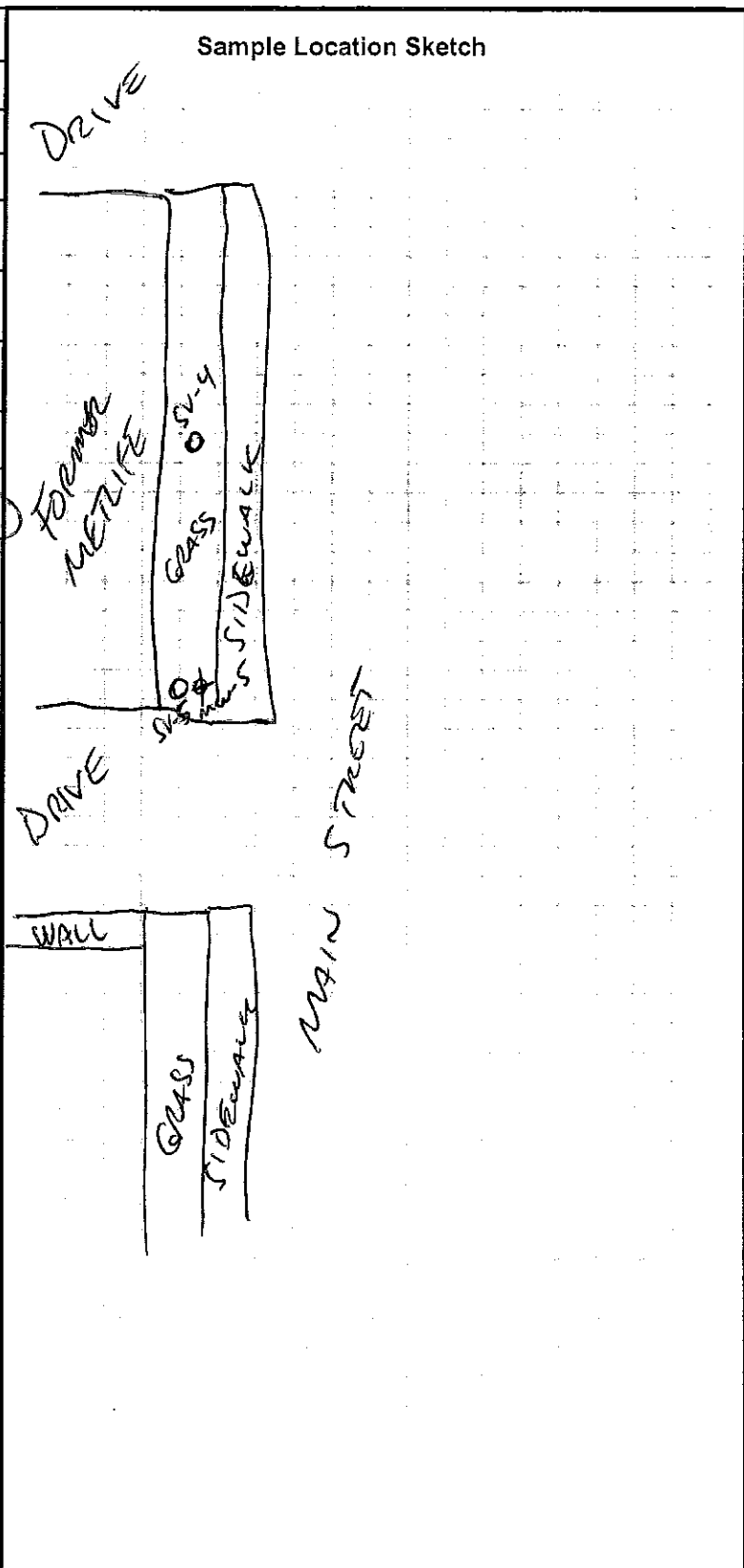
Site Name:	MET LIFE
Town:	P.I.
Date:	11-12-10
Sample I.D.:	SV-4
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	CRESSON
Project Manager:	SYPTIKOWSKI
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Asphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	4.5'
Depth to Water:	8'
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	
Flow Control I.D.:	0445
Flow control rate:	68
O ₂ Ambient:	20.8
CO ₂ Ambient:	0.10
subsurface pressure/vacuum	(+/- inches of water column)
Pre-Sample O ₂ :	20.8
Pre-Sample CO ₂ :	0.24
Pre-Sample PID:	0.6
Pre-Sample CH ₄ :	(% Volume, %LEL, PPM)
Sample Initiation Time:	11:11
Initial Vacuum:	> -30
Sample End Time:	11:54
Final Vacuum:	-4
Post Sample O ₂ :	20.8
Post Sample CO ₂ :	0.23



Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

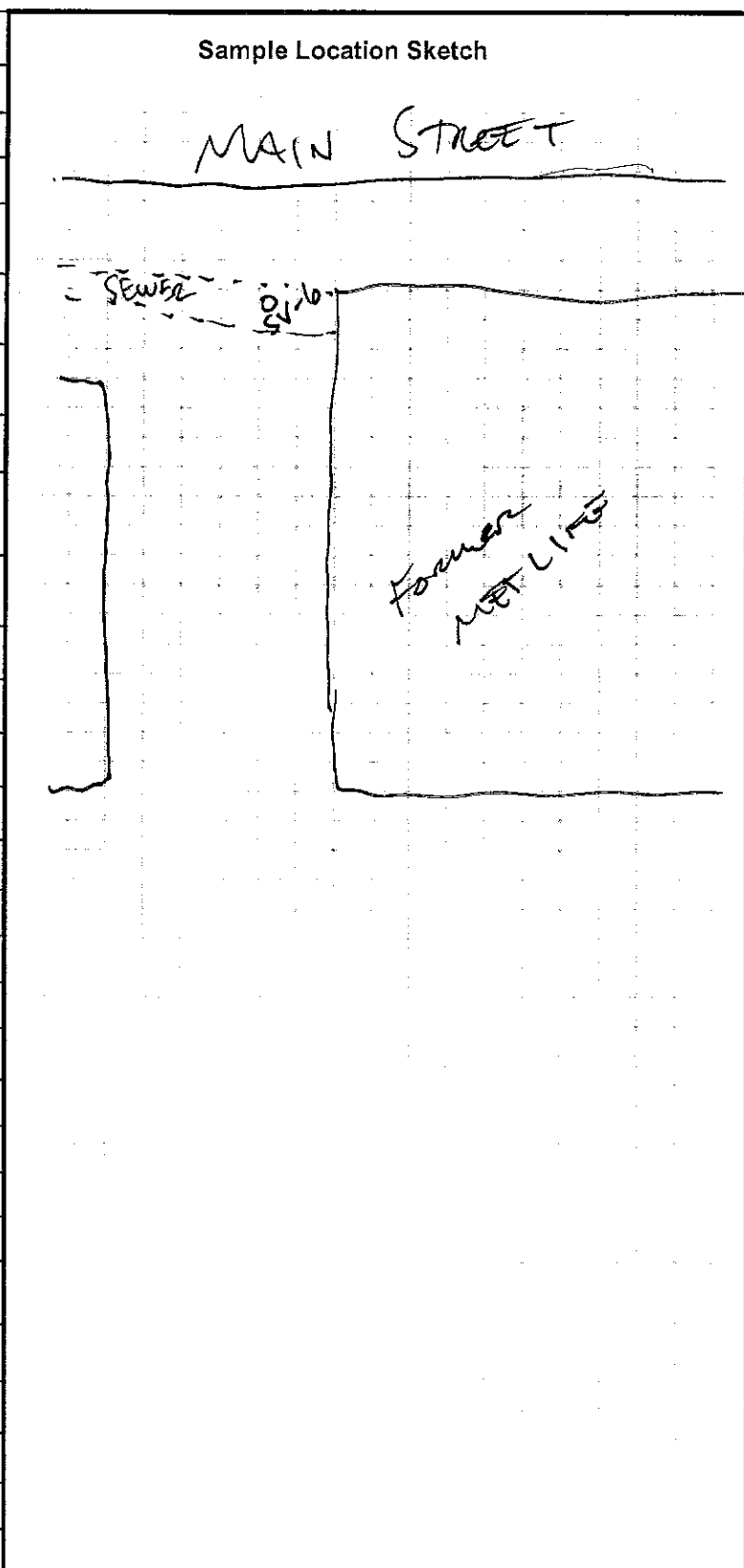
Site Name:	METLIFE
Town:	P.I.
Date:	11-12-10
Sample I.D.:	SV-5
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	Crossey
Project Manager:	SYPTRKOWSKI
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Asphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	7'
Depth to Water:	9'
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	366
Flow Control I.D.:	0470
Flow control rate:	606
O ₂ Ambient:	20.8
CO ₂ Ambient:	0.10
subsurface pressure/vacuum	(+/- inches of water column)
Pre-Sample O ₂ :	20.8 20.8
Pre-Sample CO ₂ :	0.55 0.55
Pre-Sample PID:	172.5
Pre-Sample CH ₄ :	(% Volume, %LEL, PPM)
Sample Initiation Time:	11:45
Initial Vacuum:	-30
Sample End Time:	12:12
Final Vacuum:	-3
Post Sample O ₂ :	20.8
Post Sample CO ₂ :	0.60



Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

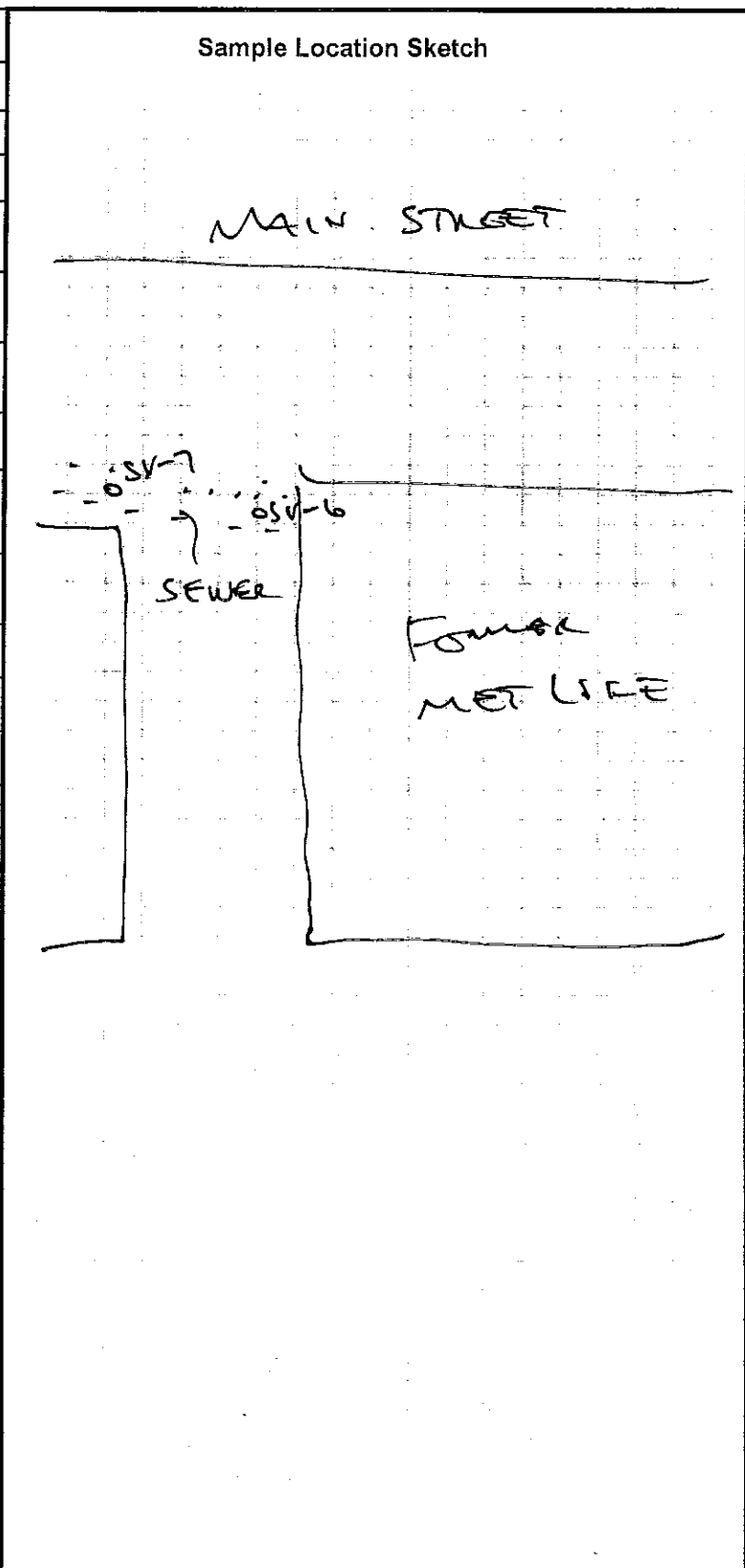
Site Name:	MetLife
Town:	P.T.
Date:	10-12-10
Sample I.D.:	SV-6
Sampling Purpose	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	CRESSM
Project Manager	SYPTIKOWSKI
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Asphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	1.5'
Depth to Water:	-
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	393
Flow Control I.D.:	0412
Flow control rate:	72
O ₂ Ambient	20.8
CO ₂ Ambient	0.13
subsurface pressure/vacuum	(+/- inches of water column)
Pre-Sample O ₂	20.8
Pre-Sample CO ₂ :	0.20
Pre-Sample PID:	0.5
Pre-Sample CH ₄ :	(% Volume, %LEL, PPM)
Sample Initiation Time:	10:40
Initial Vacuum:	-30
Sample End Time:	11:13
Final Vacuum:	-4
Post Sample O ₂ :	20.8
Post Sample CO ₂ :	0.20



Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

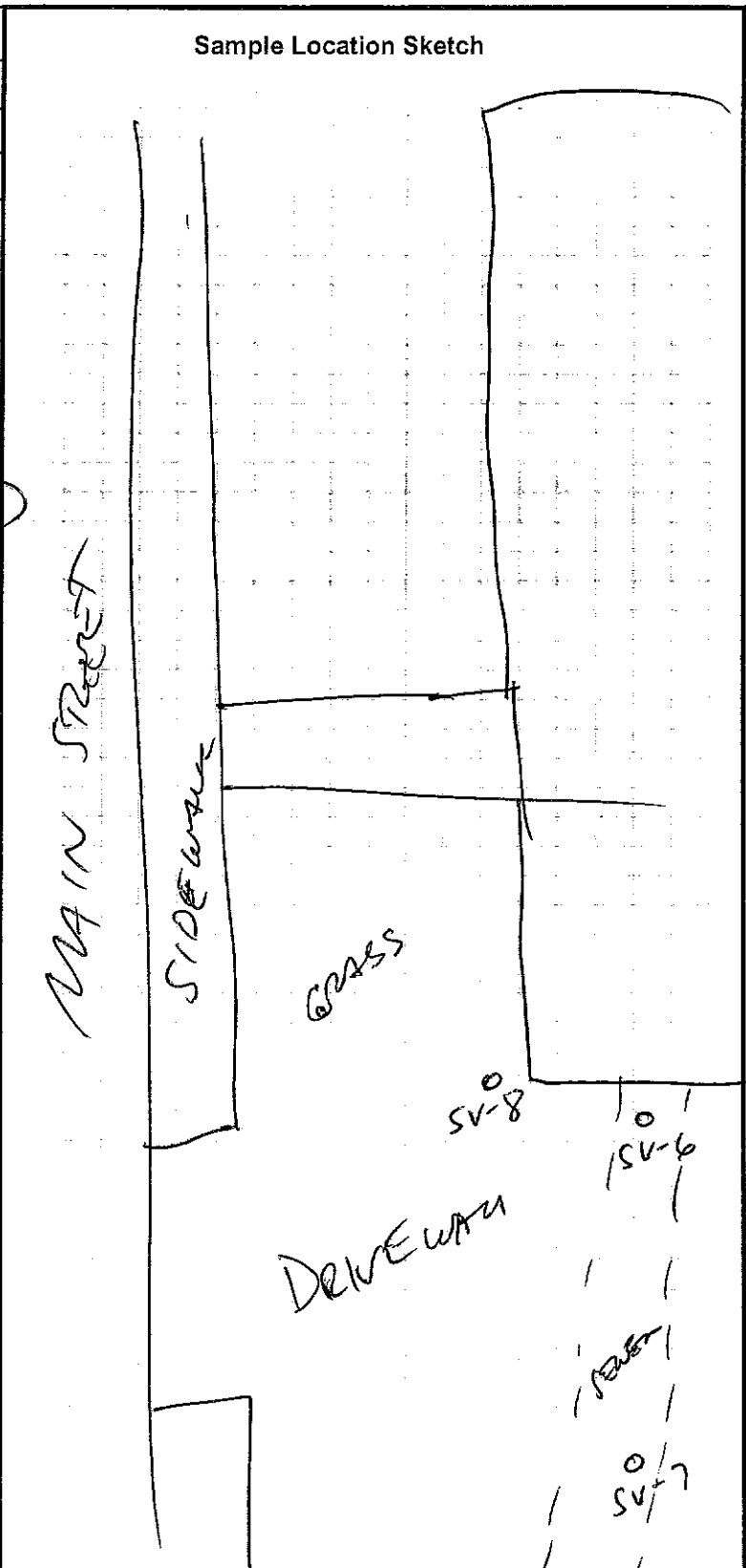
Site Name:	METLIFE
Town:	P.I.
Date:	11-12-10
Sample I.D.:	SV-7
Sampling Purpose:	(Source) <u>(Utility)</u> (Mitigation) (Receptor) (Other)
Sampling Personnel:	CRESBY
Project Manager:	
Collection Device:	<u>(Summa Can)</u> (Tedlar Bag)
Sample Penetration Location:	<u>(Asphalt)</u> (Concrete) (Soil)
Soil Type:	<u>(Fill)</u> (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	1.5'
Depth to Water:	8'
Suspected COCs:	<u>(Petroleum)</u> (Solvents)
Cannister I.D.:	192
Flow Control I.D.:	0023
Flow control rate:	66
O ₂ Ambient:	20.8
CO ₂ Ambient:	0.14
subsurface pressure/vacuum	(+/- inches of water column)
Pre-Sample O ₂ :	20.8
Pre-Sample CO ₂ :	0.18
Pre-Sample PID:	2.3
Pre-Sample CH ₄ :	(% Volume, %LEL, PPM)
Sample Initiation Time:	10:58
Initial Vacuum:	-30
Sample End Time:	11:25
Final Vacuum:	-4
Post Sample O ₂ :	20.7
Post Sample CO ₂ :	0.20



Notes:

Soil Gas Sampling Field Sheet
Maine DEP

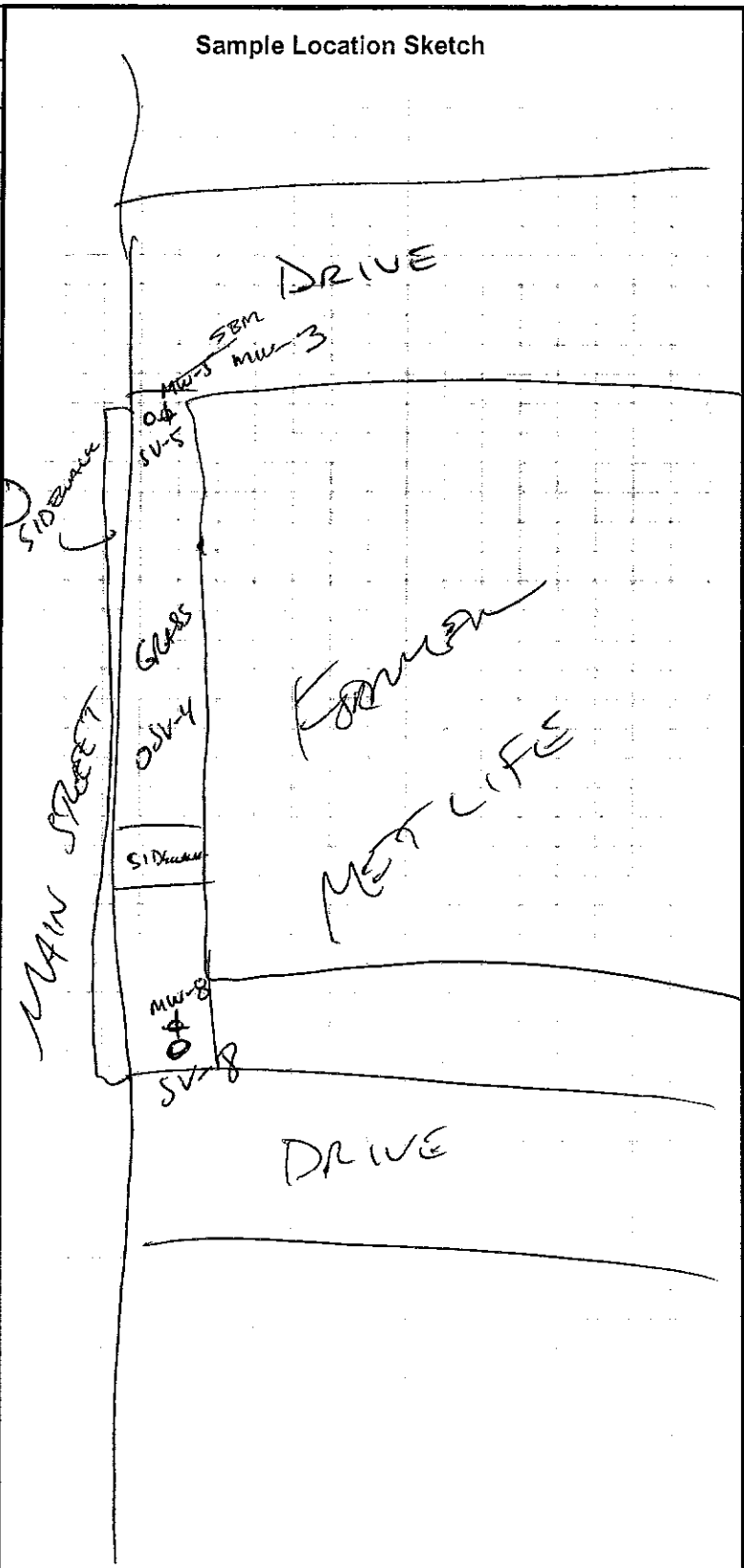
Site Name:	MET LIFE
Town:	PI.
Date:	11-12-10
Sample I.D.:	SV-8 4'
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	CRESSM
Project Manager:	JYPTIKOWSKI
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Asphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	4'
Depth to Water:	7'
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	1747
Flow Control I.D.:	0224
Flow control rate:	70
O ₂ Ambient:	20.8
CO ₂ Ambient:	0.07
subsurface pressure/vacuum	(+/- inches of water column)
Pre-Sample O ₂ :	20.8
Pre-Sample CO ₂ :	0.26
Pre-Sample PID:	1.2
Pre-Sample CH ₄ :	(% Volume, %LEL, PPM)
Sample Initiation Time:	2:08
Initial Vacuum:	-29.00
Sample End Time:	2:38
Final Vacuum:	-3.82
Post Sample O ₂ :	20.8
Post Sample CO ₂ :	0.29



Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

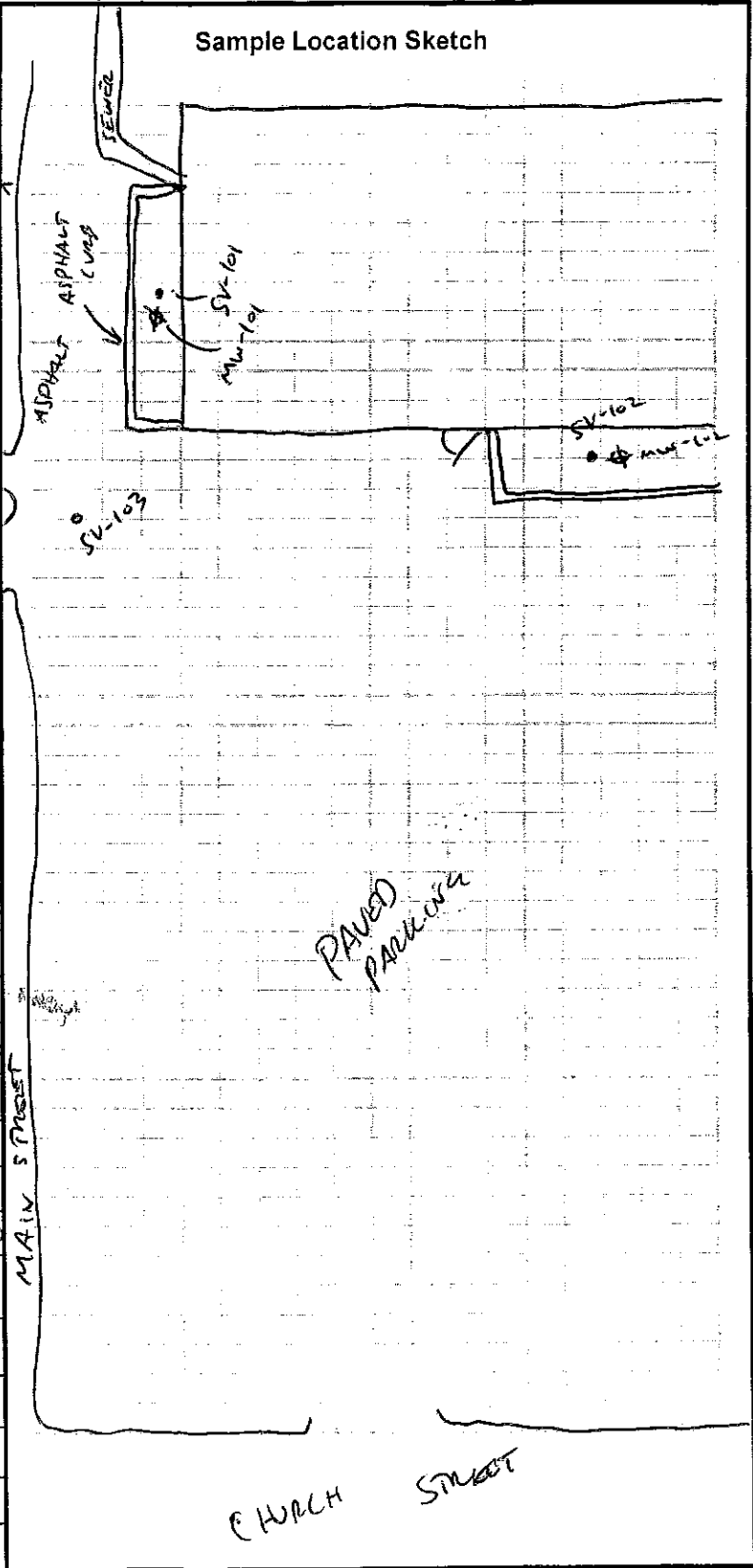
Site Name:	MET LIFE
Town:	PI
Date:	11-12-10
Sample I.D.:	SV-8 6'
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	CROSSIN
Project Manager:	STRAKOWSKI
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Ashphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	6'
Depth to Water:	7'
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	149
Flow Control I.D.:	0410
Flow control rate:	70
O ₂ Ambient:	20.8
CO ₂ Ambient:	0.07
subsurface pressure/vacuum <small>(+/- inches of water column)</small>	
Pre-Sample O ₂ :	20.8
Pre-Sample CO ₂ :	0.30
Pre-Sample PID:	11.2
Pre-Sample CH ₄ :	<small>(% Volume, %LEL, PPM)</small>
Sample Initiation Time:	2:05
Initial Vacuum:	> -30
Sample End Time:	2:45
Final Vacuum:	-4
Post Sample O ₂ :	20.8
Post Sample CO ₂ :	0.33



Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

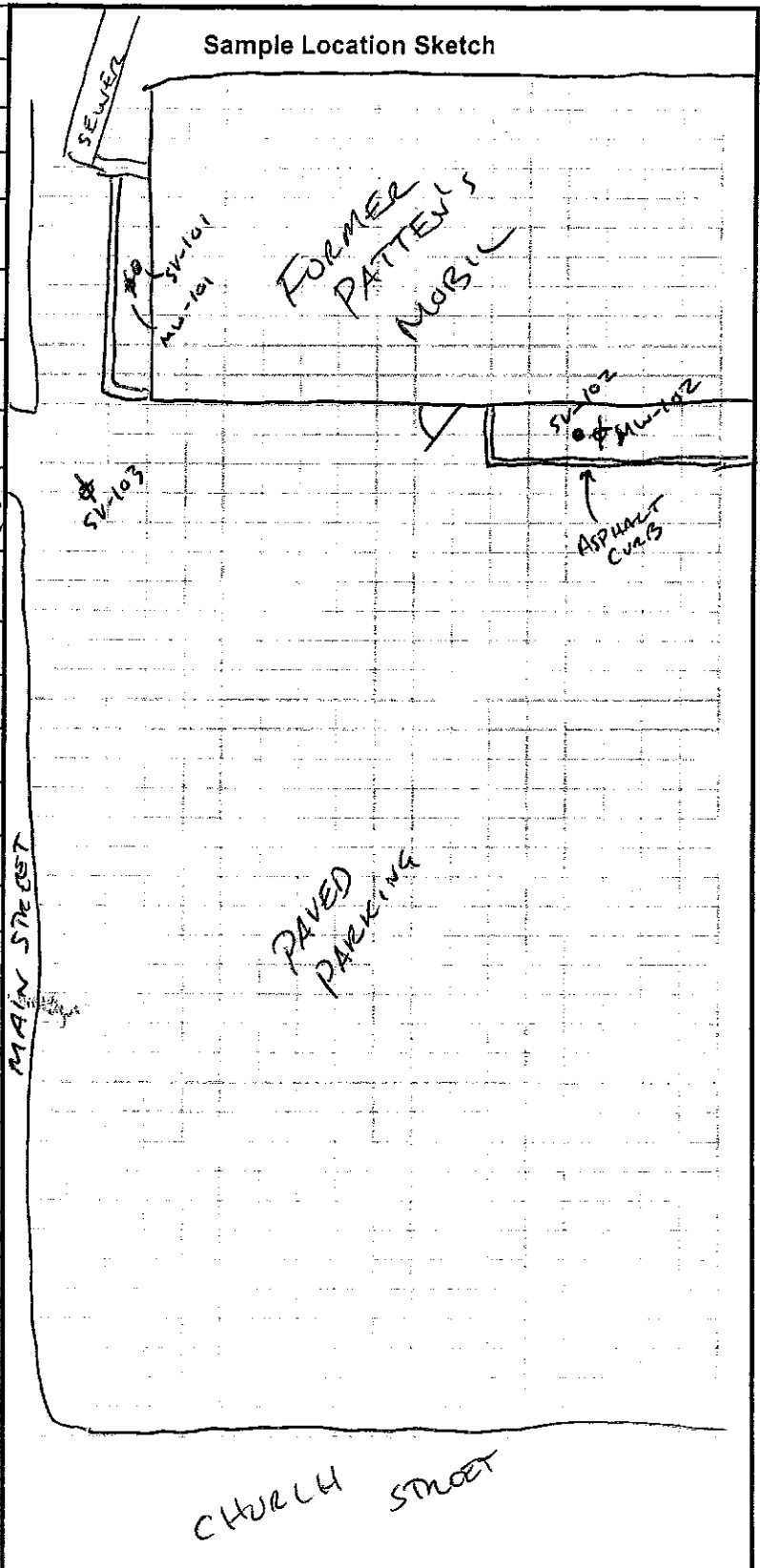
Site Name:	James PATTEN'S	
Town:	P.T.	
Date:	11-23-19	
Sample I.D.:	SV-101 / SV-102	
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)	
Sampling Personnel:	CROSSY	
Project Manager:	SYPITIKOWSKI	
Collection Device:	(Summa Can) (Tedlar Bag)	
Sample Penetration Location:	(Asphalt) (Concrete) (Soil)	
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)	
Sample Depth:	5'	
Depth to Water:	9'	
Suspected COCs:	(Petroleum) (Solvents)	
Cannister I.D.:	118	257
Flow Control I.D.:	0014	0280
Flow control rate:	69	70
O ₂ Ambient	20.8	
CO ₂ Ambient	0.14	
subsurface pressure/vacuum	(+/- inches of water column)	
Pre-Sample O ₂	14.5%	
Pre-Sample CO ₂	5%	
Pre-Sample PID:	4.5	
Pre-Sample CH ₄ :	— (% Volume, %LEL, PPM)	
Sample Initiation Time:	10:45	
Initial Vacuum:	-30	-30
Sample End Time:	1124	1124
Final Vacuum:	-4	-3
Post Sample O ₂	13.8%	
Post Sample CO ₂ :	5%	



Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

Site Name:	
Town:	
Date:	
Sample I.D.:	SV-102 4'
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	CRESSEY
Project Manager:	SYPITKOWSKI
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Asphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	4'
Depth to Water:	9'
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	217
Flow Control I.D.:	0289
Flow control rate:	66
O ₂ Ambient:	20.8
CO ₂ Ambient:	0.14
subsurface pressure/vacuum	(+/- inches of water column)
Pre-Sample O ₂ :	10.9 %
Pre-Sample CO ₂ :	3.65 %
Pre-Sample PID:	0.9
Pre-Sample CH ₄ :	(% Volume, %LEL, PPM)
Sample Initiation Time:	10:06
Initial Vacuum:	730
Sample End Time:	10:50
Final Vacuum:	-1
Post Sample O ₂ :	10.8 %
Post Sample CO ₂ :	3.65 %



Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

Site Name:	Former Patten's Mobil
Town:	P.I.
Date:	11-23-10
Sample I.D.:	SV-102 7.5'
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	Cassidy
Project Manager:	SYPITKOWSKI
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Ashphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	7.5'
Depth to Water:	9'
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	215
Flow Control I.D.:	0172
Flow control rate:	69
O ₂ Ambient:	20.8
CO ₂ Ambient:	0.13
subsurface pressure/vacuum	(+/- inches of water column)
Pre-Sample O ₂ :	5.8
Pre-Sample CO ₂ :	5%
Pre-Sample PID:	44.2
Pre-Sample CH ₄ :	(% Volume, %LEL, PPM)
Sample Initiation Time:	10:02
Initial Vacuum:	-29
Sample End Time:	10:50
Final Vacuum:	-3
Post Sample O ₂ :	5.7%
Post Sample CO ₂ :	5%

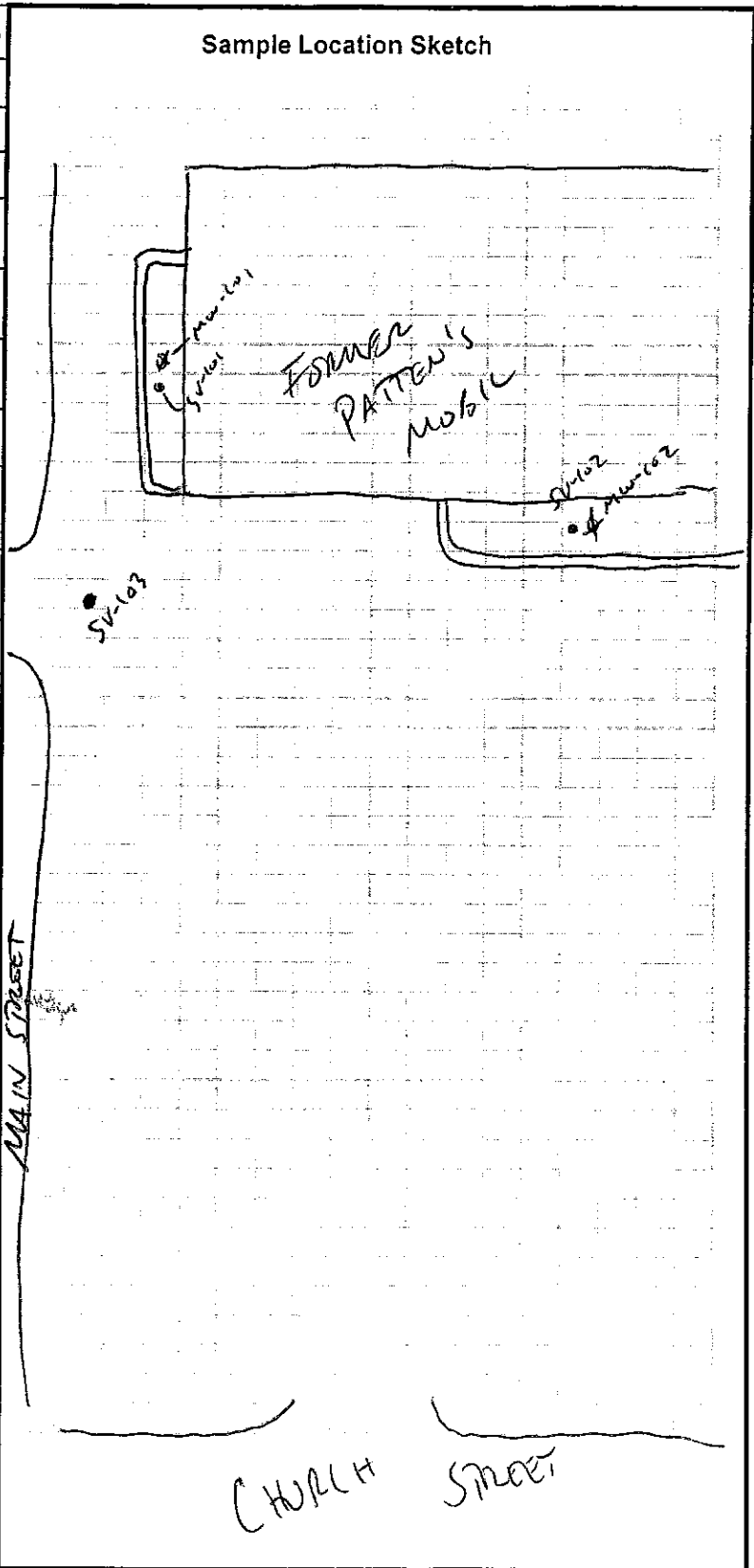
Sample Location Sketch

SEE SV-102
(4)

Notes:

Soil Gas Sampling Field Sheet
Maine DEP

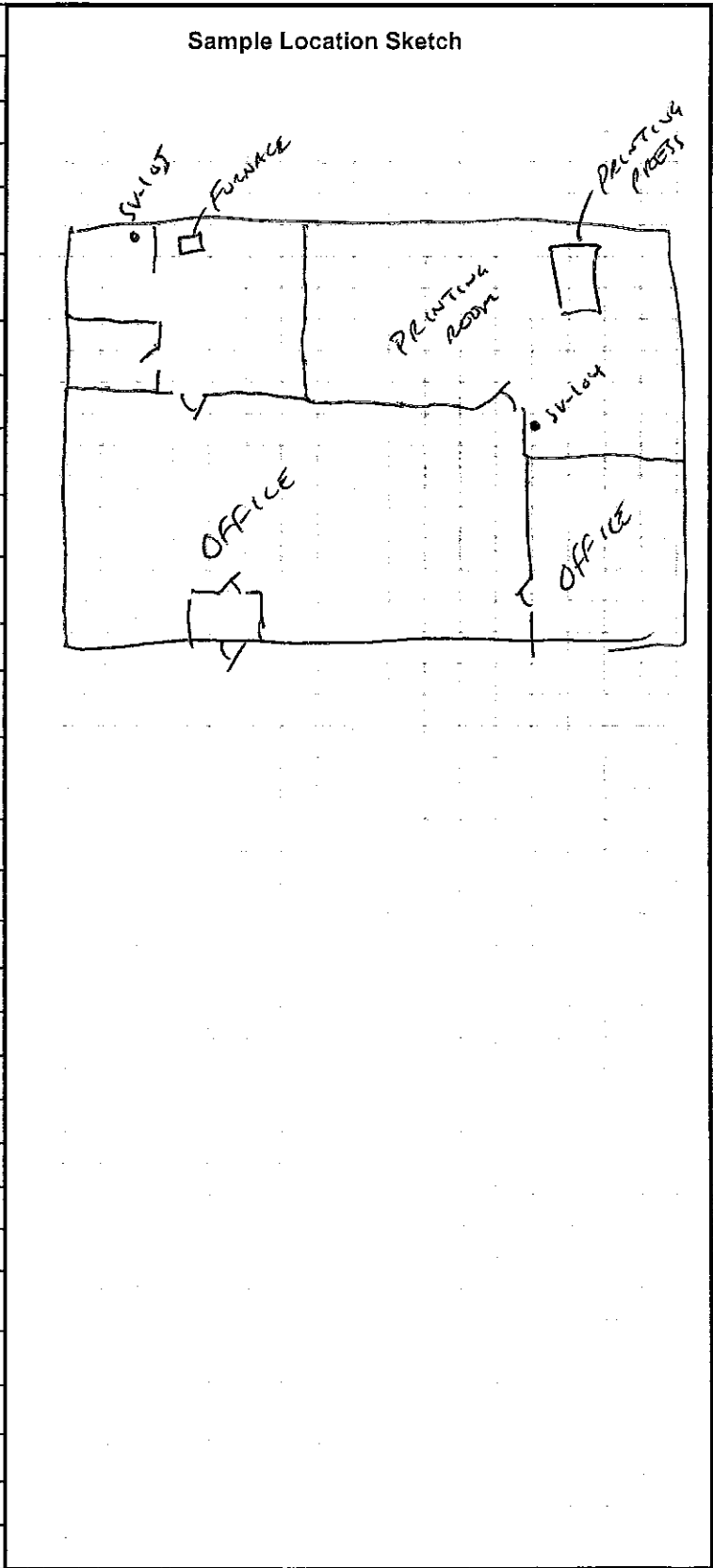
Site Name:	FORMER PATTEN'S MOBILE
Town:	P.I.
Date:	11-23-10
Sample I.D.:	SV-103
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	Caessey
Project Manager:	SPITKOWSKI
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Asphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	5'
Depth to Water:	11'
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	499
Flow Control I.D.:	0149
Flow control rate:	72
O ₂ Ambient:	20.8
CO ₂ Ambient:	0.18
subsurface pressure/vacuum	(+/- inches of water column)
Pre-Sample O ₂ :	1.5%
Pre-Sample CO ₂ :	5%
Pre-Sample PID:	1140
Pre-Sample CH ₄ :	(% Volume, %LEL, PPM)
Sample Initiation Time:	11:14
Initial Vacuum:	-27
Sample End Time:	11:46
Final Vacuum:	-2
Post Sample O ₂ :	1.5%
Post Sample CO ₂ :	5%



Notes:

Indoor Air/Subslab Sampling Field Sheet
Maine DEP

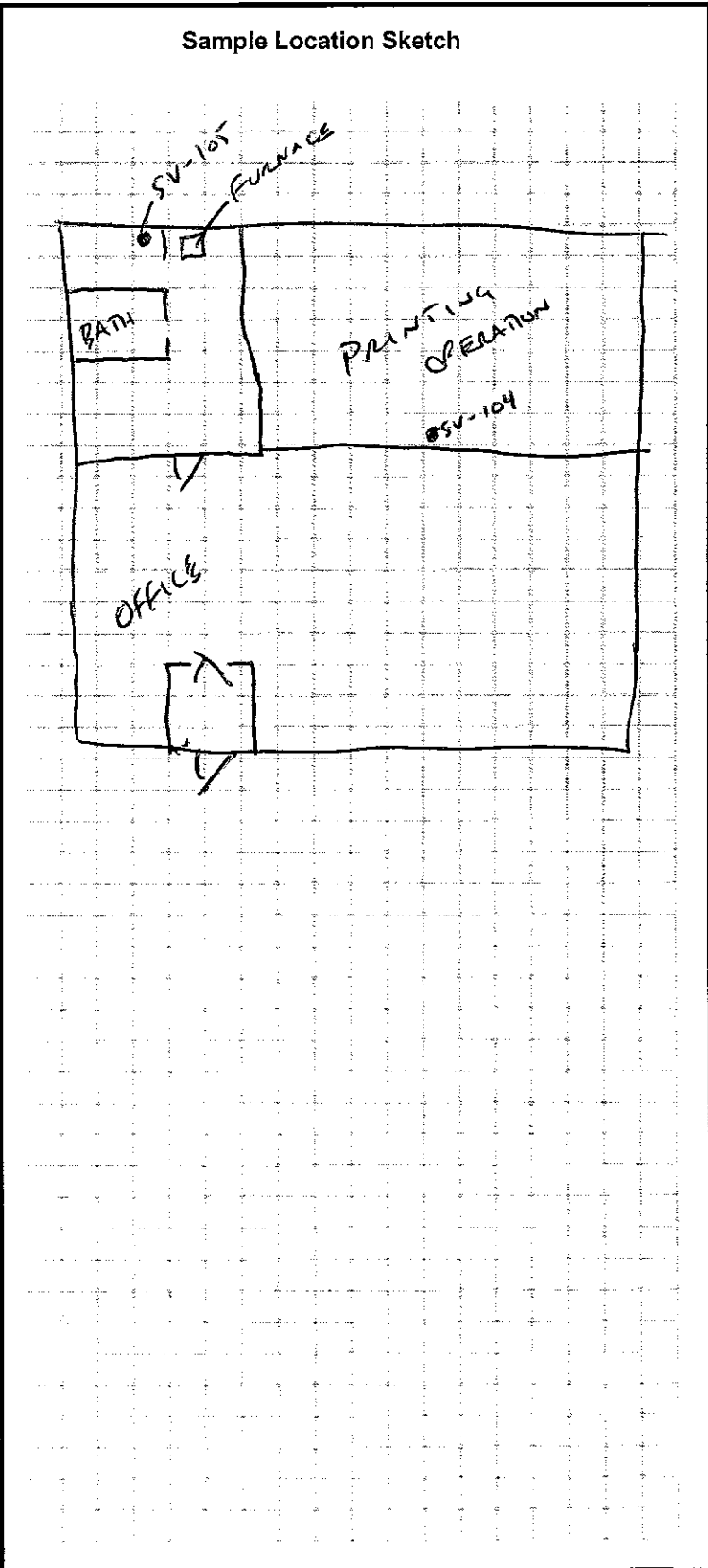
Site Name:	ESMEE PATEU'S
Town:	PRESQUE ISLE
Date:	11-23-10
Sample I.D.:	SU-104
Project Manager:	SYRITKOWSKI
Sampling Personnel:	CRESSLY
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Type:	(Subslab) (Indoor Air)
Sampling Location:	PRINTING ROOM
Foundation Floor Type:	(Dirt) (Concrete)
Foundation Wall Type:	(Concrete) (Block) (Stone) (Brick) (Slab on Grade)
Sump Hole:	(Yes) (No)
Penetrations in Floor:	(Sewer) (Water) (Gas) (Cracks) (Drains)
Penetrations in Wall:	(Sewer) (Water) (Gas) (Electric) (Cracks)
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	508
Flow Control I.D.:	0316
Flow control rate:	70
O ₂ Ambient	20.8
CO ₂ Ambient	0.22
Pre-Sample O ₂	20.1
Pre-Sample CO ₂	0.10
Pre-Sample PID:	0.0
Pre-Sample CH ₄ :	—
Sample Initiation Time:	948
Initial Vacuum:	-30
Sample End Time:	-3
Final Vacuum:	10:19
Post Sample O ₂	20.1
Post Sample CO ₂	0.10



Notes/Observations:

**Indoor Air/Subslab Sampling Field Sheet
Maine DEP**

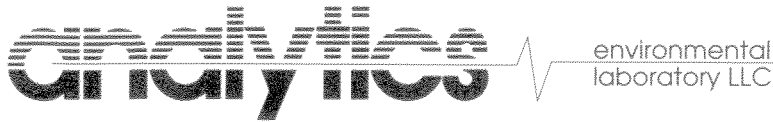
Site Name:	FORMER PATENT'S MAIL
Town:	PRESQUE ISLE
Date:	11-23-10
Sample I.D.:	SV-105
Project Manager:	SY PITKOWSKI
Sampling Personnel:	CRESSER
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Type:	(Subslab) (Indoor Air)
Sampling Location:	UTILITY CLOSET
Foundation Floor Type:	(Dirt) (Concrete)
Foundation Wall Type:	(Concrete) (Block) (Stone) (Brick) (Slab on Grade)
Sump Hole:	(Yes) (No)
Penetrations in Floor:	(Sewer) (Water) (Gas) (Cracks) (Drains)
Penetrations in Wall:	(Sewer) (Water) (Gas) (Electric) (Cracks)
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	410
Flow Control I.D.:	0257
Flow control rate:	600
O ₂ Ambient	20.4
CO ₂ Ambient	0.22
Pre-Sample O ₂	20.2
Pre-Sample CO ₂	0.17
Pre-Sample PID:	0.0
Pre-Sample CH ₄ :	—
Sample Initiation Time:	9:08
Initial Vacuum:	-30
Sample End Time:	-3
Final Vacuum:	9:47
Post Sample O ₂	20.2
Post Sample CO ₂ :	0.16



Notes/Observations:

Appendix C

Laboratory Reports



195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

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

Report Number: 68382

Revision: Rev. 0

Re: DEP 2514-10

Enclosed are the results of the analyses on your sample(s). Samples were received on 16 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 Department 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


11/29/2010

This report shall not be reproduced, except in full, without the written consent of Analytics Environmental Laboratory, LLC.

**CLIENT: Maine Environmental Laboratory, REPORT NUMBER: 68382
Inc.**

REV: Rev. 0

PROJECT: DEP 2514-10

<u>Lab Number</u>	<u>Sample Date</u>	<u>Station Location</u>	<u>Analysis</u>	<u>Comments</u>
68382-1	11/12/10	SV-8 (8-9')	Volatile Petroleum Hydrocarbons	
68382-2	11/12/10	MW-5	EPA 8260 Volatile Organics	
	11/12/10	MW-5	Volatile Petroleum Hydrocarbons	
68382-3	11/12/10	MW-8	EPA 8260 Volatile Organics	
	11/12/10	MW-8	Volatile Petroleum Hydrocarbons	
68382-4	11/12/10	SV-5 (8-11')	Volatile Petroleum Hydrocarbons	
68382-5	11/12/10	SV-5A (8-11')	Volatile Petroleum Hydrocarbons	
68382-6	11/12/10	SS-3 (4-7')	Volatile Petroleum Hydrocarbons	
68382-7	11/12/10	MW-1	EPA 8260 Volatile Organics	
	11/12/10	MW-1	Volatile Petroleum Hydrocarbons	
68382-8	11/12/10	SV-1	Volatile Petroleum Hydrocarbons	
68382-9	11/12/10	Trip Blank	Electronic Data Deliverable	
	11/12/10	Trip Blank	Volatile Petroleum Hydrocarbons	

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

November 29, 2010

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: DEP 2514-10
Project Number:
Client Sample ID: SV-8 (8-9^a)

Lab Sample ID: 68382-1
Matrix: Solid
Percent Solid: 94
Dilution Factor: 1116
Collection Date: 11/12/10
Lab Receipt Date: 11/16/10
Analysis Date: 11/18/10

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	55800	µg/kg	366000
Unadjusted C9-C12 Aliphatics ¹	N/A	55800	µg/kg	380000
Benzene	C5-C8	2232	µg/kg	U
Ethylbenzene	C9-C12	2232	µg/kg	14200
Methyl-tert-butyl ether	C5-C8	2232	µg/kg	U
Naphthalene	N/A	2232	µg/kg	2380
Toluene	C5-C8	2232	µg/kg	U
m- & p-Xylenes	C9-C12	4464	µg/kg	6190
o-Xylene	C9-C12	2232	µg/kg	3820
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	55800	µg/kg	366000
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	55800	µg/kg	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	11200	µg/kg	427000
Surrogate % Recovery (2,5-Dibromotoluene) PID				*
Surrogate % Recovery (2,5-Dibromotoluene) FID				*
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-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.
 * The surrogates were diluted out.

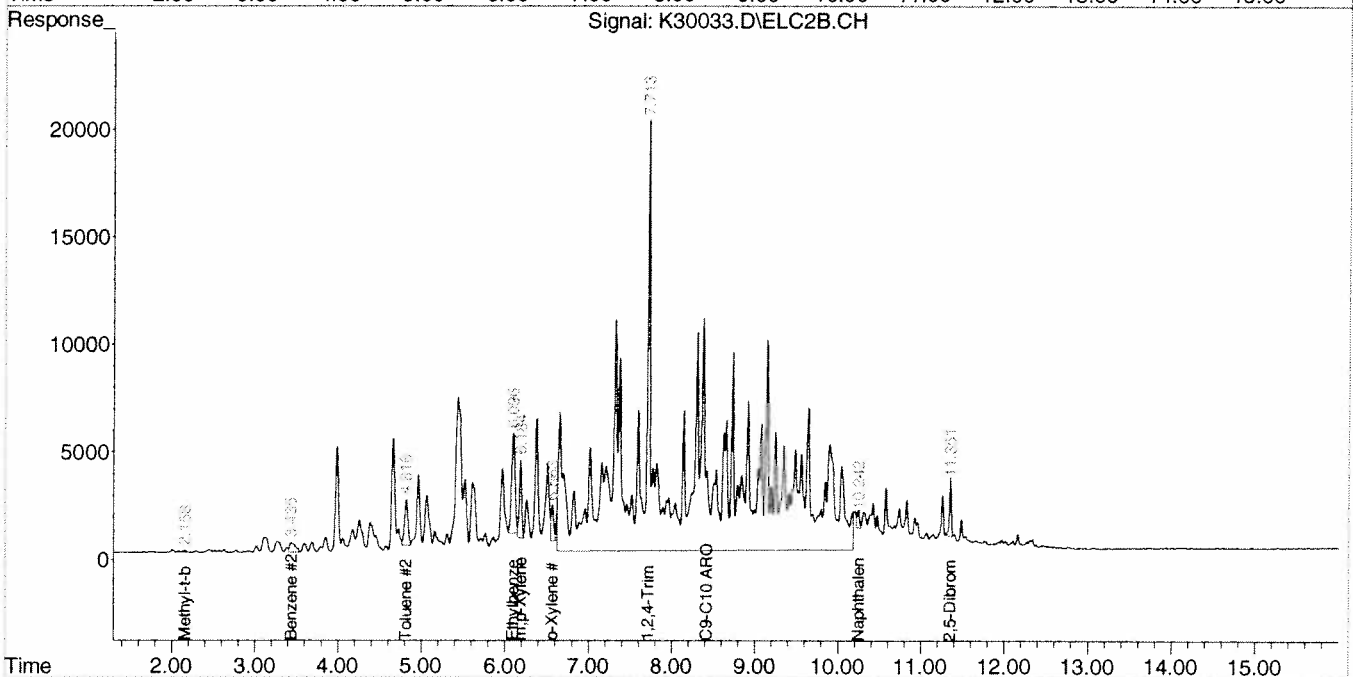
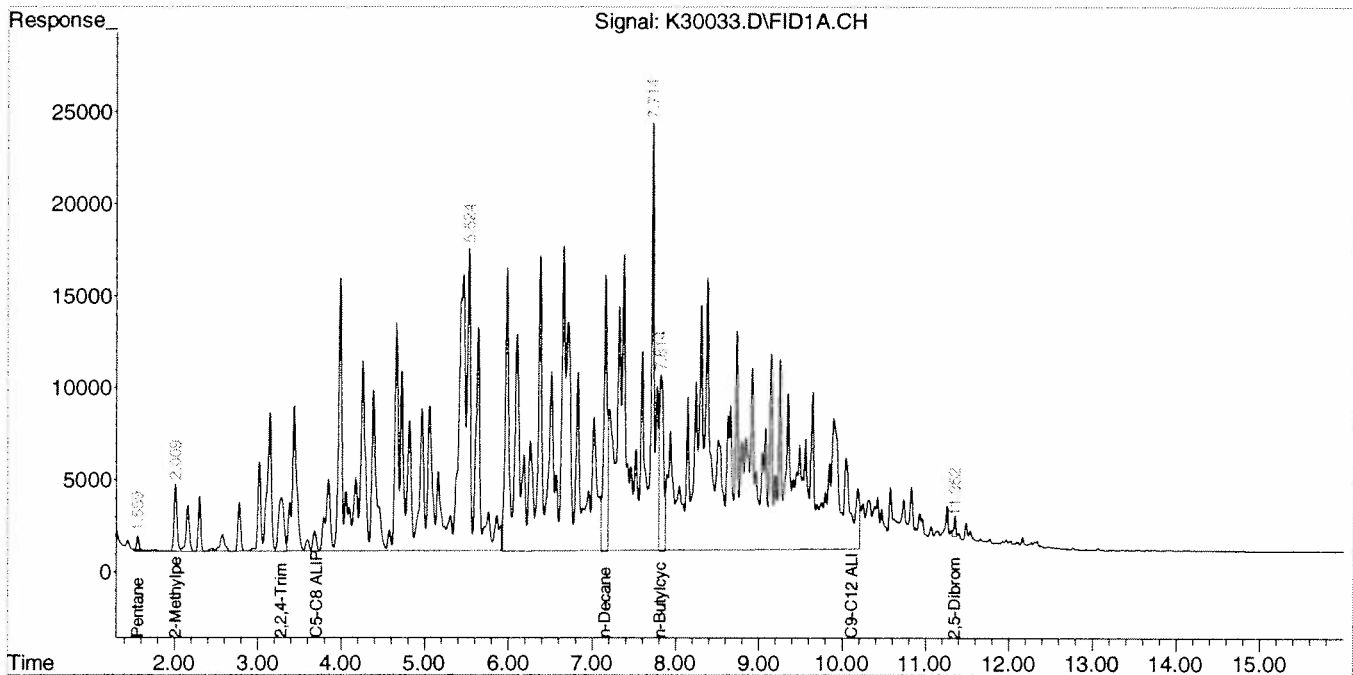
Authorized signature: *M. A. Bell*

Data Path : C:\msdchem\1\DATA\111810-K\
 Data File : K30033.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 18 Nov 2010 6:23 pm
 Operator : JJL
 Sample : 68382-1,20X
 Misc : 5,15.31,SOIL,,15 ML FV
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 19 11:56:32 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

gg 11/19/10

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



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

November 29, 2010

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: DEP 2514-10
Project Number:
Field Sample ID: MW-5

Lab Sample ID: 68382-2
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 11/12/10
Lab Receipt Date: 11/16/10
Analysis Date: 11/24/10

ANALYTICAL RESULTS VOLATILE ORGANICS					
COMPOUND	Quantitation Limit µg/L	Result µg/L	COMPOUND	Quantitation Limit µg/L	Result µg/L
Benzene	1	0.8 J	1,3-Dichloropropane	1	U
Bromobenzene	1	U	cis-1,3-Dichloropropene	1	U
Bromochloromethane	1	U	trans-1,3-Dichloropropene	1	U
Bromodichloromethane	1	U	2,2-Dichloropropane	1	U
Bromoform	1	U	1,1-Dichloropropene	1	U
Bromomethane	2	U	Ethylbenzene	1	1.9
n-butylbenzene	1	U	Hexachlorobutadiene	1	U
sec-butylbenzene	1	3.2	Isopropylbenzene	1	3.5
tert-butylbenzene	1	U	p-isopropyltoluene	1	2.6
Carbon Tetrachloride	1	U	Methylene Chloride	5	U
Chlorobenzene	1	U	Methyl-tert-butyl ether (MTBE)	1	U
Chloroethane	1	U	Naphthalene	1	1.9
Chloroform	1	U	n-Propylbenzene	1	7.1
Chloromethane	1	U	Styrene	1	U
2-Chlorotoluene	1	U	1,1,1,2-Tetrachloroethane	1	U
4-Chlorotoluene	1	U	1,1,2,2-Tetrachloroethane	1	U
Dibromochloromethane	1	U	Tetrachloroethene	1	U
1,2-Dibromo-3-chloropropane	1	U	Toluene	1	1.1
1,2-Dibromoethane	1	U	1,2,3-Trichlorobenzene	1	U
Dibromomethane	1	U	1,2,4-Trichlorobenzene	1	U
1,2-Dichlorobenzene	1	U	1,1,1-Trichloroethane	1	U
1,3-Dichlorobenzene	1	U	1,1,2-Trichloroethane	1	U
1,4-Dichlorobenzene	1	U	Trichloroethene	1	U
Dichlorodifluoromethane	1	U	Trichlorofluoromethane	1	U
1,1-Dichloroethane	1	U	1,2,3-Trichloropropane	1	U
1,2-Dichloroethane	1	U	1,2,4-Trimethylbenzene	1	40
1,1-Dichloroethene	1	U	1,3,5-Trimethylbenzene	1	2.7
cis-1,2-Dichloroethene	1	U	Vinyl Chloride	1	U
trans-1,2-Dichloroethene	1	U	o-Xylene	1	1.1
1,2-Dichloropropane	1	U	m,p-Xylene	1	5.8
Acetone	10	7.6 J	Diethyl ether	1	U
Carbon Disulfide	1	U	2-Hexanone	10	U
Tetrahydrofuran	2	U	Methyl isobutyl ketone	10	U
Methyl ethyl ketone	10	U	Di-isopropyl ether (DIPE)	1	U
t-Butyl alcohol (TBA)	20	U	Ethyl t-butyl ether (ETBE)	1	U
t-Amyl methyl ether (TAME)	1	U	1,3,5-Trichlorobenzene	1	U
Surrogate Standard Recovery					
d4-1,2-Dichloroethane	113 %		d8-Toluene	103 %	
			Bromofluorobenzene	107 %	
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank					

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS:

Authorized signature 

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 PO Box 1107
 Yarmouth, ME 04096-1107

November 29, 2010

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: DEP 2514-10
Project Number:
Client Sample ID: MW-5

Lab Sample ID: 68382-2
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 2
Collection Date: 11/12/10
Lab Receipt Date: 11/16/10
Analysis Date: 11/18/10

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	100	µg/L	521
Unadjusted C9-C12 Aliphatics ¹	N/A	100	µg/L	300
Benzene	C5-C8	4	µg/L	U
Ethylbenzene	C9-C12	4	µg/L	21
Methyl-tert-butyl ether	C5-C8	4	µg/L	4
Naphthalene	N/A	4	µg/L	U
Toluene	C5-C8	4	µg/L	3 J
m- & p-Xylenes	C9-C12	8	µg/L	8
o-Xylene	C9-C12	4	µg/L	5
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	100	µg/L	513
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	100	µg/L	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	20	µg/L	422
Surrogate % Recovery (2,5-Dibromotoluene) PID				104
Surrogate % Recovery (2,5-Dibromotoluene) FID				117
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-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.

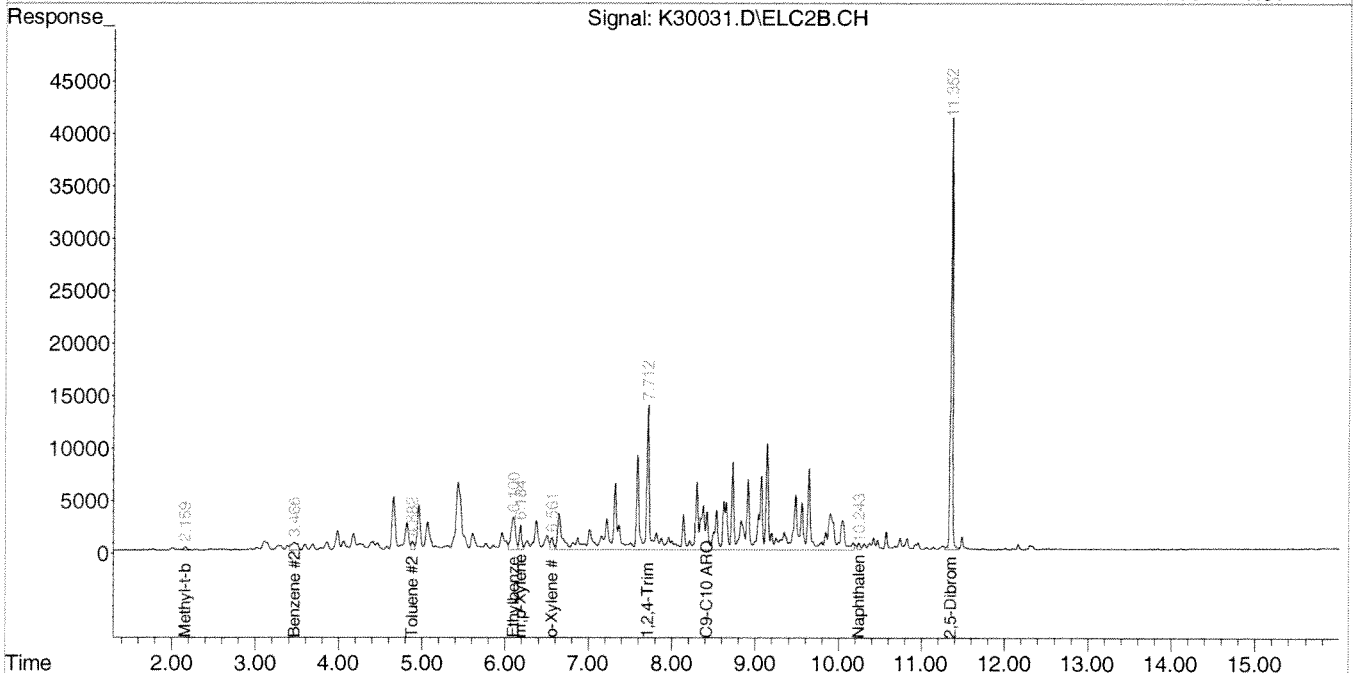
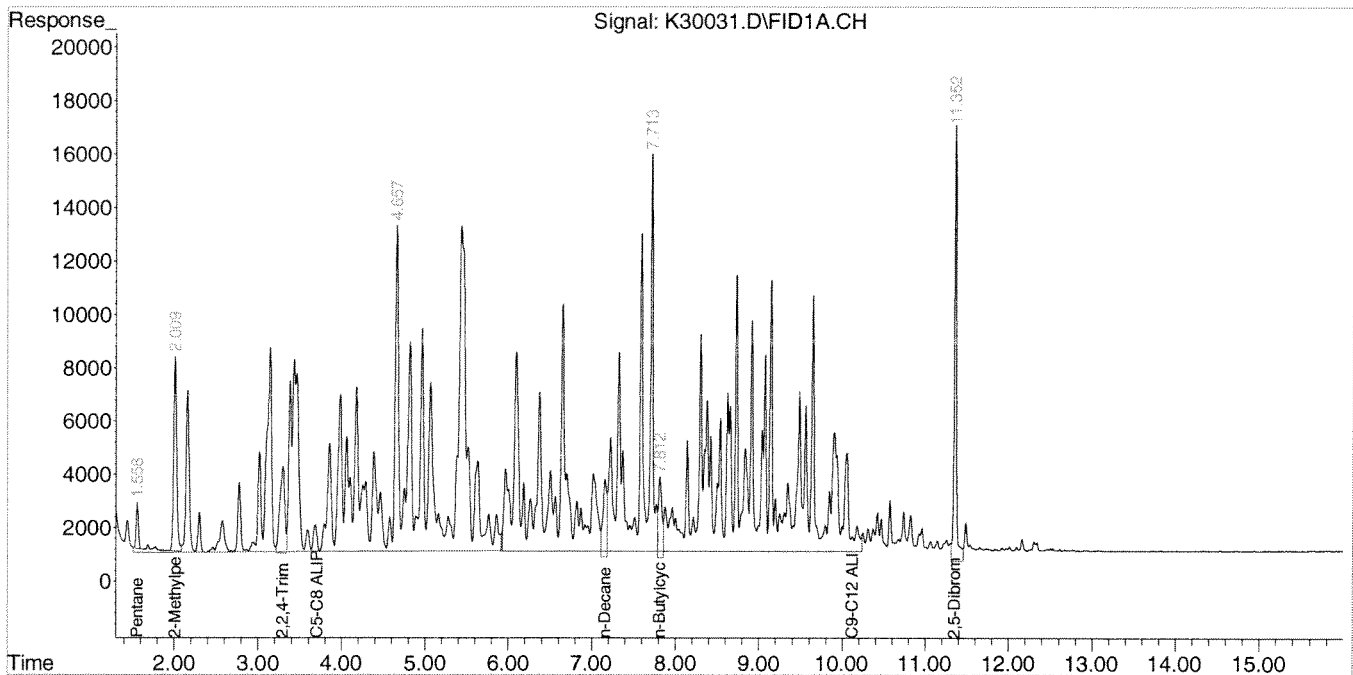
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

Authorized signature: *M. P. Sullivan*

Data Path : C:\msdchem\1\DATA\111810-K\
 Data File : K30031.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 18 Nov 2010 5:34 pm
 Operator : JJL
 Sample : 68382-2,2X
 Misc : 2500
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 19 11:16:19 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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November 29, 2010

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: DEP 2514-10
Project Number:
Field Sample ID: MW-8

Lab Sample ID: 68382-3
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 11/12/10
Lab Receipt Date: 11/16/10
Analysis Date: 11/24/10

ANALYTICAL RESULTS VOLATILE ORGANICS					
COMPOUND	Quantitation Limit µg/L	Result µg/L	COMPOUND	Quantitation Limit µg/L	Result µg/L
Benzene	1	2.8	1,3-Dichloropropane	1	U
Bromobenzene	1	U	cis-1,3-Dichloropropene	1	U
Bromochloromethane	1	U	trans-1,3-Dichloropropene	1	U
Bromodichloromethane	1	U	2,2-Dichloropropane	1	U
Bromoform	1	U	1,1-Dichloropropene	1	U
Bromomethane	2	U	Ethylbenzene	1	8.1
n-butylbenzene	1	U	Hexachlorobutadiene	1	U
sec-butylbenzene	1	U	Isopropylbenzene	1	1.7
tert-butylbenzene	1	U	p-isopropyltoluene	1	1.4
Carbon Tetrachloride	1	U	Methylene Chloride	5	U
Chlorobenzene	1	U	Methyl-tert-butyl ether (MTBE)	1	U
Chloroethane	1	U	Naphthalene	1	7.9
Chloroform	1	U	n-Propylbenzene	1	2.1
Chloromethane	1	U	Styrene	1	U
2-Chlorotoluene	1	U	1,1,1,2-Tetrachloroethane	1	U
4-Chlorotoluene	1	U	1,1,2,2-Tetrachloroethane	1	U
Dibromochloromethane	1	U	Tetrachloroethene	1	U
1,2-Dibromo-3-chloropropane	1	U	Toluene	1	1.9
1,2-Dibromoethane	1	U	1,2,3-Trichlorobenzene	1	U
Dibromomethane	1	U	1,2,4-Trichlorobenzene	1	U
1,2-Dichlorobenzene	1	U	1,1,1-Trichloroethane	1	U
1,3-Dichlorobenzene	1	U	1,1,2-Trichloroethane	1	U
1,4-Dichlorobenzene	1	U	Trichloroethene	1	U
Dichlorodifluoromethane	1	U	Trichlorofluoromethane	1	U
1,1-Dichloroethane	1	U	1,2,3-Trichloropropane	1	U
1,2-Dichloroethane	1	U	1,2,4-Trimethylbenzene	1	87
1,1-Dichloroethene	1	U	1,3,5-Trimethylbenzene	1	15
cis-1,2-Dichloroethene	1	U	Vinyl Chloride	1	U
trans-1,2-Dichloroethene	1	U	o-Xylene	1	4.5
1,2-Dichloropropane	1	U	m,p-Xylene	1	74
Acetone	10	U	Diethyl ether	1	U
Carbon Disulfide	1	U	2-Hexanone	10	U
Tetrahydrofuran	2	U	Methyl isobutyl ketone	10	U
Methyl ethyl ketone	10	U	Di-isopropyl ether (DIPE)	1	U
t-Butyl alcohol (TBA)	20	U	Ethyl t-butyl ether (ETBE)	1	U
t-Amyl methyl ether (TAME)	1	U	1,3,5-Trichlorobenzene	1	U
Surrogate Standard Recovery					
d4-1,2-Dichloroethane	104	%	d8-Toluene	102	%
			Bromofluorobenzene	104	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank					

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS:

Authorized signature



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November 29, 2010

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: DEP 2514-10
Project Number:
Client Sample ID: MW-8

Lab Sample ID: 68382-3
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 11/12/10
Lab Receipt Date: 11/16/10
Analysis Date: 11/17/10

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	50	µg/L	161
Unadjusted C9-C12 Aliphatics ¹	N/A	50	µg/L	168
Benzene	C5-C8	2	µg/L	5
Ethylbenzene	C9-C12	2	µg/L	11
Methyl-tert-butyl ether	C5-C8	2	µg/L	2
Naphthalene	N/A	2	µg/L	8
Toluene	C5-C8	2	µg/L	3
m- & p-Xylenes	C9-C12	4	µg/L	72
o-Xylene	C9-C12	2	µg/L	5
C5-C8 Aliphatic Hydrocarbons ^{1,2}	N/A	50	µg/L	151
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	50	µg/L	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	10	µg/L	260
Surrogate % Recovery (2,5-Dibromotoluene) PID				114
Surrogate % Recovery (2,5-Dibromotoluene) FID				118
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

³C9-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.

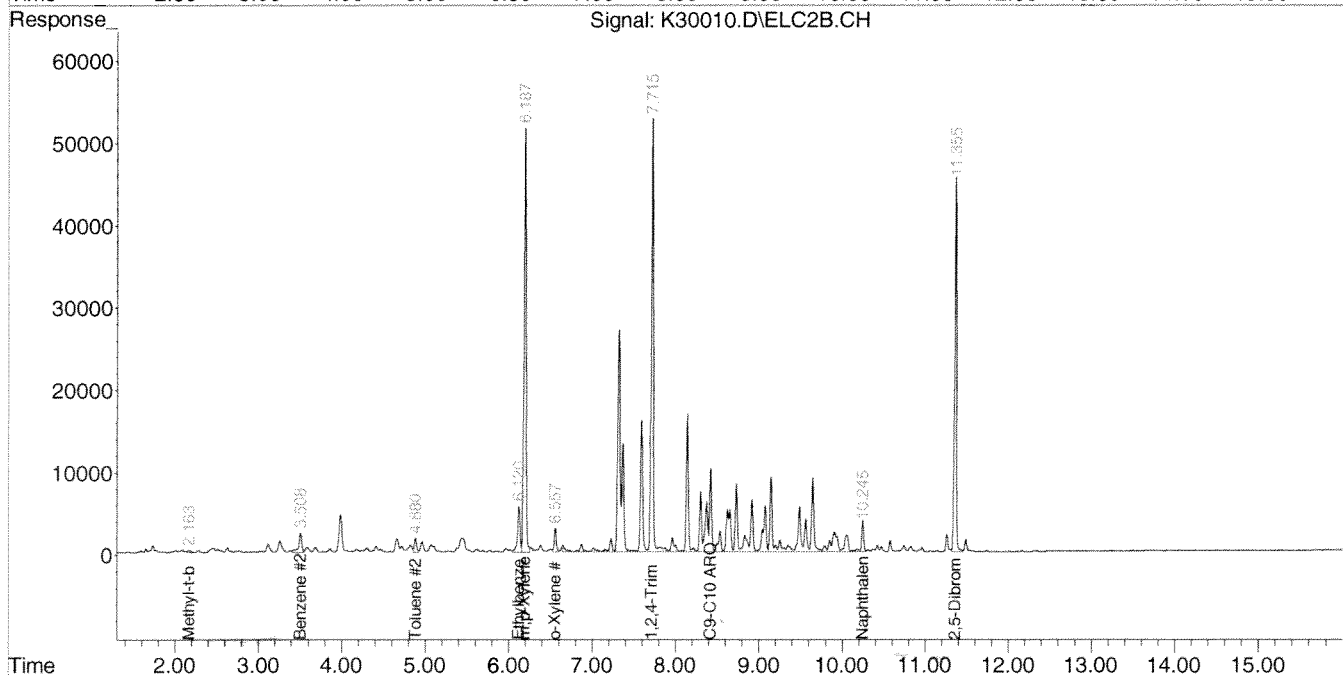
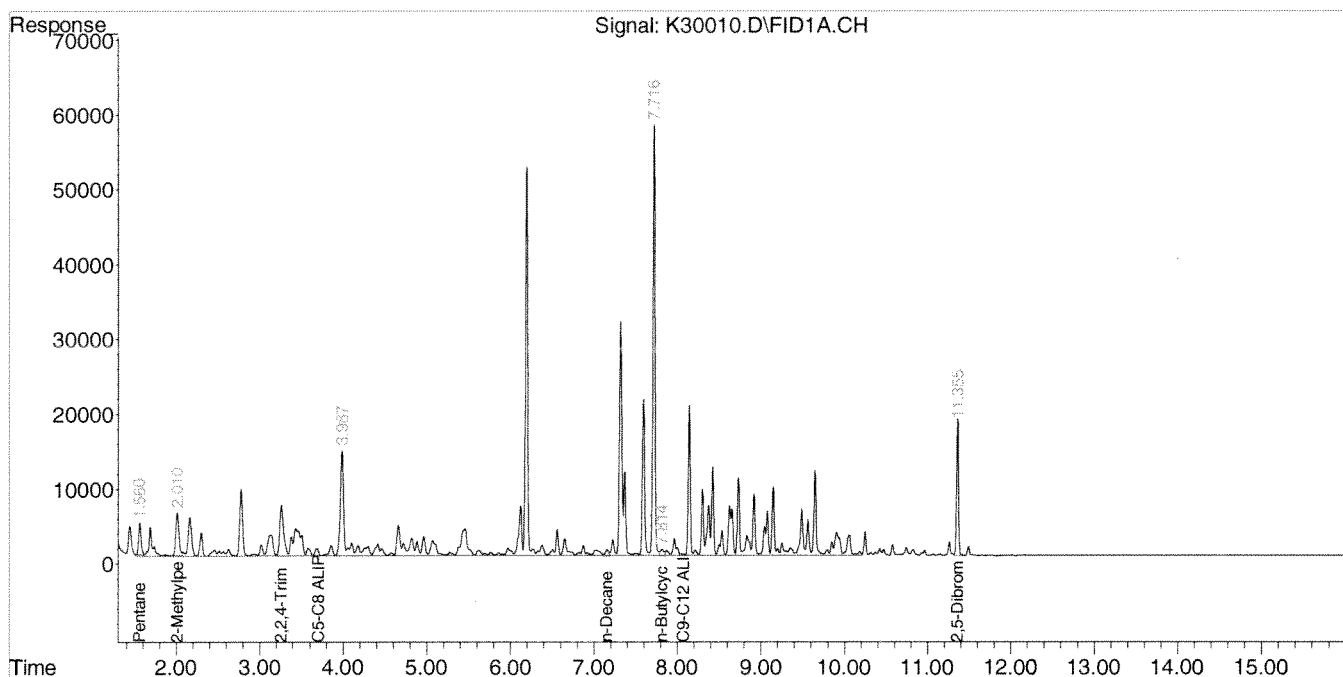
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

Authorized signature: *Marshall*

Data Path : C:\msdchem\1\DATA\111710-K\
 Data File : K30010.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 17 Nov 2010 3:56 pm
 Operator : JJL
 Sample : 68382-3
 Misc : 5000
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 18 08:48:14 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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November 29, 2010

CLIENT SAMPLE ID

Project Name: DEP 2514-10

Project Number:

Client Sample ID: SV-5 (8-11')

SAMPLE DATA

Lab Sample ID: 68382-4
Matrix: Solid
Percent Solid: 90
Dilution Factor: 302
Collection Date: 11/12/10
Lab Receipt Date: 11/16/10
Analysis Date: 11/17/10

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	15100	µg/kg	116000
Unadjusted C9-C12 Aliphatics ¹	N/A	15100	µg/kg	151000
Benzene	C5-C8	603	µg/kg	U
Ethylbenzene	C9-C12	603	µg/kg	8080
Methyl-tert-butyl ether	C5-C8	603	µg/kg	U
Naphthalene	N/A	603	µg/kg	U
Toluene	C5-C8	603	µg/kg	U
m- & p-Xylenes	C9-C12	1206	µg/kg	1020 J
o-Xylene	C9-C12	603	µg/kg	1450
C5-C8 Aliphatic Hydrocarbons ^{1,2}	N/A	15100	µg/kg	116000
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	15100	µg/kg	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	3015	µg/kg	144000
Surrogate % Recovery (2,5-Dibromotoluene) PID				118
Surrogate % Recovery (2,5-Dibromotoluene) FID				125
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-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

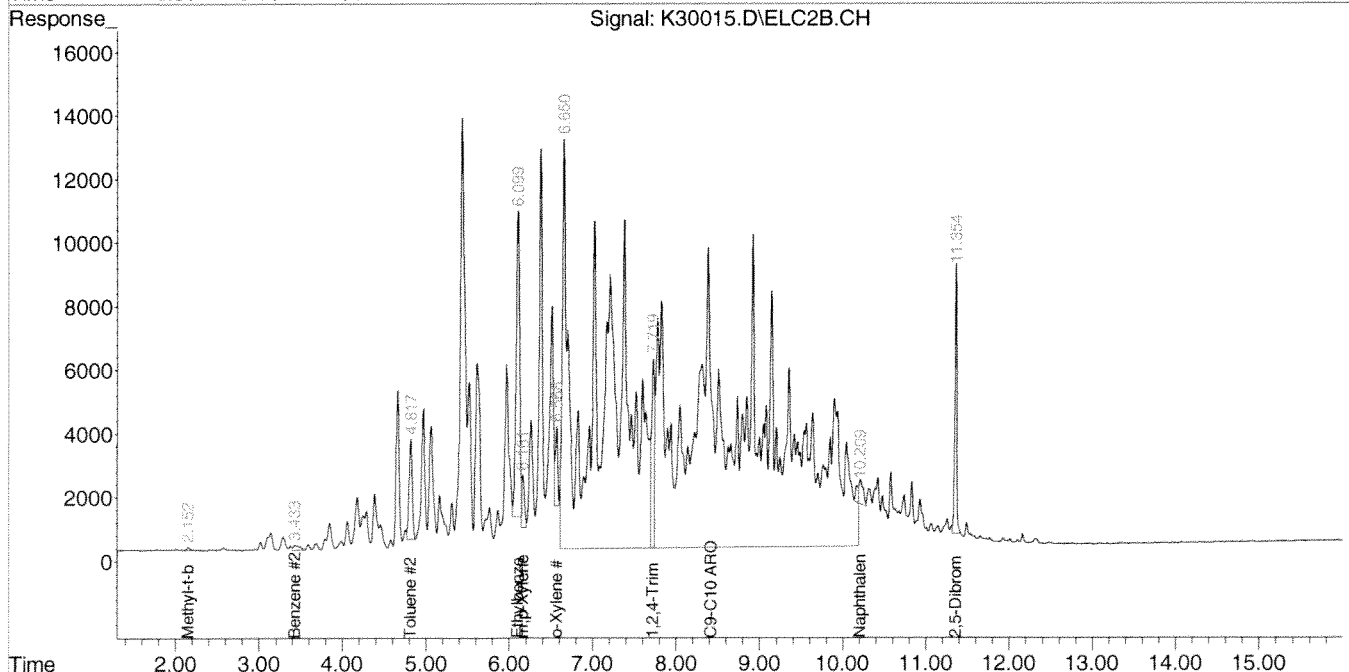
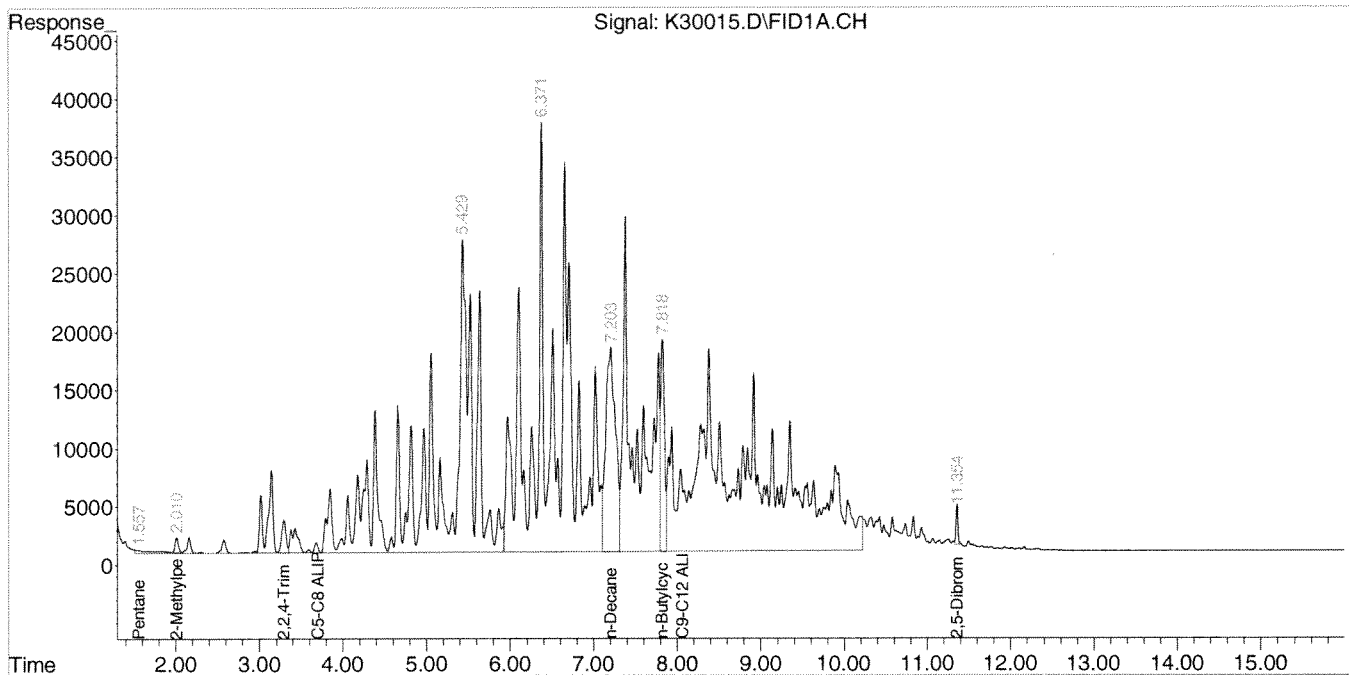
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
 Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: *M. Full*

Data Path : C:\msdchem\1\DATA\111710-K\
Data File : K30015.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 17 Nov 2010 6:00 pm
Operator : JJL
Sample : 68382-4,5X
Misc : 20,12.22,SOIL,,12 ML FV,,JJL
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 18 12:13:09 2010
Quant Method : C:\msdchem\1\METHODS\VP110810.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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November 29, 2010

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: DEP 2514-10
Project Number:
Client Sample ID: SV-5A (8-11')

Lab Sample ID: 68382-5
Matrix: Solid
Percent Solid: 89
Dilution Factor: 288.4
Collection Date: 11/12/10
Lab Receipt Date: 11/16/10
Analysis Date: 11/17/10

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	14400	µg/kg	118000
Unadjusted C9-C12 Aliphatics ¹	N/A	14400	µg/kg	145000
Benzene	C5-C8	577	µg/kg	U
Ethylbenzene	C9-C12	577	µg/kg	8180
Methyl-tert-butyl ether	C5-C8	577	µg/kg	U
Naphthalene	N/A	577	µg/kg	U
Toluene	C5-C8	577	µg/kg	U
m- & p-Xylenes	C9-C12	1154	µg/kg	U
o-Xylene	C9-C12	577	µg/kg	1570
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	14400	µg/kg	118000
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	14400	µg/kg	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	2884	µg/kg	136000
Surrogate % Recovery (2,5-Dibromotoluene) PID				112
Surrogate % Recovery (2,5-Dibromotoluene) FID				113
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-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

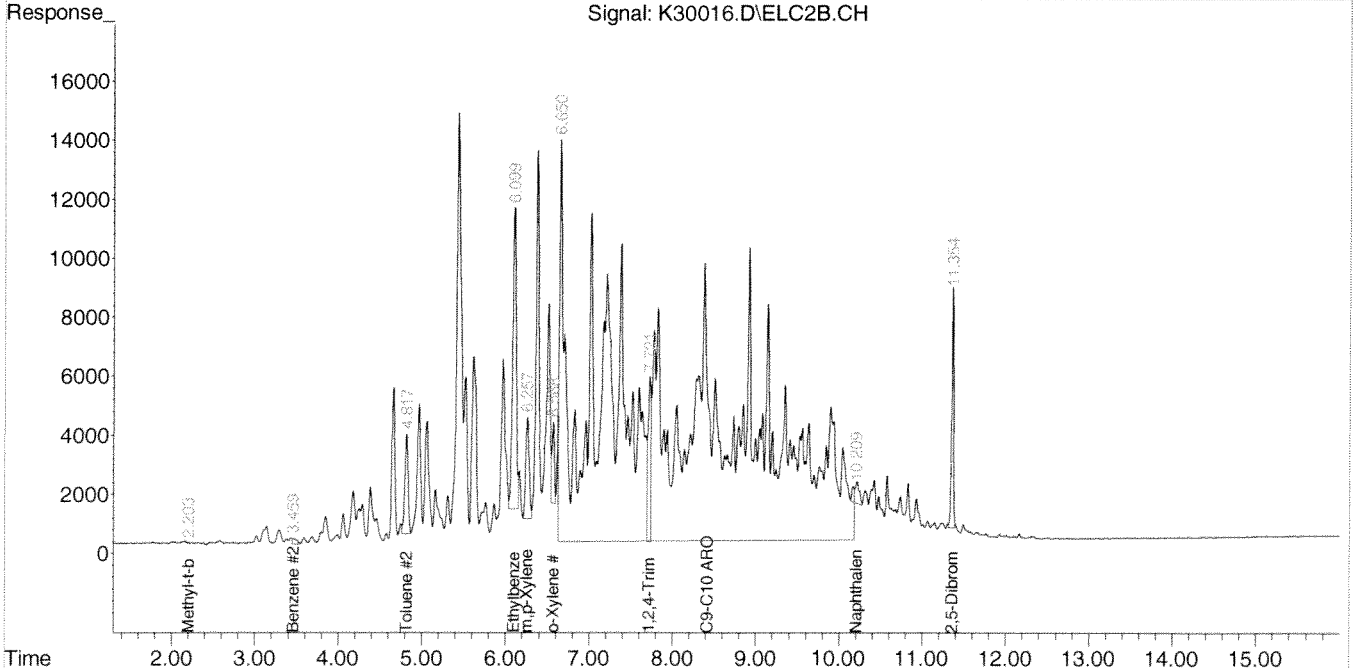
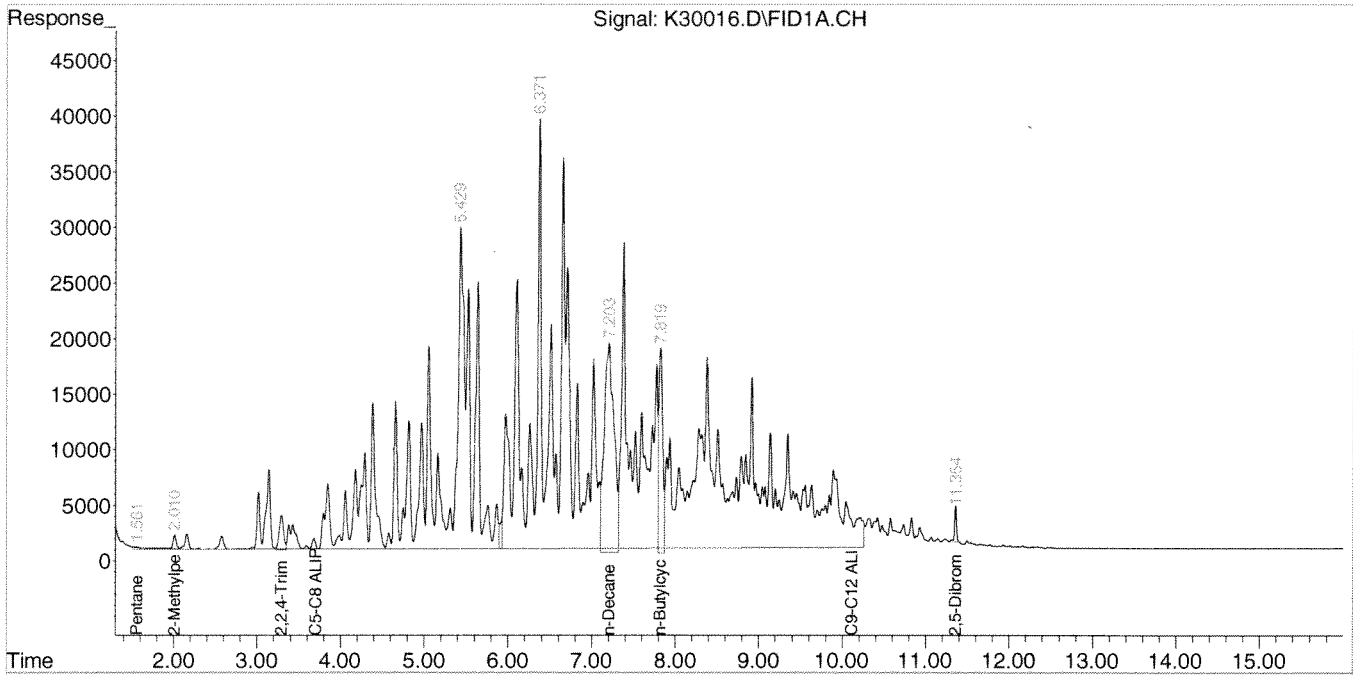
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
 Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: 

Data Path : C:\msdchem\1\DATA\111710-K\
Data File : K30016.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 17 Nov 2010 6:25 pm
Operator : JJL
Sample : 68382-5,5X
Misc : 20,12.95,SOIL,,12 ML FV,,JJL
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 18 12:21:34 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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November 29, 2010

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: DEP 2514-10
Project Number:
Client Sample ID: SS-3 (4-7')

Lab Sample ID: 68382-6
Matrix: Solid
Percent Solid: 92
Dilution Factor: 113.7
Collection Date: 11/12/10
Lab Receipt Date: 11/16/10
Analysis Date: 11/18/10


VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	5686	µg/kg	U
Unadjusted C9-C12 Aliphatics ¹	N/A	5686	µg/kg	24300
Benzene	C5-C8	227	µg/kg	U
Ethylbenzene	C9-C12	227	µg/kg	268
Methyl-tert-butyl ether	C5-C8	227	µg/kg	U
Naphthalene	N/A	227	µg/kg	478
Toluene	C5-C8	227	µg/kg	U
m- & p-Xylenes	C9-C12	455	µg/kg	U
o-Xylene	C9-C12	227	µg/kg	U
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	5686	µg/kg	U
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	5686	µg/kg	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	1137	µg/kg	34400
Surrogate % Recovery (2,5-Dibromotoluene) PID				112
Surrogate % Recovery (2,5-Dibromotoluene) FID				128
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-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

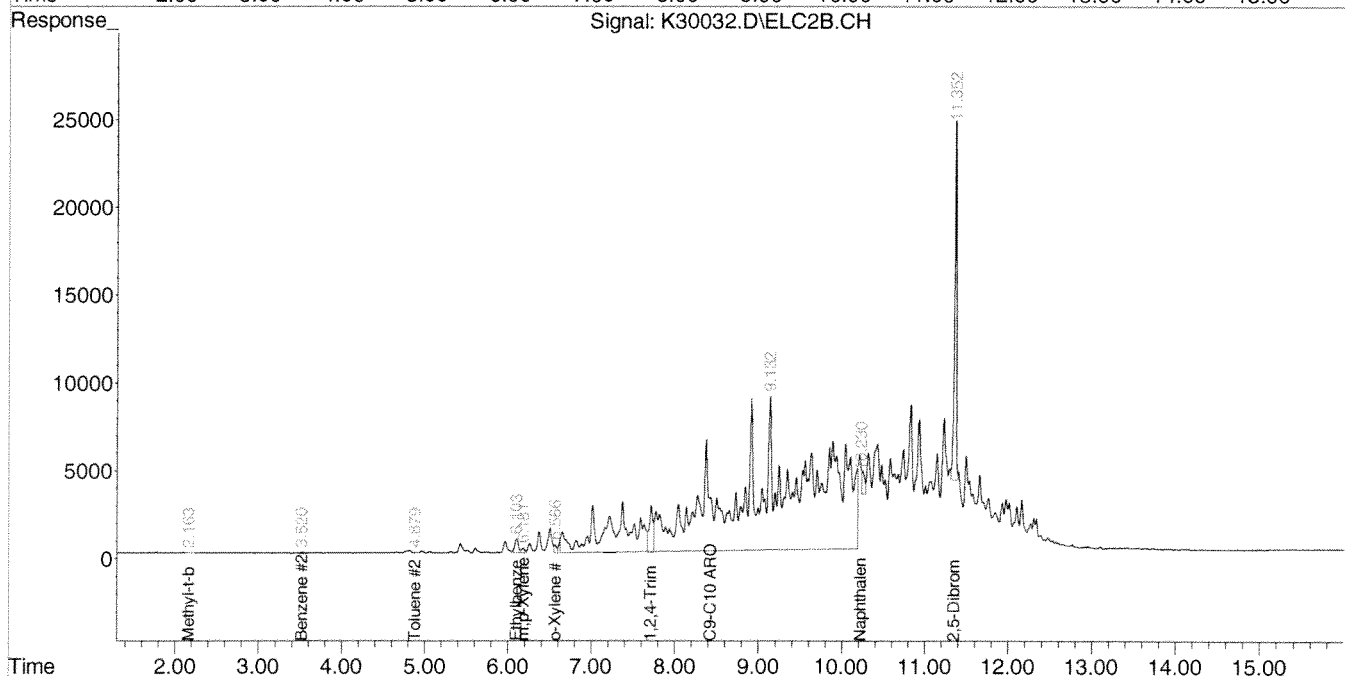
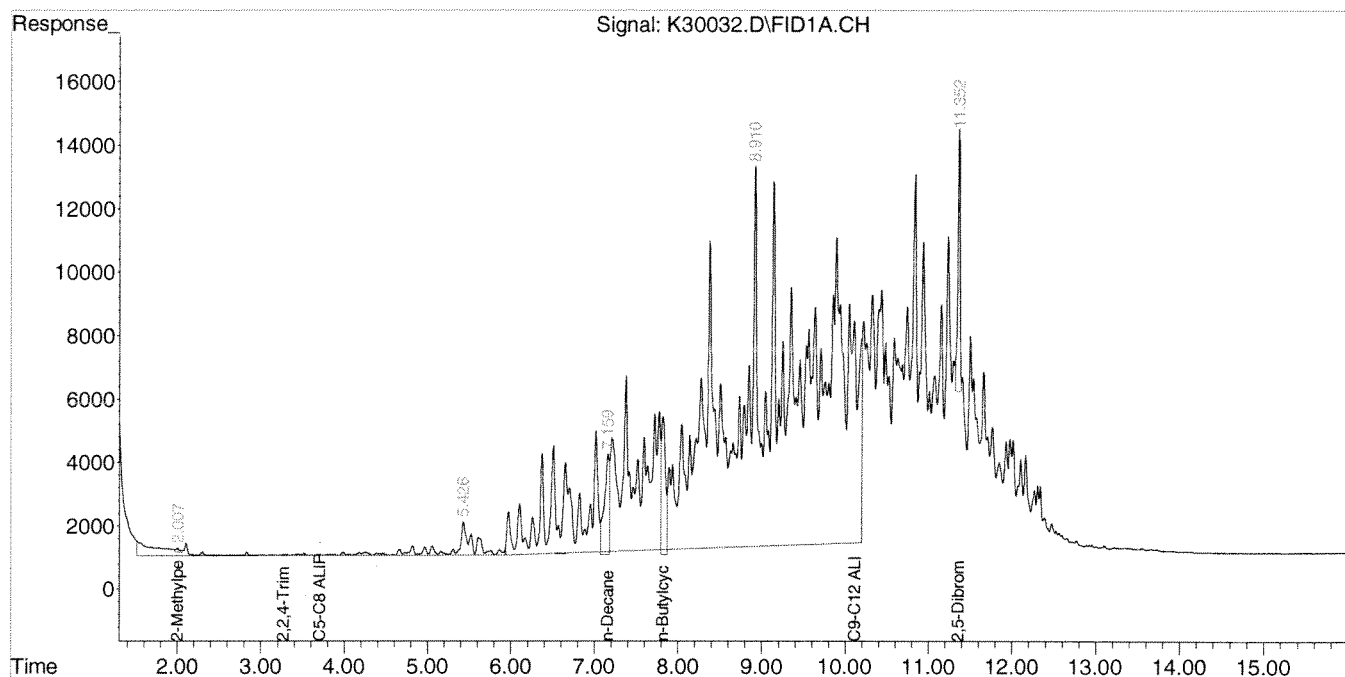
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: 

Data Path : C:\msdchem\1\DATA\111810-K\
 Data File : K30032.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 18 Nov 2010 5:58 pm
 Operator : JJL
 Sample : 68382-6,2X
 Misc : 50,13.34,SOIL,,13 ML FV
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 19 11:51:41 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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November 29, 2010

SAMPLE DATA


CLIENT SAMPLE ID
Project Name: DEP 2514-10
Project Number:
Field Sample ID: MW-1

Lab Sample ID: 68382-7
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 11/12/10
Lab Receipt Date: 11/16/10
Analysis Date: 11/24/10

ANALYTICAL RESULTS VOLATILE ORGANICS					
COMPOUND	Quantitation Limit µg/L	Result µg/L	COMPOUND	Quantitation Limit µg/L	Result µg/L
Benzene	1	U	1,3-Dichloropropane	1	U
Bromobenzene	1	U	cis-1,3-Dichloropropene	1	U
Bromochloromethane	1	U	trans-1,3-Dichloropropene	1	U
Bromodichloromethane	1	U	2,2-Dichloropropane	1	U
Bromoform	1	U	1,1-Dichloropropene	1	U
Bromomethane	2	U	Ethylbenzene	1	0.6 J
n-butylbenzene	1	U	Hexachlorobutadiene	1	U
sec-butylbenzene	1	U	Isopropylbenzene	1	U
tert-butylbenzene	1	U	p-isopropyltoluene	1	0.7 J
Carbon Tetrachloride	1	U	Methylene Chloride	5	U
Chlorobenzene	1	U	Methyl-tert-butyl ether (MTBE)	1	U
Chloroethane	1	U	Naphthalene	1	2.1
Chloroform	1	U	n-Propylbenzene	1	U
Chloromethane	1	U	Styrene	1	U
2-Chlorotoluene	1	U	1,1,1,2-Tetrachloroethane	1	U
4-Chlorotoluene	1	U	1,1,2,2-Tetrachloroethane	1	U
Dibromochloromethane	1	U	Tetrachloroethene	1	U
1,2-Dibromo-3-chloropropane	1	U	Toluene	1	U
1,2-Dibromoethane	1	U	1,2,3-Trichlorobenzene	1	U
Dibromomethane	1	U	1,2,4-Trichlorobenzene	1	U
1,2-Dichlorobenzene	1	U	1,1,1-Trichloroethane	1	U
1,3-Dichlorobenzene	1	U	1,1,2-Trichloroethane	1	U
1,4-Dichlorobenzene	1	U	Trichloroethene	1	U
Dichlorodifluoromethane	1	U	Trichlorofluoromethane	1	U
1,1-Dichloroethane	1	U	1,2,3-Trichloropropane	1	U
1,2-Dichloroethane	1	U	1,2,4-Trimethylbenzene	1	4.4
1,1-Dichloroethene	1	U	1,3,5-Trimethylbenzene	1	0.9 J
cis-1,2-Dichloroethene	1	U	Vinyl Chloride	1	U
trans-1,2-Dichloroethene	1	U	o-Xylene	1	U
1,2-Dichloropropane	1	U	m,p-Xylene	1	U
Acetone	10	U	Diethyl ether	1	U
Carbon Disulfide	1	U	2-Hexanone	10	U
Tetrahydrofuran	2	U	Methyl isobutyl ketone	10	U
Methyl ethyl ketone	10	U	Di-isopropyl ether (DIPE)	1	U
t-Butyl alcohol (TBA)	20	U	Ethyl t-butyl ether (ETBE)	1	U
t-Amyl methyl ether (TAME)	1	U	1,3,5-Trichlorobenzene	1	U
Surrogate Standard Recovery					
d4-1,2-Dichloroethane	106	%	d8-Toluene	99	%
			Bromofluorobenzene	103	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank					

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS:

Authorized signature 

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

November 29, 2010

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: DEP 2514-10
Project Number:
Client Sample ID: MW-1

Lab Sample ID: 68382-7
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 11/12/10
Lab Receipt Date: 11/16/10
Analysis Date: 11/18/10

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	136
Benzene	C5-C8	2	µg/L	U
Ethylbenzene	C9-C12	2	µg/L	1 J
Methyl-tert-butyl ether	C5-C8	2	µg/L	1 J
Naphthalene	N/A	2	µg/L	7
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	237
Surrogate % Recovery (2,5-Dibromotoluene) PID				114
Surrogate % Recovery (2,5-Dibromotoluene) FID				121
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.

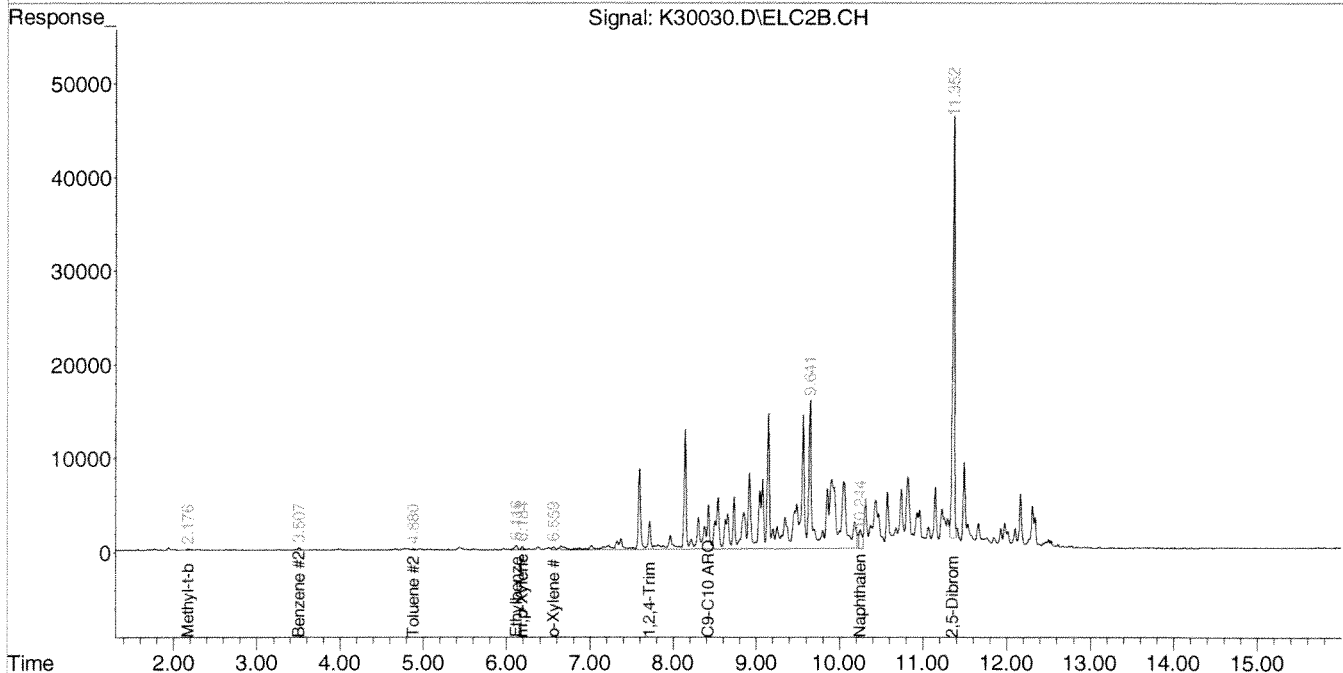
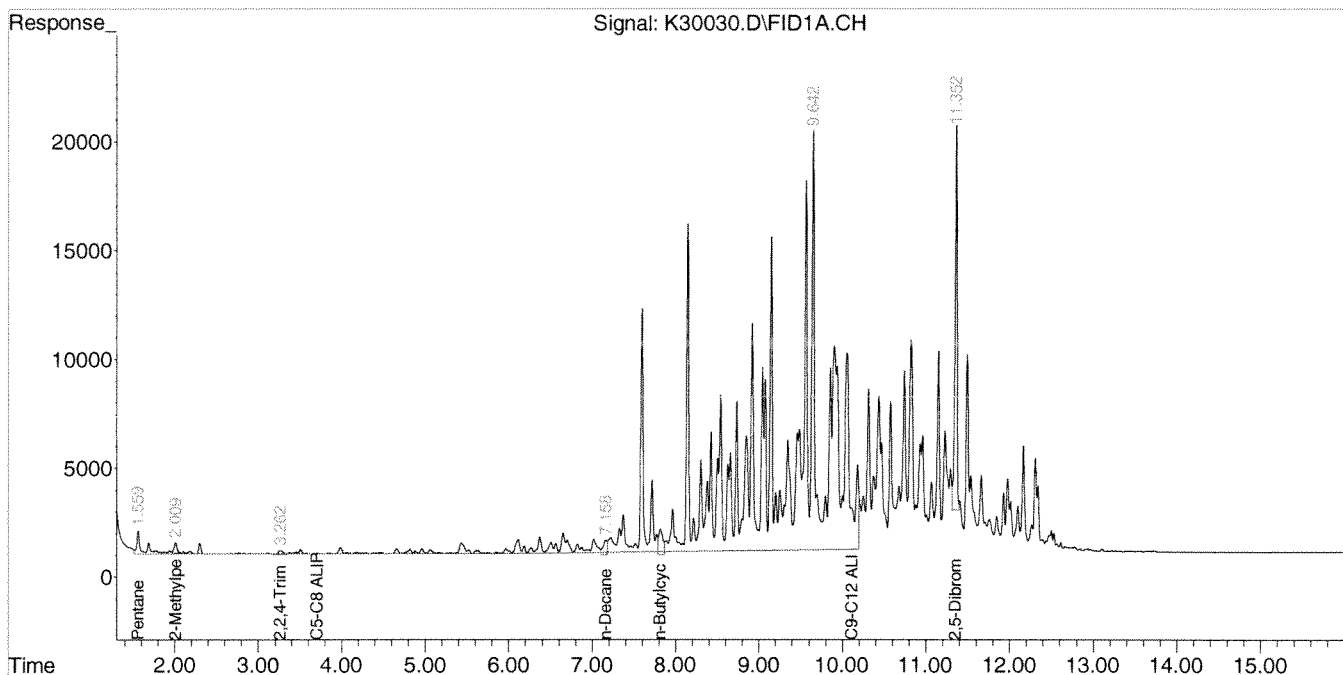
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

Authorized signature: *M. Pullbull*

Data Path : C:\msdchem\1\DATA\111810-K\
Data File : K30030.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 18 Nov 2010 5:09 pm
Operator : JJL
Sample : 68382-7
Misc : 5000
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 11:14:28 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 :



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

November 29, 2010

CLIENT SAMPLE ID

Project Name: DEP 2514-10

Project Number:

Client Sample ID: SV-1

SAMPLE DATA

Lab Sample ID: 68382-8
 Matrix: Solid
 Percent Solid: 92
 Dilution Factor: 282.91
 Collection Date: 11/12/10
 Lab Receipt Date: 11/16/10
 Analysis Date: 11/17/10

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	14100	µg/kg	U
Unadjusted C9-C12 Aliphatics ¹	N/A	14100	µg/kg	51000
Benzene	C5-C8	566	µg/kg	U
Ethylbenzene	C9-C12	566	µg/kg	U
Methyl-tert-butyl ether	C5-C8	566	µg/kg	U
Naphthalene	N/A	566	µg/kg	3210
Toluene	C5-C8	566	µg/kg	U
m- & p-Xylenes	C9-C12	1132	µg/kg	U
o-Xylene	C9-C12	566	µg/kg	U
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	14100	µg/kg	U
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	14100	µg/kg	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	2829	µg/kg	73200
Surrogate % Recovery (2,5-Dibromotoluene) PID				114
Surrogate % Recovery (2,5-Dibromotoluene) FID				123
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-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

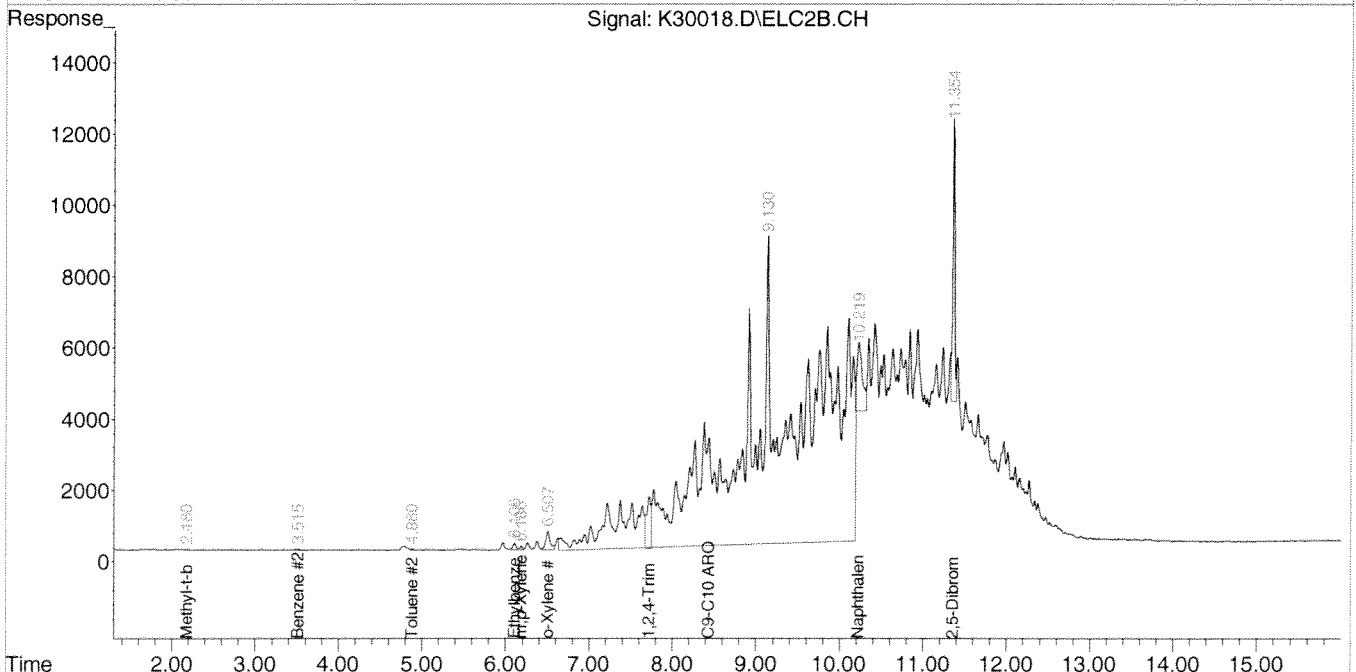
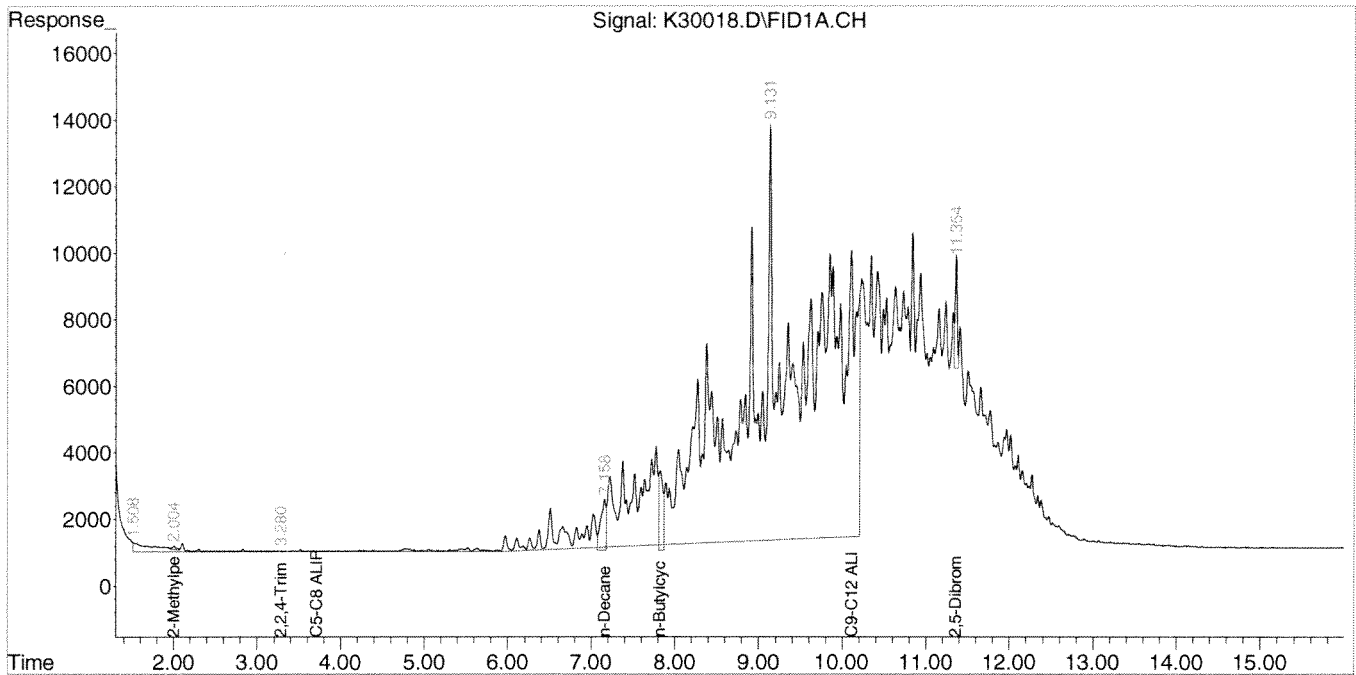
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
 Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: 

Data Path : C:\msdchem\1\DATA\111710-K\
 Data File : K30018.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 17 Nov 2010 7:15 pm
 Operator : JJL
 Sample : 68382-8,5X
 Misc : 20,12.60,SOIL,,12 ML FV
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 18 12:50:04 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 :



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

November 29, 2010

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: DEP 2514-10
Project Number:
Client Sample ID: Trip Blank

Lab Sample ID: 68382-9
Matrix: Solid
Percent Solid: 100
Dilution Factor: 50
Collection Date: 11/12/10
Lab Receipt Date: 11/16/10
Analysis Date: 11/18/10

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				115
Surrogate % Recovery (2,5-Dibromotoluene) FID				113
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-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

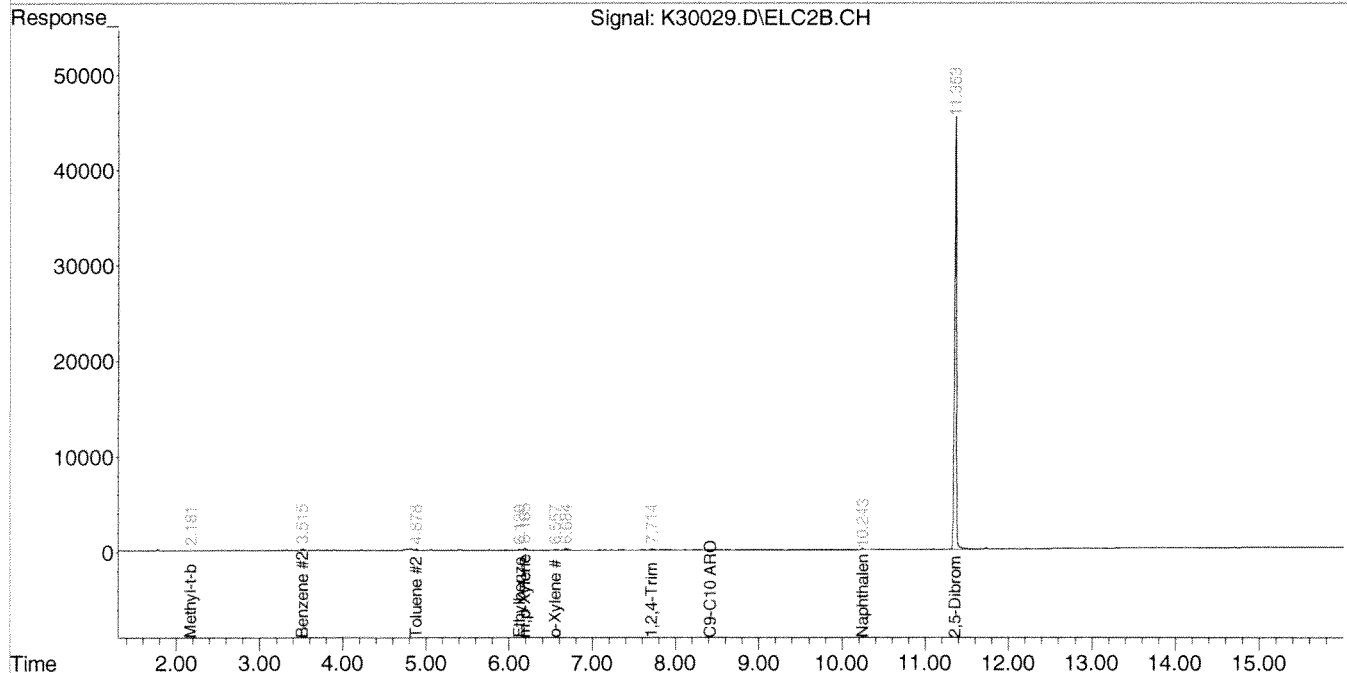
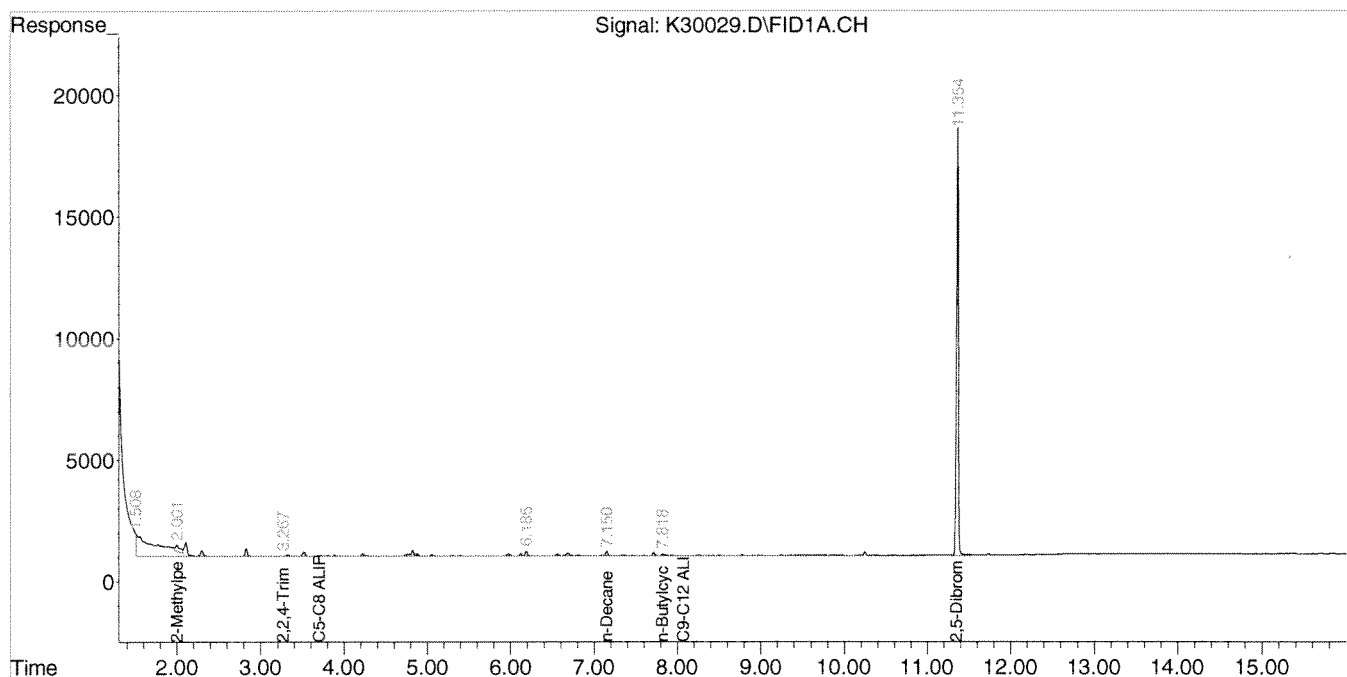
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: 

Data Path : C:\msdchem\1\DATA\111810-K\
 Data File : K30029.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 18 Nov 2010 4:45 pm
 Operator : JJL
 Sample : 68382-9
 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 19 11:12:55 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 :



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

DEP2514-10

SAMPLER NAME

JKC

SAMPLE IDENTIFICATION	# CONTAINERS	TYPE OF CONTAINERS	FIELD FILTRATION		SAMPLE MATRIX	GRAB COMP	METHOD PRESERVED	SAMPLING	
			YES	NO				DATE	TIME
SV-8 (8-9')	2	vial	X		Soil	X	MeOH/5% D5GC	11/12/10	2:20
mw-5	6		X		H2O	X	HCL/5GC		1:30
MW-8	4		X		H2O	X	HCL/5GC		2:50
SV-5 (8-11')	2		X		Soil	X	MeOH/5% D5GC		1:20
SV-5A (8-11')	2		X		Soil	X	MeOH/5% D5GC		1:20
SS-3 (4-7')	2		X		Soil	X	MeOH/5% D5GC		8:44
MW-1	6		X		H2O	X	HCL/5GC		12:45
SV-1	2		X		Soil	X	MeOH/5% D5GC		8:20
Trip Blank	1		X		MeOH	X	MeOH/5GC		

Received within hold time yes no N/A N/A N/A N/A

Received in good condition yes no N/A N/A

Temp. Blank °C 3.8 / Frozen ice packs yes no N/A N/A

Samples received preserved yes no N/A N/A

RELINQUISHED BY SAMPLER: _____

RELINQUISHED BY: K. Hopper DATE: 11/16/10 TIME: 1:20

RELINQUISHED BY: _____ DATE: _____ TIME: _____

COMMENTS: ME DEP EDD (Former MetLife Presque Isle)

RECEIVED BY: _____ DATE: 11/16/10 TIME: _____

RECEIVED BY: _____ DATE: _____ TIME: _____

RECEIVED BY: _____ DATE: _____ TIME: _____

ANALYTICS SAMPLE RECEIPT CHECKLIST



AEL LAB#: 68387 COOLER NUMBER: 86
 CLIENT: MEL NUMBER OF COOLERS: 1
 PROJECT: DP 2514-10 DATE RECEIVED: 11/16/10

A: PRELIMINARY EXAMINATION:

1. Cooler received by(initials): JG DATE COOLER OPENED: 11/17/10
 2. Circle one: Hand delivered (If so, skip 3) Shipped _____ Date Received: 11/16/10
 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: 3.8°

B. Log-In: Date samples were logged in: 11/17/10 By: JG

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): CP Date: 11/17/10



ANALYTICAL REPORT

Lab Number:	L1018287
Client:	Maine DEP-Div. of Technical Services Division of Technical Services 312 Canco Road Portland, ME 04103
ATTN:	Robert Sypitkowski
Phone:	(207) 822-6300
Project Name:	PRESQUE ISLE, ME
Project Number:	Not Specified
Report Date:	11/30/10

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-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: PRESQUE ISLE, ME
Project Number: Not Specified

Lab Number: L1018287
Report Date: 11/30/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1018287-01	SV-1	FORMER MET LIFE	11/12/10 08:25
L1018287-02	SV-1A	FORMER MET LIFE	11/12/10 09:04
L1018287-03	SV-2	FORMER MET LIFE	11/12/10 08:45
L1018287-04	SV-3	FORMER MET LIFE	11/12/10 10:00
L1018287-05	SV-5	FORMER MET LIFE	11/12/10 12:12
L1018287-06	SV-6	FORMER MET LIFE	11/12/10 11:13
L1018287-07	SV-7	FORMER MET LIFE	11/12/10 11:25
L1018287-08	SV-8 (4')	FORMER MET LIFE	11/12/10 14:38

Project Name: PRESQUE ISLE, ME
Project Number: Not Specified

Lab Number: L1018287
Report Date: 11/30/10

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: PRESQUE ISLE, ME
Project Number: Not Specified

Lab Number: L1018287
Report Date: 11/30/10

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.

MCP Related Narratives

Canisters were released from the laboratory on November 8 and 10, 2010.

The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

L1018287-03 through -05 have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the samples. The samples were re-analyzed due to non-target interference with Internal Standard recoveries during the original analysis. The results of the re-analysis are reported.

WG443822-5 Duplicate: The Internal Standard Recovery for Bromochloromethane (142%) and 1,4-Difluorobenzene (151%) are above the 140% criteria, however, the RPDs confirm the results, therefore, no

Project Name: PRESQUE ISLE, ME
Project Number: Not Specified

Lab Number: L1018287
Report Date: 11/30/10

Case Narrative (continued)

further action was taken.

Fixed Gas

L1018287-01 through -03 and -06 through -08: 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.

L1018287-04 and -05: Prior to sample analysis, the canisters were pressurized with UHP Nitrogen in order to facilitate the transfer of sample to the Gas Chromatograph. The addition of Nitrogen resulted in a dilution of the sample. The reporting limits have been elevated accordingly.


Petroleum Hydrocarbons in Air

L1018287-03 through -05 have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample. The samples were re-analyzed due to internal standard failure during the original analysis. The results of the re-analysis are reported.

L1018287-07 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample. The sample was re-analyzed on dilution in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

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

Authorized Signature:



Kathleen O'Brien

Title: Technical Director/Representative

Date: 11/30/10

AIR

Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018287-01
 Client ID: SV-1
 Sample Location: FORMER MET LIFE
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 11/18/10 20:32
 Analyst: RY

Date Collected: 11/12/10 08:25
 Date Received: 11/16/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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	0.302	0.200	--	1.65	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	95		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	101		60-140



Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018287-02
 Client ID: SV-1A
 Sample Location: FORMER MET LIFE
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 11/18/10 21:06
 Analyst: RY

Date Collected: 11/12/10 09:04
 Date Received: 11/16/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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	0.379	0.200	--	2.07	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	100		60-140
Bromochloromethane	106		60-140
chlorobenzene-d5	103		60-140



Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018287-03 D
 Client ID: SV-2
 Sample Location: FORMER MET LIFE
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 11/20/10 02:41
 Analyst: RY

Date Collected: 11/12/10 08:45
 Date Received: 11/16/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,1-Dichloroethene	ND	2.00	--	ND	7.92	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.92	--		10
1,1-Dichloroethane	ND	2.00	--	ND	8.09	--		10
cis-1,2-Dichloroethene	ND	2.00	--	ND	7.92	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
1,1,1-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Trichloroethene	ND	2.00	--	ND	10.7	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	ND	2.00	--	ND	13.6	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	62		60-140
Bromochloromethane	64		60-140
chlorobenzene-d5	78		60-140



Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018287-04 D
 Client ID: SV-3
 Sample Location: FORMER MET LIFE
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 11/20/10 11:38
 Analyst: RY

Date Collected: 11/12/10 10:00
 Date Received: 11/16/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	27.2	--	ND	69.6	--		136.2
1,1-Dichloroethene	ND	27.2	--	ND	108.	--		136.2
trans-1,2-Dichloroethene	ND	27.2	--	ND	108.	--		136.2
1,1-Dichloroethane	ND	27.2	--	ND	110.	--		136.2
cis-1,2-Dichloroethene	ND	27.2	--	ND	108.	--		136.2
1,2-Dichloroethane	ND	27.2	--	ND	110.	--		136.2
1,1,1-Trichloroethane	ND	27.2	--	ND	148.	--		136.2
Trichloroethene	ND	27.2	--	ND	146.	--		136.2
1,2-Dibromoethane	ND	27.2	--	ND	209.	--		136.2
Tetrachloroethene	ND	27.2	--	ND	185.	--		136.2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	61		60-140
Bromochloromethane	66		60-140
chlorobenzene-d5	74		60-140



Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018287-05 D
 Client ID: SV-5
 Sample Location: FORMER MET LIFE
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 11/19/10 12:28
 Analyst: RY

Date Collected: 11/12/10 12:12
 Date Received: 11/16/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	24.7	--	ND	63.1	--		123.6
1,1-Dichloroethene	ND	24.7	--	ND	97.9	--		123.6
trans-1,2-Dichloroethene	ND	24.7	--	ND	97.9	--		123.6
1,1-Dichloroethane	ND	24.7	--	ND	100.	--		123.6
cis-1,2-Dichloroethene	ND	24.7	--	ND	97.9	--		123.6
1,2-Dichloroethane	ND	24.7	--	ND	100.	--		123.6
1,1,1-Trichloroethane	ND	24.7	--	ND	135.	--		123.6
Trichloroethene	ND	24.7	--	ND	133.	--		123.6
1,2-Dibromoethane	ND	24.7	--	ND	190.	--		123.6
Tetrachloroethene	ND	24.7	--	ND	168.	--		123.6

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	126		60-140
Bromochloromethane	129		60-140
chlorobenzene-d5	133		60-140



Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018287-06
 Client ID: SV-6
 Sample Location: FORMER MET LIFE
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 11/18/10 23:25
 Analyst: RY

Date Collected: 11/12/10 11:13
 Date Received: 11/16/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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	0.864	0.200	--	4.71	1.09	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.229	0.200	--	1.55	1.36	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	133		60-140
Bromochloromethane	130		60-140
chlorobenzene-d5	126		60-140



Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018287-07 D
 Client ID: SV-7
 Sample Location: FORMER MET LIFE
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 11/19/10 00:36
 Analyst: RY

Date Collected: 11/12/10 11:25
 Date Received: 11/16/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	0.500	--	ND	1.28	--		2.5
1,1-Dichloroethene	ND	0.500	--	ND	1.98	--		2.5
trans-1,2-Dichloroethene	ND	0.500	--	ND	1.98	--		2.5
1,1-Dichloroethane	ND	0.500	--	ND	2.02	--		2.5
cis-1,2-Dichloroethene	ND	0.500	--	ND	1.98	--		2.5
1,2-Dichloroethane	ND	0.500	--	ND	2.02	--		2.5
1,1,1-Trichloroethane	1.67	0.500	--	9.09	2.72	--		2.5
Trichloroethene	ND	0.500	--	ND	2.68	--		2.5
1,2-Dibromoethane	ND	0.500	--	ND	3.84	--		2.5
Tetrachloroethene	ND	0.500	--	ND	3.39	--		2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	138		60-140
Bromochloromethane	133		60-140
chlorobenzene-d5	132		60-140



Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018287-08
 Client ID: SV-8 (4')
 Sample Location: FORMER MET LIFE
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 11/19/10 01:12
 Analyst: RY

Date Collected: 11/12/10 14:38
 Date Received: 11/16/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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	0.237	0.200	--	1.29	1.09	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	1.96	0.200	--	13.3	1.36	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	132		60-140
Bromochloromethane	131		60-140
chlorobenzene-d5	131		60-140



Project Name: PRESQUE ISLE, ME

Lab Number: L1018287

Project Number: Not Specified

Report Date: 11/30/10

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 11/18/10 16:53

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01-02,05-08 Batch: WG443822-4								
Propylene	ND	0.200	--	ND	0.344	--		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
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		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
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.37	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
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



Project Name: PRESQUE ISLE, ME

Lab Number: L1018287

Project Number: Not Specified

Report Date: 11/30/10

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 11/18/10 16:53

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01-02,05-08 Batch: WG443822-4								
Chloroform	ND	0.200	--	ND	0.976	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.589	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.704	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		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
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
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
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.819	--		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
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
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.920	--		1
Ethylbenzene	ND	0.200	--	ND	0.868	--		1

Project Name: PRESQUE ISLE, ME

Lab Number: L1018287

Project Number: Not Specified

Report Date: 11/30/10

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 11/18/10 16:53

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01-02,05-08 Batch: WG443822-4								
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
4-Ethyltoluene	ND	0.200	--	ND	0.982	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.982	--		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
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: PRESQUE ISLE, ME

Lab Number: L1018287

Project Number: Not Specified

Report Date: 11/30/10

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 11/19/10 17:20

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 03-04 Batch: WG443822-9								
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: PRESQUE ISLE, ME

Project Number: Not Specified

Lab Number: L1018287

Report Date: 11/30/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-02,05-08 Batch: WG443822-3								
Vinyl chloride	98		-		70-130	-		
1,1-Dichloroethene	102		-		70-130	-		
trans-1,2-Dichloroethene	92		-		70-130	-		
1,1-Dichloroethane	96		-		70-130	-		
cis-1,2-Dichloroethene	98		-		70-130	-		
1,2-Dichloroethane	107		-		70-130	-		
1,1,1-Trichloroethane	107		-		70-130	-		
Trichloroethene	99		-		70-130	-		
1,2-Dibromoethane	96		-		70-130	-		
Tetrachloroethene	99		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: PRESQUE ISLE, ME

Project Number: Not Specified

Lab Number: L1018287

Report Date: 11/30/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 03-04 Batch: WG443822-8								
Vinyl chloride	98		-		70-130	-		
1,1-Dichloroethene	99		-		70-130	-		
trans-1,2-Dichloroethene	91		-		70-130	-		
1,1-Dichloroethane	97		-		70-130	-		
cis-1,2-Dichloroethene	97		-		70-130	-		
1,2-Dichloroethane	93		-		70-130	-		
1,1,1-Trichloroethane	90		-		70-130	-		
Trichloroethene	97		-		70-130	-		
1,2-Dibromoethane	106		-		70-130	-		
Tetrachloroethene	107		-		70-130	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: PRESQUE ISLE, ME

Project Number: Not Specified

Lab Number: L1018287

Report Date: 11/30/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG443822-5 QC Sample: L1018287-06 Client ID: SV-6						
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	0.864	0.800	ppbV	8		25
Trichloroethene	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	0.229	0.245	ppbV	7		25

Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018287-01 D
Client ID: SV-1
Sample Location: FORMER MET LIFE
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 11/29/10 17:23
Analyst: BS

Date Collected: 11/12/10 08:25
Date Received: 11/16/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	18.3		%	1.61	--	1.614
Carbon Dioxide	1.04		%	0.161	--	1.614
Methane	ND		%	0.161	--	1.614

Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018287-02 D
Client ID: SV-1A
Sample Location: FORMER MET LIFE
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 11/29/10 18:01
Analyst: BS

Date Collected: 11/12/10 09:04
Date Received: 11/16/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	18.6		%	1.55	--	1.553
Carbon Dioxide	1.32		%	0.155	--	1.553
Methane	ND		%	0.155	--	1.553

Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018287-03 D
Client ID: SV-2
Sample Location: FORMER MET LIFE
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 11/29/10 18:39
Analyst: BS

Date Collected: 11/12/10 08:45
Date Received: 11/16/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	18.3		%	1.63	--	1.635
Carbon Dioxide	1.70		%	0.163	--	1.635
Methane	ND		%	0.163	--	1.635

Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018287-04 D
Client ID: SV-3
Sample Location: FORMER MET LIFE
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 11/29/10 19:17
Analyst: BS

Date Collected: 11/12/10 10:00
Date Received: 11/16/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	18.7		%	1.70	--	1.703
Carbon Dioxide	0.676		%	0.170	--	1.703
Methane	ND		%	0.170	--	1.703

Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018287-05 D
Client ID: SV-5
Sample Location: FORMER MET LIFE
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 11/29/10 19:55
Analyst: BS

Date Collected: 11/12/10 12:12
Date Received: 11/16/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	18.6		%	1.54	--	1.545
Carbon Dioxide	0.349		%	0.154	--	1.545
Methane	ND		%	0.154	--	1.545

Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018287-06 D
Client ID: SV-6
Sample Location: FORMER MET LIFE
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 11/29/10 20:33
Analyst: BS

Date Collected: 11/12/10 11:13
Date Received: 11/16/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	19.5		%	1.91	--	1.909
Carbon Dioxide	ND		%	0.191	--	1.909
Methane	ND		%	0.191	--	1.909

Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018287-07 D
Client ID: SV-7
Sample Location: FORMER MET LIFE
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 11/29/10 21:11
Analyst: BS

Date Collected: 11/12/10 11:25
Date Received: 11/16/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	19.8		%	1.62	--	1.619
Carbon Dioxide	ND		%	0.162	--	1.619
Methane	ND		%	0.162	--	1.619

Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018287-08 D
Client ID: SV-8 (4')
Sample Location: FORMER MET LIFE
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 11/29/10 21:50
Analyst: BS

Date Collected: 11/12/10 14:38
Date Received: 11/16/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	19.3		%	1.82	--	1.822
Carbon Dioxide	ND		%	0.182	--	1.822
Methane	ND		%	0.182	--	1.822

Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**Method Blank Analysis
Batch Quality Control**

Analytical Method: 51,3C

Analytical Date: 11/29/10 17:01

Analyst: BS

Parameter	Result	Qualifier	Units	RL	MDL
Fixed Gases by GC - Mansfield Lab for sample(s): 01-08 Batch: WG445289-2					
Oxygen	ND		%	1.00	--
Carbon Dioxide	ND		%	0.100	--
Methane	ND		%	0.100	--

Lab Control Sample Analysis Batch Quality Control

Project Name: PRESQUE ISLE, ME

Lab Number: L1018287

Project Number: Not Specified

Report Date: 11/30/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-08 Batch: WG445289-1								
Oxygen	96		-		80-120	-		
Carbon Dioxide	110		-		80-120	-		
Methane	100		-		80-120	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: PRESQUE ISLE, ME

Project Number: Not Specified

Lab Number: L1018287

Report Date: 11/30/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG445289-10 QC Sample: L1018287-08 Client ID: SV-8 (4')						
Oxygen	19.3	19.3	%	0		5
Carbon Dioxide	ND	ND	%	NC		5
Methane	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG445289-11 QC Sample: L1018289-01 Client ID: DUP Sample						
Oxygen	19.2	19.2	%	0		5
Carbon Dioxide	0.162	0.165	%	2		5
Methane	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG445289-12 QC Sample: L1018289-02 Client ID: DUP Sample						
Oxygen	19.4	19.4	%	0		5
Carbon Dioxide	0.268	0.267	%	0		5
Methane	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG445289-3 QC Sample: L1018287-01 Client ID: SV-1						
Oxygen	18.3	18.9	%	3		5
Carbon Dioxide	1.04	1.04	%	0		5
Methane	ND	ND	%	NC		5

Lab Duplicate Analysis

Batch Quality Control

Project Name: PRESQUE ISLE, ME

Project Number: Not Specified

Lab Number: L1018287

Report Date: 11/30/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG445289-4 QC Sample: L1018287-02 Client ID: SV-1A					
Oxygen	18.6	18.6	%	0	5
Carbon Dioxide	1.32	1.32	%	0	5
Methane	ND	ND	%	NC	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG445289-5 QC Sample: L1018287-03 Client ID: SV-2					
Oxygen	18.3	18.3	%	0	5
Carbon Dioxide	1.70	1.69	%	1	5
Methane	ND	ND	%	NC	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG445289-6 QC Sample: L1018287-04 Client ID: SV-3					
Oxygen	18.7	18.8	%	1	5
Carbon Dioxide	0.676	0.676	%	0	5
Methane	ND	ND	%	NC	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG445289-7 QC Sample: L1018287-05 Client ID: SV-5					
Oxygen	18.6	18.2	%	2	5
Carbon Dioxide	0.349	0.352	%	1	5
Methane	ND	ND	%	NC	5

Lab Duplicate Analysis

Batch Quality Control

Project Name: PRESQUE ISLE, ME

Project Number: Not Specified

Lab Number: L1018287

Report Date: 11/30/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG445289-8 QC Sample: L1018287-06 Client ID: SV-6					
Oxygen	19.5	19.6	%	1	5
Carbon Dioxide	ND	ND	%	NC	5
Methane	ND	ND	%	NC	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG445289-9 QC Sample: L1018287-07 Client ID: SV-7					
Oxygen	19.8	19.8	%	0	5
Carbon Dioxide	ND	ND	%	NC	5
Methane	ND	ND	%	NC	5

Project Name: PRESQUE ISLE, ME
Project Number: Not Specified

Lab Number: L1018287
Report Date: 11/30/10

SAMPLE RESULTS

Lab ID: L1018287-01
 Client ID: SV-1
 Sample Location: FORMER MET LIFE
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 11/18/10 20:32
 Analyst: RY

Date Collected: 11/12/10 08:25
 Date Received: 11/16/10
 Field Prep: Not Specified

Quality Control Information

Sample Type:	30 minute 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

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	5.1		ug/m3	2.0	--	1
Toluene	30		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	440		ug/m3	12	--	1
Ethylbenzene	7.6		ug/m3	2.0	--	1
p/m-Xylene	20		ug/m3	4.0	--	1
o-Xylene	5.6		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	1100		ug/m3	14	--	1
C9-C10 Aromatics Total	50		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		50-200
Bromochloromethane	101		50-200
Chlorobenzene-d5	105		50-200

Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018287-02
 Client ID: SV-1A
 Sample Location: FORMER MET LIFE
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 11/18/10 21:06
 Analyst: RY

Date Collected: 11/12/10 09:04
 Date Received: 11/16/10
 Field Prep: Not Specified

Quality Control Information

Sample Type: 30 minute 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

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	4.0		ug/m3	2.0	--	1
Toluene	24		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	440		ug/m3	12	--	1
Ethylbenzene	8.7		ug/m3	2.0	--	1
p/m-Xylene	21		ug/m3	4.0	--	1
o-Xylene	5.0		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	1600		ug/m3	14	--	1
C9-C10 Aromatics Total	35		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	108		50-200
Bromochloromethane	109		50-200
Chlorobenzene-d5	107		50-200

Project Name: PRESQUE ISLE, ME
Project Number: Not Specified

Lab Number: L1018287
Report Date: 11/30/10

SAMPLE RESULTS

Lab ID: L1018287-03 D
 Client ID: SV-2
 Sample Location: FORMER MET LIFE
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 11/19/10 10:27
 Analyst: RY

Date Collected: 11/12/10 08:45
 Date Received: 11/16/10
 Field Prep: Not Specified

Quality Control Information

Sample Type:	30 minute 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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	7.4		ug/m3	5.0	--	2.5
Methyl tert butyl ether	ND		ug/m3	5.0	--	2.5
Benzene	6.2		ug/m3	5.0	--	2.5
Toluene	43		ug/m3	5.0	--	2.5
C5-C8 Aliphatics, Adjusted	7500		ug/m3	30	--	2.5
Ethylbenzene	27		ug/m3	5.0	--	2.5
p/m-Xylene	73		ug/m3	10	--	2.5
o-Xylene	17		ug/m3	5.0	--	2.5
Naphthalene	ND		ug/m3	5.0	--	2.5
C9-C12 Aliphatics, Adjusted	230		ug/m3	35	--	2.5
C9-C10 Aromatics Total	ND		ug/m3	25	--	2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	150		50-200
Bromochloromethane	142		50-200
Chlorobenzene-d5	171		50-200

Project Name: PRESQUE ISLE, ME
Project Number: Not Specified

Lab Number: L1018287
Report Date: 11/30/10

SAMPLE RESULTS

Lab ID: L1018287-04 D
 Client ID: SV-3
 Sample Location: FORMER MET LIFE
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 11/19/10 11:01
 Analyst: RY

Date Collected: 11/12/10 10:00
 Date Received: 11/16/10
 Field Prep: Not Specified

Quality Control Information

Sample Type:	30 minute 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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	20	--	10
Methyl tert butyl ether	ND		ug/m3	20	--	10
Benzene	ND		ug/m3	20	--	10
Toluene	ND		ug/m3	20	--	10
C5-C8 Aliphatics, Adjusted	35000		ug/m3	120	--	10
Ethylbenzene	28		ug/m3	20	--	10
p/m-Xylene	94		ug/m3	40	--	10
o-Xylene	27		ug/m3	20	--	10
Naphthalene	ND		ug/m3	20	--	10
C9-C12 Aliphatics, Adjusted	990		ug/m3	140	--	10
C9-C10 Aromatics Total	ND		ug/m3	100	--	10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	147		50-200
Bromochloromethane	142		50-200
Chlorobenzene-d5	173		50-200

Project Name: PRESQUE ISLE, ME
Project Number: Not Specified

Lab Number: L1018287
Report Date: 11/30/10

SAMPLE RESULTS

Lab ID: L1018287-05 D
 Client ID: SV-5
 Sample Location: FORMER MET LIFE
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 11/19/10 12:28
 Analyst: RY

Date Collected: 11/12/10 12:12
 Date Received: 11/16/10
 Field Prep: Not Specified

Quality Control Information

Sample Type:	30 minute 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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	240	--	120
Methyl tert butyl ether	ND		ug/m3	240	--	120
Benzene	ND		ug/m3	240	--	120
Toluene	ND		ug/m3	240	--	120
C5-C8 Aliphatics, Adjusted	360000		ug/m3	1400	--	120
Ethylbenzene	ND		ug/m3	240	--	120
p/m-Xylene	ND		ug/m3	480	--	120
o-Xylene	ND		ug/m3	240	--	120
Naphthalene	ND		ug/m3	240	--	120
C9-C12 Aliphatics, Adjusted	47000		ug/m3	1700	--	120
C9-C10 Aromatics Total	ND		ug/m3	1200	--	120

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	136		50-200
Bromochloromethane	139		50-200
Chlorobenzene-d5	142		50-200

Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018287-06
 Client ID: SV-6
 Sample Location: FORMER MET LIFE
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 11/18/10 23:25
 Analyst: RY

Date Collected: 11/12/10 11:13
 Date Received: 11/16/10
 Field Prep: Not Specified

Quality Control Information

Sample Type: 30 minute 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

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	7.6		ug/m3	2.0	--	1
Toluene	230		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	670		ug/m3	12	--	1
Ethylbenzene	70		ug/m3	2.0	--	1
p/m-Xylene	160		ug/m3	4.0	--	1
o-Xylene	39		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	840		ug/m3	14	--	1
C9-C10 Aromatics Total	53		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	144		50-200
Bromochloromethane	136		50-200
Chlorobenzene-d5	125		50-200

Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018287-07 D2
Client ID: SV-7
Sample Location: FORMER MET LIFE
Matrix: Soil_Vapor
Analytical Method: 96,APH
Analytical Date: 11/19/10 09:51
Analyst: RY

Date Collected: 11/12/10 11:25
Date Received: 11/16/10
Field Prep: Not Specified

Quality Control Information

Sample Type: 30 minute 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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Petroleum Hydrocarbons in Air - Mansfield Lab

Toluene	1100		ug/m3	20	--	10
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Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	142		50-200
Bromochloromethane	137		50-200
Chlorobenzene-d5	126		50-200

Project Name: PRESQUE ISLE, ME
Project Number: Not Specified

Lab Number: L1018287
Report Date: 11/30/10

SAMPLE RESULTS

Lab ID: L1018287-07 D
 Client ID: SV-7
 Sample Location: FORMER MET LIFE
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 11/19/10 00:36
 Analyst: RY

Date Collected: 11/12/10 11:25
 Date Received: 11/16/10
 Field Prep: Not Specified

Quality Control Information

Sample Type:	30 minute 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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	5.0	--	2.5
Methyl tert butyl ether	ND		ug/m3	5.0	--	2.5
Benzene	10		ug/m3	5.0	--	2.5
Toluene	1400	E	ug/m3	5.0	--	2.5
C5-C8 Aliphatics, Adjusted	1900		ug/m3	30	--	2.5
Ethylbenzene	460		ug/m3	5.0	--	2.5
p/m-Xylene	1200		ug/m3	10	--	2.5
o-Xylene	270		ug/m3	5.0	--	2.5
Naphthalene	ND		ug/m3	5.0	--	2.5
C9-C12 Aliphatics, Adjusted	1400		ug/m3	35	--	2.5
C9-C10 Aromatics Total	150		ug/m3	25	--	2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	149		50-200
Bromochloromethane	144		50-200
Chlorobenzene-d5	142		50-200

Project Name: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018287-08
 Client ID: SV-8 (4')
 Sample Location: FORMER MET LIFE
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 11/19/10 01:12
 Analyst: RY

Date Collected: 11/12/10 14:38
 Date Received: 11/16/10
 Field Prep: Not Specified

Quality Control Information

Sample Type: 30 minute 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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	2.0		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	7.4		ug/m3	2.0	--	1
Toluene	57		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	3200		ug/m3	12	--	1
Ethylbenzene	32		ug/m3	2.0	--	1
p/m-Xylene	110		ug/m3	4.0	--	1
o-Xylene	22		ug/m3	2.0	--	1
Naphthalene	2.2		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	1300		ug/m3	14	--	1
C9-C10 Aromatics Total	140		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	143		50-200
Bromochloromethane	139		50-200
Chlorobenzene-d5	139		50-200

Project Name: PRESQUE ISLE, ME

Lab Number: L1018287

Project Number: Not Specified

Report Date: 11/30/10

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 96,APH

Analytical Date: 11/18/10 16:53

Analyst: RY

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbons in Air - Mansfield Lab for sample(s): 01-08 Batch: WG443823-4					
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: PRESQUE ISLE, ME

Project Number: Not Specified

Lab Number: L1018287

Report Date: 11/30/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01-08 Batch: WG443823-3								
1,3-Butadiene	75		-		70-130	-		
Methyl tert butyl ether	81		-		70-130	-		
Benzene	81		-		70-130	-		
Toluene	82		-		70-130	-		
C5-C8 Aliphatics, Adjusted	80		-		70-130	-		
Ethylbenzene	82		-		70-130	-		
p/m-Xylene	82		-		70-130	-		
o-Xylene	85		-		70-130	-		
Naphthalene	103		-		50-150	-		
C9-C12 Aliphatics, Adjusted	77		-		70-130	-		
C9-C10 Aromatics Total	72		-		70-130	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: PRESQUE ISLE, ME

Project Number: Not Specified

Lab Number: L1018287

Report Date: 11/30/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG443823-5 QC Sample: L1018287-06 Client ID: SV-6						
1,3-Butadiene	ND	ND	ug/m3	NC		30
Methyl tert butyl ether	ND	ND	ug/m3	NC		30
Benzene	7.6	7.2	ug/m3	5		30
Toluene	230	220	ug/m3	4		30
C5-C8 Aliphatics, Adjusted	670	600	ug/m3	11		30
Ethylbenzene	70	72	ug/m3	3		30
p/m-Xylene	160	170	ug/m3	6		30
o-Xylene	39	40	ug/m3	3		30
Naphthalene	ND	ND	ug/m3	NC		30
C9-C12 Aliphatics, Adjusted	840	840	ug/m3	0		30
C9-C10 Aromatics Total	53	55	ug/m3	4		30

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
L1018287-01	SV-1	0287	#90 SV		-	-	71	74	4
L1018287-01	SV-1	337	2.7L Can	L1014888	-29.6	-0.1	-	-	-
L1018287-02	SV-1A	0014	#90 SV		-	-	67	72	7
L1018287-02	SV-1A	384	2.7L Can	I1017308	-29.2	1.2	-	-	-
L1018287-03	SV-2	0154	#90 SV		-	-	68	72	6
L1018287-03	SV-2	552	2.7L Can	I1017308	-28.9	1.8	-	-	-
L1018287-04	SV-3	0369	#90 SV		-	-	70	71	1
L1018287-04	SV-3	473	2.7L Can	I1017308	-29.3	-1.4	-	-	-
L1018287-05	SV-5	0470	#90 SV		-	-	66	74	11
L1018287-05	SV-5	366	2.7L Can	I1017308	-29.3	-1.7	-	-	-
L1018287-06	SV-6	0412	#90 SV		-	-	72	76	5
L1018287-06	SV-6	393	2.7L Can	I1017308	-29.3	-0.6	-	-	-
L1018287-07	SV-7	0023	#90 SV		-	-	66	70	6
L1018287-07	SV-7	192	2.7L Can	I1017308	-29.3	-1.8	-	-	-
L1018287-08	SV-8 (4)	0224	#20 SV		-	-	70	70	0
L1018287-08	SV-8 (4)	1747	2.7L Can	I1017587	-29.1	-3.5	-	-	-



Air Volatiles Can Certification

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1014888**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1014888-01
 Client ID: CAN 155 SHELF 10
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 09/25/10 19:03
 Analyst: RY

Date Collected: 09/24/10 00:00
 Date Received: 09/24/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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
Methylene chloride	ND	1.00	--	ND	3.47	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1014888**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1014888-01

Date Collected: 09/24/10 00:00

Client ID: CAN 155 SHELF 10

Date Received: 09/24/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
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
Trichloroethene	ND	0.200	--	ND	1.07	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1014888**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1014888-01

Date Collected: 09/24/10 00:00

Client ID: CAN 155 SHELF 10

Date Received: 09/24/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
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
1,1,1,2-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
Bromobenzene	ND	0.200	--	ND	1.28	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1014888**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1014888-01

Date Collected: 09/24/10 00:00

Client ID: CAN 155 SHELF 10

Date Received: 09/24/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
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-Trimethylbenzene	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:** L1014888**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1014888-01

Date Collected: 09/24/10 00:00

Client ID: CAN 155 SHELF 10

Date Received: 09/24/10

Sample Location:

Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	75		60-140
Bromochloromethane	78		60-140
chlorobenzene-d5	78		60-140



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1014888**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1014888-01
 Client ID: CAN 155 SHELF 10
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 09/25/10 19:03
 Analyst: AJ

Date Collected: 09/24/10 00:00
 Date Received: 09/24/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1014888**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1014888-01

Date Collected: 09/24/10 00:00

Client ID: CAN 155 SHELF 10

Date Received: 09/24/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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-Trimethylbenzene	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:** L1014888**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1014888-01

Date Collected: 09/24/10 00:00

Client ID: CAN 155 SHELF 10

Date Received: 09/24/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1014888**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1014888-01

Date Collected: 09/24/10 00:00

Client ID: CAN 155 SHELF 10

Date Received: 09/24/10

Sample Location:

Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	74		60-140
bromochloromethane	79		60-140
chlorobenzene-d5	79		60-140



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1017308**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017308-01
 Client ID: CAN 366 SHELF 2
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 11/03/10 18:48
 Analyst: RY

Date Collected: 11/02/10 00:00
 Date Received: 11/02/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017308**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017308-01
 Client ID: CAN 366 SHELF 2
 Sample Location:

Date Collected: 11/02/10 00:00
 Date Received: 11/02/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017308**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017308-01

Date Collected: 11/02/10 00:00

Client ID: CAN 366 SHELF 2

Date Received: 11/02/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017308**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017308-01

Date Collected: 11/02/10 00:00

Client ID: CAN 366 SHELF 2

Date Received: 11/02/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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-Trimethylbenzene	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:** L1017308**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017308-01

Date Collected: 11/02/10 00:00

Client ID: CAN 366 SHELF 2

Date Received: 11/02/10

Sample Location:

Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	84		60-140

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1017308**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017308-01
 Client ID: CAN 366 SHELF 2
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 11/03/10 18:48
 Analyst: RY

Date Collected: 11/02/10 00:00
 Date Received: 11/02/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017308**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017308-01

Date Collected: 11/02/10 00:00

Client ID: CAN 366 SHELF 2

Date Received: 11/02/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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-Trimethylbenzene	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:** L1017308**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017308-01

Date Collected: 11/02/10 00:00

Client ID: CAN 366 SHELF 2

Date Received: 11/02/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017308**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017308-01

Date Collected: 11/02/10 00:00

Client ID: CAN 366 SHELF 2

Date Received: 11/02/10

Sample Location:

Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	88		60-140

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1017587**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017587-01
 Client ID: CAN 207 SHELF 4
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 11/05/10 18:02
 Analyst: RY

Date Collected: 11/04/10 00:00
 Date Received: 11/04/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017587**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017587-01

Date Collected: 11/04/10 00:00

Client ID: CAN 207 SHELF 4

Date Received: 11/04/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017587**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017587-01

Date Collected: 11/04/10 00:00

Client ID: CAN 207 SHELF 4

Date Received: 11/04/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017587**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017587-01

Date Collected: 11/04/10 00:00

Client ID: CAN 207 SHELF 4

Date Received: 11/04/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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-Trimethylbenzene	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:** L1017587**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017587-01

Date Collected: 11/04/10 00:00

Client ID: CAN 207 SHELF 4

Date Received: 11/04/10

Sample Location:

Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	102		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1017587**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017587-01
 Client ID: CAN 207 SHELF 4
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 11/05/10 18:02
 Analyst: RY

Date Collected: 11/04/10 00:00
 Date Received: 11/04/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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	0.069	0.050	--	0.528	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:** L1017587**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017587-01

Date Collected: 11/04/10 00:00

Client ID: CAN 207 SHELF 4

Date Received: 11/04/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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-Trimethylbenzene	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:** L1017587**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017587-01

Date Collected: 11/04/10 00:00

Client ID: CAN 207 SHELF 4

Date Received: 11/04/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017587**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017587-01

Date Collected: 11/04/10 00:00

Client ID: CAN 207 SHELF 4

Date Received: 11/04/10

Sample Location:

Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	90		60-140

AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1014888**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1014888-01
Client ID: CAN 155 SHELF 10
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 09/25/10 19:03
Analyst: RY

Date Collected: 09/24/10 00:00
Date Received: 09/24/10
Field Prep: Not Specified

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: BATCH CANISTER CERTIFICATION**Lab Number:** L1017308**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1017308-01
Client ID: CAN 366 SHELF 2
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 11/03/10 18:48
Analyst: RY

Date Collected: 11/02/10 00:00
Date Received: 11/02/10
Field Prep: Not Specified

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: BATCH CANISTER CERTIFICATION**Lab Number:** L1017587**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1017587-01
Client ID: CAN 207 SHELF 4
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 11/05/10 18:54
Analyst: RY

Date Collected: 11/04/10 00:00
Date Received: 11/04/10
Field Prep: Not Specified

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: PRESQUE ISLE, ME**Lab Number:** L1018287**Project Number:** Not Specified**Report Date:** 11/30/10**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(*)
L1018287-01A	Canister - 2.7 Liter	N/A	NA		NA	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1018287-02A	Canister - 2.7 Liter	N/A	NA		NA	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1018287-03A	Canister - 2.7 Liter	N/A	NA		NA	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1018287-04A	Canister - 2.7 Liter	N/A	NA		NA	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1018287-05A	Canister - 2.7 Liter	N/A	NA		NA	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1018287-06A	Canister - 2.7 Liter	N/A	NA		NA	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1018287-07A	Canister - 2.7 Liter	N/A	NA		NA	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1018287-08A	Canister - 2.7 Liter	N/A	NA		NA	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name: PRESQUE ISLE, ME
Project Number: Not Specified

Lab Number: L1018287
Report Date: 11/30/10

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.
- LCS D** - 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.
- MS D** - 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: PRESQUE ISLE, ME
Project Number: Not Specified

Lab Number: L1018287
Report Date: 11/30/10

Data Qualifiers

- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: PRESQUE ISLE, ME
Project Number: Not Specified

Lab Number: L1018287
Report Date: 11/30/10

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

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
 TEL: 508-822-9300 FAX: 508-822-9288

Client Information

Client: **MAINE DEP**

Address: **312 Cance Road**

Phone: **(207) 822-6300**

Fax: **(207) 822-6303**

Email: **pete.m.erevita@maine.gov**

Project Name: **FORNER MET LIFE**

Project Location: **Pressure Issue, ME**

Project Manager: **ROBERT SPITKOWSKI**

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: Time:

Other Project Specific Requirements/Comments:

Date Rec'd in Lab:

Report Information - Data Deliverables

FAX
 BADEX

Criteria Checker:

(Default based on Regulatory Criteria Indicated)

Other Formats:

EMAIL (standard pdf report)

Additional Deliverables:

Report to: (if different than Project Manager)
Robert.A.Spitkowski@maine.gov

diana.m.cenzie@maine.gov

jeressy@summitenv.com

ALPHA Job #: **L1018287**

Billing Information

Same as Client Info

PO #:

Regulatory Requirements/Report Limits

State/Fed Program Criteria

MAINE DEP EDD

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION				Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	Sample Comments (i.e. PID)
		Date	Start Time	End Time	Initial Vacuum						
18287-01	SV-1	11-12	7:55	8:25	730	-5	SV	JKC	1L	337 0287	X
-02	SV-1A	8:25	9:04	730	-5	SV	JKC	1L	384 0014	X	
-03	SV-2	8:12	8:45	-30	-2	SV	JKC	1L	552 0154	X	
-04	SV-3	9:30	10:00	-30	-4	SV	JKC	1L	473 0369	X	
-05	SV-5	11:45	12:12	-30	-3	SV	JKC	1L	366 0470	X	
-06	SV-6	10:40	11:13	-30	-4	SV	JKC	1L	393 0412	X	
-07	SV-7	10:58	11:25	-30	-4	SV	JKC	1L	192 0023	X	
-08	SV-8 (4')	14:08	14:38	-29	-3.82	SV	JKC	1L	197 0224	X	

***SAMPLE MATRIX CODES**

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

Relinquished By:

Date/Time

Received By:

Date/Time:

Container Type

Relinquished By: [Signature]

11-13/10:00

Received By: [Signature]

11/16/10 10:55

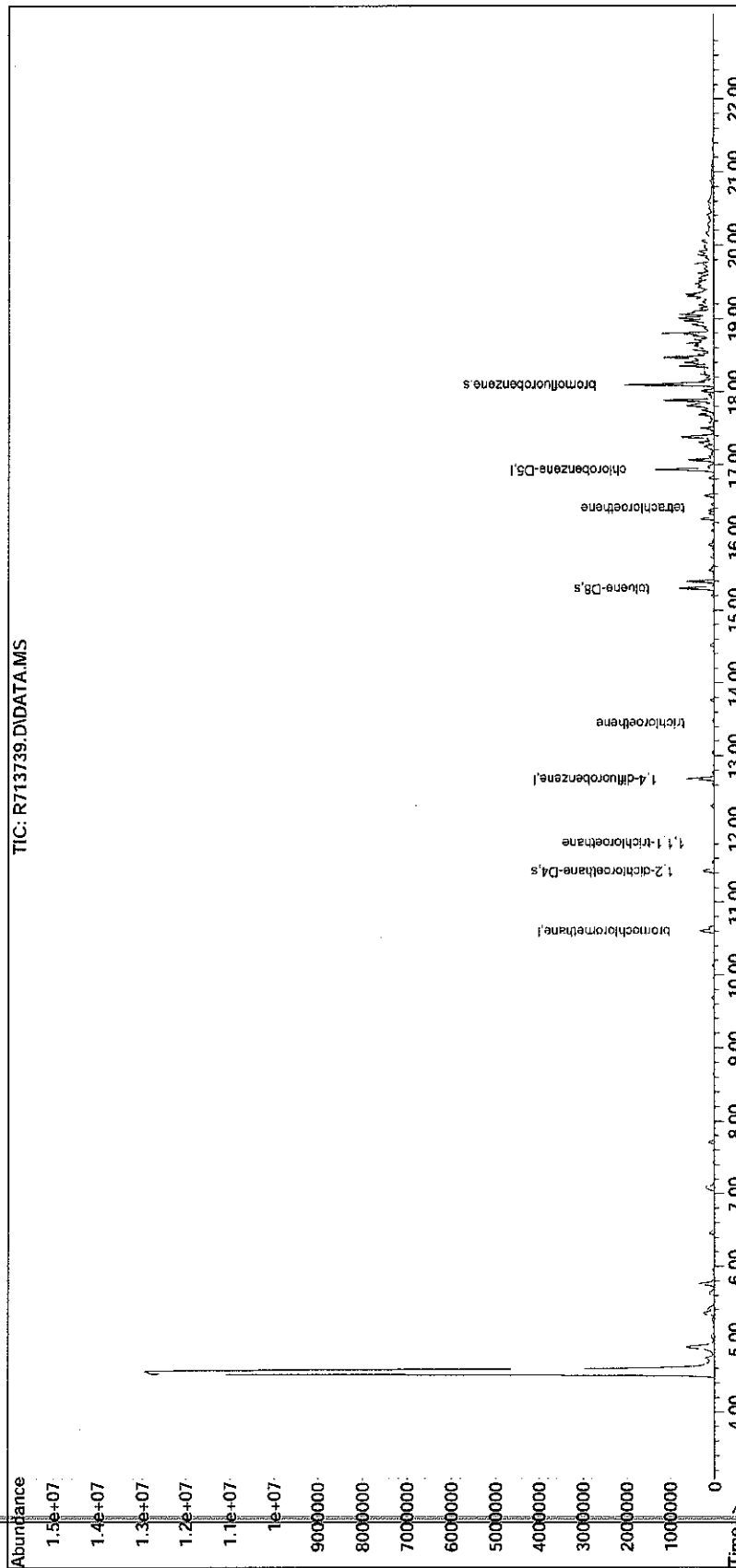
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

TO-15

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

Data Path : O:\Forensics\Data\AirLab7\2010\101118T\
Data File : R713739.D
Acq On : 18 Nov 2010 8:32 pm
Operator : AIRLAB7:ry
Sample : L1018287-01,3,250,250
Misc : wg443822,ical5297
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 19 10:47:32 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\101118T\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

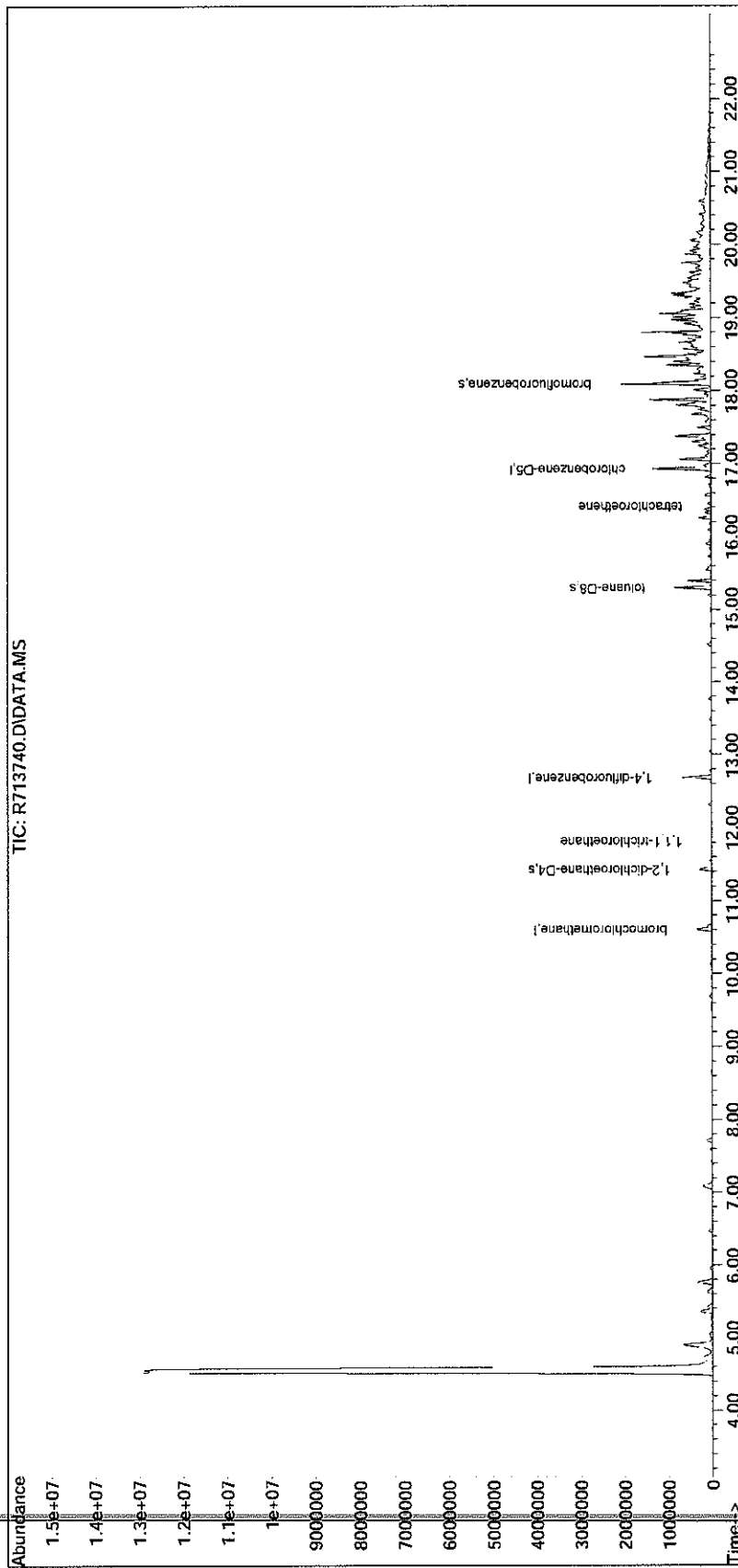


TALL100825.M Sat Nov 20 17:23:00 2010

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

Data Path : O:\Forensics\Data\Airlab7\2010\101118T\
Data File : R713740.D
Acq On : 18 Nov 2010 9:06 pm
Operator : AIRLAB7:ry
Sample : L1018287-02,3,250,250
Misc : wg443822,ical5297
ALS Vial : 7 Sample Multiplier: 1

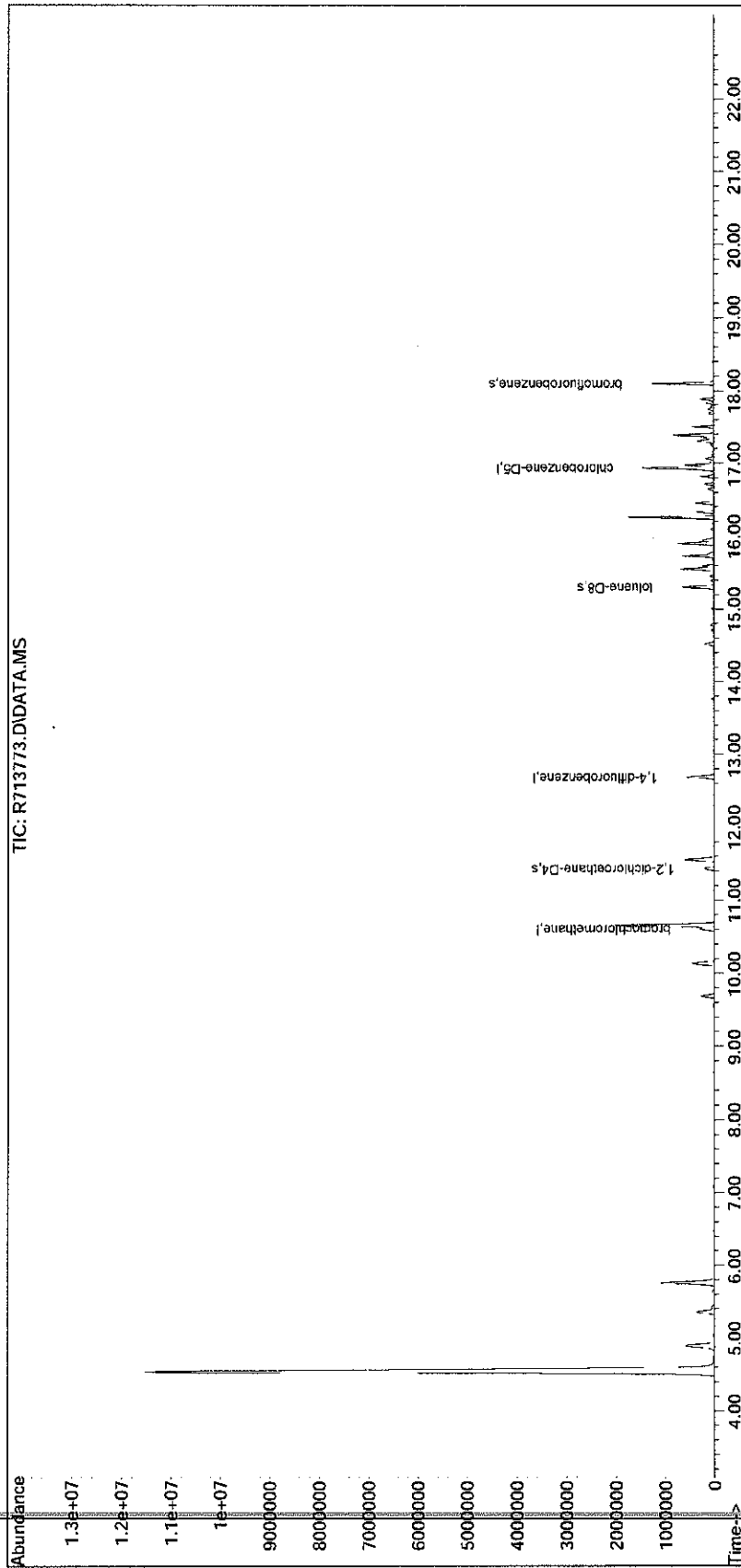
Quant Time: Nov 19 17:35:49 2010
Quant Method : O:\Forensics\Data\Airlab7\2010\101118T\TALL100825.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Aug 26 11:10:47 2010
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\Airlab7\2010\101119T\
Data File : R713773.D
Acq On. : 20 Nov 2010 2:41 am
Operator : AIRLAB7:ry
Sample : L1018287-03D,3,25,250
Misc : wg443822,ical5297
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 20 17:27:29 2010
Quant Method : O:\Forensics\Data\Airlab7\2010\101119T\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\101119T\

Data File : R713777.D

Acq On : 20 Nov 2010 11:38 am

Operator : AIRLAB7:ry

Sample : L1018287-04D,3,1.8354,250

Misc : wg443822,ical5297

ALS Vial : 1 Sample Multiplier: 1

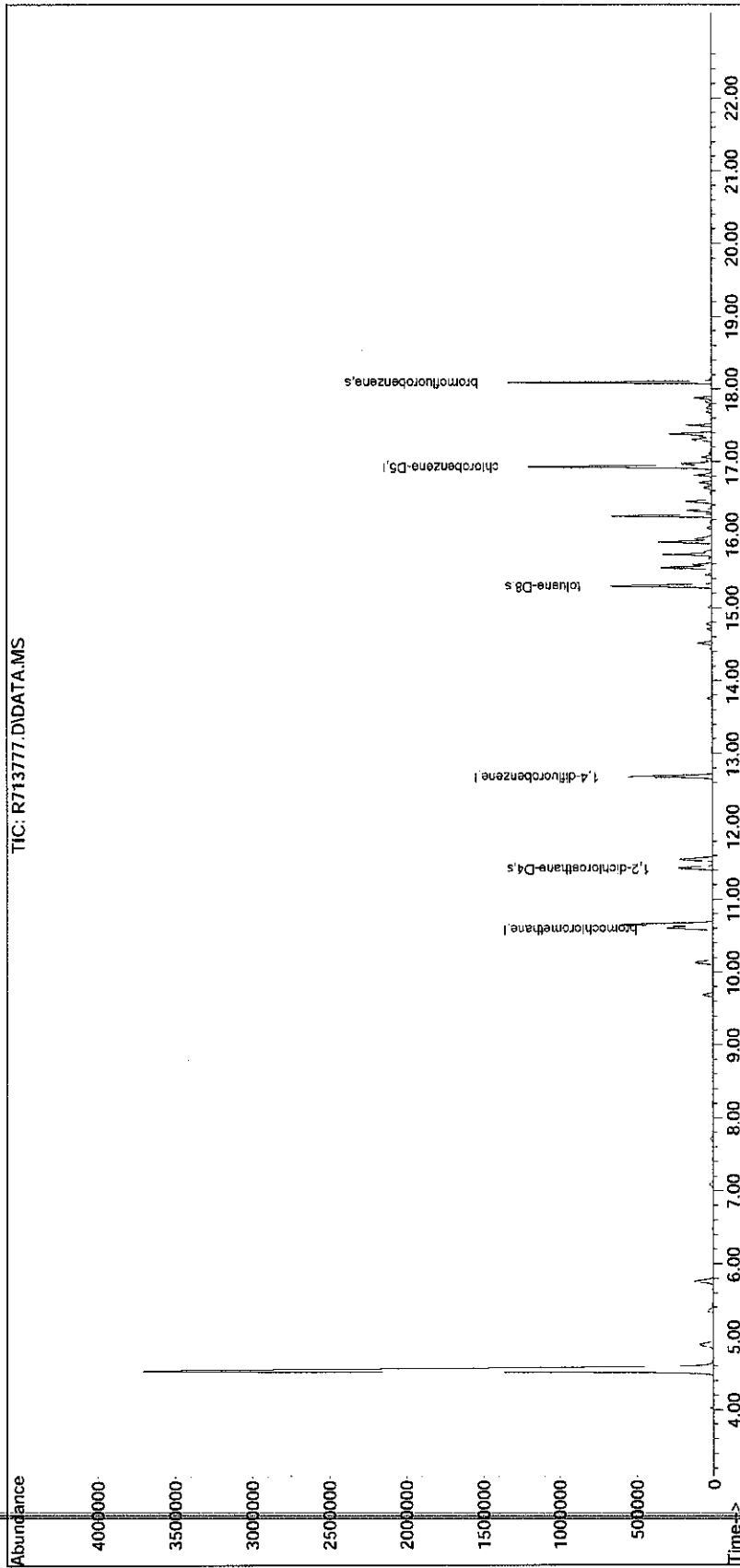
Quant Time: Nov 20 17:28:01 2010

Quant Method : O:\Forensics\Data\Airlab7\2010\101119T\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



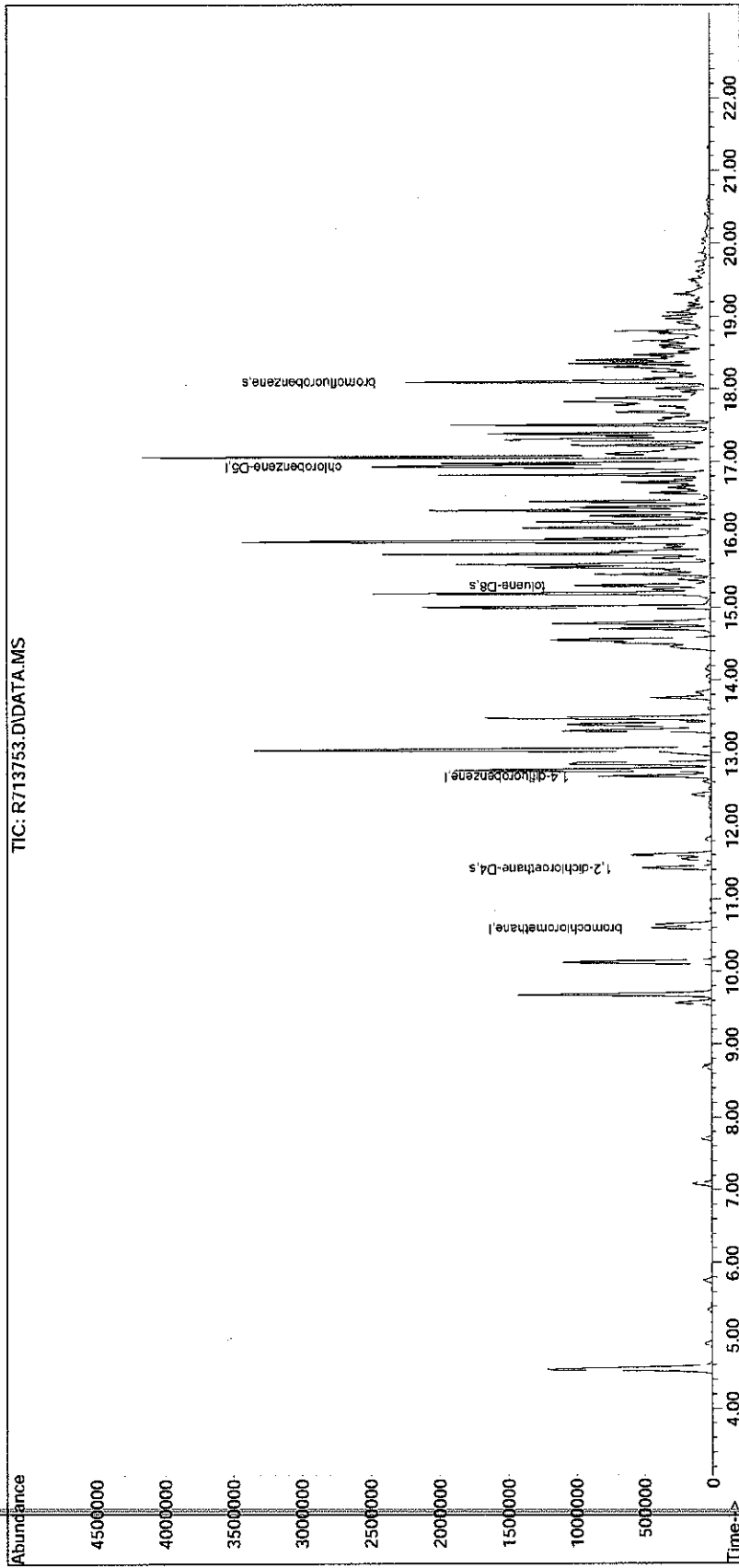
TALL100825.M Sat Nov 20 17:28:27 2010

Page: 2

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

Data Path : O:\Forensics\Data\Airlab7\2010\101118T\
 Data File : R713753.D
 Acq On : 19 Nov 2010 12:28 pm
 Operator : AIRLAB7:ry
 Sample : L1018287-05D,3,2.0225,250
 Misc : wg443822,ical5297
 ALS Vial : 10 Sample Multiplier: 1

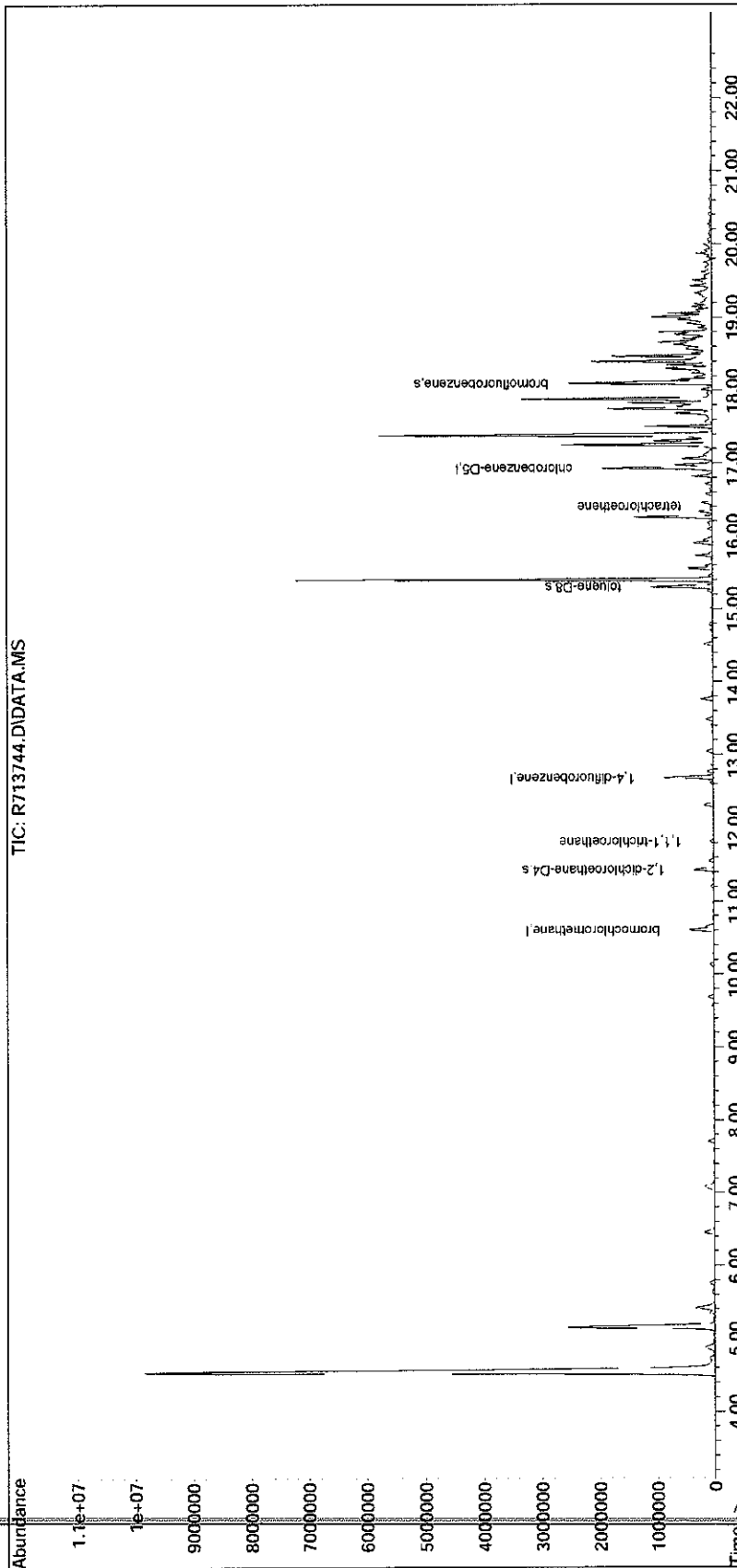
Quant Time: Nov 19 17:39:33 2010
 Quant Method : O:\Forensics\Data\Airlab7\2010\101118T\TALL100825.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Quant Update : Thu Aug 26 11:10:47 2010
 Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\AirLab7\2010\101118T\
Data File : R713744.D
Acq On : 18 Nov 2010 11:25 pm
Operator : AIRLAB7:ry
Sample : L1018287-06,3,250,250
Misc : wg443822,ical15297
ALS Vial : 11 Sample Multiplier: 1

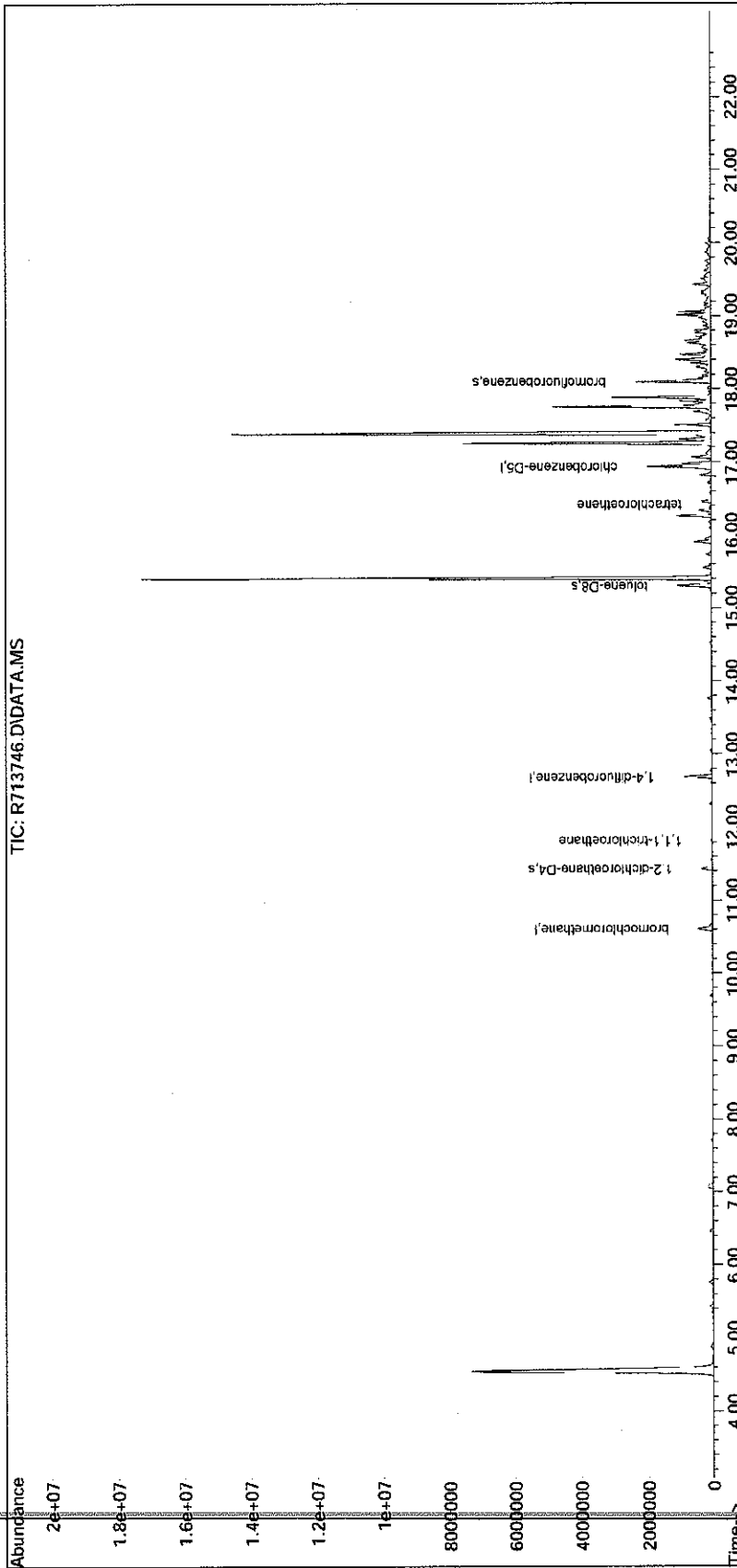
Quant Time: Nov 19 17:36:19 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\101118T\TALL100825.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Aug 26 11:10:47 2010
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\Airlab7\2010\101118T\
Data File : R713746.D
Acq On : 19 Nov 2010 12:36 am
Operator : AIRLAB7:ry
Sample : L1018287-07D,3,100,250
Misc : wg443822,ical5297
ALS Vial : 12 Sample Multiplier: 1

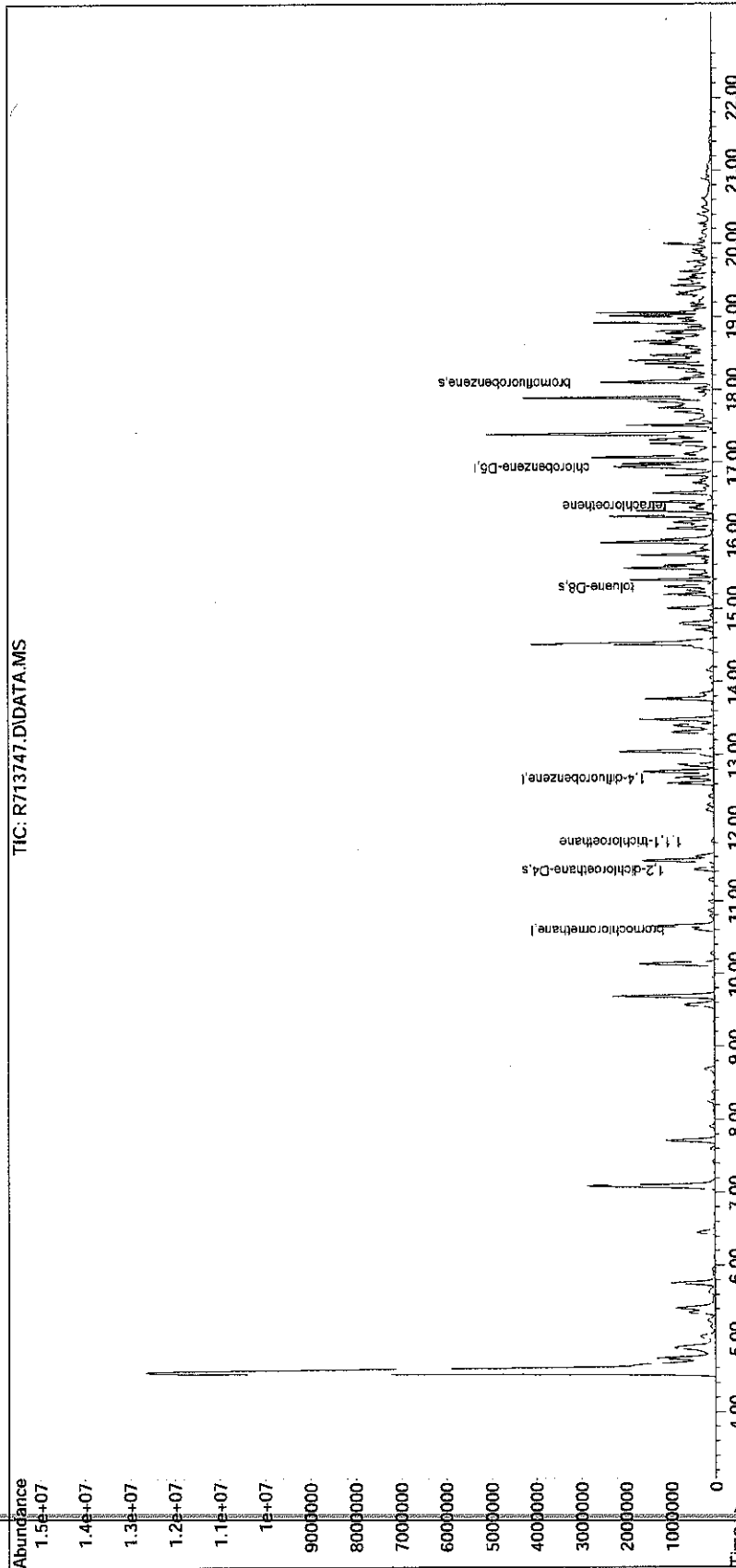
Quant Time: Nov 19 17:37:38 2010
Quant Method : O:\Forensics\Data\Airlab7\2010\101118T\TALL100825.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
Quant Update : Thu Aug 26 11:10:47 2010
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\Airlab7\2010\101118T\
 Data File : R713747.D
 Acq On : 19 Nov 2010 1:12 am
 Operator : AIRLAB7:ry
 Sample : L1018287-08,3,250,250
 Misc : wg443822,ical15297
 ALS Vial : 13 Sample Multiplier: 1

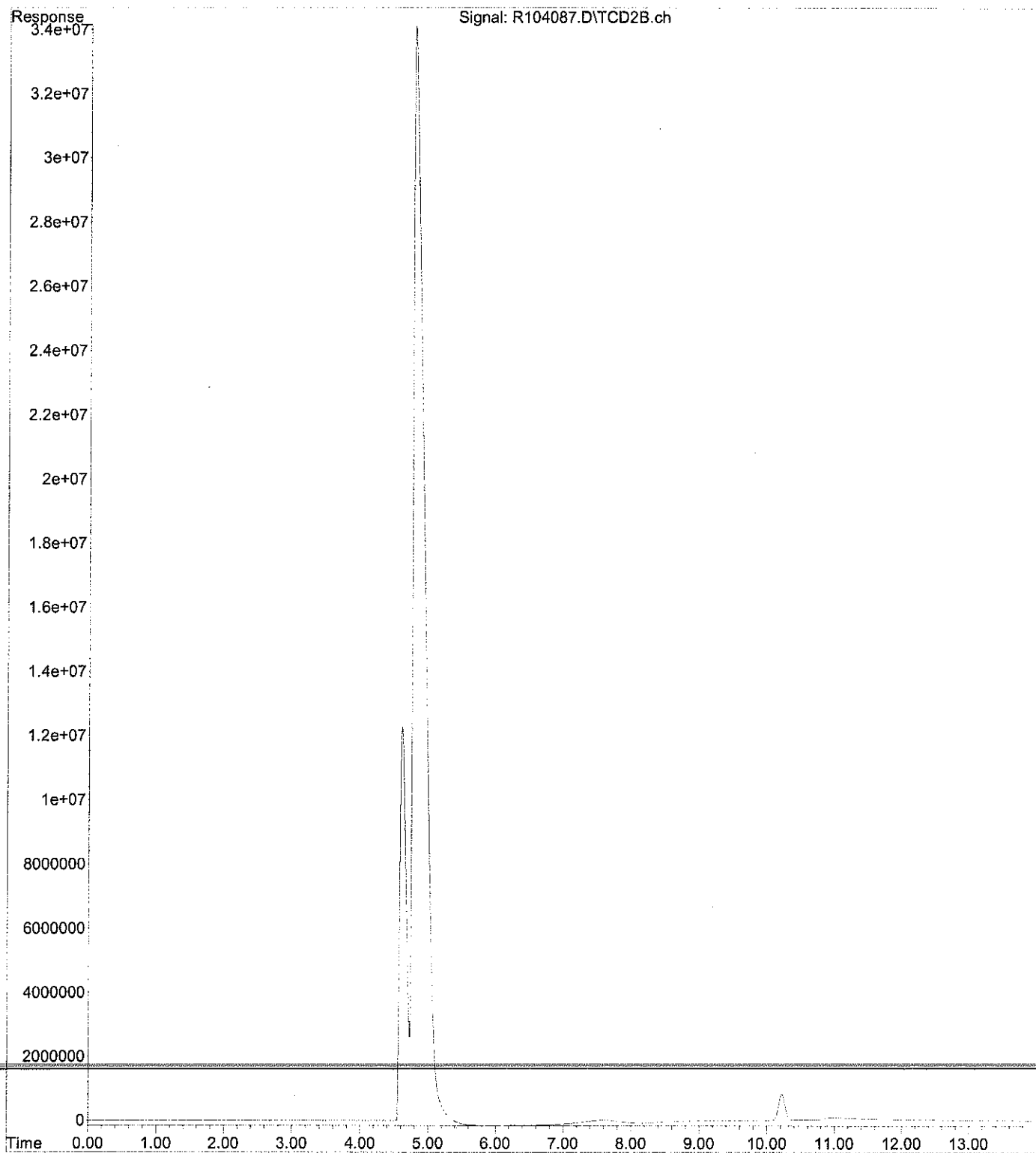
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 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Aug 26 11:10:47 2010
 Response via : Initial Calibration



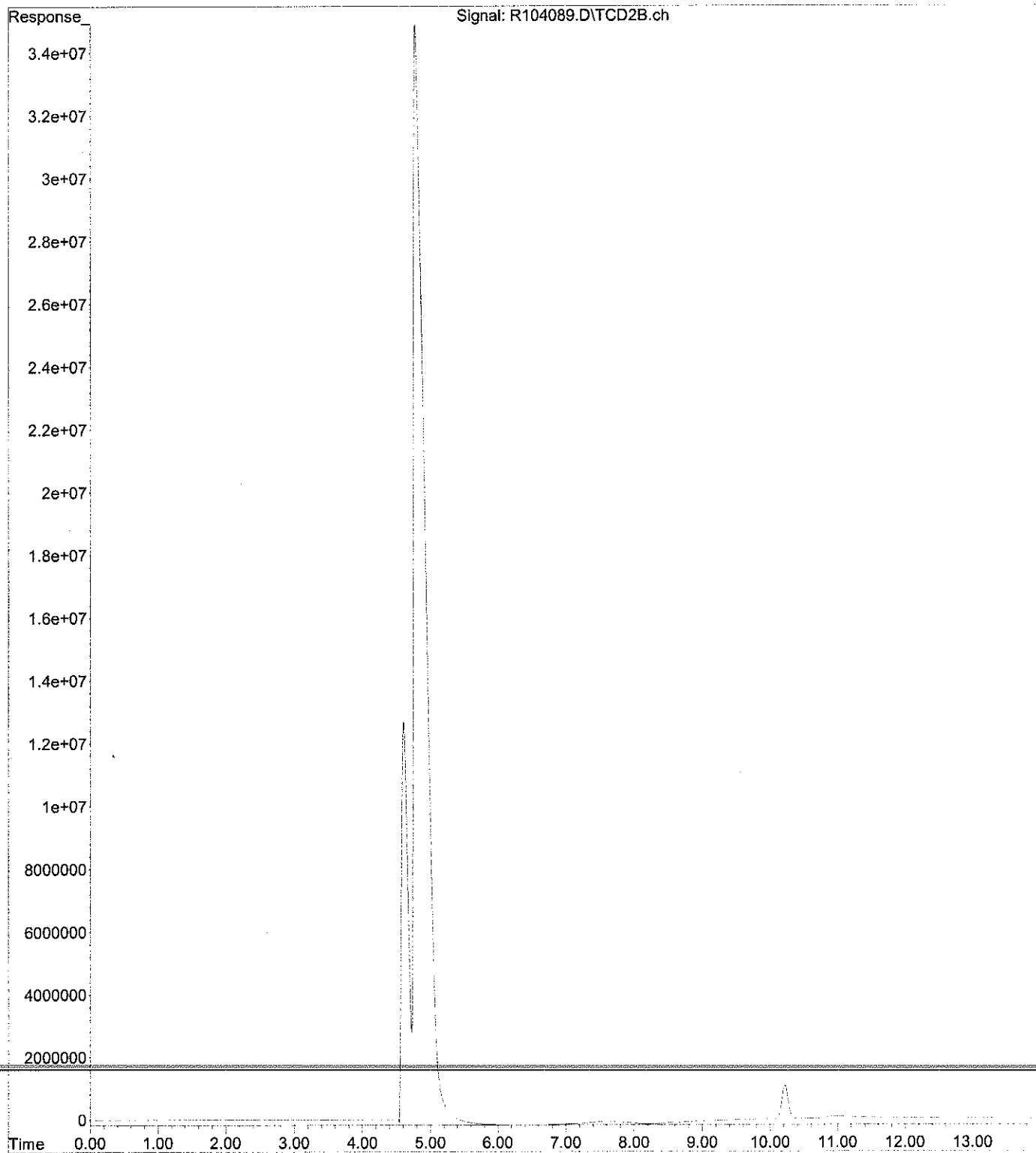
TALL100825.M Sat Nov 20 17:24:12 2010

Fixed Gases

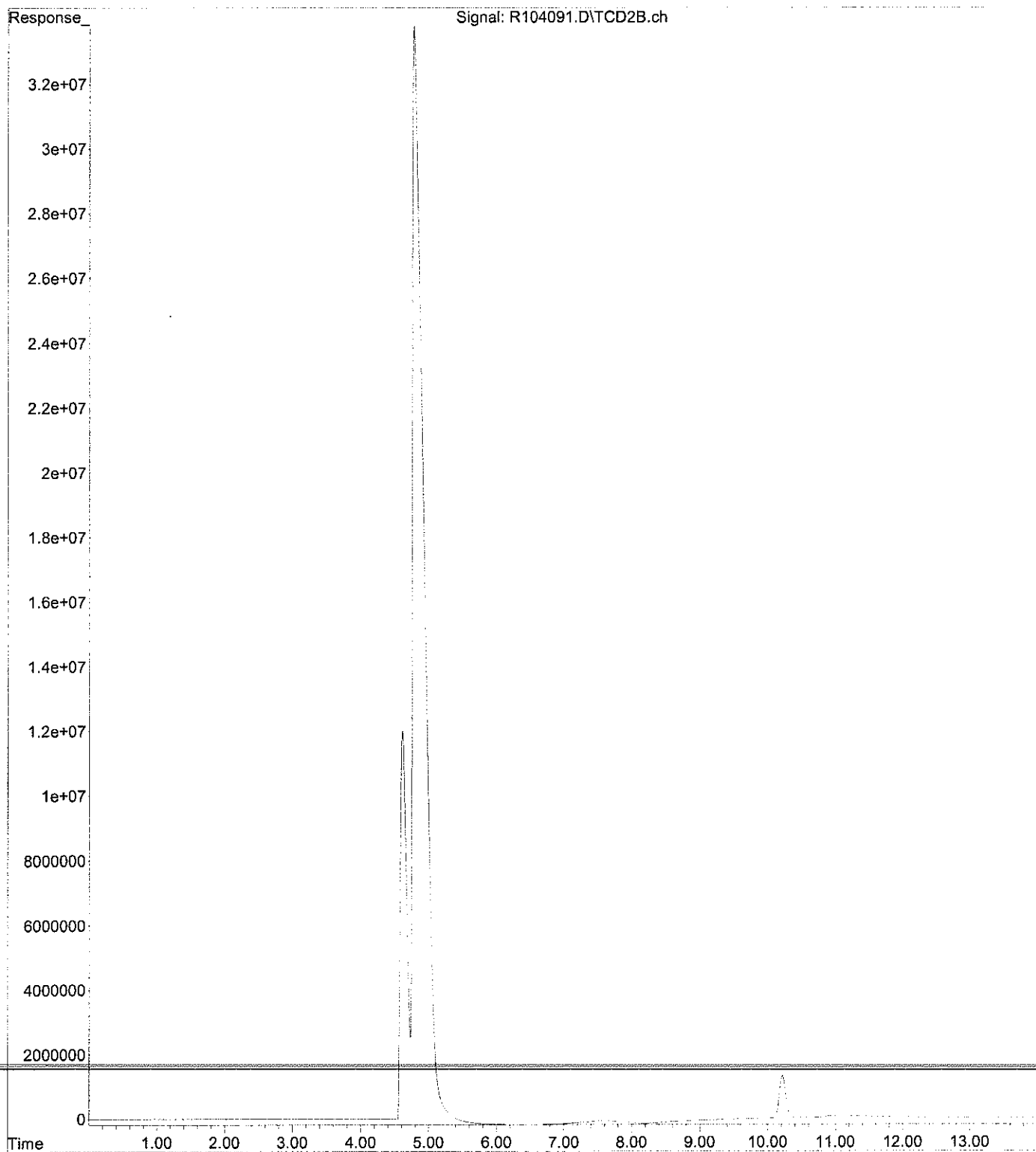
File :O:\Forensics\Data\airlab10\101129FG\R104087.D
Operator : airlab10:BS
Acquired : 29 Nov 2010 5:23 pm using AcqMethod FIXGAS.M
Instrument : Airlab 10
Sample Name: L1018287-01D,4,0.6194,1
Misc Info : WG445289,ICAL5222
Vial Number: 3



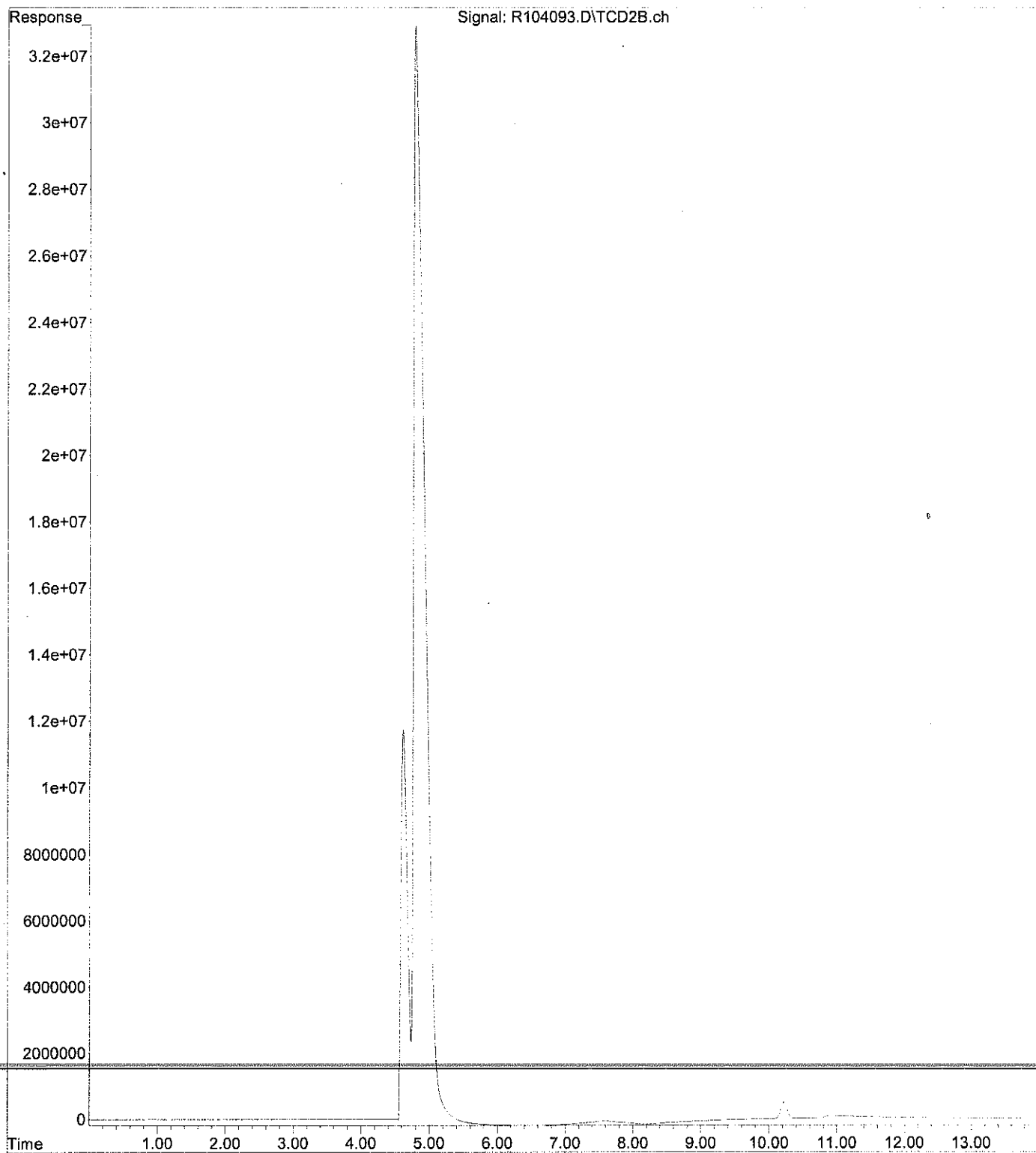
File :O:\Forensics\Data\airlab10\101129FG\R104089.D
Operator : airlab10:BS
Acquired : 29 Nov 2010 6:01 pm using AcqMethod FIXGAS.M
Instrument : Airlab 10
Sample Name: L1018287-02D,4,0.6440,1
Misc Info : WG445289,ICAL5222
Vial Number: 4



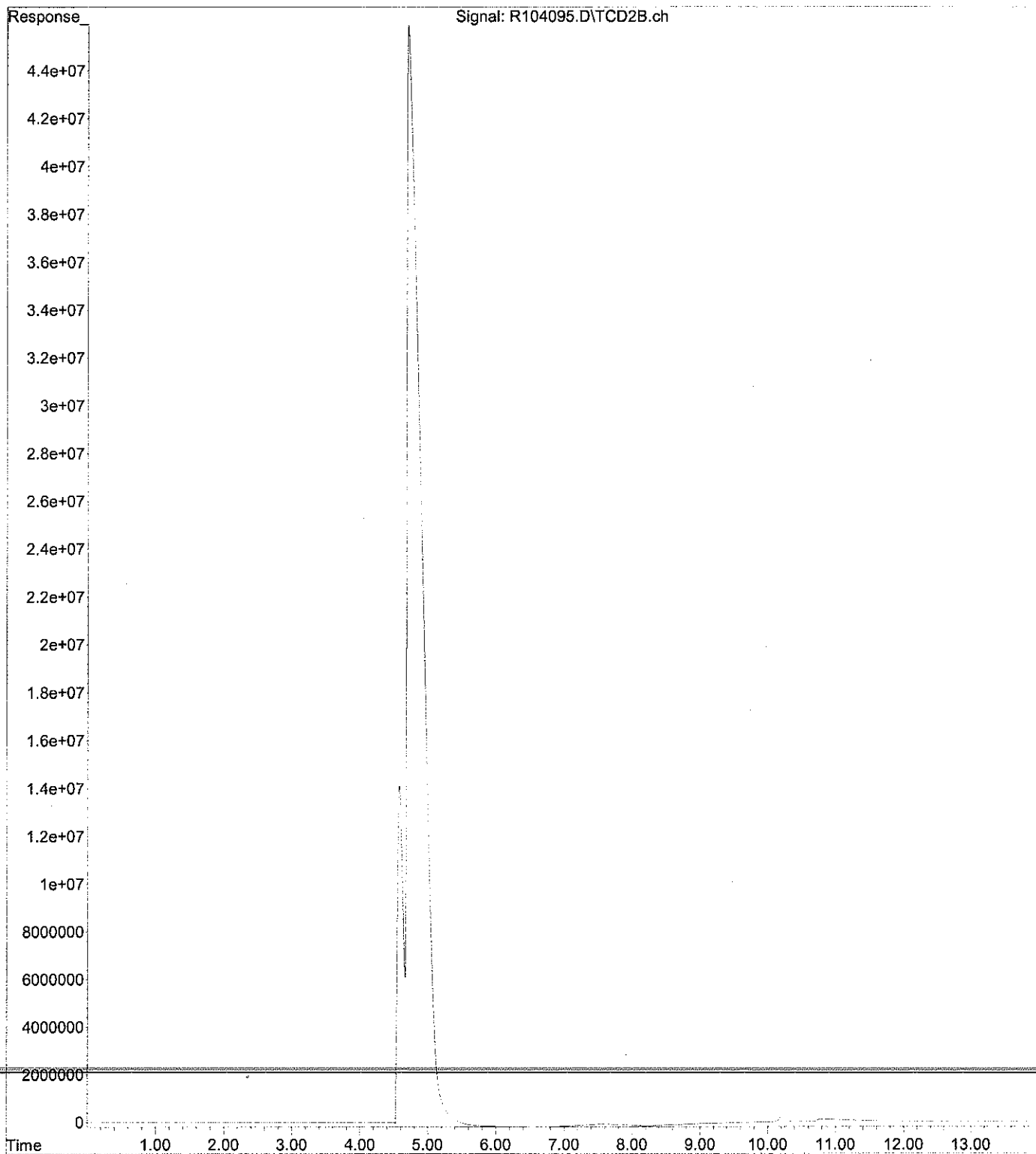
File :O:\Forensics\Data\airlab10\101129FG\R104091.D
Operator : airlab10:BS
Acquired : 29 Nov 2010 6:39 pm using AcqMethod FIXGAS.M
Instrument : Airlab 10
Sample Name: L1018287-03D,4,0.6118,1
Misc Info : WG445289,ICAL5222
Vial Number: 5



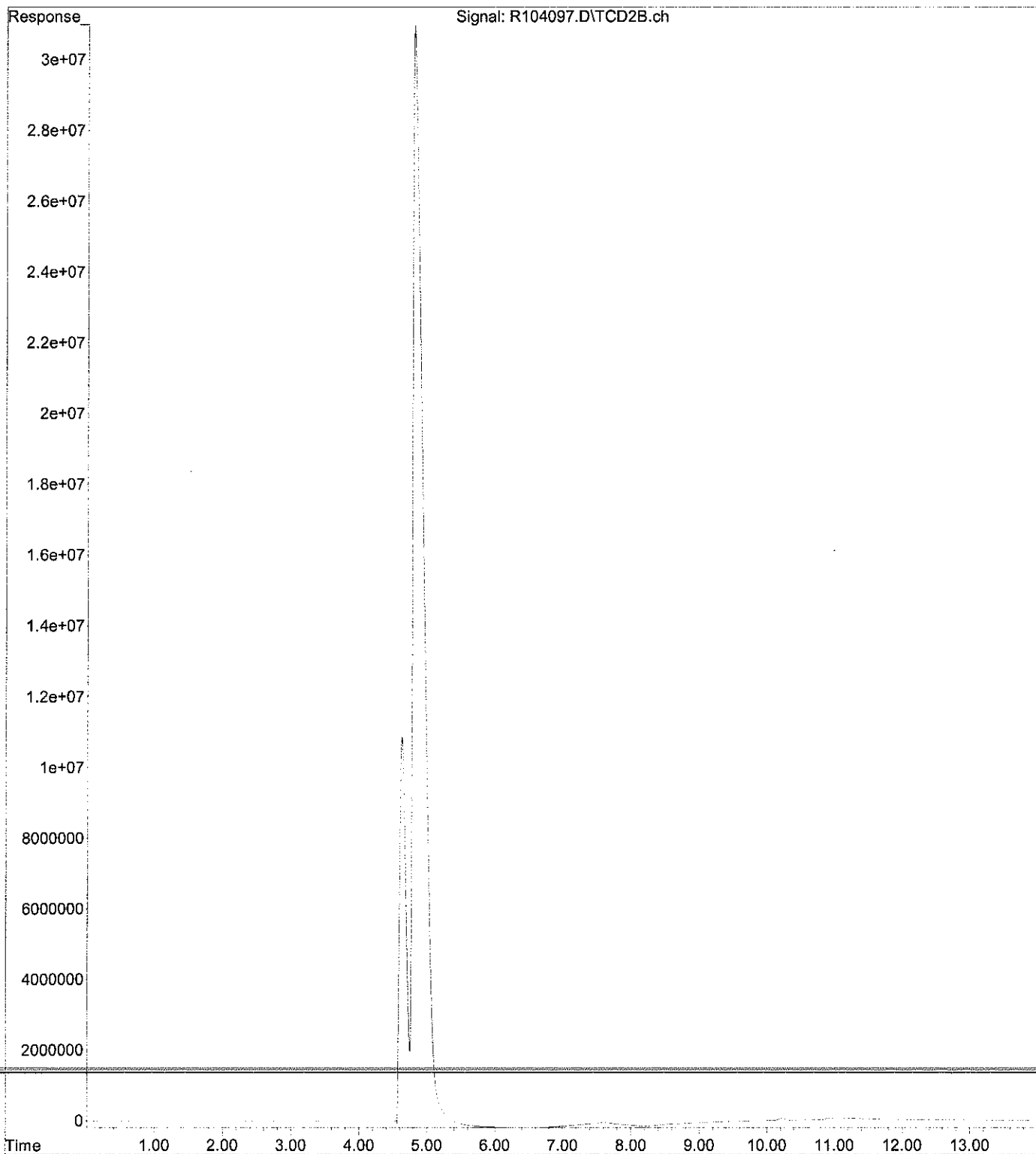
File :O:\Forensics\Data\airlab10\101129FG\R104093.D
Operator : airlab10:BS
Acquired : 29 Nov 2010 7:17 pm using AcqMethod FIXGAS.M
Instrument : Airlab 10
Sample Name: L1018287-04D,4,0.5873,1
Misc Info : WG445289,ICAL5222
Vial Number: 6



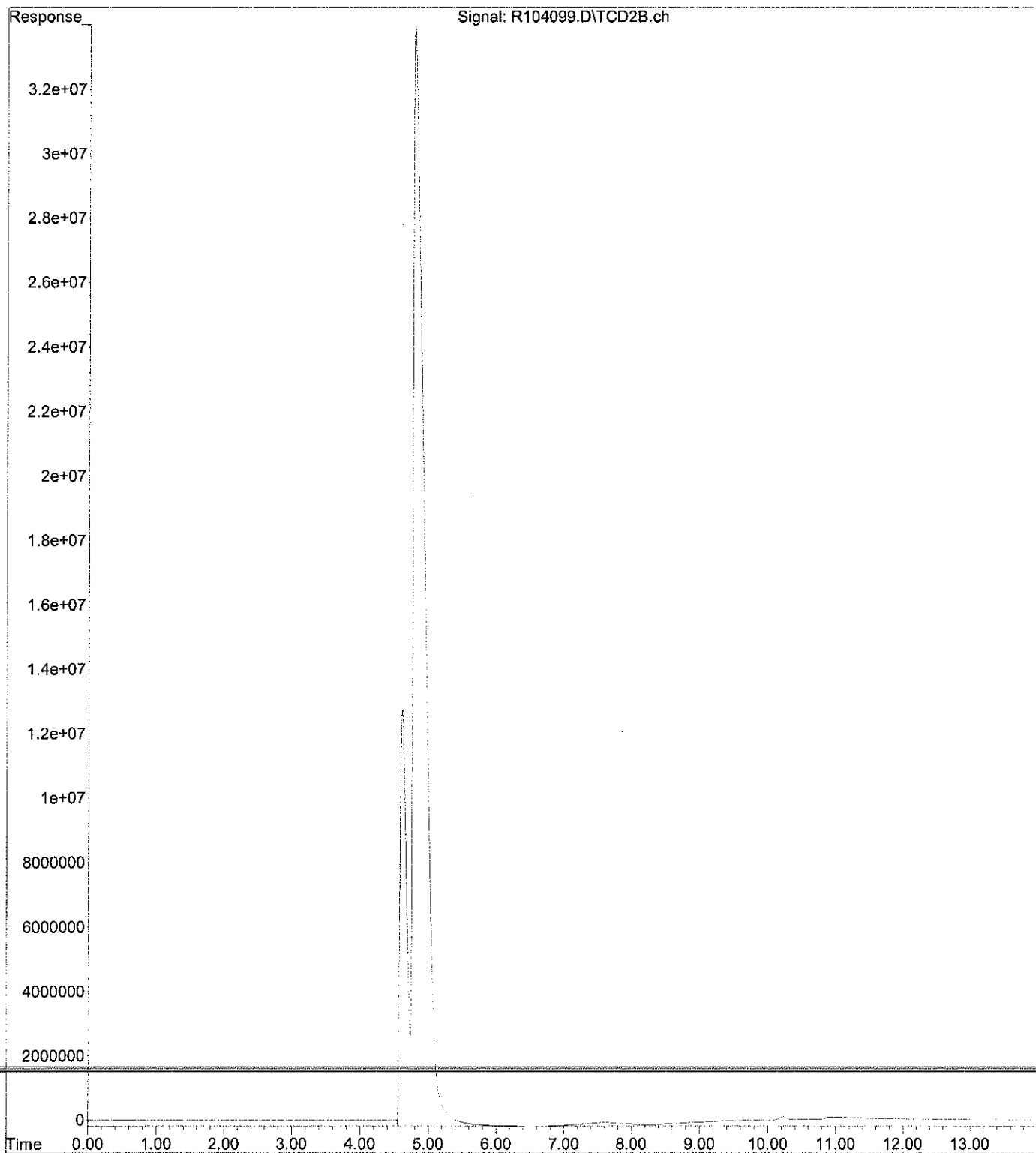
File :O:\Forensics\Data\airlab10\101129FG\R104095.D
Operator : airlab10:BS
Acquired : 29 Nov 2010 7:55 pm using AcqMethod FIXGAS.M
Instrument : Airlab 10
Sample Name: L1018287-05D,4,0.6472,1
Misc Info : WG445289,ICAL5222
Vial Number: 7



File :O:\Forensics\Data\airlab10\101129FG\R104097.D
Operator : airlab10:BS
Acquired : 29 Nov 2010 8:33 pm using AcqMethod FIXGAS.M
Instrument : Airlab 10
Sample Name: L1018287-06D,4,0.52374,1
Misc Info : WG445289,ICAL5222
Vial Number: 9



File :O:\Forensics\Data\airlab10\101129FG\R104099.D
Operator : airlab10:BS
Acquired : 29 Nov 2010 9:11 pm using AcqMethod FIXGAS.M
Instrument : Airlab 10
Sample Name: L1018287-07D,4,0.6175,1
Misc Info : WG445289,ICAL5222
Vial Number: 10



File :O:\Forensics\Data\airlab10\101129FG\R104101.D
Operator : airlab10:BS
Acquired : 29 Nov 2010 9:50 pm using AcqMethod FIXGAS.M
Instrument : Airlab 10
Sample Name: L1018287-08D,4,0.5489,1
Misc Info : WG445289,ICAL5222
Vial Number: 11

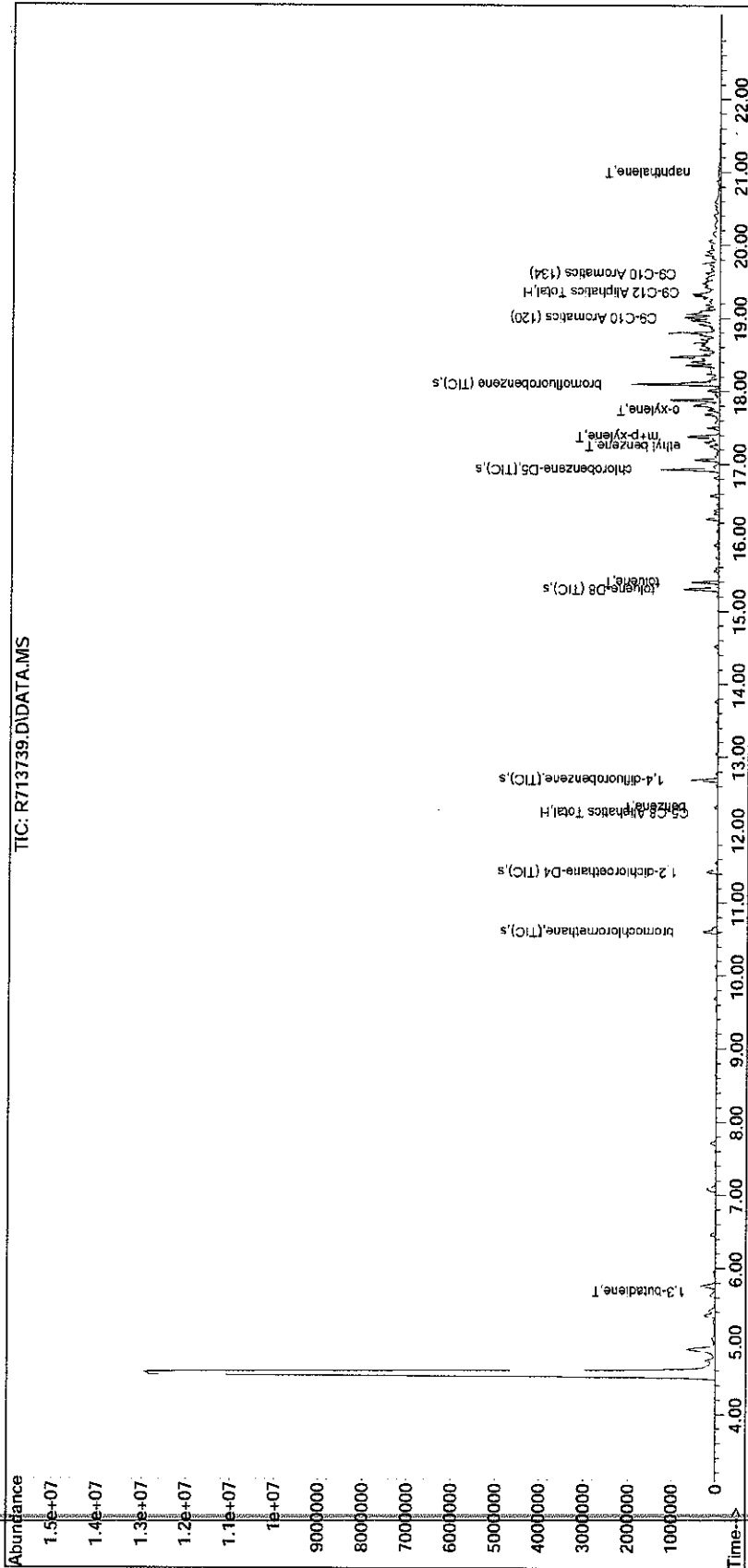


APH

Sub List : APH_STD_M -Report (QT Reviewed)

Data Path : O:\Forensics\Data\AirLab7\2010\101118a\
Data File : R713739.D
Acq On : 18 Nov 2010 8:32 pm
Operator : AIRLAB7:ry
Sample : L1018287-01,3,250,250
Misc : WG443823,ICAL5416
ALS Vial : 6 Sample Multiplier: 1

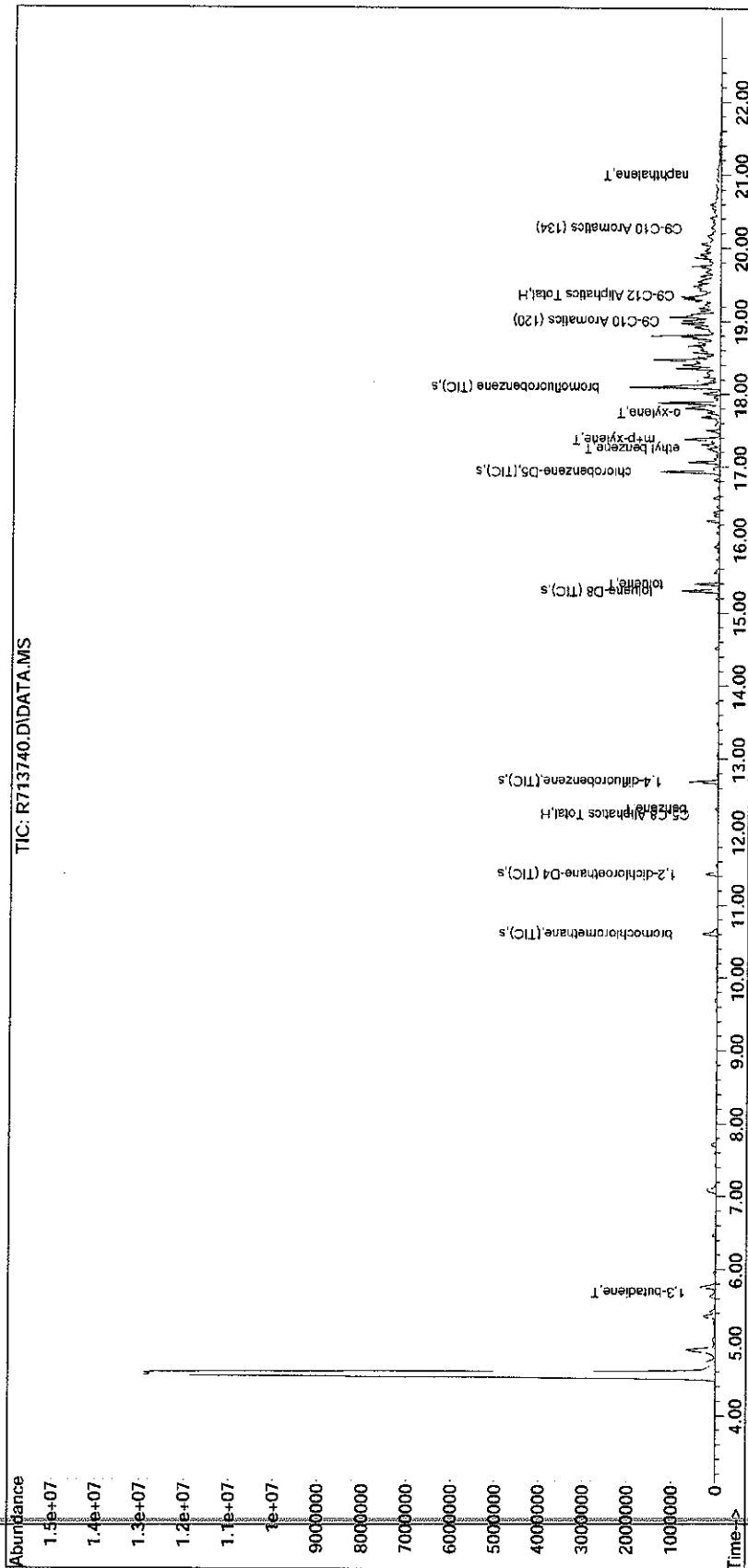
Quant Time: Nov 19 10:38:40 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\101118a\APH101018.M
Quant Title : APH Analysis
QLast Update : Tue Oct 19 09:18:46 2010
Response via : Initial Calibration



Sub List : APH_STD_M -Report (QT Reviewed)

Data Path : O:\Forensics\Data\AirLab7\2010\101118a\
Data File : R713740.D
Acq On : 18 Nov 2010 9:06 pm
Operator : AIRLAB7:ry
Sample : L1018287-02,3,250,250
Misc : WG443823,ICAL5416
ALS Vial : 7 Sample Multiplier: 1

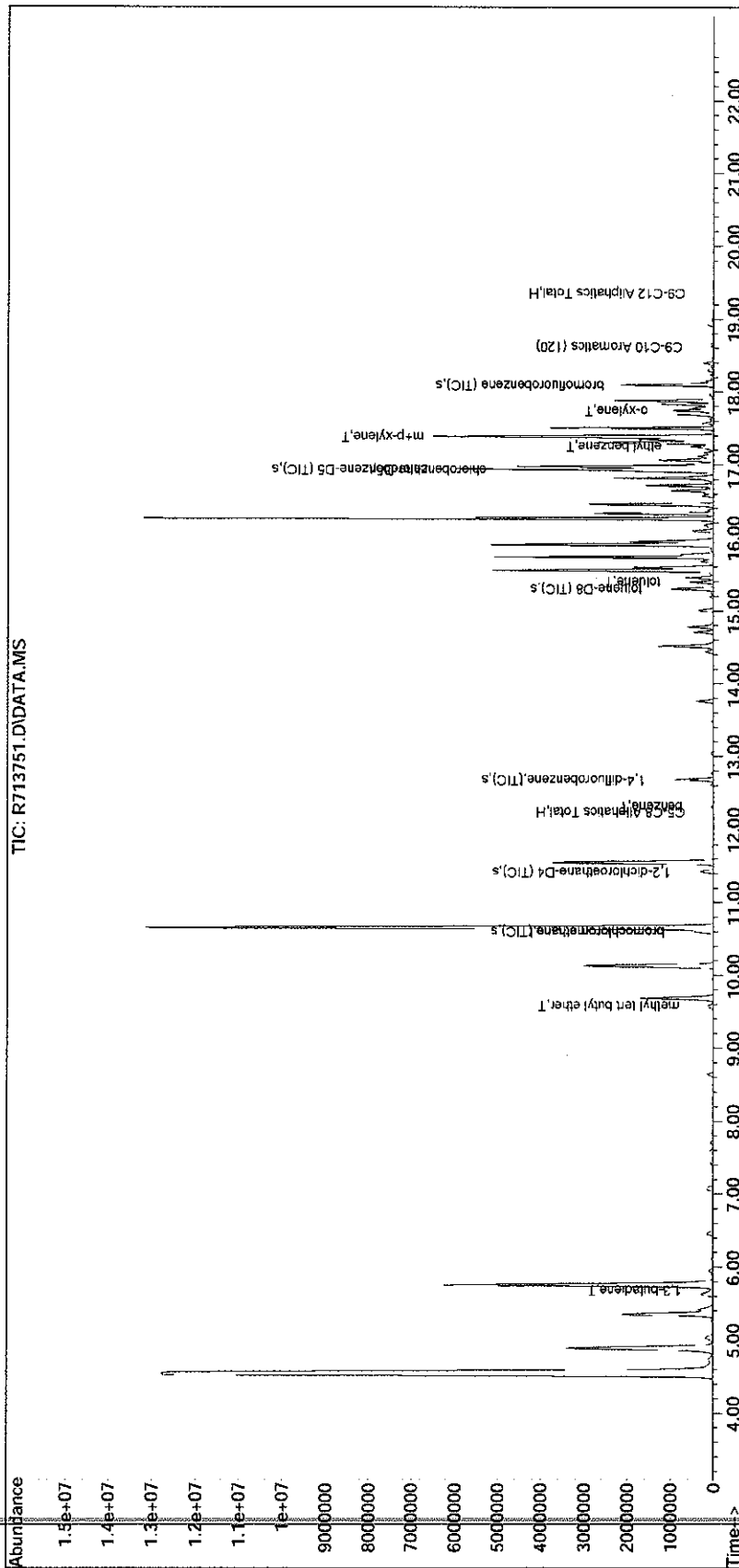
Quant Time: Nov 19 10:39:22 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\101118a\APH101018.M
Quant Title : APH Analysis
QLast Update : Tue Oct 19 09:18:46 2010
Response via : Initial Calibration



Sub List : APH_STD_M -Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2010\101118a\
Data File : R713751.D
Acq On : 19 Nov 2010 10:27 am
Operator : AIRLAB7:ry
Sample : L1018287-03D,3,100,250
Misc : WG443823,ICAL5416
ALS Vial : 8 Sample Multiplier: 1

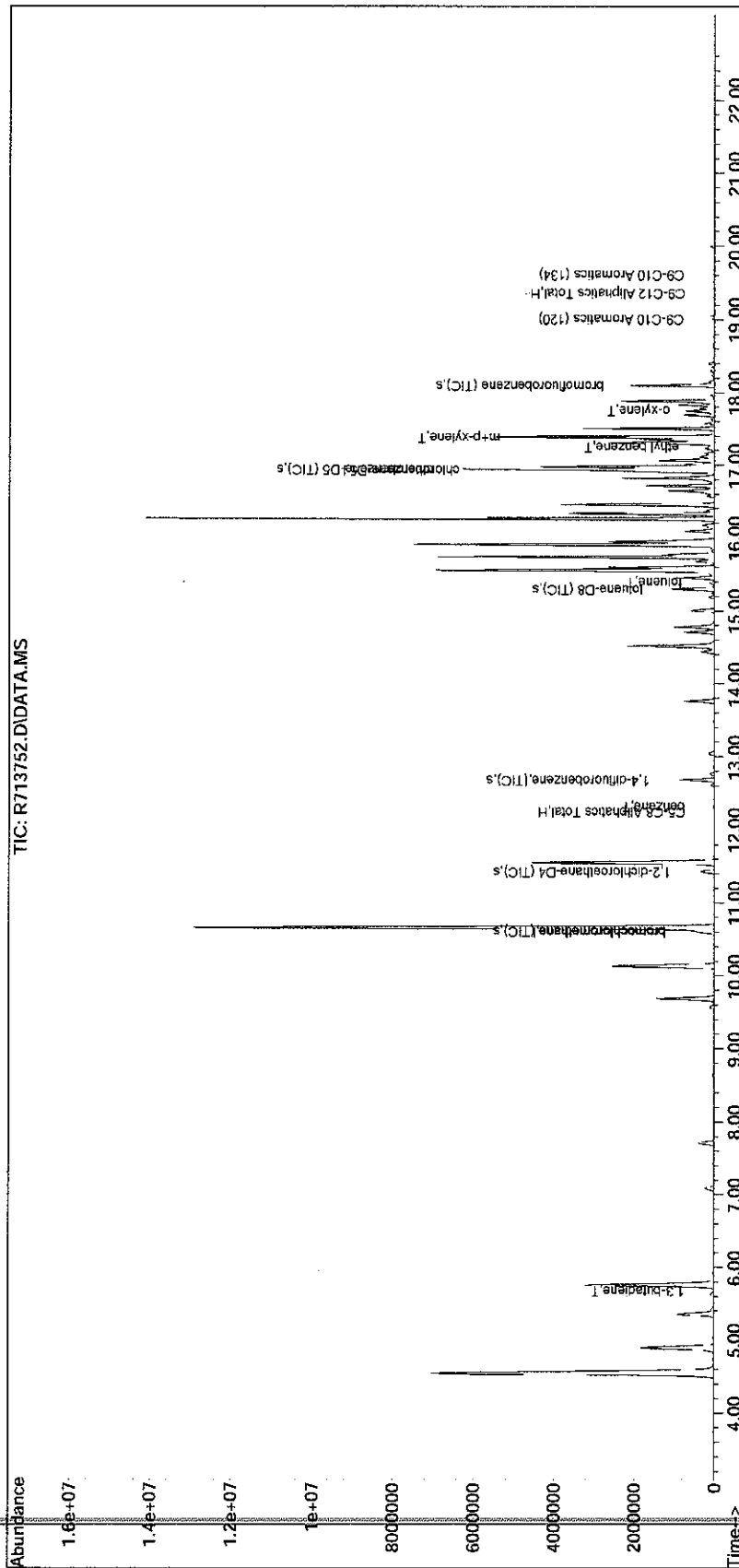
Quant Time: Nov 19 13:56:02 2010
Quant Method : O:\Forensics\Data\Airlab7\2010\101118a\APH101018.M
Quant Title : APH Analysis
QLast Update : Tue Oct 19 09:18:46 2010
Response via : Initial Calibration



Sub List : APH STD_M -Report (QT Reviewed)

Data Path : O:\Forensics\Data\AirLab7\2010\101118a\
Data File : R713752.D
Acq On : 19 Nov 2010 11:01 am
Operator : AIRLAB7:ry
Sample : L1018287-04D,3,25,250
Misc : WG443823,ICAL5416
ALS Vial : 9 Sample Multiplier: 1

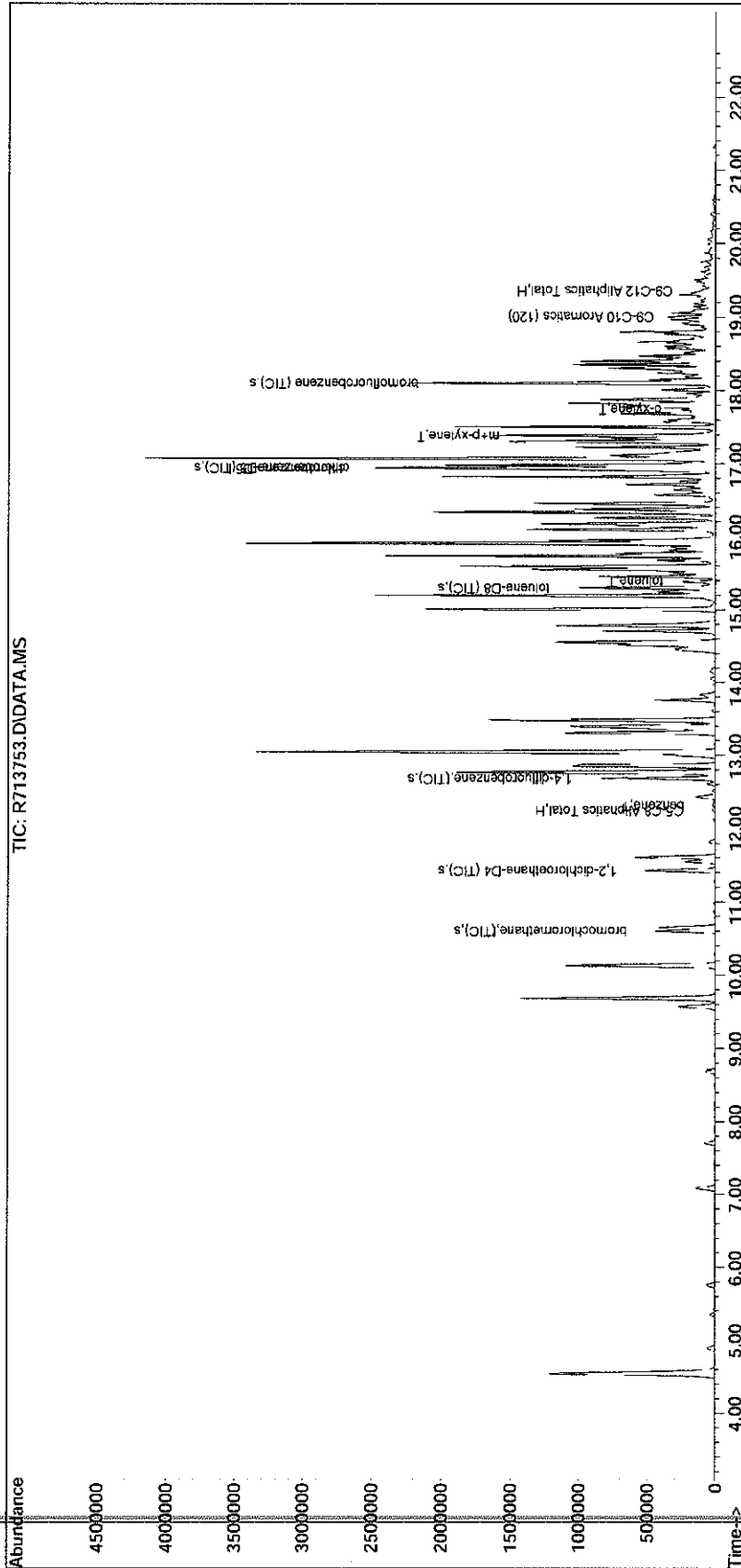
Quant Time: Nov 19 13:56:52 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\101118a\APH101018.M
Quant Title : APH Analysis
QLast Update : Tue Oct 19 09:18:46 2010
Response via : Initial Calibration



Sub List : APH_STD_M -Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2010\101118a\
Data File : R713753.D
Acq On : 19 Nov 2010 12:28 pm
Operator : AIRLAB7:ry
Sample : L1018287-05D,3,2.0225,250
Misc : WG443823,ICAL5416
ALS Vial : 10 Sample Multiplier: 1

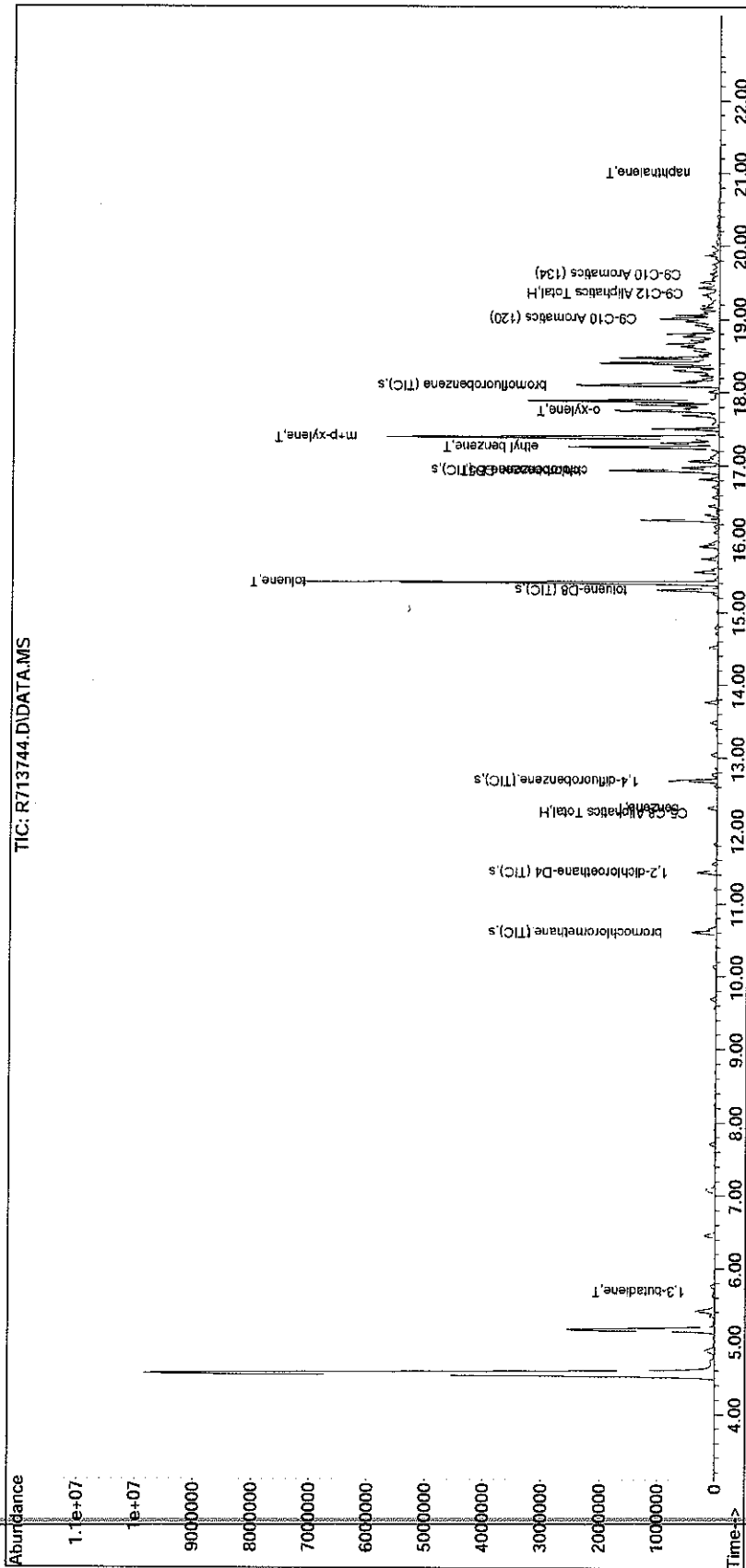
Quant Time: Nov 19 13:58:02 2010
Quant Method : O:\Forensics\Data\Airlab7\2010\101118a\APH101018.M
Quant Title : APH Analysis
QLast Update : Tue Oct 19 09:18:46 2010
Response via : Initial Calibration



Sub List : APH_STD_M -Report (QT Reviewed)

Data Path : O:\Forensics\Data\AirLab7\2010\101118a\
Data File : R713744.D
Acq On : 18 Nov 2010 11:25 pm
Operator : AIRLAB7:ry
Sample : L1018287-06,3,250,250
Misc : WG443823,ICAL5416
ALS Vial : 11 Sample Multiplier: 1

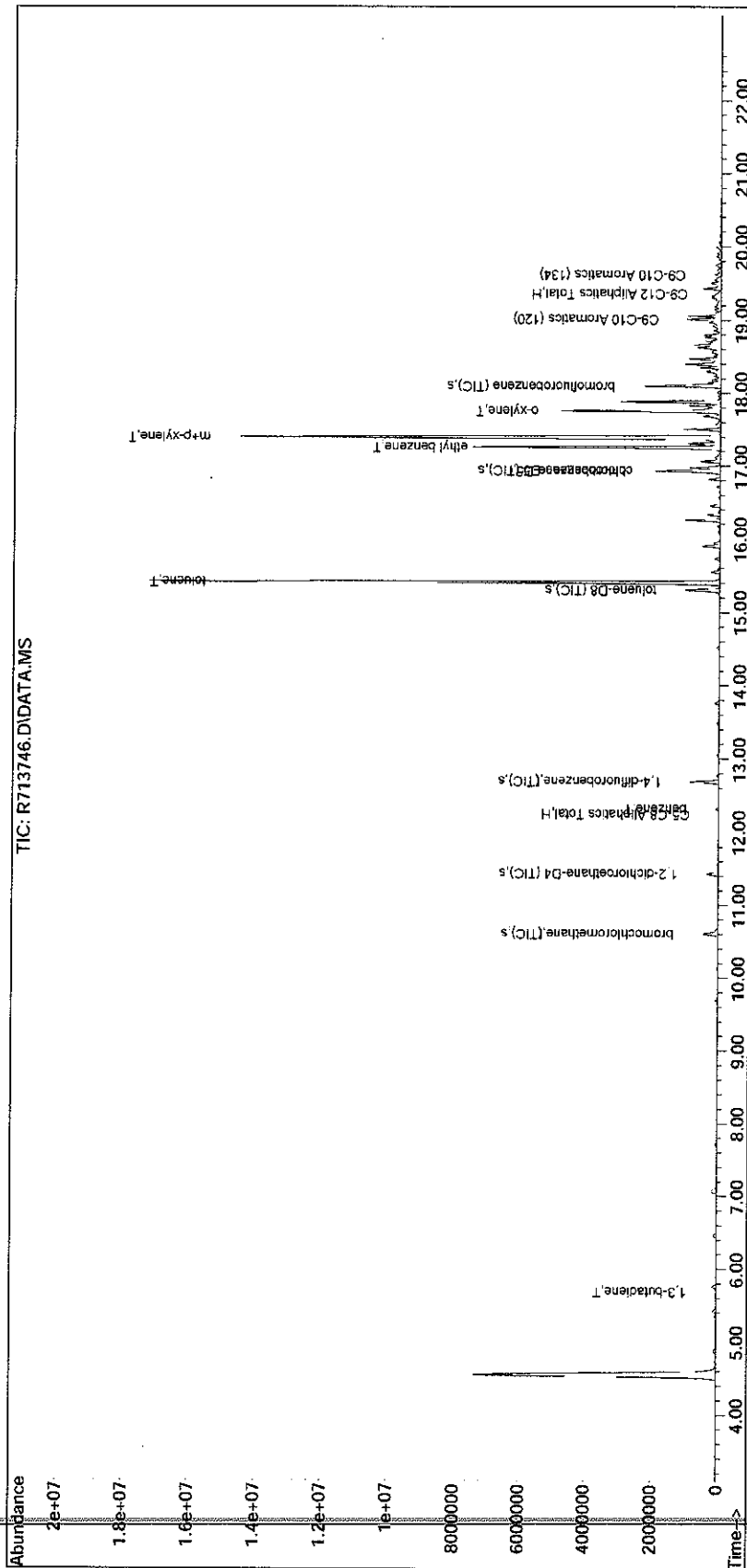
Quant Time: Nov 19 10:40:29 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\101118a\APH101018.M
Quant Title : APH Analysis
QLast Update : Tue Oct 19 09:18:46 2010
Response via : Initial Calibration



Sub List : APH STD_M -Report (QT Reviewed)

Data Path : O:\Forensics\Data\AirLab7\2010\101118a\
Data File : R713746.D
Acq On : 19 Nov 2010 12:36 am
Operator : AIRLAB7:ry
Sample : L1018287-07D,3,100,250
Misc : WG443823,ICAL5416
ALS Vial : 12 Sample Multiplier: 1

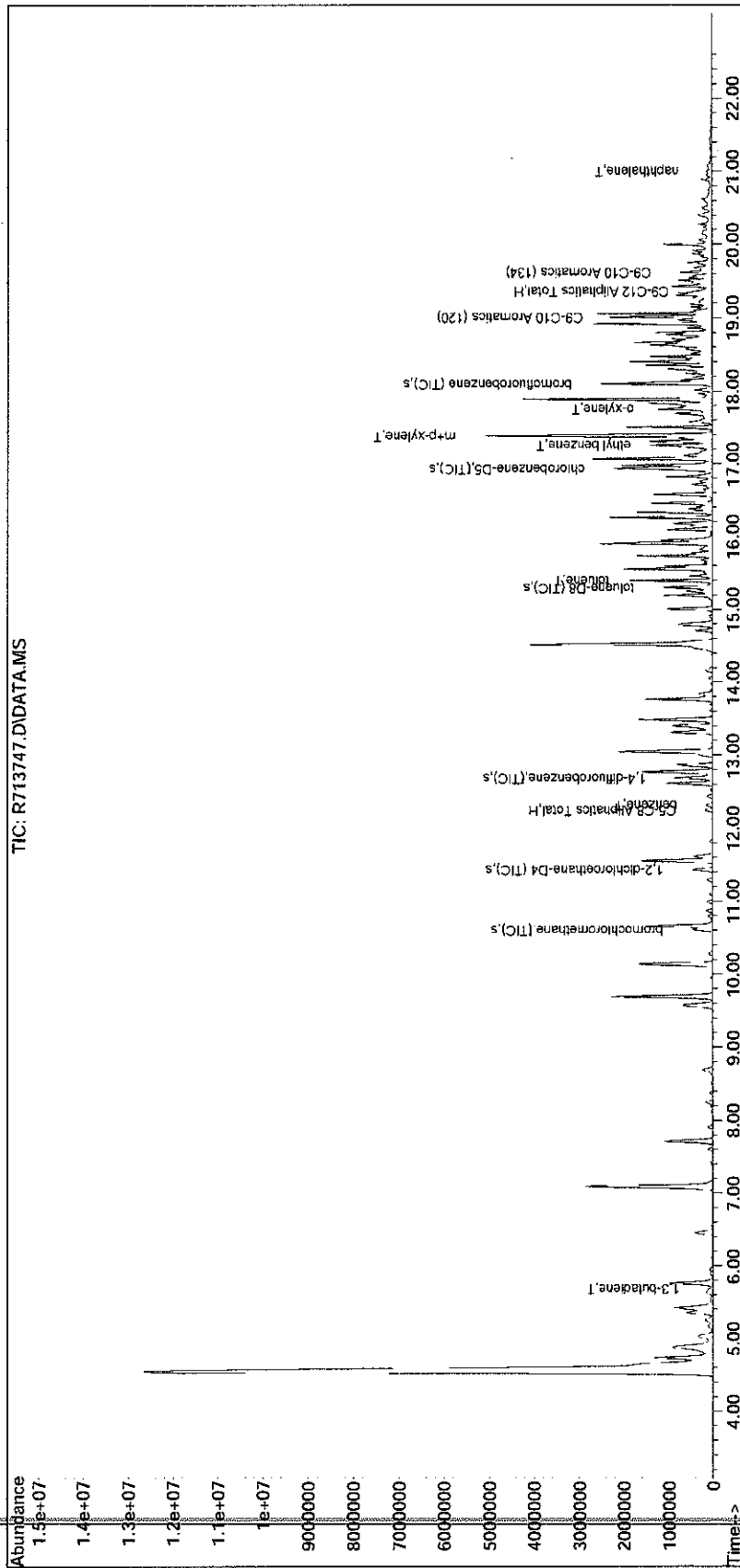
Quant Time: Nov 19 10:42:52 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\101118a\APH101018.M
Quant Title : APH Analysis
QLast Update : Tue Oct 19 09:18:46 2010
Response via : Initial Calibration



Sub List : APH_STD_M -Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2010\101118a\
Data File : R713747.D
Acq On : 19 Nov 2010 1:12 am
Operator : AIRLAB7:ry
Sample : L1018287-08,3,250,250
Misc : WG443823,ICAL5416
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 19 10:57:21 2010
Quant Method : O:\Forensics\Data\Airlab7\2010\101118a\APH101018.M
Quant Title : APH Analysis
QLast Update : Tue Oct 19 09:18:46 2010
Response via : Initial Calibration





ANALYTICAL REPORT

Lab Number:	L1018289
Client:	Maine DEP-Div. of Technical Services Division of Technical Services 312 Canco Road Portland, ME 04103
ATTN:	Robert Sypitkowski
Phone:	(207) 822-6300
Project Name:	PRESQUE ISLE, ME
Project Number:	Not Specified
Report Date:	11/30/10

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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: PRESQUE ISLE, ME
Project Number: Not Specified

Lab Number: L1018289
Report Date: 11/30/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1018289-01	SV-4	FORMER MET LIFE	11/12/10 11:54
L1018289-02	SV-8 (6')	FORMER MET LIFE	11/12/10 14:45

Project Name: PRESQUE ISLE, ME
Project Number: Not Specified

Lab Number: L1018289
Report Date: 11/30/10

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: PRESQUE ISLE, ME
Project Number: Not Specified

Lab Number: L1018289
Report Date: 11/30/10

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.

MCP Related Narratives

Canisters were released from the laboratory on November 8, 2010.

The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

L1018289-01 and -02 have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L1018289-02 was re-analyzed due to non-target interference with Internal Standard recoveries during the original analysis. The results of the re-analysis are reported.

Project Name: PRESQUE ISLE, ME
Project Number: Not Specified

Lab Number: L1018289
Report Date: 11/30/10

Case Narrative (continued)

Fixed Gas

L1018289-01: 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.


L1018289-02: Prior to sample analysis, the canister was pressurized with UHP Nitrogen in order to facilitate the transfer of sample to the Gas Chromatograph. The addition of Nitrogen resulted in a dilution of the sample. The reporting limits have been elevated accordingly.

Petroleum Hydrocarbons in Air

L1018289-01 and -02 have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

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: 11/30/10

AIR

Project Name: PRESQUE ISLE, ME**Lab Number:** L1018289**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018289-01 D
 Client ID: SV-4
 Sample Location: FORMER MET LIFE
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 11/19/10 01:46
 Analyst: RY

Date Collected: 11/12/10 11:54
 Date Received: 11/16/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	1.00	--	ND	2.55	--		5
1,1-Dichloroethene	ND	1.00	--	ND	3.96	--		5
trans-1,2-Dichloroethene	ND	1.00	--	ND	3.96	--		5
1,1-Dichloroethane	ND	1.00	--	ND	4.04	--		5
cis-1,2-Dichloroethene	ND	1.00	--	ND	3.96	--		5
1,2-Dichloroethane	ND	1.00	--	ND	4.04	--		5
1,1,1-Trichloroethane	ND	1.00	--	ND	5.45	--		5
Trichloroethene	ND	1.00	--	ND	5.37	--		5
1,2-Dibromoethane	ND	1.00	--	ND	7.68	--		5
Tetrachloroethene	ND	1.00	--	ND	6.78	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	137		60-140
Bromochloromethane	131		60-140
chlorobenzene-d5	119		60-140



Project Name: PRESQUE ISLE, ME**Lab Number:** L1018289**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018289-02 D
 Client ID: SV-8 (6')
 Sample Location: FORMER MET LIFE
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 11/20/10 12:13
 Analyst: RY

Date Collected: 11/12/10 14:45
 Date Received: 11/16/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	26.0	--	ND	66.4	--		129.9
1,1-Dichloroethene	ND	26.0	--	ND	103.	--		129.9
trans-1,2-Dichloroethene	ND	26.0	--	ND	103.	--		129.9
1,1-Dichloroethane	ND	26.0	--	ND	105.	--		129.9
cis-1,2-Dichloroethene	ND	26.0	--	ND	103.	--		129.9
1,2-Dichloroethane	ND	26.0	--	ND	105.	--		129.9
1,1,1-Trichloroethane	ND	26.0	--	ND	142.	--		129.9
Trichloroethene	ND	26.0	--	ND	139.	--		129.9
1,2-Dibromoethane	ND	26.0	--	ND	199.	--		129.9
Tetrachloroethene	ND	26.0	--	ND	176.	--		129.9

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	66		60-140
Bromochloromethane	67		60-140
chlorobenzene-d5	74		60-140



Project Name: PRESQUE ISLE, ME

Lab Number: L1018289

Project Number: Not Specified

Report Date: 11/30/10

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 11/18/10 16:53

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01 Batch: WG443822-4								
Propylene	ND	0.200	--	ND	0.344	--		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
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		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
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.37	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
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



Project Name: PRESQUE ISLE, ME

Lab Number: L1018289

Project Number: Not Specified

Report Date: 11/30/10

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 11/18/10 16:53

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01 Batch: WG443822-4								
Chloroform	ND	0.200	--	ND	0.976	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.589	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.704	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		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
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
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
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.819	--		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
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
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.920	--		1
Ethylbenzene	ND	0.200	--	ND	0.868	--		1



Project Name: PRESQUE ISLE, ME

Lab Number: L1018289

Project Number: Not Specified

Report Date: 11/30/10

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 11/18/10 16:53

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01 Batch: WG443822-4								
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
4-Ethyltoluene	ND	0.200	--	ND	0.982	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.982	--		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
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: PRESQUE ISLE, ME

Lab Number: L1018289

Project Number: Not Specified

Report Date: 11/30/10

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 11/19/10 17:20

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 02 Batch: WG443822-9								
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: PRESQUE ISLE, ME

Project Number: Not Specified

Lab Number: L1018289

Report Date: 11/30/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01 Batch: WG443822-3								
Vinyl chloride	98		-		70-130	-		
1,1-Dichloroethene	102		-		70-130	-		
trans-1,2-Dichloroethene	92		-		70-130	-		
1,1-Dichloroethane	96		-		70-130	-		
cis-1,2-Dichloroethene	98		-		70-130	-		
1,2-Dichloroethane	107		-		70-130	-		
1,1,1-Trichloroethane	107		-		70-130	-		
Trichloroethene	99		-		70-130	-		
1,2-Dibromoethane	96		-		70-130	-		
Tetrachloroethene	99		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: PRESQUE ISLE, ME

Project Number: Not Specified

Lab Number: L1018289

Report Date: 11/30/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 02 Batch: WG443822-8								
Vinyl chloride	98		-		70-130	-		
1,1-Dichloroethene	99		-		70-130	-		
trans-1,2-Dichloroethene	91		-		70-130	-		
1,1-Dichloroethane	97		-		70-130	-		
cis-1,2-Dichloroethene	97		-		70-130	-		
1,2-Dichloroethane	93		-		70-130	-		
1,1,1-Trichloroethane	90		-		70-130	-		
Trichloroethene	97		-		70-130	-		
1,2-Dibromoethane	106		-		70-130	-		
Tetrachloroethene	107		-		70-130	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: PRESQUE ISLE, ME

Project Number: Not Specified

Lab Number: L1018289

Report Date: 11/30/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG443822-5 QC Sample: L1018287-06 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	0.864	0.800	ppbV	8		25
Trichloroethene	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	0.229	0.245	ppbV	7		25

Project Name: PRESQUE ISLE, ME**Lab Number:** L1018289**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018289-01 D
Client ID: SV-4
Sample Location: FORMER MET LIFE
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 11/29/10 22:28
Analyst: BS

Date Collected: 11/12/10 11:54
Date Received: 11/16/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	19.2		%	1.47	--	1.474
Carbon Dioxide	0.162		%	0.147	--	1.474
Methane	ND		%	0.147	--	1.474

Project Name: PRESQUE ISLE, ME**Lab Number:** L1018289**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018289-02 D
Client ID: SV-8 (6')
Sample Location: FORMER MET LIFE
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 11/29/10 23:06
Analyst: BS

Date Collected: 11/12/10 14:45
Date Received: 11/16/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	19.4		%	1.64	--	1.636
Carbon Dioxide	0.268		%	0.164	--	1.636
Methane	ND		%	0.164	--	1.636

Project Name: PRESQUE ISLE, ME**Lab Number:** L1018289**Project Number:** Not Specified**Report Date:** 11/30/10**Method Blank Analysis
Batch Quality Control**

Analytical Method: 51,3C

Analytical Date: 11/29/10 17:01

Analyst: BS

Parameter	Result	Qualifier	Units	RL	MDL
Fixed Gases by GC - Mansfield Lab for sample(s): 01-02 Batch: WG445289-2					
Oxygen	ND		%	1.00	--
Carbon Dioxide	ND		%	0.100	--
Methane	ND		%	0.100	--

Lab Control Sample Analysis

Batch Quality Control

Project Name: PRESQUE ISLE, ME

Lab Number: L1018289

Project Number: Not Specified

Report Date: 11/30/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-02 Batch: WG445289-1								
Oxygen	96		-		80-120	-		
Carbon Dioxide	110		-		80-120	-		
Methane	100		-		80-120	-		

Lab Duplicate Analysis Batch Quality Control

Project Name: PRESQUE ISLE, ME

Project Number: Not Specified

Lab Number: L1018289

Report Date: 11/30/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG445289-10 QC Sample: L1018287-08 Client ID: DUP Sample						
Oxygen	19.3	19.3	%	0		5
Carbon Dioxide	ND	ND	%	NC		5
Methane	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG445289-11 QC Sample: L1018289-01 Client ID: SV-4						
Oxygen	19.2	19.2	%	0		5
Carbon Dioxide	0.162	0.165	%	2		5
Methane	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG445289-12 QC Sample: L1018289-02 Client ID: SV-8 (6')						
Oxygen	19.4	19.4	%	0		5
Carbon Dioxide	0.268	0.267	%	0		5
Methane	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG445289-3 QC Sample: L1018287-01 Client ID: DUP Sample						
Oxygen	18.3	18.9	%	3		5
Carbon Dioxide	1.04	1.04	%	0		5
Methane	ND	ND	%	NC		5

Lab Duplicate Analysis

Batch Quality Control

Project Name: PRESQUE ISLE, ME

Project Number: Not Specified

Lab Number: L1018289

Report Date: 11/30/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG445289-4 QC Sample: L1018287-02 Client ID: DUP Sample					
Oxygen	18.6	18.6	%	0	5
Carbon Dioxide	1.32	1.32	%	0	5
Methane	ND	ND	%	NC	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG445289-5 QC Sample: L1018287-03 Client ID: DUP Sample					
Oxygen	18.3	18.3	%	0	5
Carbon Dioxide	1.70	1.69	%	1	5
Methane	ND	ND	%	NC	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG445289-6 QC Sample: L1018287-04 Client ID: DUP Sample					
Oxygen	18.7	18.8	%	1	5
Carbon Dioxide	0.676	0.676	%	0	5
Methane	ND	ND	%	NC	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG445289-7 QC Sample: L1018287-05 Client ID: DUP Sample					
Oxygen	18.6	18.2	%	2	5
Carbon Dioxide	0.349	0.352	%	1	5
Methane	ND	ND	%	NC	5

Lab Duplicate Analysis

Batch Quality Control

Project Name: PRESQUE ISLE, ME

Project Number: Not Specified

Lab Number: L1018289

Report Date: 11/30/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG445289-8 QC Sample: L1018287-06 Client ID: DUP Sample					
Oxygen	19.5	19.6	%	1	5
Carbon Dioxide	ND	ND	%	NC	5
Methane	ND	ND	%	NC	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG445289-9 QC Sample: L1018287-07 Client ID: DUP Sample					
Oxygen	19.8	19.8	%	0	5
Carbon Dioxide	ND	ND	%	NC	5
Methane	ND	ND	%	NC	5

Project Name: PRESQUE ISLE, ME**Lab Number:** L1018289**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018289-01 D
 Client ID: SV-4
 Sample Location: FORMER MET LIFE
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 11/19/10 01:46
 Analyst: RY

Date Collected: 11/12/10 11:54
 Date Received: 11/16/10
 Field Prep: Not Specified

Quality Control Information

Sample Type: 30 minute 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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Petroleum Hydrocarbons in Air - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,3-Butadiene	ND		ug/m3	10	--	5
Methyl tert butyl ether	ND		ug/m3	10	--	5
Benzene	80		ug/m3	10	--	5
Toluene	12		ug/m3	10	--	5
C5-C8 Aliphatics, Adjusted	1400		ug/m3	60	--	5
Ethylbenzene	ND		ug/m3	10	--	5
p/m-Xylene	ND		ug/m3	20	--	5
o-Xylene	ND		ug/m3	10	--	5
Naphthalene	ND		ug/m3	10	--	5
C9-C12 Aliphatics, Adjusted	430		ug/m3	70	--	5
C9-C10 Aromatics Total	ND		ug/m3	50	--	5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	148		50-200
Bromochloromethane	142		50-200
Chlorobenzene-d5	123		50-200

Project Name: PRESQUE ISLE, ME**Lab Number:** L1018289**Project Number:** Not Specified**Report Date:** 11/30/10**SAMPLE RESULTS**

Lab ID: L1018289-02 D
 Client ID: SV-8 (6')
 Sample Location: FORMER MET LIFE
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 11/19/10 02:20
 Analyst: RY

Date Collected: 11/12/10 14:45
 Date Received: 11/16/10
 Field Prep: Not Specified

Quality Control Information

Sample Type: 30 minute 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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	10	--	5
Methyl tert butyl ether	ND		ug/m3	10	--	5
Benzene	30		ug/m3	10	--	5
Toluene	29		ug/m3	10	--	5
C5-C8 Aliphatics, Adjusted	33000		ug/m3	60	--	5
Ethylbenzene	34		ug/m3	10	--	5
p/m-Xylene	220		ug/m3	20	--	5
o-Xylene	17		ug/m3	10	--	5
Naphthalene	ND		ug/m3	10	--	5
C9-C12 Aliphatics, Adjusted	7500		ug/m3	70	--	5
C9-C10 Aromatics Total	500		ug/m3	50	--	5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	171		50-200
Bromochloromethane	156		50-200
Chlorobenzene-d5	171		50-200

Project Name: PRESQUE ISLE, ME

Lab Number: L1018289

Project Number: Not Specified

Report Date: 11/30/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 96,APH

Analytical Date: 11/18/10 16:53

Analyst: RY

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbons in Air - Mansfield Lab for sample(s): 01-02 Batch: WG443823-4					
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: PRESQUE ISLE, ME

Project Number: Not Specified

Lab Number: L1018289

Report Date: 11/30/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG443823-3								
1,3-Butadiene	75		-		70-130	-		
Methyl tert butyl ether	81		-		70-130	-		
Benzene	81		-		70-130	-		
Toluene	82		-		70-130	-		
C5-C8 Aliphatics, Adjusted	80		-		70-130	-		
Ethylbenzene	82		-		70-130	-		
p/m-Xylene	82		-		70-130	-		
o-Xylene	85		-		70-130	-		
Naphthalene	103		-		50-150	-		
C9-C12 Aliphatics, Adjusted	77		-		70-130	-		
C9-C10 Aromatics Total	72		-		70-130	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: PRESQUE ISLE, ME

Project Number: Not Specified

Lab Number: L1018289

Report Date: 11/30/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG443823-5 QC Sample: L1018287-06 Client ID: DUP Sample						
1,3-Butadiene	ND	ND	ug/m3	NC		30
Methyl tert butyl ether	ND	ND	ug/m3	NC		30
Benzene	7.6	7.2	ug/m3	5		30
Toluene	230	220	ug/m3	4		30
C5-C8 Aliphatics, Adjusted	670	600	ug/m3	11		30
Ethylbenzene	70	72	ug/m3	3		30
p/m-Xylene	160	170	ug/m3	6		30
o-Xylene	39	40	ug/m3	3		30
Naphthalene	ND	ND	ug/m3	NC		30
C9-C12 Aliphatics, Adjusted	840	840	ug/m3	0		30
C9-C10 Aromatics Total	53	55	ug/m3	4		30

Project Name: PRESQUE ISLE, ME

Serial_No:11301015:20

Lab Number: L1018289

Project Number:

Report Date: 11/30/10

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
L1018289-01	SV-4	0445	#90 SV		-	-	68	71	4
L1018289-01	SV-4	179	2.7L Can	I1017308	-29.3	-0.3	-	-	-
L1018289-02	SV-8 (6')	0410	#90 SV		-	-	70	74	6
L1018289-02	SV-8 (6')	149	2.7L Can	I1017308	-29.3	-1.6	-	-	-



Air Volatiles Can Certification

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1017308**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017308-01
 Client ID: CAN 366 SHELF 2
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 11/03/10 18:48
 Analyst: RY

Date Collected: 11/02/10 00:00
 Date Received: 11/02/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017308**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017308-01

Date Collected: 11/02/10 00:00

Client ID: CAN 366 SHELF 2

Date Received: 11/02/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017308**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017308-01

Date Collected: 11/02/10 00:00

Client ID: CAN 366 SHELF 2

Date Received: 11/02/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017308**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017308-01

Date Collected: 11/02/10 00:00

Client ID: CAN 366 SHELF 2

Date Received: 11/02/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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-Trimethylbenzene	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:** L1017308**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017308-01

Date Collected: 11/02/10 00:00

Client ID: CAN 366 SHELF 2

Date Received: 11/02/10

Sample Location:

Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	84		60-140

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1017308**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017308-01
 Client ID: CAN 366 SHELF 2
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 11/03/10 18:48
 Analyst: RY

Date Collected: 11/02/10 00:00
 Date Received: 11/02/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017308**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017308-01

Date Collected: 11/02/10 00:00

Client ID: CAN 366 SHELF 2

Date Received: 11/02/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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-Trimethylbenzene	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:** L1017308**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**Air Canister Certification Results**

Lab ID: L1017308-01

Date Collected: 11/02/10 00:00

Client ID: CAN 366 SHELF 2

Date Received: 11/02/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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: L1017308

Project Number: CANISTER QC BAT

Report Date: 11/30/10

Air Canister Certification Results

Lab ID: L1017308-01

Date Collected: 11/02/10 00:00

Client ID: CAN 366 SHELF 2

Date Received: 11/02/10

Sample Location:

Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	88		60-140



AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1017308**Project Number:** CANISTER QC BAT**Report Date:** 11/30/10**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1017308-01
Client ID: CAN 366 SHELF 2
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 11/03/10 18:48
Analyst: RY

Date Collected: 11/02/10 00:00
Date Received: 11/02/10
Field Prep: Not Specified

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: PRESQUE ISLE, ME**Lab Number:** L1018289**Project Number:** Not Specified**Report Date:** 11/30/10**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(*)
L1018289-01A	Canister - 2.7 Liter	N/A	NA		NA	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1018289-02A	Canister - 2.7 Liter	N/A	NA		NA	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name: PRESQUE ISLE, ME
Project Number: Not Specified

Lab Number: L1018289
Report Date: 11/30/10

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: PRESQUE ISLE, ME
Project Number: Not Specified

Lab Number: L1018289
Report Date: 11/30/10

Data Qualifiers

- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: PRESQUE ISLE, ME
Project Number: Not Specified

Lab Number: L1018289
Report Date: 11/30/10

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

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

CHAIN OF CUSTODY

Client Information

Client: **MAINE DEP**

Address: **312 Cance Road**

Phone: **(207) 822-6300**

Fax: **(207) 822-6303**

Email: **pete.m.cremata@maine.gov**

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project Information

Project Name: **Foxeas MetLife**

Project Location: **Pleasant Isle, ME**

Project #: _____

Project Manager: **Rossert Sprittkowski**

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)
Robert.A.Sprittkowski@maine.gov
diana.m.mckenzie@maine.gov
jessej@summitenv.com

Billing Information

Same as Client Info

PO #: _____

ALPHA Job #: **L1018289**

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria
MAINE	DEP	EDD

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION				Sample Matrix*	Sampler's Initials	Can Size	I.D. Can	I.D. - Flow Controller	ANALYSIS					
		Date	Start Time	End Time	Vacuum						Initial	Final	TO-14A by TO-15	TO-15	TO-15 SIM	APH
18289-01	SV-4	11-12	11:11	11:54	>30	SV	JWC	1L	179	0445	X	X	X	X		
	SV-8 (6')	14:05	14:45	14:45	>30	SV	JWC	1L	149	0410	X	X	X	X		

***SAMPLE MATRIX CODES**

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

Relinquished By: **[Signature]** Date/Time: **11-13/10:00**

Received By: **FEDEX** Date/Time: **11/10 10:55**

Container Type: **Michelle A. Ross**

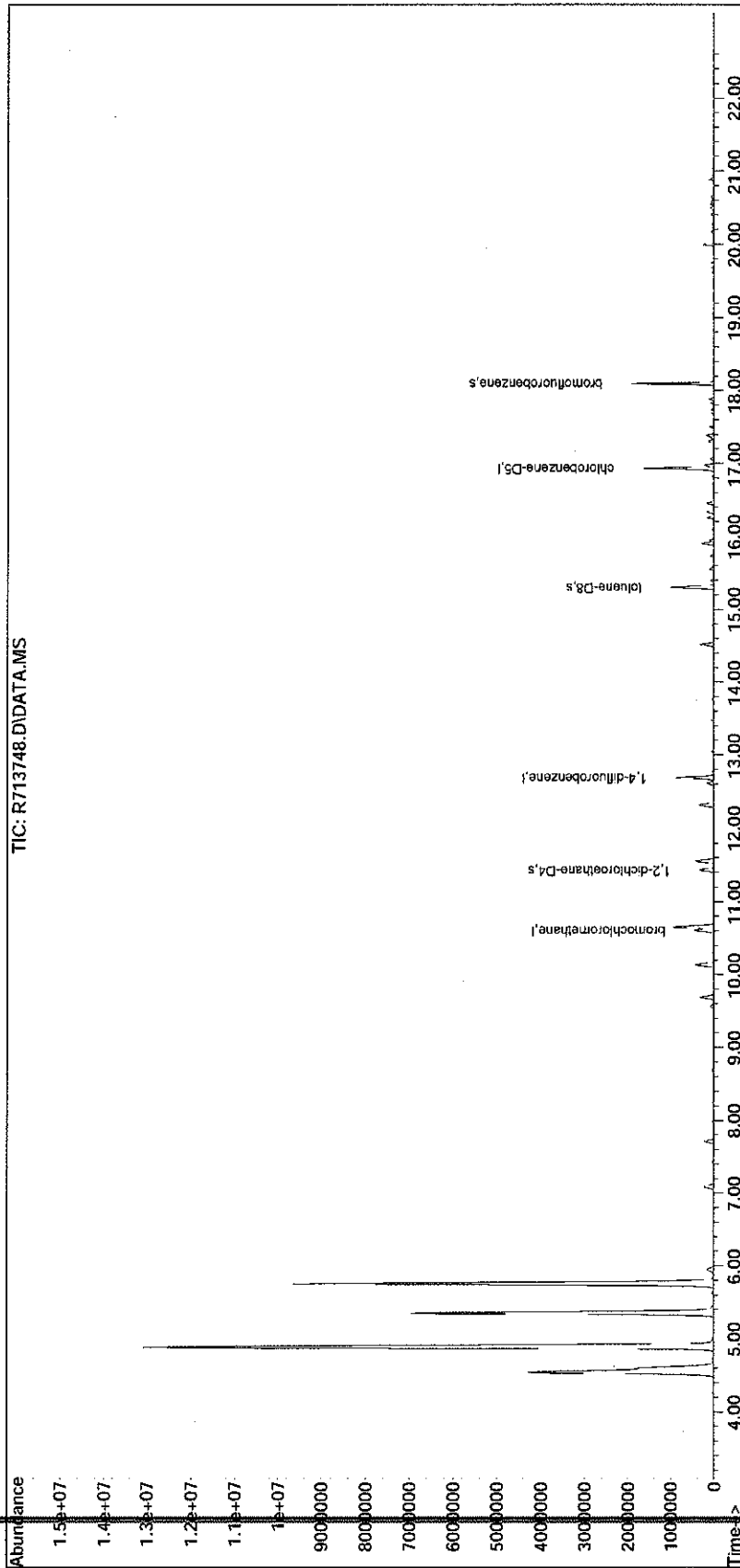
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time stock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

TO-15

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

Data Path : O:\Forensics\Data\Airlab7\2010\101118T\
Data File : R713748.D
Acq On : 19 Nov 2010 1:46 am
Operator : AIRLAB7:ry
Sample : L1018289-01D,3,50,250
Misc : wg443822,ical5297
ALS Vial : 14 Sample Multiplier: 1

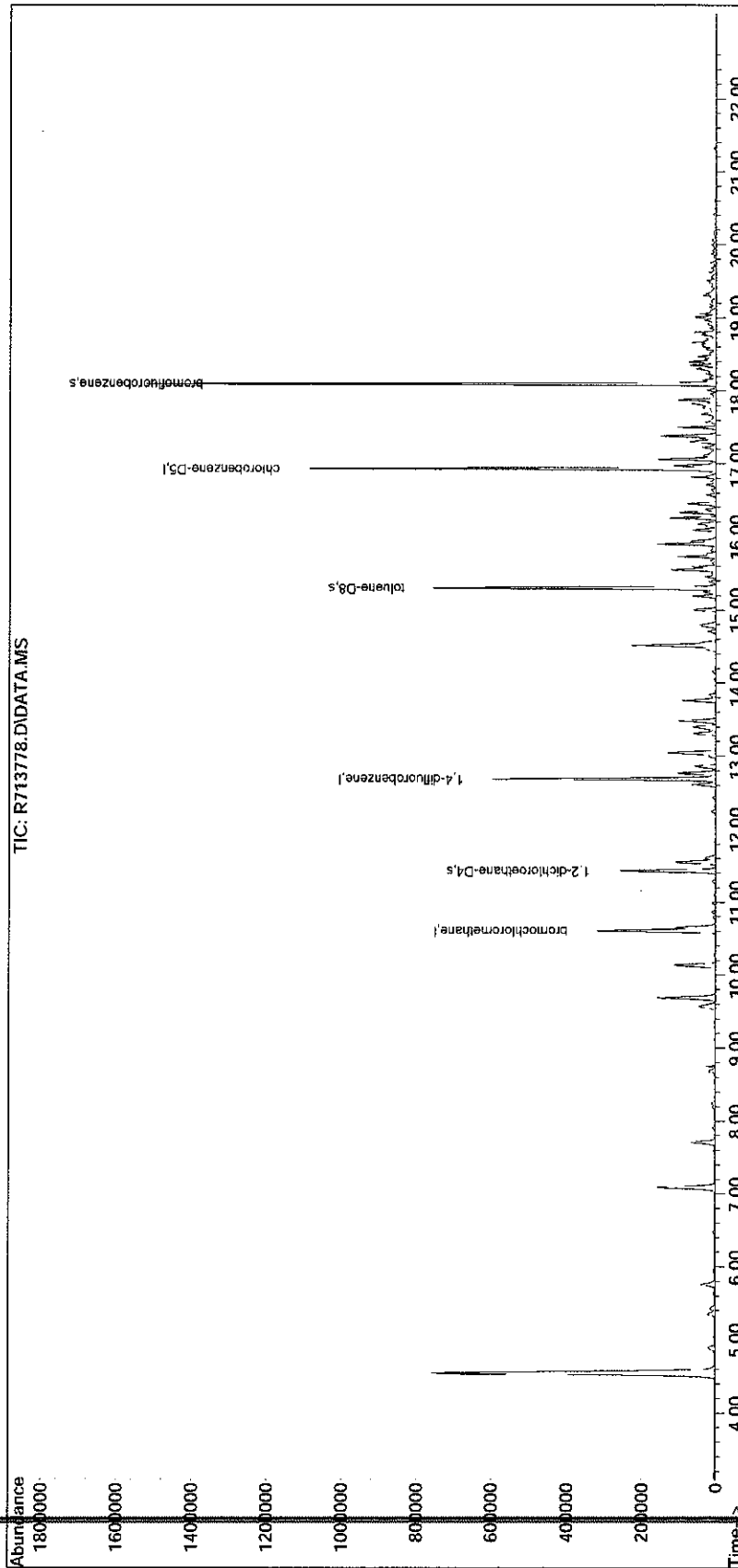
Quant Time: Nov 19 17:38:47 2010
Quant Method : O:\Forensics\Data\Airlab7\2010\101118T\TALL100825.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Aug 26 11:10:47 2010
Response via : Initial Calibration



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

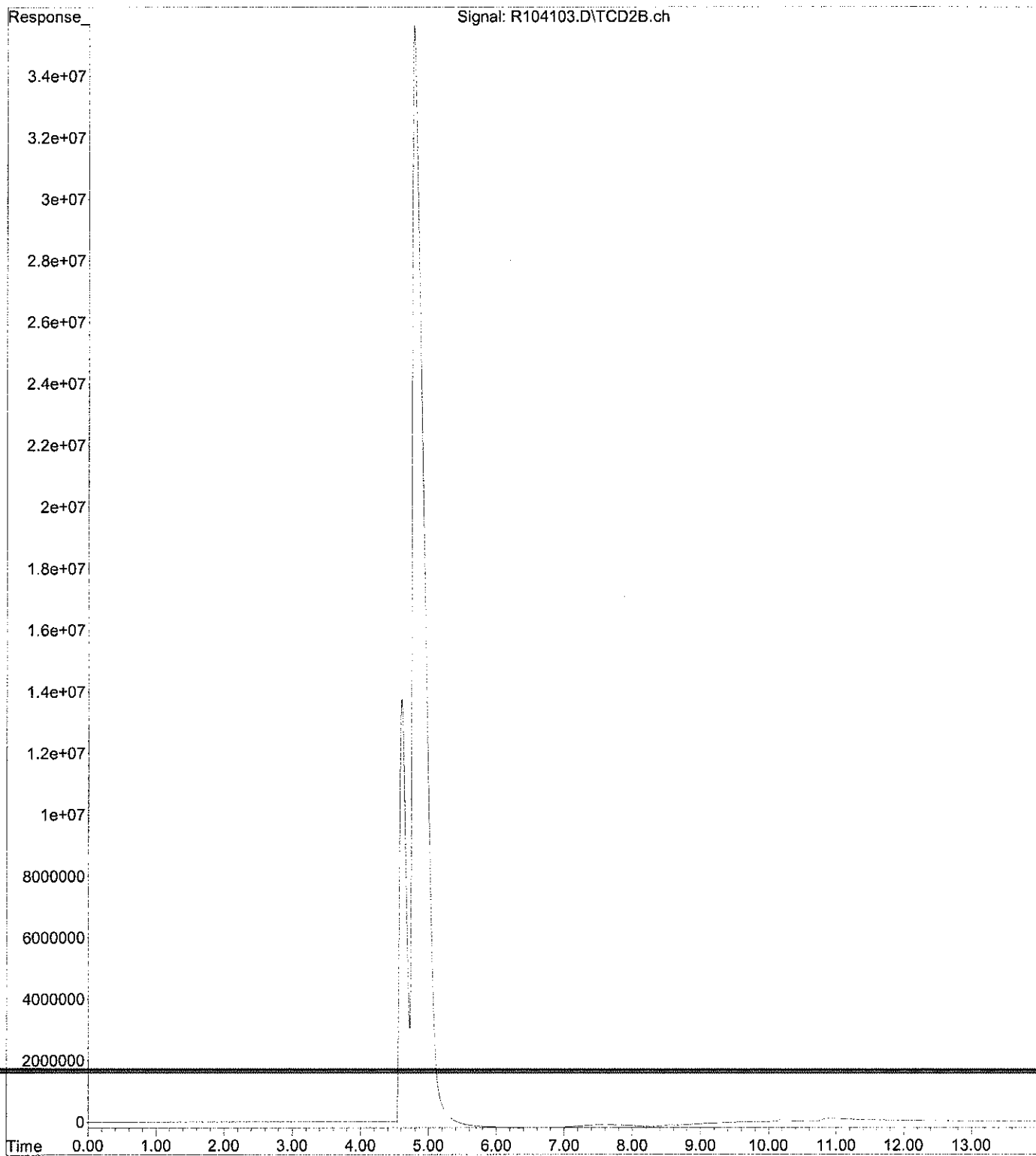
Data Path : O:\Forensics\Data\Airlab7\2010\101119T\
Data File : R713778.D
Acq On : 20 Nov 2010 12:13 pm
Operator : AIRLAB7:ry
Sample : L1018289-02D,3,1.9249,250
Misc : wg443822,ical5297
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 20 17:28:37 2010
Quant Method : O:\Forensics\Data\Airlab7\2010\101119T\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

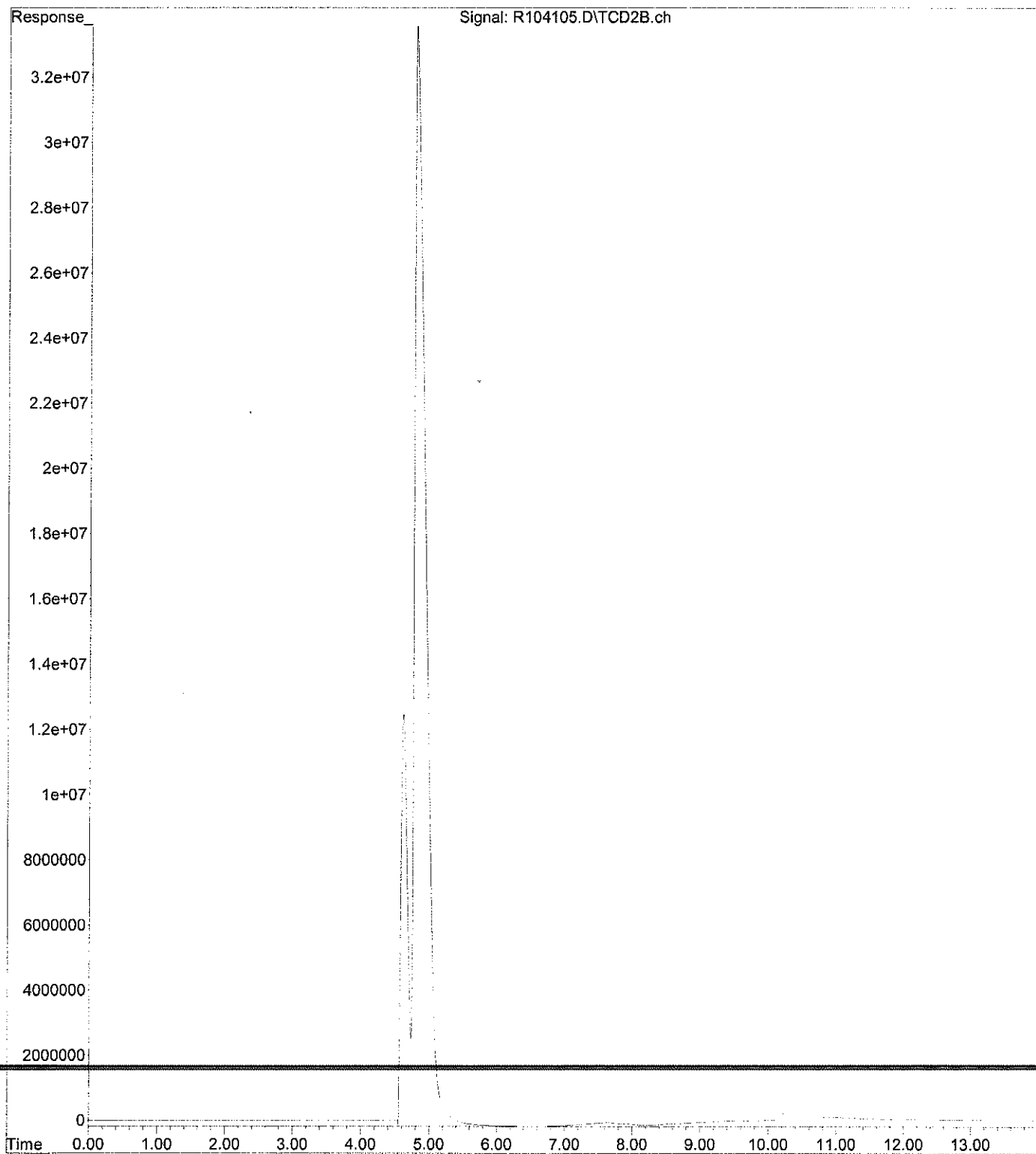


Fixed Gases

File :O:\Forensics\Data\airlab10\101129FG\R104103.D
Operator : airlab10:BS
Acquired : 29 Nov 2010 10:28 pm using AcqMethod FIXGAS.M
Instrument : Airlab 10
Sample Name: L1018289-01D,4,0.6784,1
Misc Info : WG445289,ICAL5222
Vial Number: 12



File :O:\Forensics\Data\airlab10\101129FG\R104105.D
Operator : airlab10:BS
Acquired : 29 Nov 2010 11:06 pm using AcqMethod FIXGAS.M
Instrument : Airlab 10
Sample Name: L1018289-02D,4,0.6112,1
Misc Info : WG445289,ICAL5222
Vial Number: 24

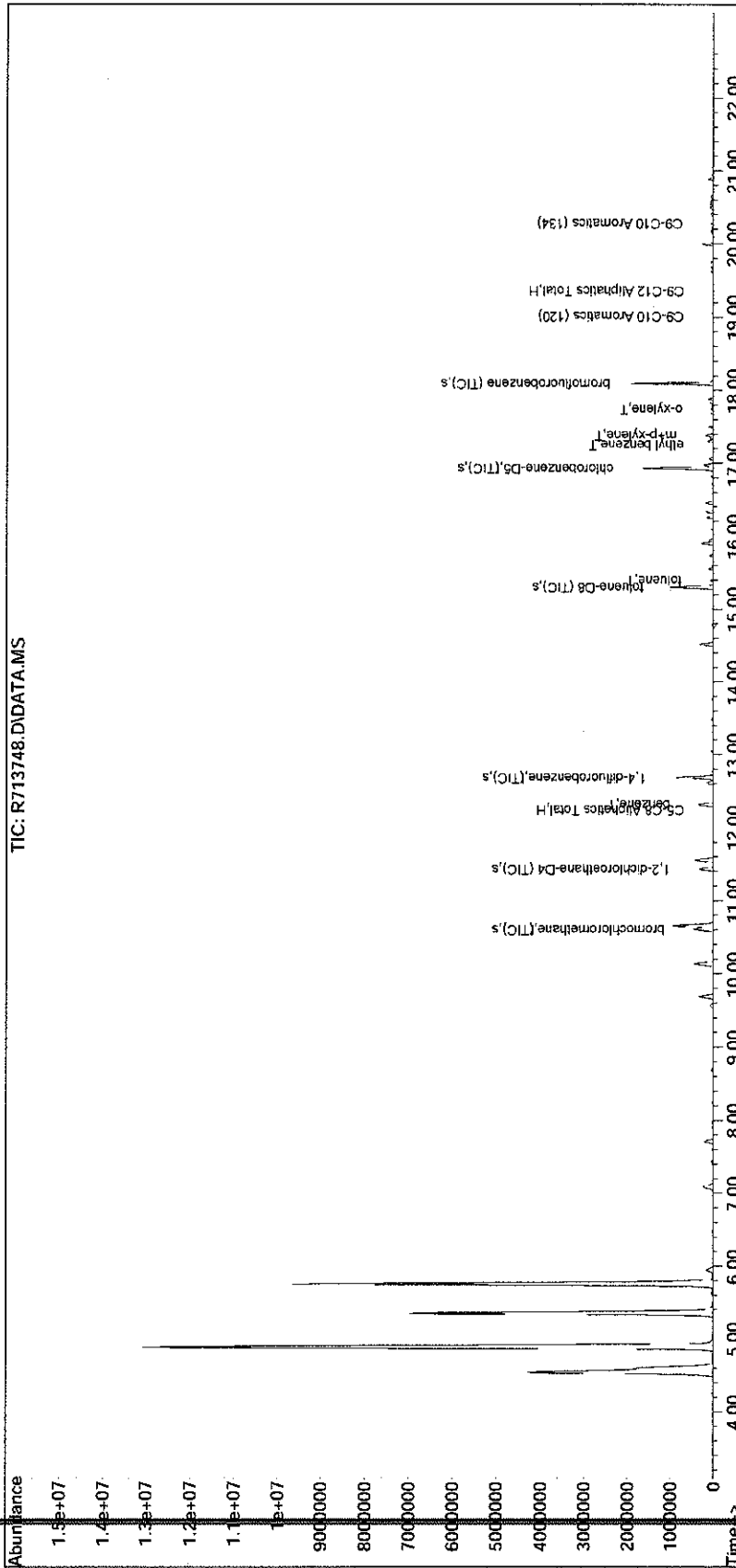


APH

Sub List : APH_STD_M -Report (QT Reviewed)

Data Path : O:\Forensics\Data\AirLab7\2010\101118a\
Data File : R713748.D
Acq On : 19 Nov 2010 1:46 am
Operator : AIRLAB7:RY
Sample : L1018289-01D,3,50,250
Misc : WG443823,ICAL5416
ALS Vial : 14 Sample Multiplier: 1

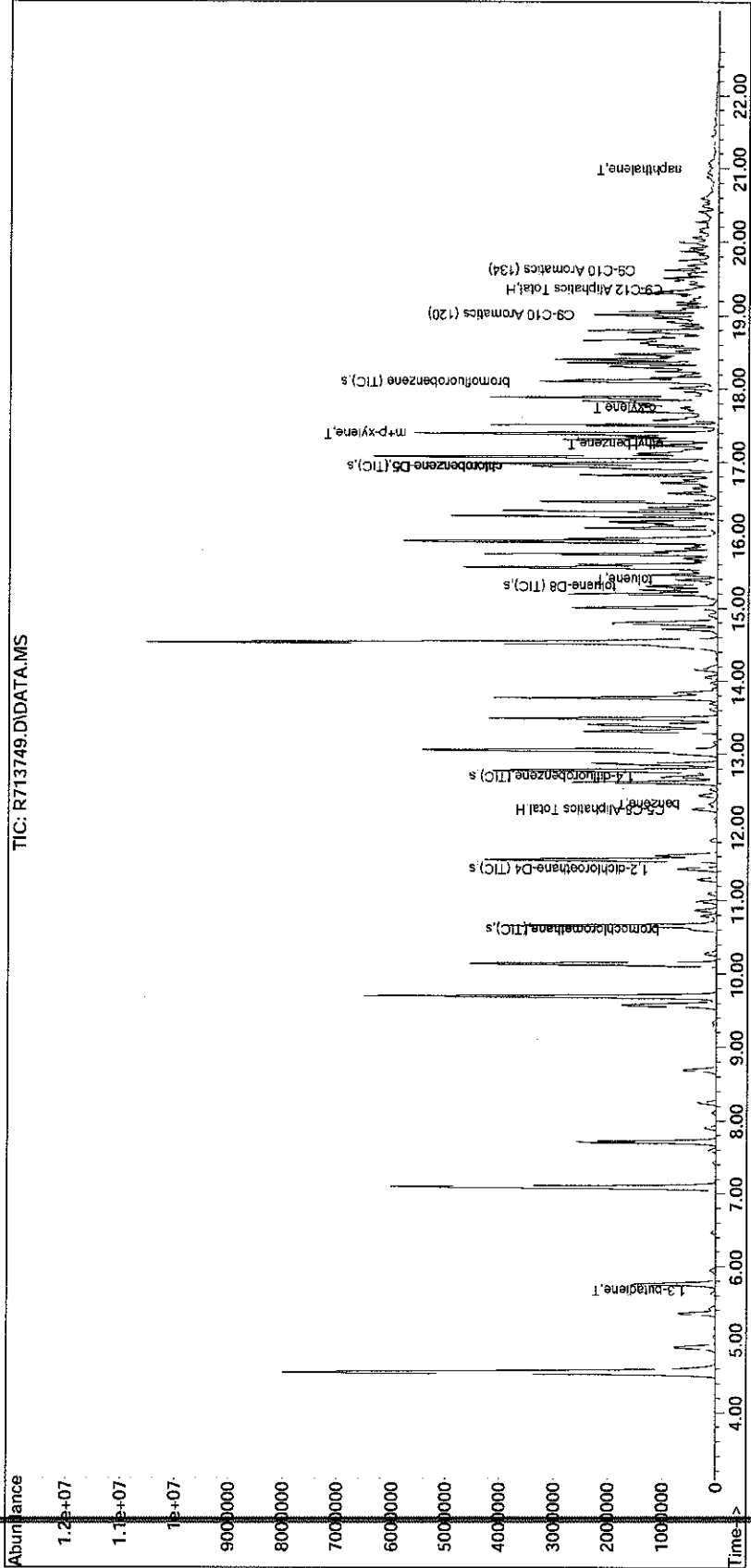
Quant Time: Nov 19 10:44:31 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\101118a\APH101018.M
Quant Title : APH Analysis
QLast Update : Tue Oct 19 09:18:46 2010
Response via : Initial Calibration



Sub List : APH_STD_M -Report (QT Reviewed)

Data Path : O:\Forensics\Data\AirLab7\2010\101118a\
Data File : R713749.D
Acq On : 19 Nov 2010 2:20 am
Operator : AIRLAB7:ry
Sample : L1018289-02D,3,50,250
Misc : WG443823,ICAL5416
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 19 10:45:25 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\101118a\APH101018.M
Quant Title : APH Analysis
Quant Update : Tue Oct 19 09:18:46 2010
Response via : Initial Calibration





195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

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

Report Number: 68466

Revision: Rev. 1

Re: DEP 2521-10

Enclosed are the results of the analyses on your sample(s). Samples were received on 29 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 Department 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

12/9/2010

This report shall not be reproduced, except in full, without the written consent of Analytics Environmental Laboratory, LLC.

**CLIENT: Maine Environmental Laboratory, REPORT NUMBER: 68466
Inc.**

REV: Rev. 1

PROJECT: DEP 2521-10

<u>Lab Number</u>	<u>Sample Date</u>	<u>Station Location</u>	<u>Analysis</u>	<u>Comments</u>
68466-1	11/23/10	B-101 (0-2')	Volatile Petroleum Hydrocarbons	
68466-2	11/23/10	B101 (10-11')	Volatile Petroleum Hydrocarbons	
68466-3	11/23/10	B-102 (0-2')	Volatile Petroleum Hydrocarbons	
68466-4	11/23/10	SV-103 (5')	Volatile Petroleum Hydrocarbons	
68466-5	11/23/10	B-104 (0-2')	Volatile Petroleum Hydrocarbons	
68466-6	11/23/10	B-104 (8-10')	Volatile Petroleum Hydrocarbons	
68466-7	11/23/10	B-105 (8-8.5')	Volatile Petroleum Hydrocarbons	
68466-8	11/23/10	B-105 (0-2')	Volatile Petroleum Hydrocarbons	
68466-9	11/23/10	B-106 (0-2')	Volatile Petroleum Hydrocarbons	
68466-10	11/23/10	B-107 (0-2')	Volatile Petroleum Hydrocarbons	
68466-11	11/23/10	B-108 (0-2')	Volatile Petroleum Hydrocarbons	
68466-12	11/23/10	Trip Blank (s)	Volatile Petroleum Hydrocarbons	
68466-13	11/23/10	MW-101	Volatile Petroleum Hydrocarbons	
68466-14	11/23/10	MW-102	Volatile Petroleum Hydrocarbons	
68466-15	11/23/10	Trip Blank (aq)	Electronic Data Deliverable	
	11/23/10	Trip Blank (aq)	Volatile Petroleum Hydrocarbons	

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December 6, 2010

CLIENT SAMPLE ID
Project Name: DEP 2521-10
Project Number:
Client Sample ID: B-101 (0-2')

SAMPLE DATA

Lab Sample ID: 68466-1
Matrix: Solid
Percent Solid: 85
Dilution Factor: 66
Collection Date: 11/23/10
Lab Receipt Date: 11/29/10
Analysis Date: 12/02/10

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	3300	µg/kg	U
Unadjusted C9-C12 Aliphatics	N/A	3300	µg/kg	U
Benzene	C5-C8	132	µg/kg	U
Ethylbenzene	C9-C12	132	µg/kg	U
Methyl-tert-butyl ether	C5-C8	132	µg/kg	U
Naphthalene	N/A	132	µg/kg	199
Toluene	C5-C8	132	µg/kg	U
m- & p-Xylenes	C9-C12	264	µg/kg	U
o-Xylene	C9-C12	132	µg/kg	U
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	3300	µg/kg	U
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	3300	µg/kg	U
C9-C10 Aromatic Hydrocarbons	N/A	660	µg/kg	1180
Surrogate % Recovery (2,5-Dibromotoluene) PID				111
Surrogate % Recovery (2,5-Dibromotoluene) FID				109
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-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

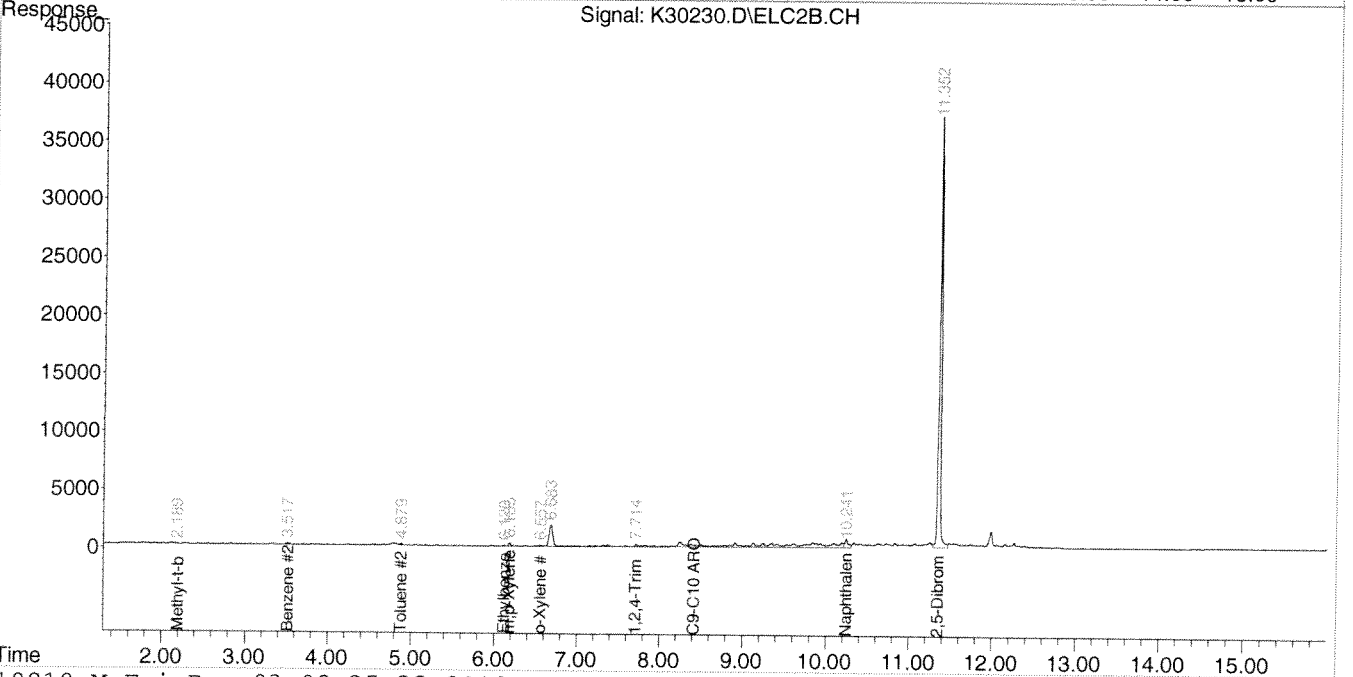
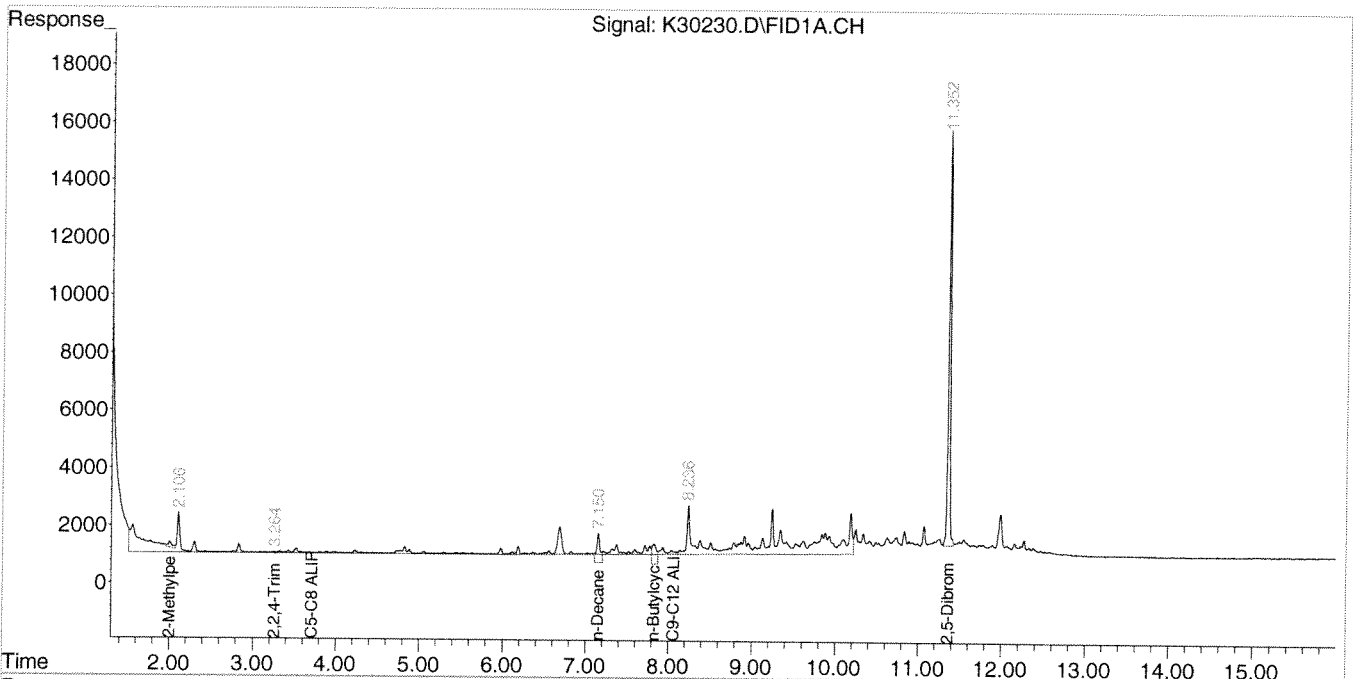
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: *M. M. M. M.*

Data Path : C:\msdchem\1\DATA\120210-K\
 Data File : K30230.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 02 Dec 2010 2:26 pm
 Operator : JJJ
 Sample : 68466-1
 Misc : 100,10.28,SOIL
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 03 09:34:46 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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December 6, 2010

CLIENT SAMPLE ID
Project Name: DEP 2521-10
Project Number:
Client Sample ID: B101 (10-11')

SAMPLE DATA

Lab Sample ID: 68466-2
Matrix: Solid
Percent Solid: 89
Dilution Factor: 2790
Collection Date: 11/23/10
Lab Receipt Date: 11/29/10
Analysis Date: 12/03/10

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	140000	µg/kg	516000
Unadjusted C9-C12 Aliphatics ¹	N/A	140000	µg/kg	453000
Benzene	C5-C8	5580	µg/kg	U
Ethylbenzene	C9-C12	5580	µg/kg	32900
Methyl-tert-butyl ether	C5-C8	5580	µg/kg	U
Naphthalene	N/A	5580	µg/kg	16700
Toluene	C5-C8	5580	µg/kg	U
m- & p-Xylenes	C9-C12	11200	µg/kg	65400
o-Xylene	C9-C12	5580	µg/kg	16300
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	140000	µg/kg	516000
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	140000	µg/kg	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	27900	µg/kg	562000
Surrogate % Recovery (2,5-Dibromotoluene) PID				*
Surrogate % Recovery (2,5-Dibromotoluene) FID				*
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-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

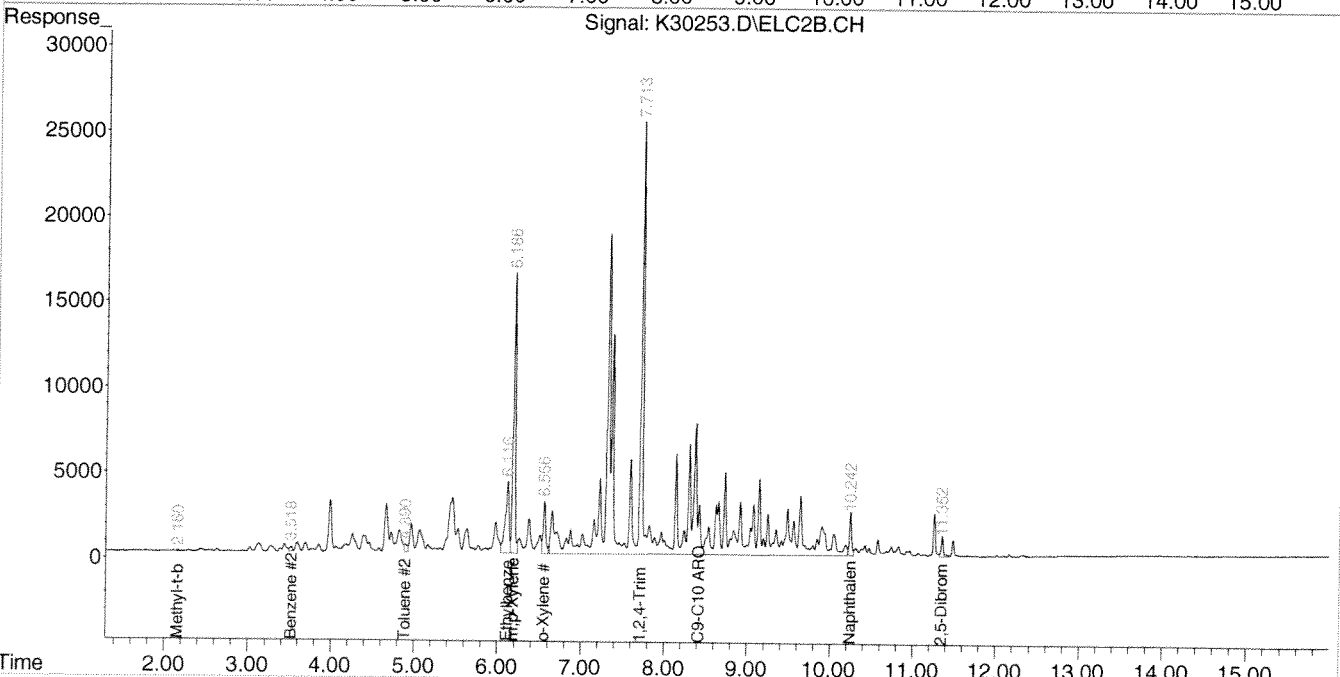
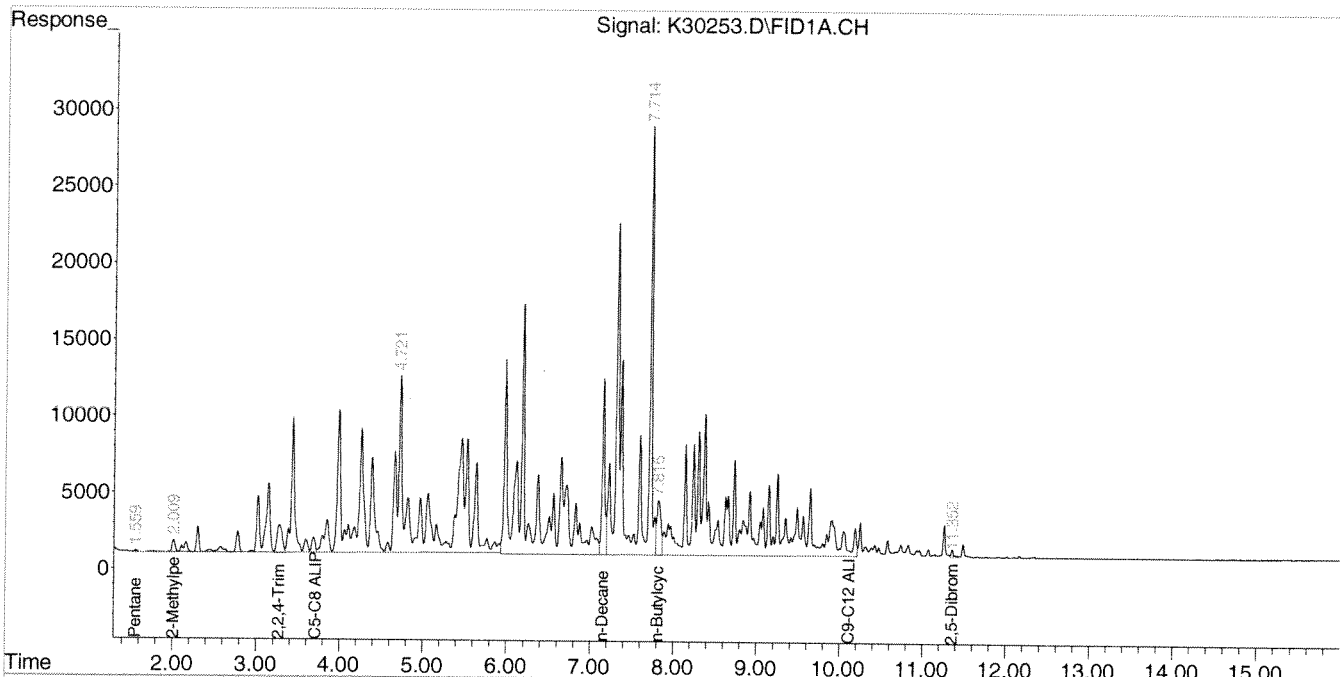
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a moisture corrected and dry weight basis.
* The surrogate was diluted out.

Authorized signature: Whitell

Data Path : C:\msdchem\1\DATA\120310-K\
 Data File : K30253.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 03 Dec 2010 2:21 pm
 Operator : JJL
 Sample : 68466-2,50X
 Misc : 2,11.37,SOIL
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 06 10:36:30 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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December 6, 2010

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: DEP 2521-10
Project Number:
Client Sample ID: B-102 (0-2')

Lab Sample ID: 68466-3
Matrix: Solid
Percent Solid: 84
Dilution Factor: 68
Collection Date: 11/23/10
Lab Receipt Date: 11/29/10
Analysis Date: 12/02/10

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	3400	µg/kg	U
Unadjusted C9-C12 Aliphatics ¹	N/A	3400	µg/kg	U
Benzene	C5-C8	136	µg/kg	U
Ethylbenzene	C9-C12	136	µg/kg	U
Methyl-tert-butyl ether	C5-C8	136	µg/kg	U
Naphthalene	N/A	136	µg/kg	U
Toluene	C5-C8	136	µg/kg	U
m- & p-Xylenes	C9-C12	272	µg/kg	223 J
o-Xylene	C9-C12	136	µg/kg	U
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	3400	µg/kg	U
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	3400	µg/kg	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	680	µg/kg	754
Surrogate % Recovery (2,5-Dibromotoluene) PID				115
Surrogate % Recovery (2,5-Dibromotoluene) FID				119
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-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

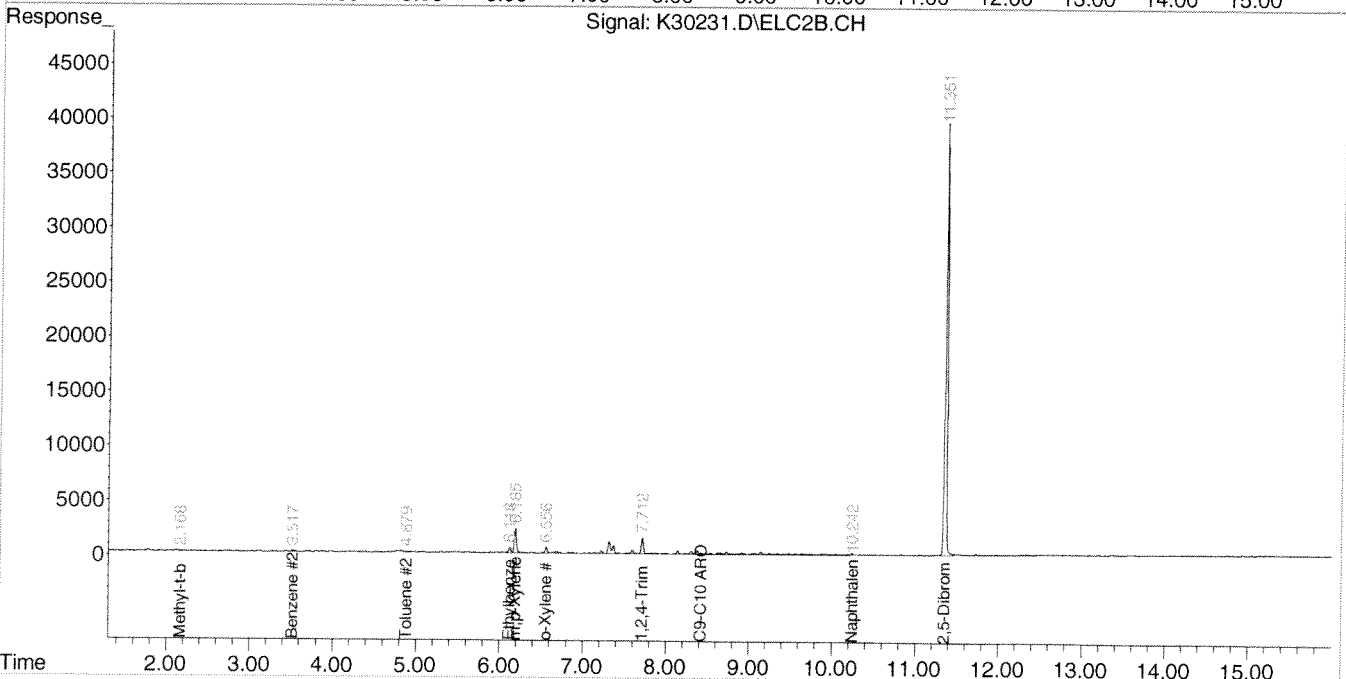
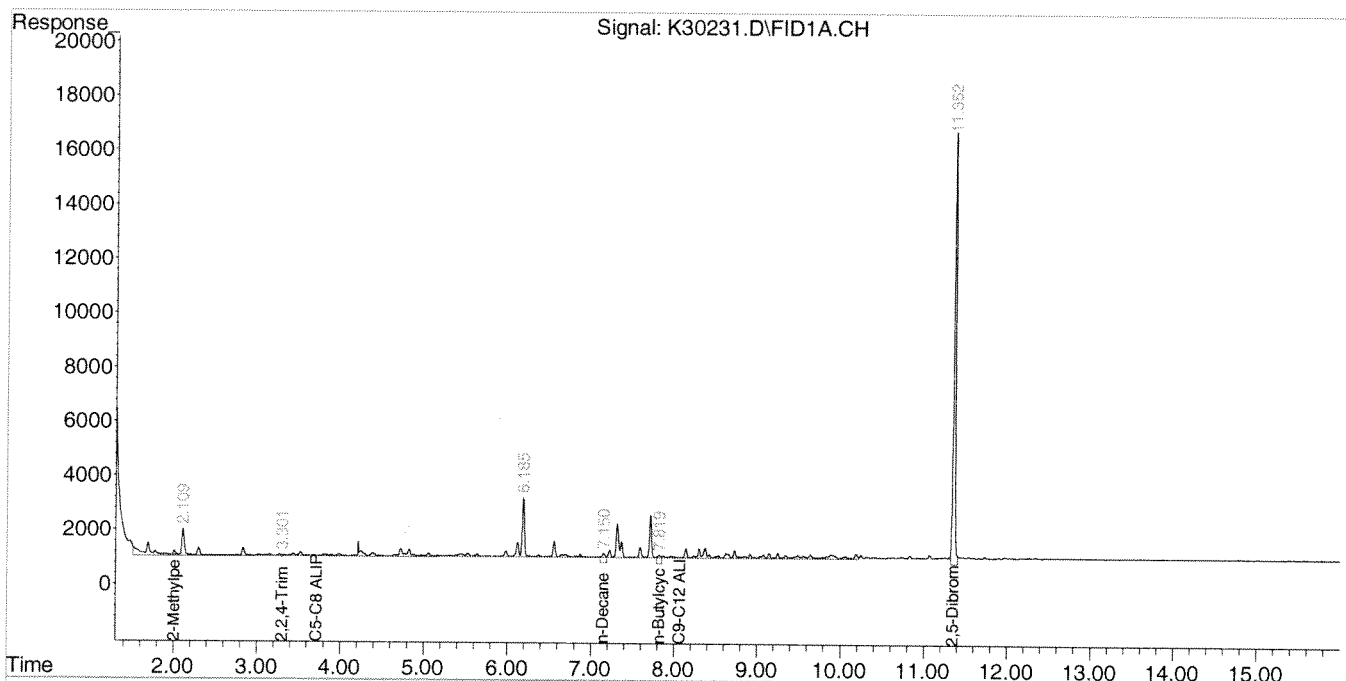
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: 

Data Path : C:\msdchem\1\DATA\120210-K\
Data File : K30231.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Dec 2010 2:51 pm
Operator : JJL
Sample : 68466-3
Misc : 100,12.05,SOIL,,12 ML FV,,JJL
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 03 09:36:19 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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December 6, 2010

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: DEP 2521-10
Project Number:
Client Sample ID: SV-103 (5')

Lab Sample ID: 68466-4
Matrix: Solid
Percent Solid: 83
Dilution Factor: 365
Collection Date: 11/23/10
Lab Receipt Date: 11/29/10
Analysis Date: 12/03/10

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	18300	µg/kg	84100
Unadjusted C9-C12 Aliphatics ¹	N/A	18300	µg/kg	76300
Benzene	C5-C8	730	µg/kg	659 J
Ethylbenzene	C9-C12	730	µg/kg	7390
Methyl-tert-butyl ether	C5-C8	730	µg/kg	U
Naphthalene	N/A	730	µg/kg	2220
Toluene	C5-C8	730	µg/kg	2350
m- & p-Xylenes	C9-C12	1460	µg/kg	15200
o-Xylene	C9-C12	730	µg/kg	5960
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	18300	µg/kg	81100
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	18300	µg/kg	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	3650	µg/kg	79900
Surrogate % Recovery (2,5-Dibromotoluene) PID				127
Surrogate % Recovery (2,5-Dibromotoluene) FID				125
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

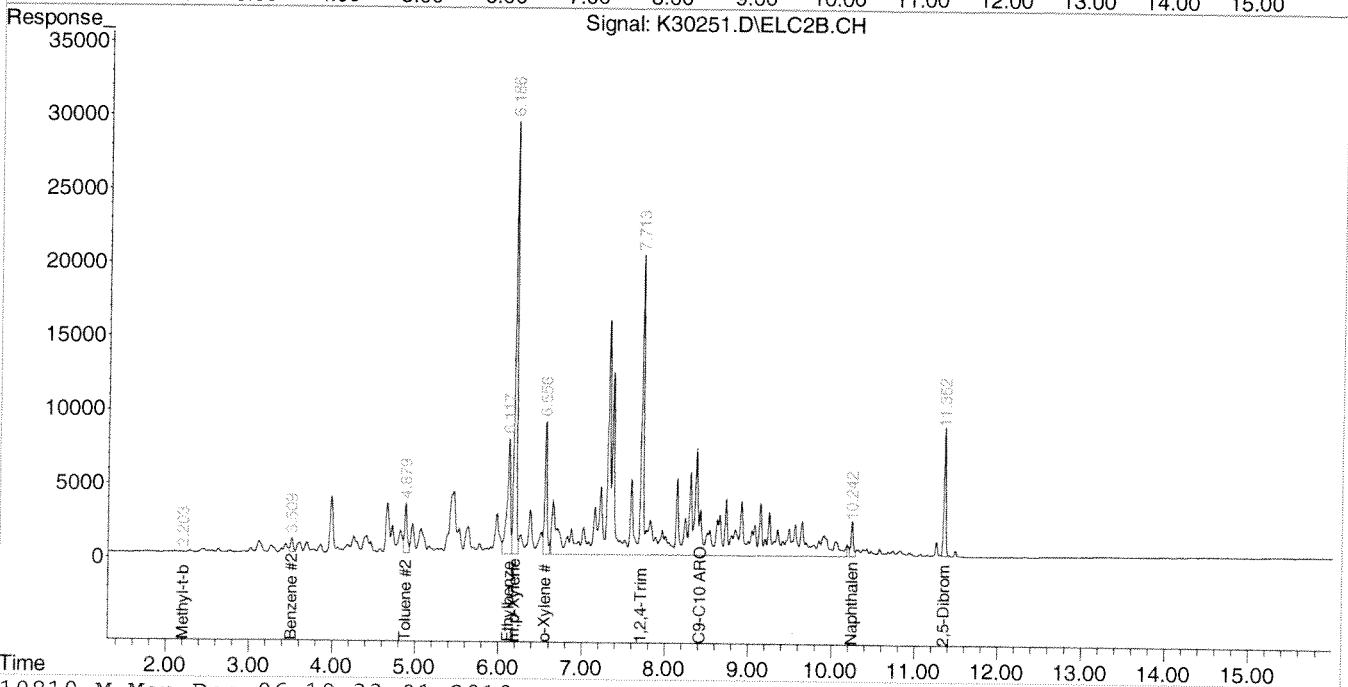
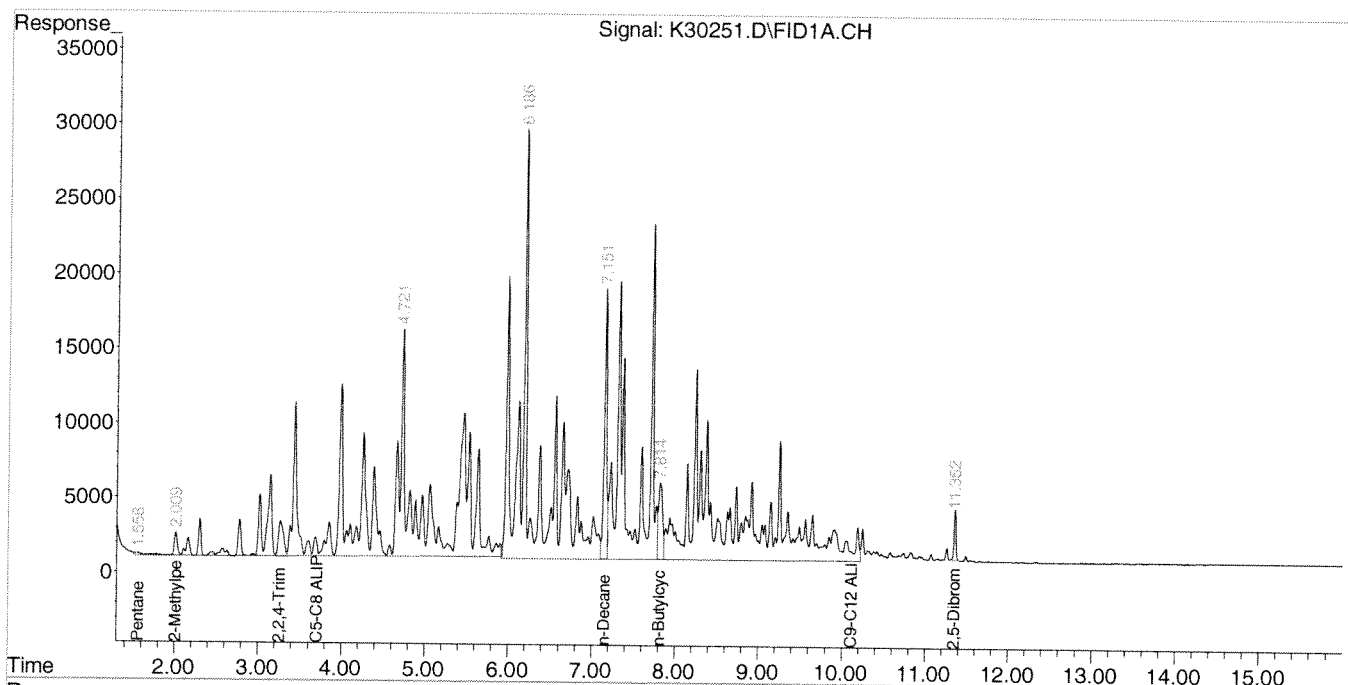
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
 Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: 

Data Path : C:\msdchem\1\DATA\120310-K\
 Data File : K30251.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 03 Dec 2010 1:32 pm
 Operator : JJL
 Sample : 68466-4,5X
 Misc : 20,9.65,SOIL
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 06 10:32:29 2010
 Quant Method : C:\msdchem\1\METHODS\VP110810.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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December 6, 2010

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: DEP 2521-10
Project Number:
Client Sample ID: B-104 (0-2')

Lab Sample ID: 68466-5
Matrix: Solid
Percent Solid: 86
Dilution Factor: 64
Collection Date: 11/23/10
Lab Receipt Date: 11/29/10
Analysis Date: 12/03/10

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	3200	µg/kg	U
Unadjusted C9-C12 Aliphatics	N/A	3200	µg/kg	U
Benzene	C5-C8	128	µg/kg	U
Ethylbenzene	C9-C12	128	µg/kg	69 J
Methyl-tert-butyl ether	C5-C8	128	µg/kg	U
Naphthalene	N/A	128	µg/kg	U
Toluene	C5-C8	128	µg/kg	U
m- & p-Xylenes	C9-C12	256	µg/kg	U
o-Xylene	C9-C12	128	µg/kg	U
C5-C8 Aliphatic Hydrocarbons ^{1,2}	N/A	3200	µg/kg	U
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	3200	µg/kg	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	640	µg/kg	U
Surrogate % Recovery (2,5-Dibromotoluene) PID				100
Surrogate % Recovery (2,5-Dibromotoluene) FID				99
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-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

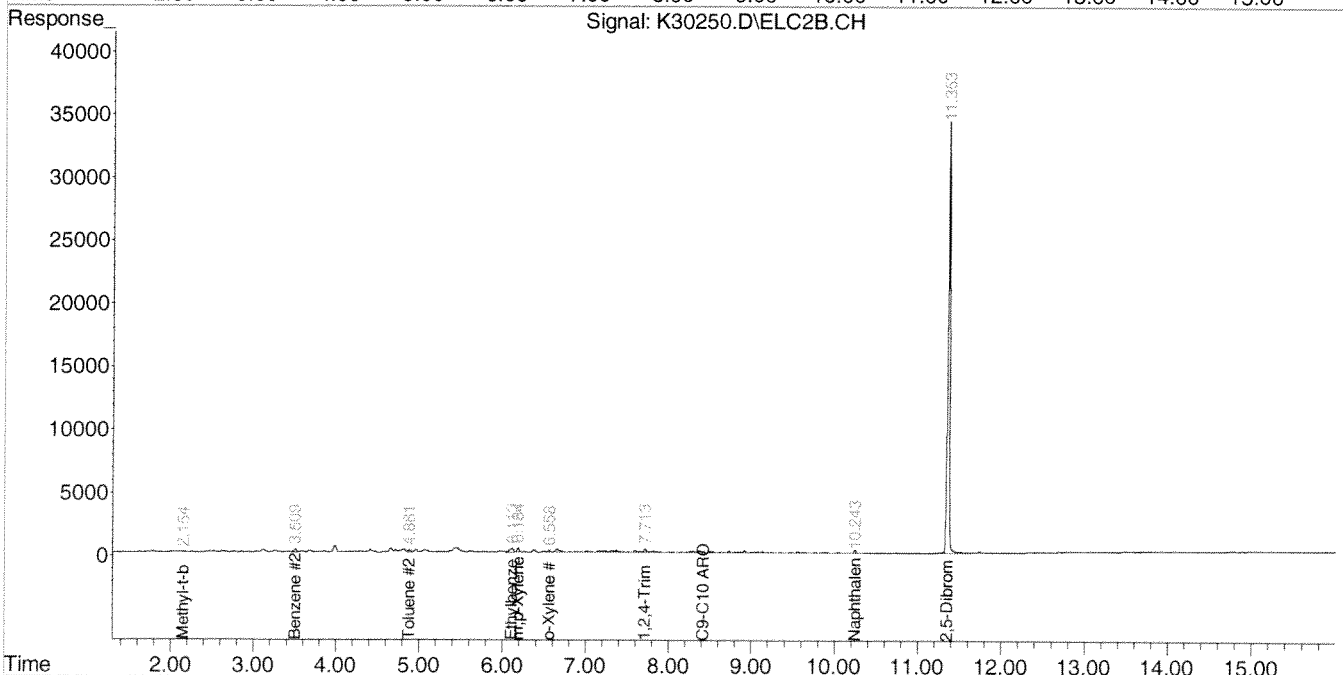
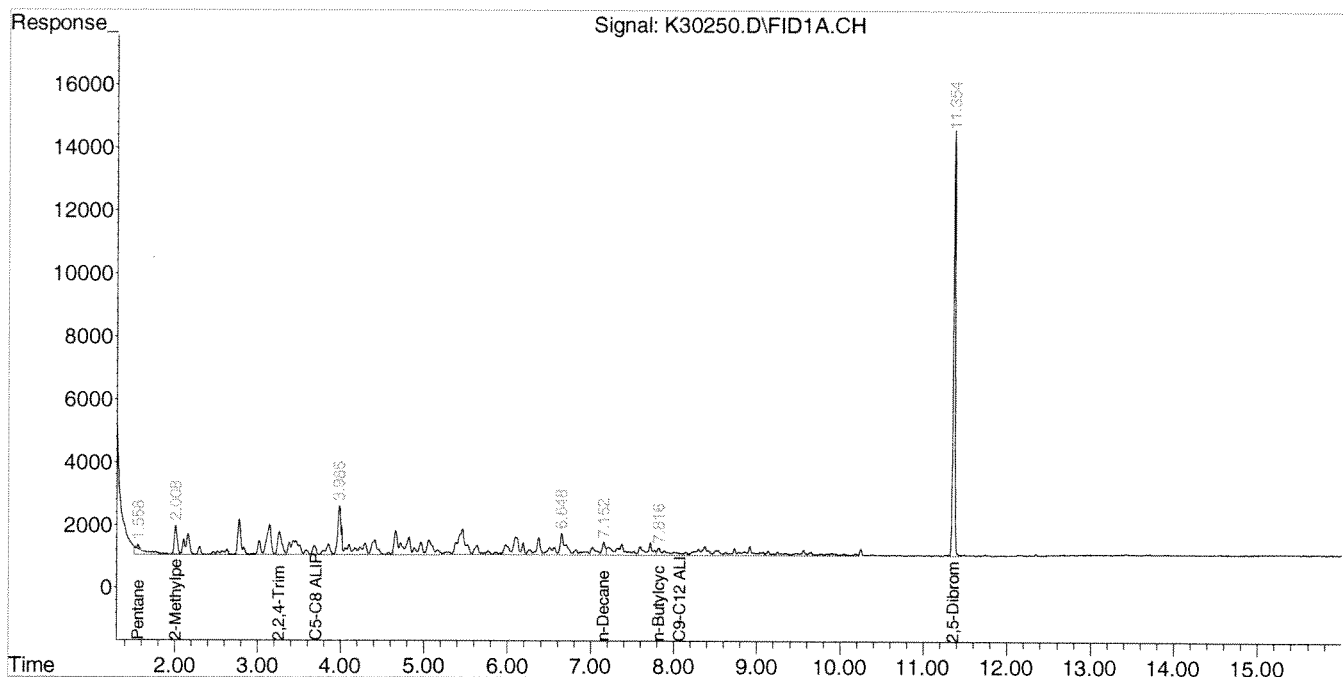
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: 

Data Path : C:\msdchem\1\DATA\120310-K\
 Data File : K30250.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 03 Dec 2010 1:08 pm
 Operator : JJL
 Sample : 68466-5
 Misc : 100,10.42,SOIL
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 06 15:34:18 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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December 6, 2010

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: DEP 2521-10
Project Number:
Client Sample ID: B-104 (8-10')

Lab Sample ID: 68466-6
Matrix: Solid
Percent Solid: 89
Dilution Factor: 2842
Collection Date: 11/23/10
Lab Receipt Date: 11/29/10
Analysis Date: 12/03/10

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	142000	µg/kg	1070000
Unadjusted C9-C12 Aliphatics ¹	N/A	142000	µg/kg	666000
Benzene	C5-C8	5684	µg/kg	5330 J
Ethylbenzene	C9-C12	5684	µg/kg	71900
Methyl-tert-butyl ether	C5-C8	5684	µg/kg	U
Naphthalene	N/A	5684	µg/kg	31500
Toluene	C5-C8	5684	µg/kg	17400
m- & p-Xylenes	C9-C12	11400	µg/kg	182000
o-Xylene	C9-C12	5684	µg/kg	59100
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	142000	µg/kg	1040000
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	142000	µg/kg	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	28400	µg/kg	827000
Surrogate % Recovery (2,5-Dibromotoluene) PID				*
Surrogate % Recovery (2,5-Dibromotoluene) FID				*
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-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

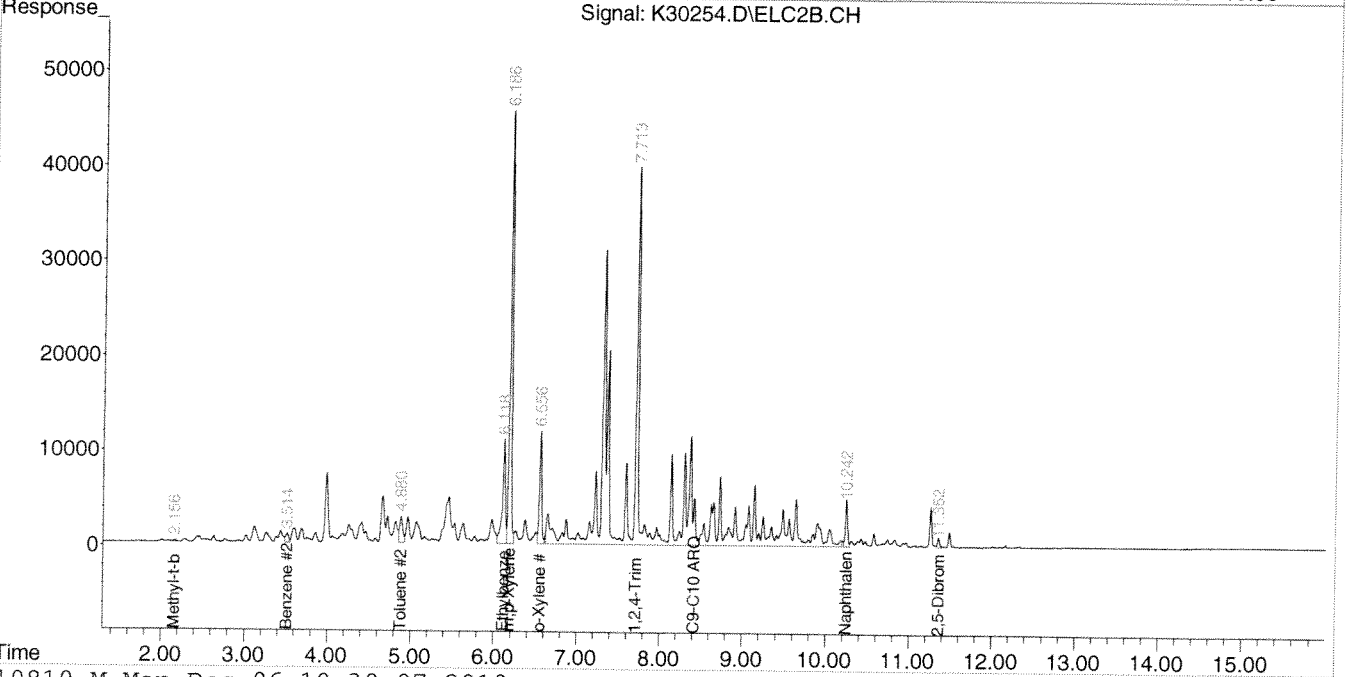
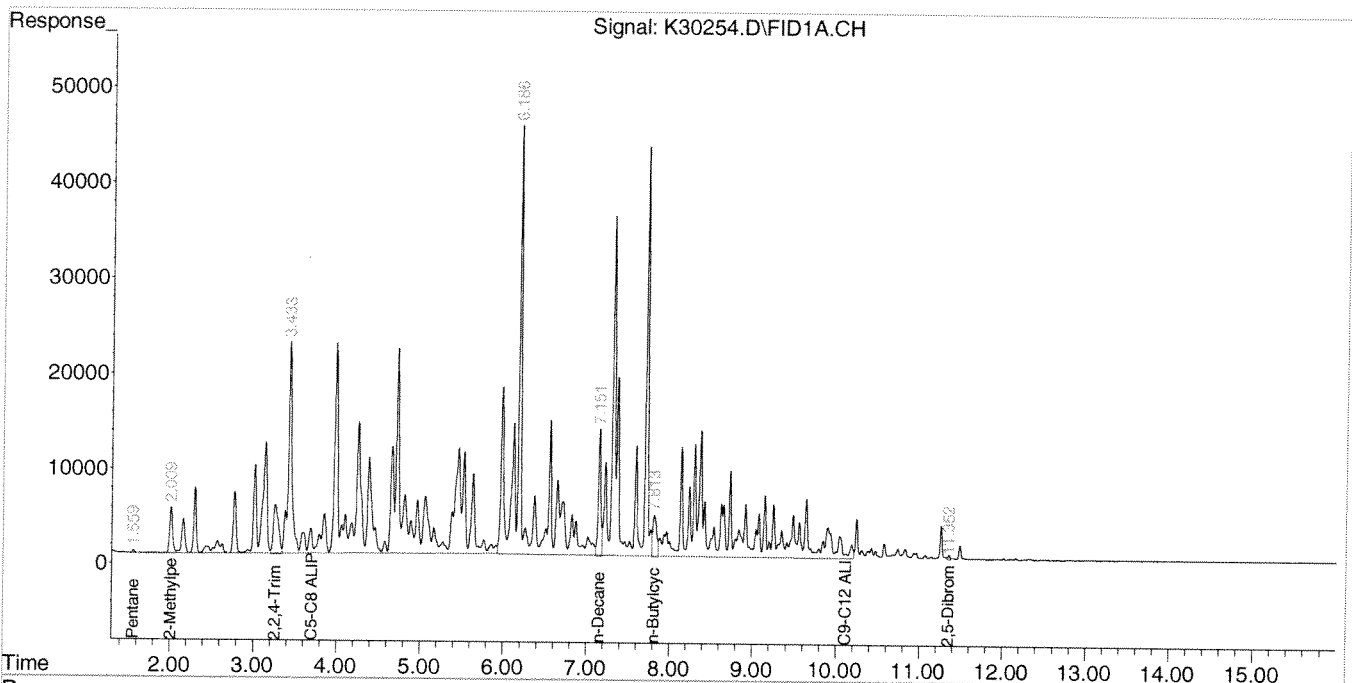
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
 Results are expressed on a moisture corrected and dry weight basis.
 * The surrogate was diluted out.

Authorized signature: *M. J. Hull*

Data Path : C:\msdchem\1\DATA\120310-K\
 Data File : K30254.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 03 Dec 2010 2:46 pm
 Operator : JJL
 Sample : 68466-6,50X
 Misc : 2,11.02,SOIL
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 06 10:38:17 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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December 6, 2010

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: DEP 2521-10
Project Number:
Client Sample ID: B-105 (8-8.5')

Lab Sample ID: 68466-7
Matrix: Solid
Percent Solid: 92
Dilution Factor: 1165
Collection Date: 11/23/10
Lab Receipt Date: 11/29/10
Analysis Date: 12/03/10

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	58300	µg/kg	385000
Unadjusted C9-C12 Aliphatics ¹	N/A	58300	µg/kg	236000
Benzene	C5-C8	2330	µg/kg	1660 J
Ethylbenzene	C9-C12	2330	µg/kg	24300
Methyl-tert-butyl ether	C5-C8	2330	µg/kg	U
Naphthalene	N/A	2330	µg/kg	10200
Toluene	C5-C8	2330	µg/kg	2760
m- & p-Xylenes	C9-C12	4660	µg/kg	61000
o-Xylene	C9-C12	2330	µg/kg	19200
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	58300	µg/kg	380000
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	58300	µg/kg	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	11700	µg/kg	270000
Surrogate % Recovery (2,5-Dibromotoluene) PID				*
Surrogate % Recovery (2,5-Dibromotoluene) FID				*
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-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

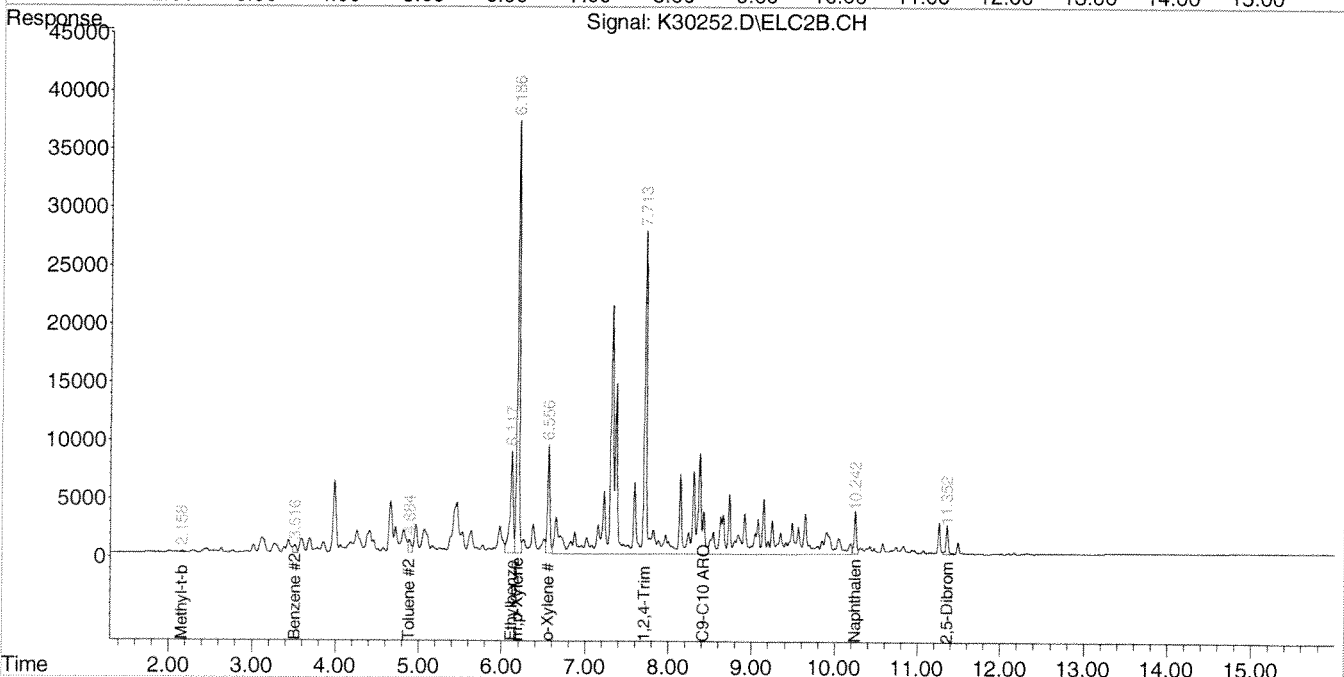
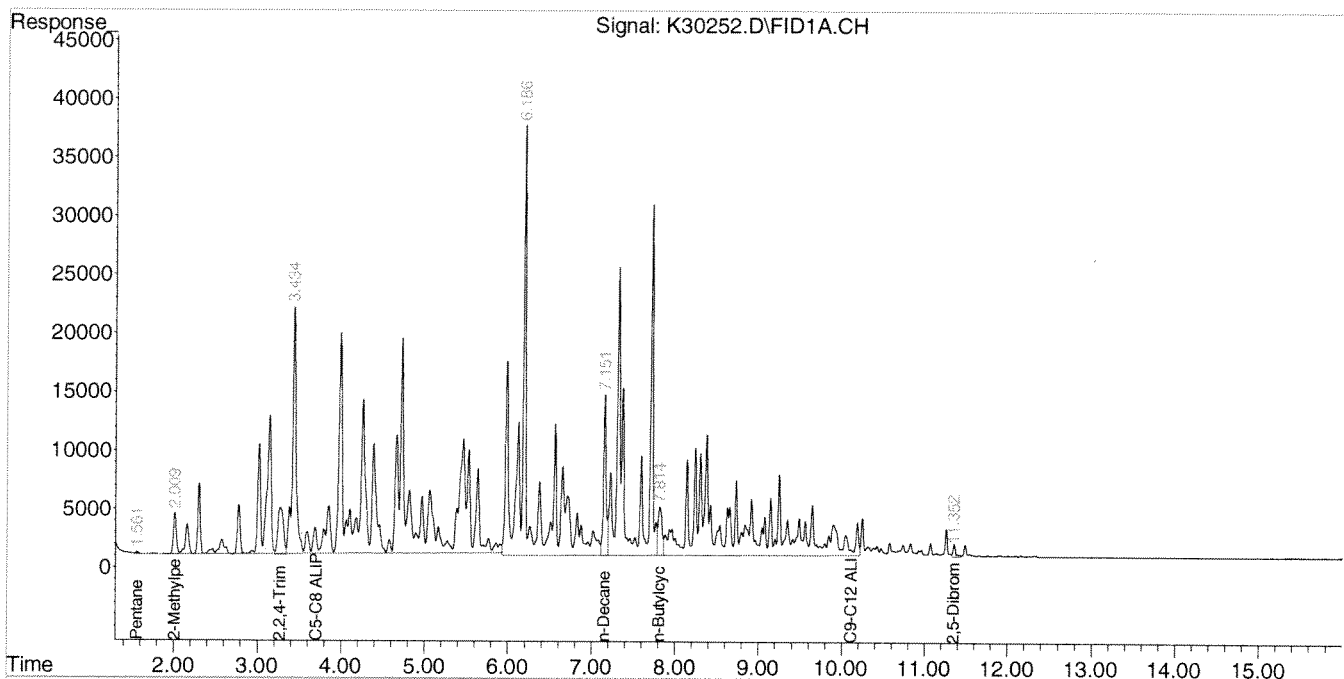
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
 Results are expressed on a moisture corrected and dry weight basis.
 * The surrogate was diluted out.

Authorized signature: *Herb Kodis*

Data Path : C:\msdchem\1\DATA\120310-K\
 Data File : K30252.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 03 Dec 2010 1:57 pm
 Operator : JJL
 Sample : 68466-7,20X
 Misc : 5,10.18,SOIL
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 06 10:34:24 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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December 6, 2010

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: DEP 2521-10
Project Number:
Client Sample ID: B-105 (0-2')

Lab Sample ID: 68466-8
Matrix: Solid
Percent Solid: 92
Dilution Factor: 51
Collection Date: 11/23/10
Lab Receipt Date: 11/29/10
Analysis Date: 12/02/10

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	2550	µg/kg	U
Unadjusted C9-C12 Aliphatics ¹	N/A	2550	µg/kg	U
Benzene	C5-C8	102	µg/kg	U
Ethylbenzene	C9-C12	102	µg/kg	U
Methyl-tert-butyl ether	C5-C8	102	µg/kg	U
Naphthalene	N/A	102	µg/kg	U
Toluene	C5-C8	102	µg/kg	U
m- & p-Xylenes	C9-C12	204	µg/kg	U
o-Xylene	C9-C12	102	µg/kg	U
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	2550	µg/kg	U
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	2550	µg/kg	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	510	µg/kg	U
Surrogate % Recovery (2,5-Dibromotoluene) PID				102
Surrogate % Recovery (2,5-Dibromotoluene) FID				125
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

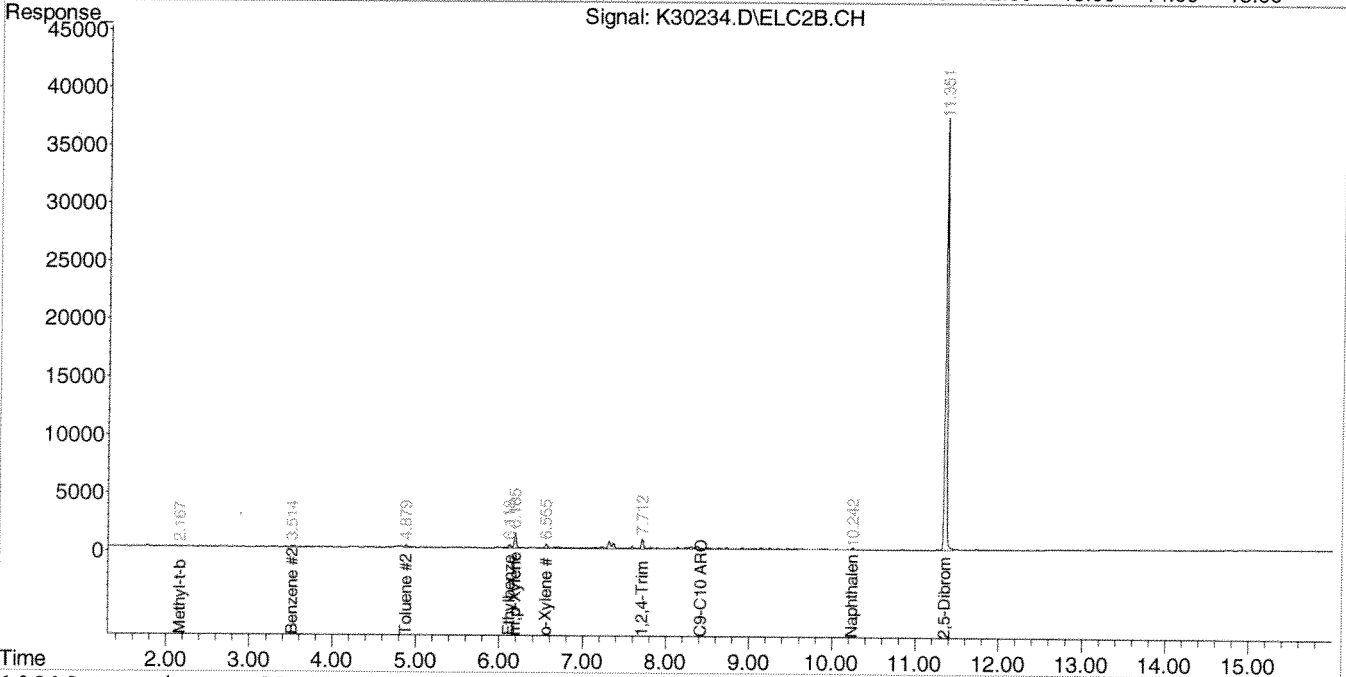
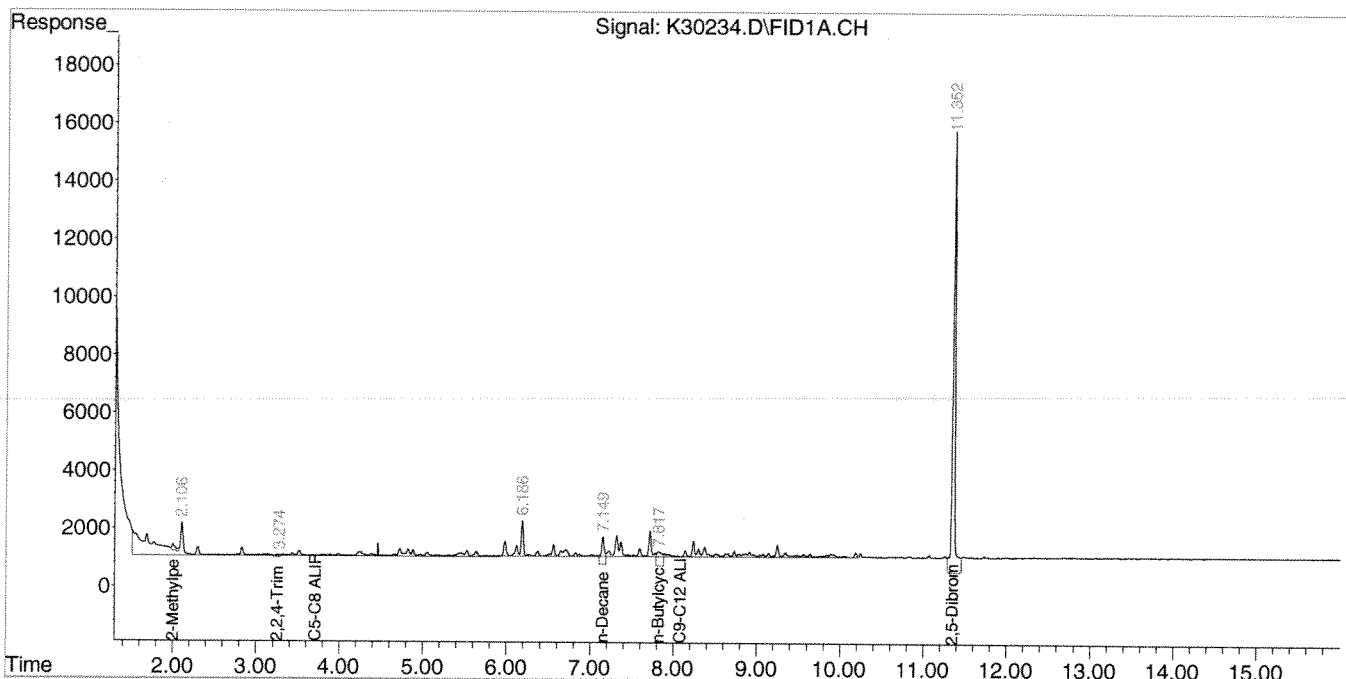
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist. Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: *M. J. Bull*

Data Path : C:\msdchem\1\DATA\120210-K\
Data File : K30234.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Dec 2010 4:04 pm
Operator : JJJL
Sample : 68466-8
Misc : 100,11.61,SOIL
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 03 09:39:37 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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December 6, 2010

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: DEP 2521-10
Project Number:
Client Sample ID: B-106 (0-2')

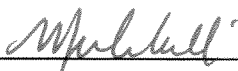
Lab Sample ID: 68466-9
Matrix: Solid
Percent Solid: 90
Dilution Factor: 65
Collection Date: 11/23/10
Lab Receipt Date: 11/29/10
Analysis Date: 12/02/10

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	3250	µg/kg	U
Unadjusted C9-C12 Aliphatics ¹	N/A	3250	µg/kg	3540
Benzene	C5-C8	130	µg/kg	U
Ethylbenzene	C9-C12	130	µg/kg	U
Methyl-tert-butyl ether	C5-C8	130	µg/kg	U
Naphthalene	N/A	130	µg/kg	200
Toluene	C5-C8	130	µg/kg	U
m- & p-Xylenes	C9-C12	260	µg/kg	132 J
o-Xylene	C9-C12	130	µg/kg	U
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	3250	µg/kg	U
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	3250	µg/kg	U
C9-C10 Aromatic Hydrocarbons ³	N/A	650	µg/kg	3210
Surrogate % Recovery (2,5-Dibromotoluene) PID				97
Surrogate % Recovery (2,5-Dibromotoluene) FID				106
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-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

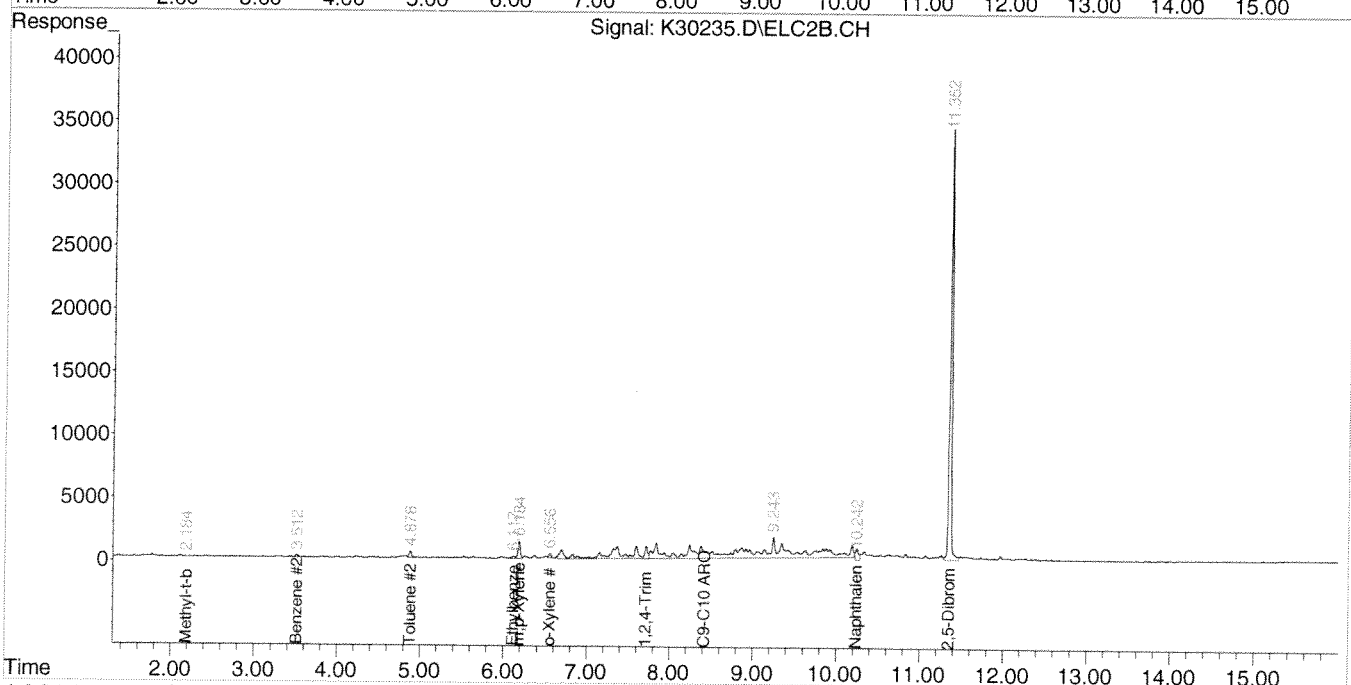
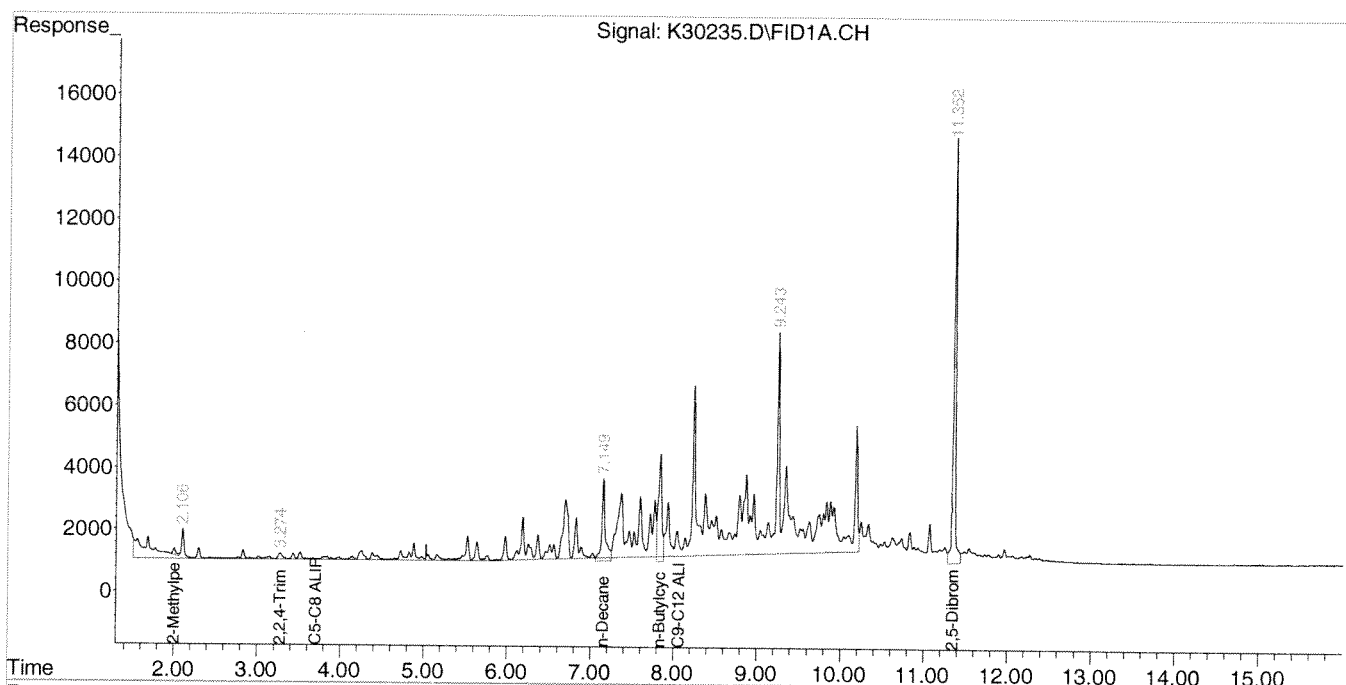
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: 

Data Path : C:\msdchem\1\DATA\120210-K\
 Data File : K30235.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 02 Dec 2010 4:37 pm
 Operator : JJL
 Sample : 68466-9
 Misc : 100,9.40,SOIL
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 03 09:41:54 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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December 6, 2010

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: DEP 2521-10
Project Number:
Client Sample ID: B-107 (0-2')

Lab Sample ID: 68466-10
Matrix: Solid
Percent Solid: 91
Dilution Factor: 60
Collection Date: 11/23/10
Lab Receipt Date: 11/29/10
Analysis Date: 12/02/10

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	3000	µg/kg	U
Unadjusted C9-C12 Aliphatics ¹	N/A	3000	µg/kg	U
Benzene	C5-C8	120	µg/kg	U
Ethylbenzene	C9-C12	120	µg/kg	U
Methyl-tert-butyl ether	C5-C8	120	µg/kg	U
Naphthalene	N/A	120	µg/kg	U
Toluene	C5-C8	120	µg/kg	U
m- & p-Xylenes	C9-C12	240	µg/kg	U
o-Xylene	C9-C12	120	µg/kg	U
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	3000	µg/kg	U
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	3000	µg/kg	U
C9-C10 Aromatic Hydrocarbons	N/A	600	µg/kg	U
Surrogate % Recovery (2,5-Dibromotoluene) PID				110
Surrogate % Recovery (2,5-Dibromotoluene) FID				114
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-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

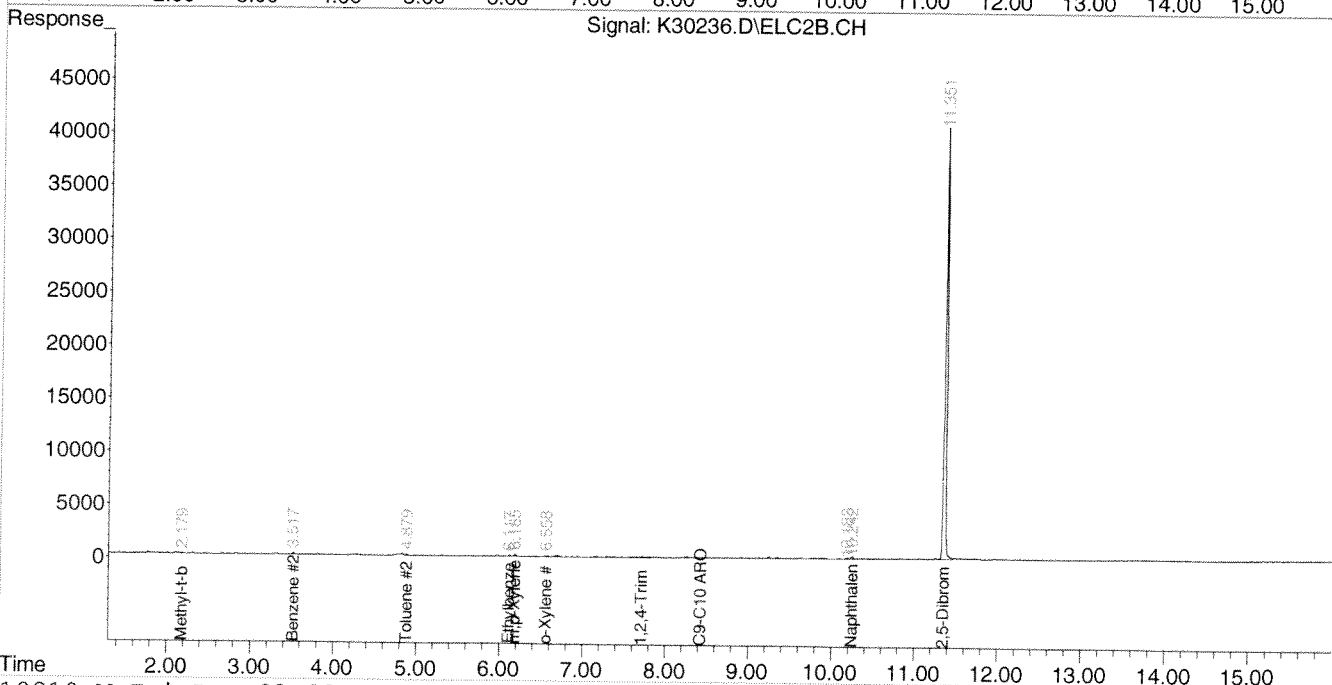
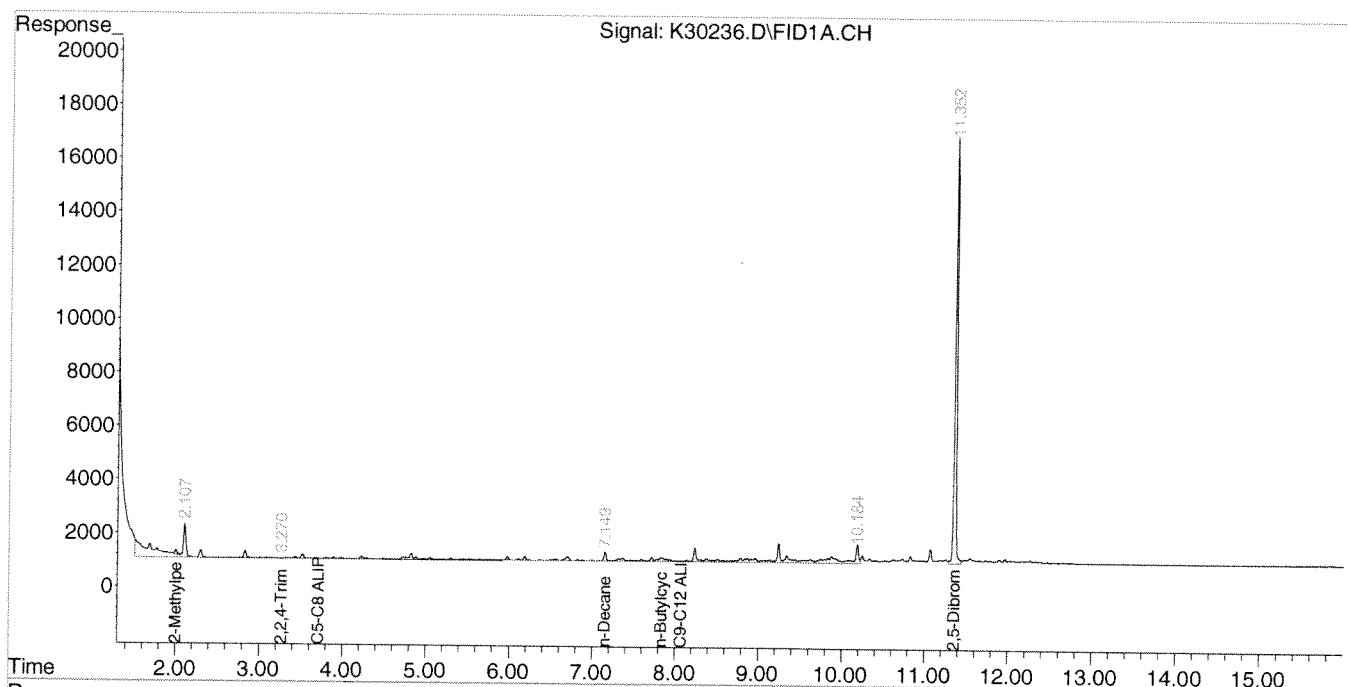
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
 Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: *M. J. Sullivan*

Data Path : C:\msdchem\1\DATA\120210-K\
 Data File : K30236.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 02 Dec 2010 5:01 pm
 Operator : JJL
 Sample : 68466-10
 Misc : 100,9.96,SOIL
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 03 09:56:06 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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December 6, 2010

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: DEP 2521-10
Project Number:
Client Sample ID: B-108 (0-2')

Lab Sample ID: 68466-11
Matrix: Solid
Percent Solid: 84
Dilution Factor: 3405
Collection Date: 11/23/10
Lab Receipt Date: 11/29/10
Analysis Date: 12/03/10

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	170000	µg/kg	224000
Unadjusted C9-C12 Aliphatics ¹	N/A	170000	µg/kg	965000
Benzene	C5-C8	6810	µg/kg	U
Ethylbenzene	C9-C12	6810	µg/kg	28700
Methyl-tert-butyl ether	C5-C8	6810	µg/kg	U
Naphthalene	N/A	6810	µg/kg	32500
Toluene	C5-C8	6810	µg/kg	U
m- & p-Xylenes	C9-C12	13600	µg/kg	99800
o-Xylene	C9-C12	6810	µg/kg	60700
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	170000	µg/kg	224000
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	170000	µg/kg	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	34100	µg/kg	1340000
Surrogate % Recovery (2,5-Dibromotoluene) PID				*
Surrogate % Recovery (2,5-Dibromotoluene) FID				*
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

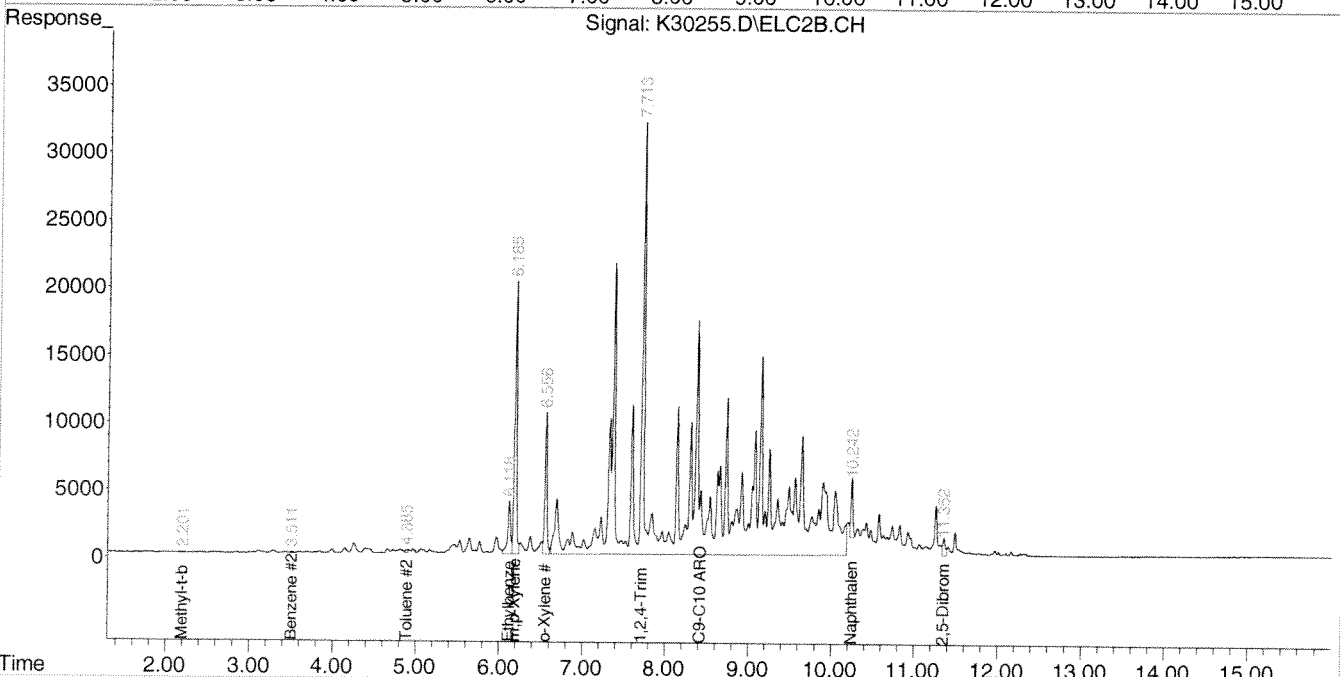
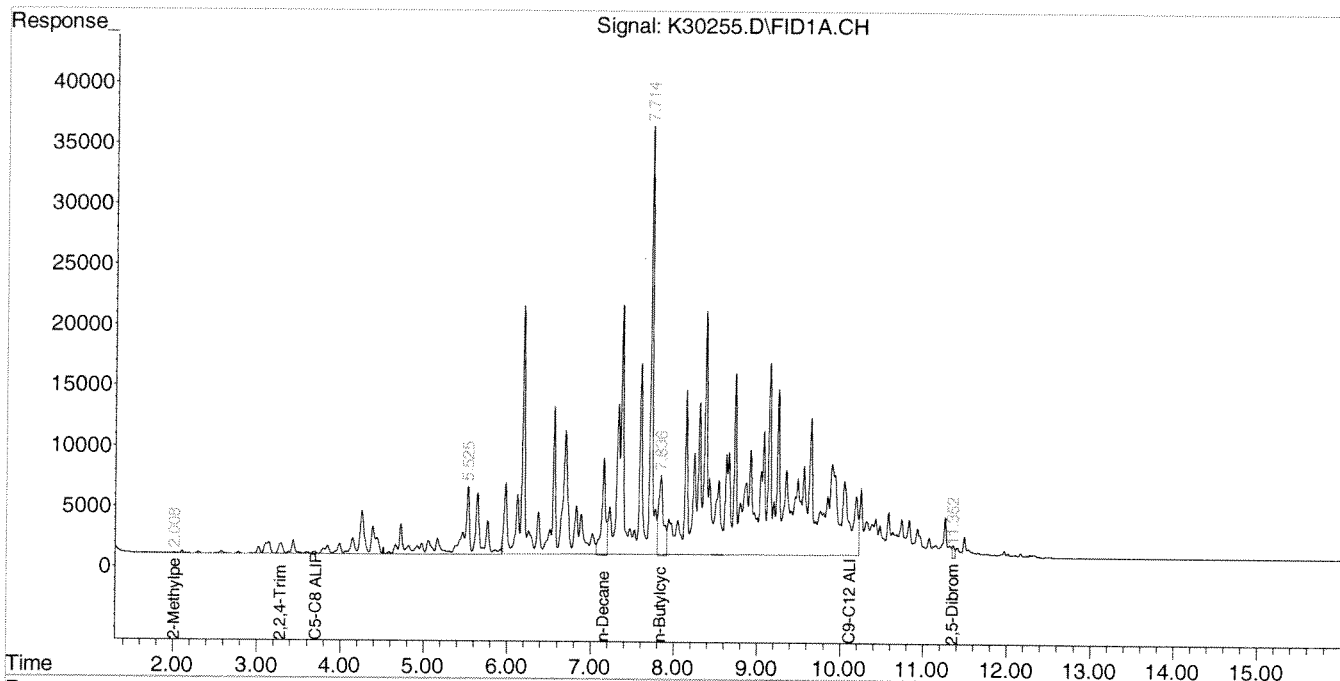
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a moisture corrected and dry weight basis.
* The surrogate was diluted out.

Authorized signature: *M. Whittell*

Data Path : C:\msdchem\1\DATA\120310-K\
 Data File : K30255.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 03 Dec 2010 3:11 pm
 Operator : JJL
 Sample : 68466-11,50X
 Misc : 2,10.07,SOIL
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 06 10:52:40 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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December 6, 2010

SAMPLE DATA

Lab Sample ID: 68466-12
Matrix: Solid
Percent Solid: 100
Dilution Factor: 50
Collection Date: 11/23/10
Lab Receipt Date: 11/29/10
Analysis Date: 12/02/10

CLIENT SAMPLE ID

Project Name: DEP 2521-10
Project Number:
Client Sample ID: Trip Blank (s)

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				120
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

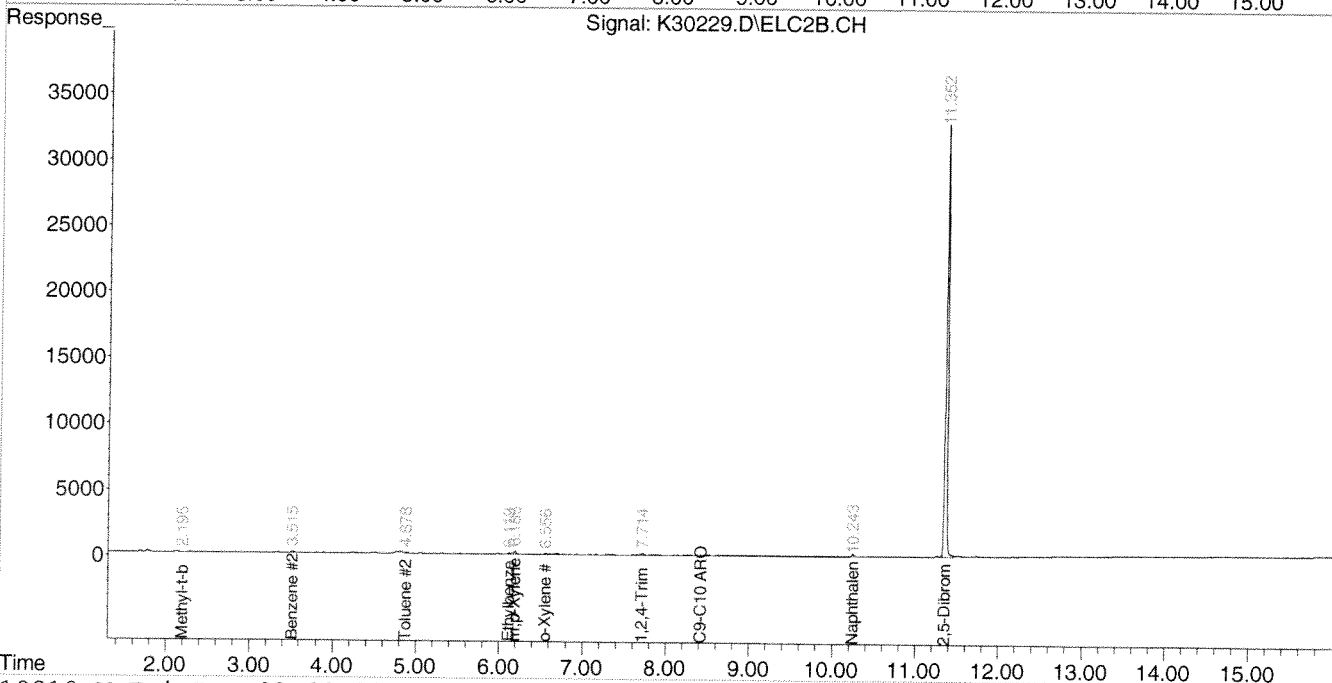
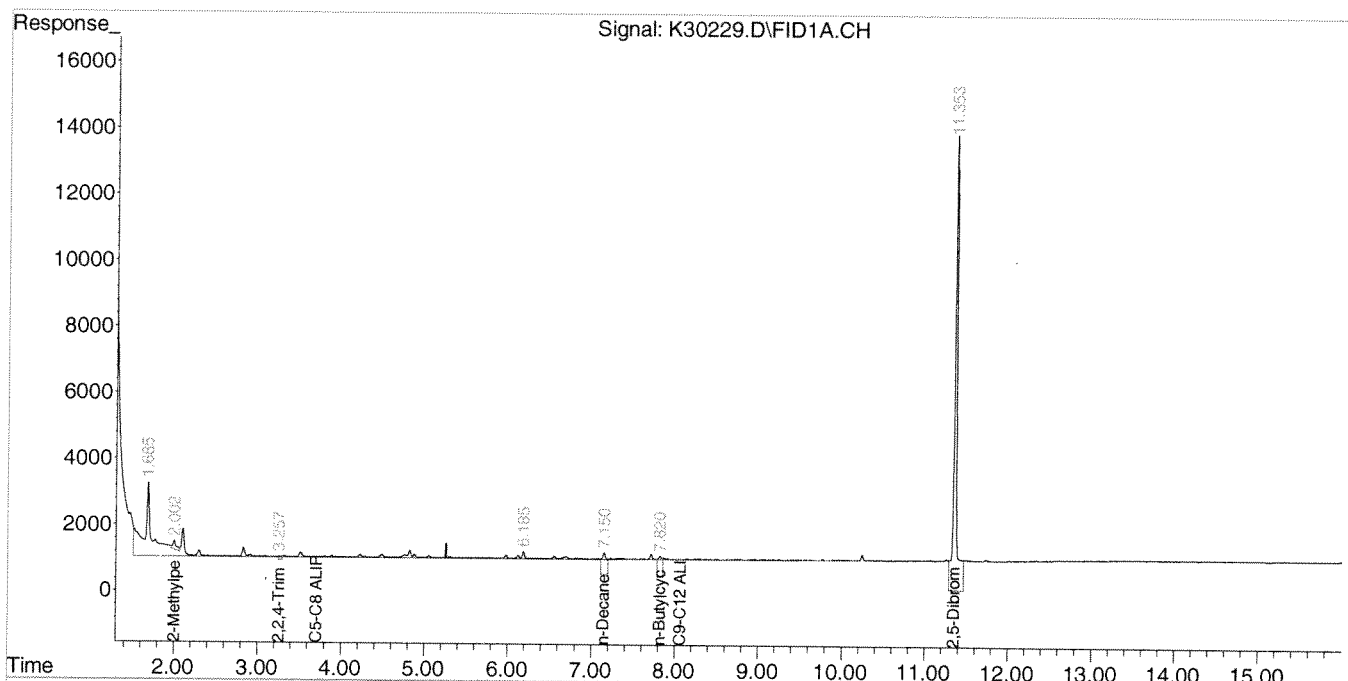
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a moisture corrected and dry weight basis.

Authorized signature: 

Data Path : C:\msdchem\1\DATA\120210-K\
 Data File : K30229.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 02 Dec 2010 2:02 pm
 Operator : JJJ
 Sample : 68466-12
 Misc : 100,10.00,SOIL
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 03 09:33:38 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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December 6, 2010

SAMPLE DATA

Lab Sample ID: 68466-13
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 20
Collection Date: 11/23/10
Lab Receipt Date: 11/29/10
Analysis Date: 12/01/10

CLIENT SAMPLE ID

Project Name: DEP 2521-10
Project Number:
Client Sample ID: MW-101

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	1000	µg/L	3700
Unadjusted C9-C12 Aliphatics ¹	N/A	1000	µg/L	5700
Benzene	C5-C8	40	µg/L	45
Ethylbenzene	C9-C12	40	µg/L	1010
Methyl-tert-butyl ether	C5-C8	40	µg/L	U
Naphthalene	N/A	40	µg/L	579
Toluene	C5-C8	40	µg/L	90
m- & p-Xylenes	C9-C12	80	µg/L	4090
o-Xylene	C9-C12	40	µg/L	855
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	1000	µg/L	3560
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	1000	µg/L	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	200	µg/L	7000
Surrogate % Recovery (2,5-Dibromotoluene) PID				101
Surrogate % Recovery (2,5-Dibromotoluene) FID				101
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-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.

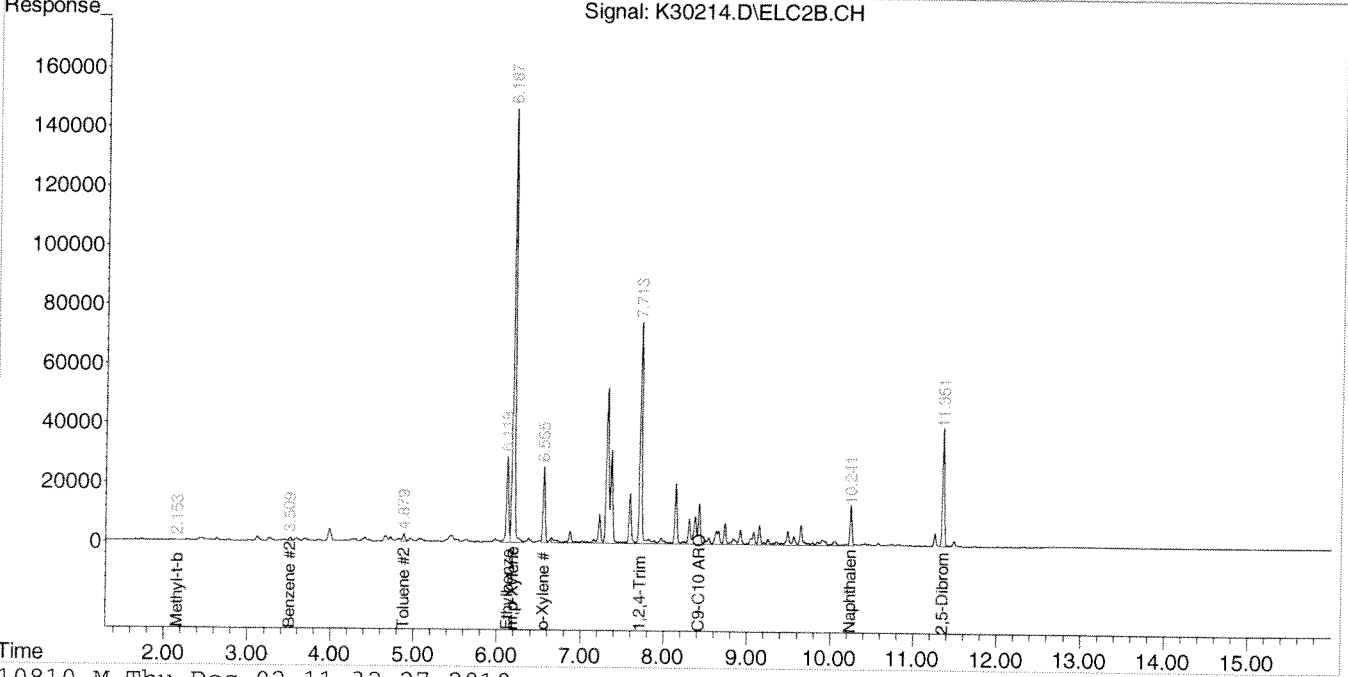
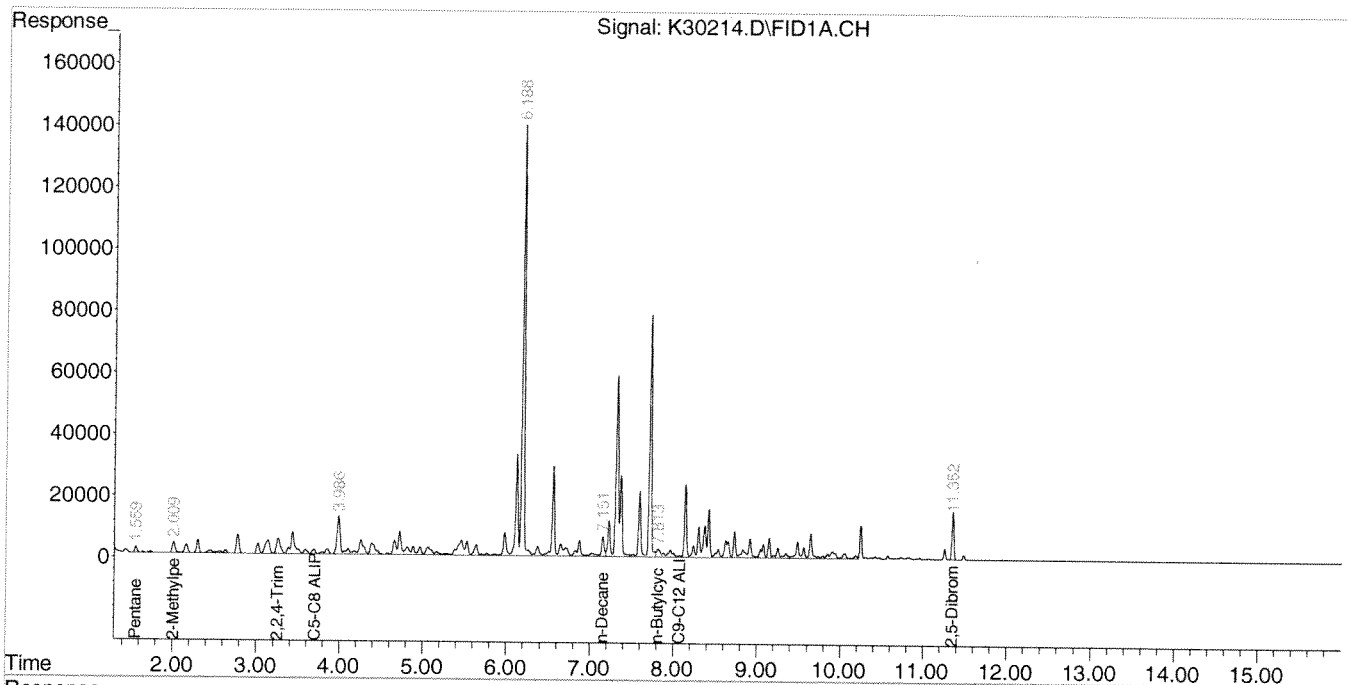
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

Authorized signature: *M. P. Sullivan*

Data Path : C:\msdchem\1\DATA\120110-K\
 Data File : K30214.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 01 Dec 2010 1:38 pm
 Operator : JJL
 Sample : 68466-13,20X
 Misc : 250
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 01 13:58:26 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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December 6, 2010

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: DEP 2521-10
Project Number:
Client Sample ID: MW-102

Lab Sample ID: 68466-14
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 2
Collection Date: 11/23/10
Lab Receipt Date: 11/29/10
Analysis Date: 12/01/10

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	100	µg/L	269
Unadjusted C9-C12 Aliphatics ¹	N/A	100	µg/L	335
Benzene	C5-C8	4	µg/L	2 J
Ethylbenzene	C9-C12	4	µg/L	44
Methyl-tert-butyl ether	C5-C8	4	µg/L	2 J
Naphthalene	N/A	4	µg/L	U
Toluene	C5-C8	4	µg/L	4
m- & p-Xylenes	C9-C12	8	µg/L	U
o-Xylene	C9-C12	4	µg/L	5
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	100	µg/L	261
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	100	µg/L	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	20	µg/L	545
Surrogate % Recovery (2,5-Dibromotoluene) PID				106
Surrogate % Recovery (2,5-Dibromotoluene) FID				124
Surrogate Acceptance Range				70-130%

¹Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
²C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range
³C9-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.

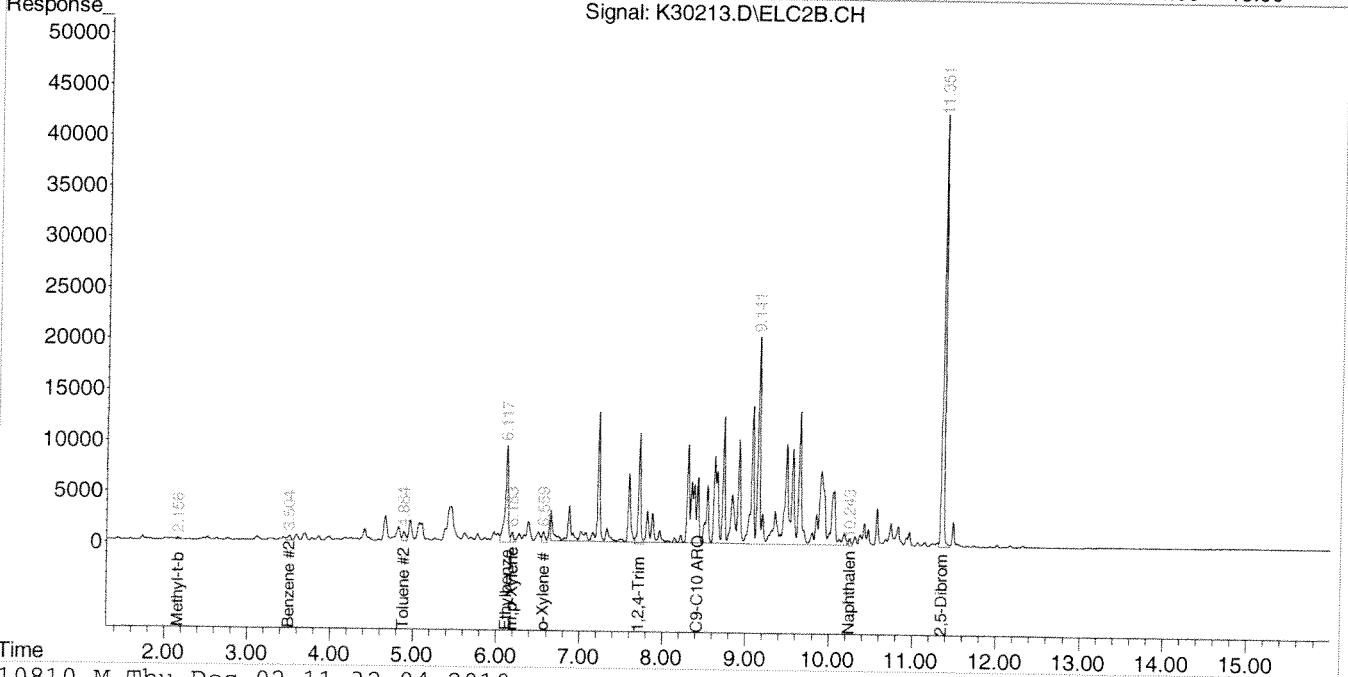
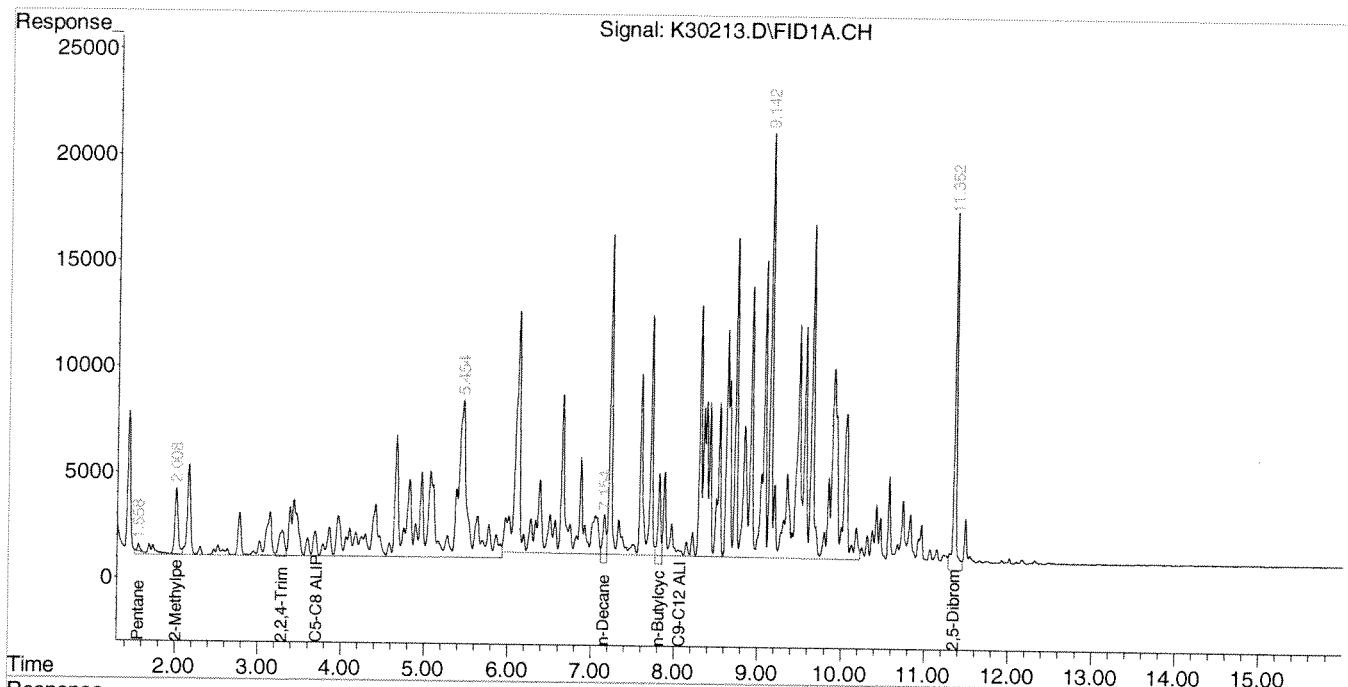
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

Authorized signature: *M. Schull*

Data Path : C:\msdchem\1\DATA\120110-K\
 Data File : K30213.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 01 Dec 2010 1:13 pm
 Operator : JJL
 Sample : 68466-14,2X
 Misc : 2500
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 01 13:57:56 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 :



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

December 9, 2010

CLIENT SAMPLE ID
Project Name: DEP 2521-10
Project Number:
Client Sample ID: Trip Blank (aq)

SAMPLE DATA

Lab Sample ID: 68466-15
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 11/23/10
Lab Receipt Date: 11/29/10
Analysis Date: 11/30/10

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				93
Surrogate % Recovery (2,5-Dibromotoluene) FID				93
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.

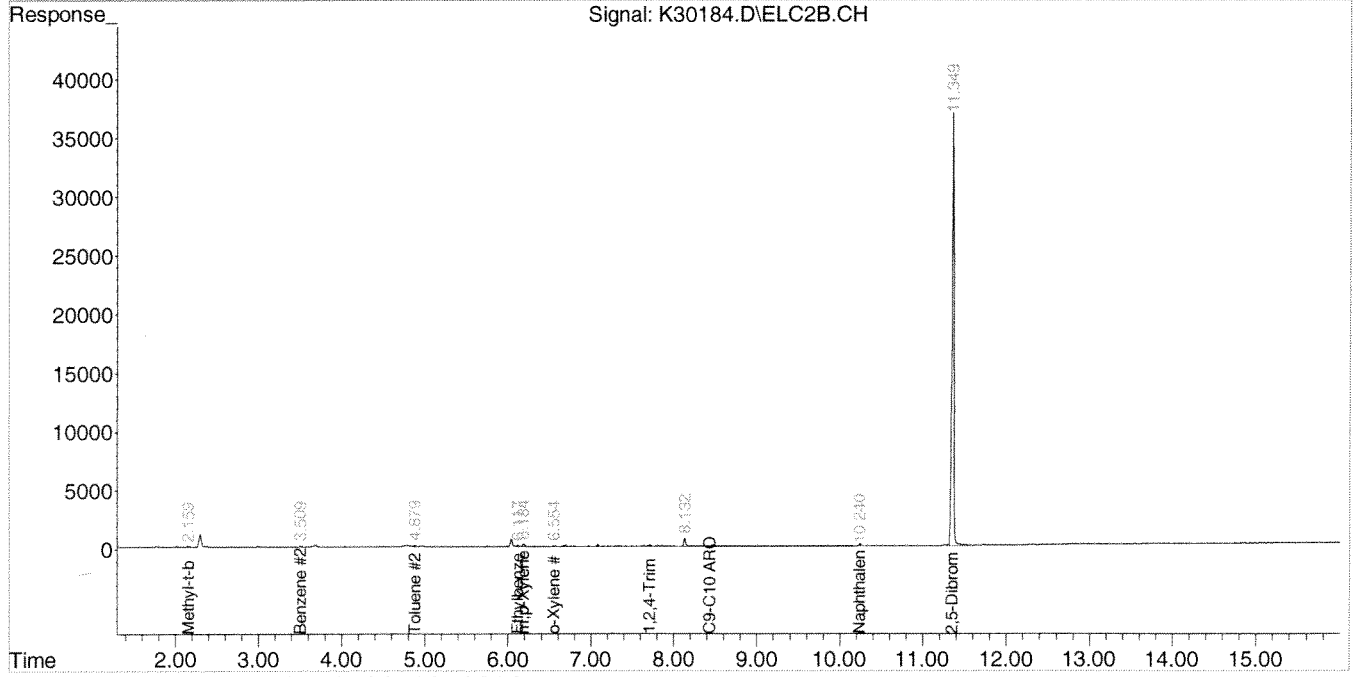
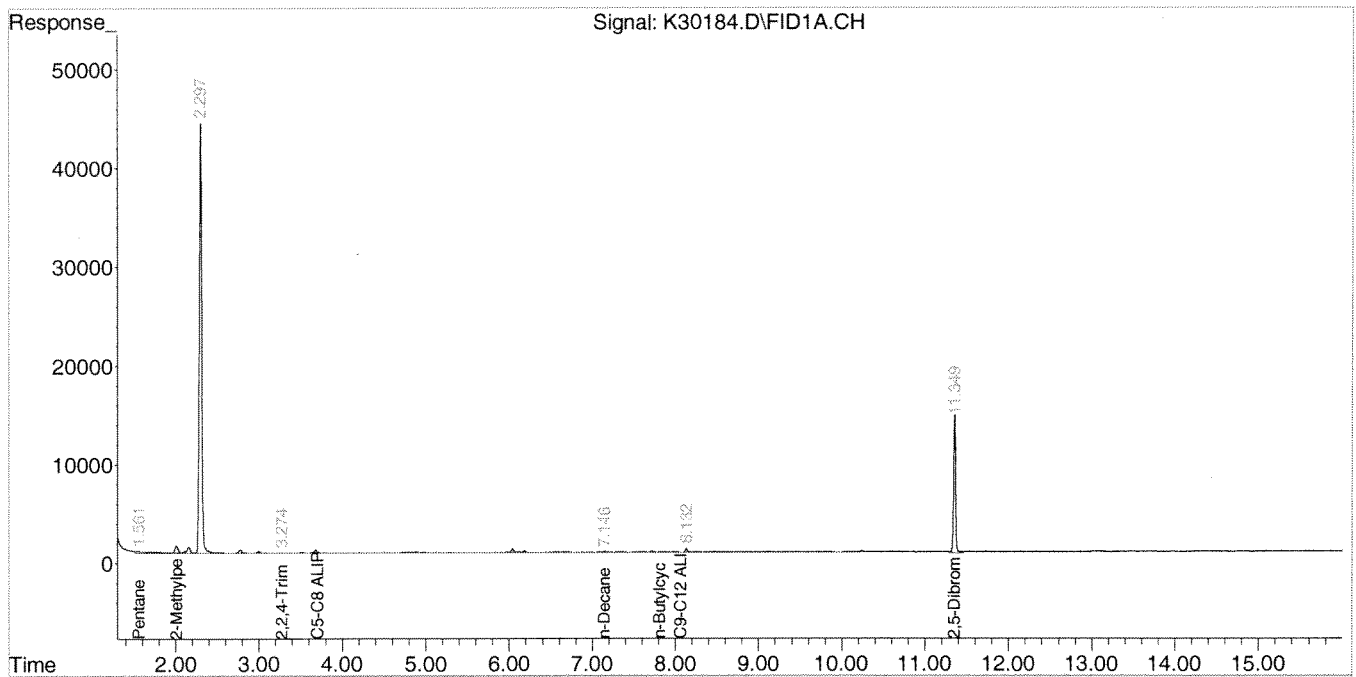
Authorized signature: *M. J. Bull*

Data Path : C:\msdchem\1\DATA\113010-K\
 Data File : K30184.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 30 Nov 2010 2:40 pm
 Operator : JJL
 Sample : 68466-15
 Misc : 5000
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 01 10:03:51 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

JJL 12/9/10

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



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. Rodis**
 TELEPHONE: _____ FAX # / E-MAIL: _____
 COMPANY: _____ PURCHASE ORDER # / BILL TO: _____
 ADDRESS: _____

PROJECT NAME: **DEP 2521-10**
 SAMPLER NAME: _____

SAMPLE IDENTIFICATION	# CONTAINERS	TYPE OF CONTAINERS	FIELD FILTRATION		SAMPLE MATRIX	GRAB	COMP.	METHOD PRESERVED	SAMPLING	
			YES	NO					DATE	TIME
1-101 (0-2')	1	100	X		Soil	X	0 mesh sieve @ 6°C	11/29/10		
1-101 (10-11')	1		X			X				
1-102 (0-2')	1		X			X				
1-103 (5')	1		X			X				
1-104 (0-2')	1		X			X				
1-104 (8-10')	1		X			X				
1-105 (8-8.5')	1		X			X				
1-105 (0-2')	1		X			X				
1-106 (0-2')	1		X			X				
1-107 (0-2')	1		X			X				
1-108 (0-2')	1		X			X				
Trip Blank	1		X			X	metric			

Received within hold time yes no
 Received in good condition yes no
 Temp. Blank °C 50 (Frozen ice packs)
 Samples received preserved yes no

RELINQUISHED BY SAMPLER: _____
 RELINQUISHED BY: [Signature]
 RELINQUISHED BY: _____

ANALYSES

LABORATORY REPORT #

Delivered by

TURNAROUND REQUEST
 Standard 12/7
 Priority (SURCHARGE)
 Quote # ME2010101-35

LABORATORY IDENTIFICATION/ SUBCONTRACTOR
68466-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12

COMMENTS
MEDEP EDD
(Former Patten's Mobil)

RECEIVED BY: [Signature]
 RECEIVED BY: [Signature]
 RECEIVED BY LABORATORY: _____

DATE: _____ TIME: _____
 DATE: 11/29/10 TIME: 9:55
 DATE: _____ TIME: _____

COC-04 E 11/27

AL

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: **DEP2521-10** SAMPLER NAME: _____

LABORATORY REPORT # _____

Delivered by _____

TURNAROUND REQUEST
 Standard 12/17
 Priority (SURCHARGE)
 Quote # **-35**

LABORATORY IDENTIFICATION/ SUBCONTRACTOR
68440-13

-14

-15

SAMPLE IDENTIFICATION	# CONTAINERS	TYPE OF CONTAINERS	FIELD FILTRATION		SAMPLE MATRIX	GRAB	COMP.	METHOD PRESERVED	SAMPLING		COMMENTS
			YES	NO					DATE	TIME	
nw-101	3	TOP	X		GW	X		HCl/FC	11/29/10		ANALYSES COMMENTS EDD
nw-102	3	↓	X		↓	X		↓			
Trip Blank	1	↓	X		XTB	X		↓			
<div style="display: flex; justify-content: space-between;"> Received within hold time <input type="checkbox"/> yes <input type="checkbox"/> no Custody seal present <input type="checkbox"/> yes <input type="checkbox"/> no </div> <div style="display: flex; justify-content: space-between;"> Received in good condition <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Temp. Blank °C 50 <u>Frozen ice packs</u> </div> <div style="display: flex; justify-content: space-between;"> Samples received preserved <input checked="" type="checkbox"/> yes <input type="checkbox"/> no </div>											
RELINQUISHED BY SAMPLER:									DATE	TIME	RECEIVED BY:
RELINQUISHED BY:									DATE	TIME	RECEIVED BY:
RELINQUISHED BY:									DATE	TIME	RECEIVED BY LABORATORY:

HAN XX

[Signature] 11/29/10

RECEIVED BY: *[Signature]*
 RECEIVED BY: *[Signature]*
 RECEIVED BY LABORATORY: *[Signature]* 11/29/10

[Signature]

ANALYTICS SAMPLE RECEIPT CHECKLIST

AEL LAB#: 68466
 CLIENT: MEL
 PROJECT: DEP 2524-10

COOLER NUMBER: 608
 NUMBER OF COOLERS: 1
 DATE RECEIVED: 11/29/10

A: PRELIMINARY EXAMINATION:

DATE COOLER OPENED: 11/29/10
 Date Received: 11/29/10

1. Cooler received by(initials): JG

Shipped JG 11/29/10

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

3. Did cooler come with a shipping slip?

3a. Enter carrier name and airbill number here:

4. Were custody seals on the outside of cooler?
 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: 5°

B. Log-In: Date samples were logged in: 11/29/10 By: JG

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/A

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

21. Laboratory labeling verified by (initials): JG

Date: 11/29/10



ANALYTICAL REPORT

Lab Number:	L1018975
Client:	Maine DEP-Div. of Technical Services Division of Technical Services 312 Canco Road Portland, ME 04103
ATTN:	Robert Sypitkowski
Phone:	(207) 822-6300
Project Name:	FORMER PATTEN'S MOBIL
Project Number:	Not Specified
Report Date:	12/13/10

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-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: FORMER PATTEN'S MOBIL
Project Number: Not Specified

Lab Number: L1018975
Report Date: 12/13/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1018975-01	SV-101	Not Specified	11/23/10 11:24
L1018975-02	SV-101A	Not Specified	11/23/10 11:24
L1018975-03	SV-102 (7.5')	Not Specified	11/23/10 10:50
L1018975-04	SV-103	Not Specified	11/23/10 11:46
L1018975-05	SV-104	Not Specified	11/23/10 10:19
L1018975-06	SV-105	Not Specified	11/23/10 09:47
L1018975-07	SV-102 (4')	Not Specified	11/23/10 10:50

Project Name: FORMER PATTEN'S MOBIL

Lab Number: L1018975

Project Number: Not Specified

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: FORMER PATTEN'S MOBIL
Project Number: Not Specified

Lab Number: L1018975
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.

MCP Related Narratives

Canisters were released from the laboratory on November 10 and 19, 2010.

The canister certification data is provided as an addendum.

Fixed Gas

L1018975-01 through -03, and -05 through -07: 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.

L1018975-04: Prior to sample analysis, the canister was pressurized with UHP Nitrogen in order to facilitate the transfer of sample to the Gas Chromatograph. The addition of Nitrogen resulted in a dilution of the sample. The reporting limits have been elevated accordingly.

Project Name: FORMER PATTEN'S MOBIL
Project Number: Not Specified

Lab Number: L1018975
Report Date: 12/13/10

Case Narrative (continued)


Petroleum Hydrocarbons in Air

L1018975-01, -02, -03, and -07 have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L1018975-04 and -05 have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

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: FORMER PATTEN'S MOBIL**Lab Number:** L1018975**Project Number:** Not Specified**Report Date:** 12/13/10**SAMPLE RESULTS**

Lab ID: L1018975-01 D
Client ID: SV-101
Sample Location: Not Specified
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 12/09/10 18:36
Analyst: RY

Date Collected: 11/23/10 11:24
Date Received: 11/29/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	12.5		%	1.44	--	1.441
Carbon Dioxide	7.30		%	0.144	--	1.441
Methane	ND		%	0.144	--	1.441

Project Name: FORMER PATTEN'S MOBIL**Lab Number:** L1018975**Project Number:** Not Specified**Report Date:** 12/13/10**SAMPLE RESULTS**

Lab ID: L1018975-02 D
Client ID: SV-101A
Sample Location: Not Specified
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 12/09/10 19:15
Analyst: RY

Date Collected: 11/23/10 11:24
Date Received: 11/29/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	13.8		%	1.43	--	1.431
Carbon Dioxide	6.65		%	0.143	--	1.431
Methane	ND		%	0.143	--	1.431

Project Name: FORMER PATTEN'S MOBIL**Lab Number:** L1018975**Project Number:** Not Specified**Report Date:** 12/13/10**SAMPLE RESULTS**

Lab ID: L1018975-03 D
Client ID: SV-102 (7.5')
Sample Location: Not Specified
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 12/09/10 19:53
Analyst: RY

Date Collected: 11/23/10 10:50
Date Received: 11/29/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	6.95		%	1.43	--	1.431
Carbon Dioxide	6.49		%	0.143	--	1.431
Methane	ND		%	0.143	--	1.431

Project Name: FORMER PATTEN'S MOBIL**Lab Number:** L1018975**Project Number:** Not Specified**Report Date:** 12/13/10**SAMPLE RESULTS**

Lab ID: L1018975-04 D
Client ID: SV-103
Sample Location: Not Specified
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 12/09/10 20:31
Analyst: RY

Date Collected: 11/23/10 11:46
Date Received: 11/29/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	1.55		%	1.41	--	1.412
Carbon Dioxide	10.2		%	0.141	--	1.412
Methane	0.364		%	0.141	--	1.412

Project Name: FORMER PATTEN'S MOBIL**Lab Number:** L1018975**Project Number:** Not Specified**Report Date:** 12/13/10**SAMPLE RESULTS**

Lab ID: L1018975-05 D
Client ID: SV-104
Sample Location: Not Specified
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 12/09/10 21:10
Analyst: RY

Date Collected: 11/23/10 10:19
Date Received: 11/29/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	18.8		%	1.78	--	1.783
Carbon Dioxide	ND		%	0.178	--	1.783
Methane	ND		%	0.178	--	1.783

Project Name: FORMER PATTEN'S MOBIL**Lab Number:** L1018975**Project Number:** Not Specified**Report Date:** 12/13/10**SAMPLE RESULTS**

Lab ID: L1018975-06 D
Client ID: SV-105
Sample Location: Not Specified
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 12/09/10 21:48
Analyst: RY

Date Collected: 11/23/10 09:47
Date Received: 11/29/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	19.5		%	1.64	--	1.644
Carbon Dioxide	ND		%	0.164	--	1.644
Methane	ND		%	0.164	--	1.644

Project Name: FORMER PATTEN'S MOBIL**Lab Number:** L1018975**Project Number:** Not Specified**Report Date:** 12/13/10**SAMPLE RESULTS**

Lab ID: L1018975-07 D
Client ID: SV-102 (4')
Sample Location: Not Specified
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 12/09/10 22:27
Analyst: RY

Date Collected: 11/23/10 10:50
Date Received: 11/29/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	10.4		%	1.43	--	1.431
Carbon Dioxide	3.40		%	0.143	--	1.431
Methane	ND		%	0.143	--	1.431

Project Name: FORMER PATTEN'S MOBIL**Lab Number:** L1018975**Project Number:** Not Specified**Report Date:** 12/13/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 51,3C

Analytical Date: 12/09/10 17:43

Analyst: RY

Parameter	Result	Qualifier	Units	RL	MDL
Fixed Gases by GC - Mansfield Lab for sample(s): 01-07 Batch: WG447103-2					
Oxygen	ND		%	1.00	--
Carbon Dioxide	ND		%	0.100	--
Methane	ND		%	0.100	--

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PATTEN'S MOBIL

Project Number: Not Specified

Lab Number: L1018975

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): 01-07 Batch: WG447103-1								
Oxygen	92		-		80-120	-		
Carbon Dioxide	104		-		80-120	-		
Methane	102		-		80-120	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: FORMER PATTEN'S MOBIL

Project Number: Not Specified

Lab Number: L1018975

Report Date: 12/13/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG447103-3 QC Sample: L1018975-01 Client ID: SV-101						
Oxygen	12.5	12.8	%	2		5
Carbon Dioxide	7.30	7.32	%	0		5
Methane	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG447103-4 QC Sample: L1018975-02 Client ID: SV-101A						
Oxygen	13.8	13.7	%	1		5
Carbon Dioxide	6.65	6.66	%	0		5
Methane	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG447103-5 QC Sample: L1018975-03 Client ID: SV-102 (7.5')						
Oxygen	6.95	6.69	%	4		5
Carbon Dioxide	6.49	6.49	%	0		5
Methane	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG447103-6 QC Sample: L1018975-04 Client ID: SV-103						
Oxygen	1.55	1.58	%	2		5
Carbon Dioxide	10.2	10.2	%	0		5
Methane	0.364	0.364	%	0		5

Lab Duplicate Analysis

Batch Quality Control

Project Name: FORMER PATTEN'S MOBIL

Project Number: Not Specified

Lab Number: L1018975

Report Date: 12/13/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG447103-7 QC Sample: L1018975-05 Client ID: SV-104					
Oxygen	18.8	18.6	%	1	5
Carbon Dioxide	ND	ND	%	NC	5
Methane	ND	ND	%	NC	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG447103-8 QC Sample: L1018975-06 Client ID: SV-105					
Oxygen	19.5	19.4	%	1	5
Carbon Dioxide	ND	ND	%	NC	5
Methane	ND	ND	%	NC	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG447103-9 QC Sample: L1018975-07 Client ID: SV-102 (4')					
Oxygen	10.4	10.4	%	0	5
Carbon Dioxide	3.40	3.40	%	0	5
Methane	ND	ND	%	NC	5

Project Name: FORMER PATTEN'S MOBIL**Lab Number:** L1018975**Project Number:** Not Specified**Report Date:** 12/13/10**SAMPLE RESULTS**

Lab ID: L1018975-01 D
 Client ID: SV-101
 Sample Location: Not Specified
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 12/02/10 22:40
 Analyst: RY

Date Collected: 11/23/10 11:24
 Date Received: 11/29/10
 Field Prep: Not Specified

Quality Control Information

Sample Type: 30 minute 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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	20	--	10
Methyl tert butyl ether	ND		ug/m3	20	--	10
Benzene	ND		ug/m3	20	--	10
Toluene	ND		ug/m3	20	--	10
C5-C8 Aliphatics, Adjusted	38000		ug/m3	120	--	10
Ethylbenzene	79		ug/m3	20	--	10
p/m-Xylene	310		ug/m3	40	--	10
o-Xylene	43		ug/m3	20	--	10
Naphthalene	ND		ug/m3	20	--	10
C9-C12 Aliphatics, Adjusted	5000		ug/m3	140	--	10
C9-C10 Aromatics Total	480		ug/m3	100	--	10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		50-200
Bromochloromethane	93		50-200
Chlorobenzene-d5	109		50-200

Project Name: FORMER PATTEN'S MOBIL**Lab Number:** L1018975**Project Number:** Not Specified**Report Date:** 12/13/10**SAMPLE RESULTS**

Lab ID: L1018975-02 D
 Client ID: SV-101A
 Sample Location: Not Specified
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 12/02/10 23:15
 Analyst: RY

Date Collected: 11/23/10 11:24
 Date Received: 11/29/10
 Field Prep: Not Specified

Quality Control Information

Sample Type: 30 minute 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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	20	--	10
Methyl tert butyl ether	ND		ug/m3	20	--	10
Benzene	ND		ug/m3	20	--	10
Toluene	ND		ug/m3	20	--	10
C5-C8 Aliphatics, Adjusted	40000		ug/m3	120	--	10
Ethylbenzene	110		ug/m3	20	--	10
p/m-Xylene	420		ug/m3	40	--	10
o-Xylene	56		ug/m3	20	--	10
Naphthalene	ND		ug/m3	20	--	10
C9-C12 Aliphatics, Adjusted	6600		ug/m3	140	--	10
C9-C10 Aromatics Total	640		ug/m3	100	--	10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		50-200
Bromochloromethane	98		50-200
Chlorobenzene-d5	100		50-200

Project Name: FORMER PATTEN'S MOBIL**Lab Number:** L1018975**Project Number:** Not Specified**Report Date:** 12/13/10**SAMPLE RESULTS**

Lab ID: L1018975-03 D
 Client ID: SV-102 (7.5')
 Sample Location: Not Specified
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 12/02/10 23:49
 Analyst: RY

Date Collected: 11/23/10 10:50
 Date Received: 11/29/10
 Field Prep: Not Specified

Quality Control Information

Sample Type: 30 minute 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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	20	--	10
Methyl tert butyl ether	ND		ug/m3	20	--	10
Benzene	52		ug/m3	20	--	10
Toluene	110		ug/m3	20	--	10
C5-C8 Aliphatics, Adjusted	60000		ug/m3	120	--	10
Ethylbenzene	70		ug/m3	20	--	10
p/m-Xylene	160		ug/m3	40	--	10
o-Xylene	51		ug/m3	20	--	10
Naphthalene	ND		ug/m3	20	--	10
C9-C12 Aliphatics, Adjusted	81000		ug/m3	140	--	10
C9-C10 Aromatics Total	560		ug/m3	100	--	10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	113		50-200
Bromochloromethane	111		50-200
Chlorobenzene-d5	165		50-200

Project Name: FORMER PATTEN'S MOBIL**Lab Number:** L1018975**Project Number:** Not Specified**Report Date:** 12/13/10**SAMPLE RESULTS**

Lab ID: L1018975-04 D
 Client ID: SV-103
 Sample Location: Not Specified
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 12/03/10 00:24
 Analyst: RY

Date Collected: 11/23/10 11:46
 Date Received: 11/29/10
 Field Prep: Not Specified

Quality Control Information

Sample Type: 30 minute 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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	3600	--	1800
Methyl tert butyl ether	ND		ug/m3	3600	--	1800
Benzene	180000		ug/m3	3600	--	1800
Toluene	240000		ug/m3	3600	--	1800
C5-C8 Aliphatics, Adjusted	34000000		ug/m3	22000	--	1800
Ethylbenzene	160000		ug/m3	3600	--	1800
p/m-Xylene	550000		ug/m3	7200	--	1800
o-Xylene	140000		ug/m3	3600	--	1800
Naphthalene	ND		ug/m3	3600	--	1800
C9-C12 Aliphatics, Adjusted	1100000		ug/m3	25000	--	1800
C9-C10 Aromatics Total	160000		ug/m3	18000	--	1800

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	120		50-200
Bromochloromethane	117		50-200
Chlorobenzene-d5	149		50-200

Project Name: FORMER PATTEN'S MOBIL**Lab Number:** L1018975**Project Number:** Not Specified**Report Date:** 12/13/10**SAMPLE RESULTS**

Lab ID: L1018975-05 D
 Client ID: SV-104
 Sample Location: Not Specified
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 12/03/10 01:00
 Analyst: RY

Date Collected: 11/23/10 10:19
 Date Received: 11/29/10
 Field Prep: Not Specified

Quality Control Information

Sample Type: 30 minute 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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	4.0	--	2
Methyl tert butyl ether	ND		ug/m3	4.0	--	2
Benzene	ND		ug/m3	4.0	--	2
Toluene	12		ug/m3	4.0	--	2
C5-C8 Aliphatics, Adjusted	1100		ug/m3	24	--	2
Ethylbenzene	200		ug/m3	4.0	--	2
p/m-Xylene	850		ug/m3	8.0	--	2
o-Xylene	320		ug/m3	4.0	--	2
Naphthalene	8.0		ug/m3	4.0	--	2
C9-C12 Aliphatics, Adjusted	5400		ug/m3	28	--	2
C9-C10 Aromatics Total	640		ug/m3	20	--	2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	122		50-200
Bromochloromethane	121		50-200
Chlorobenzene-d5	119		50-200

Project Name: FORMER PATTEN'S MOBIL**Lab Number:** L1018975**Project Number:** Not Specified**Report Date:** 12/13/10**SAMPLE RESULTS**

Lab ID: L1018975-06
 Client ID: SV-105
 Sample Location: Not Specified
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 12/03/10 01:36
 Analyst: RY

Date Collected: 11/23/10 09:47
 Date Received: 11/29/10
 Field Prep: Not Specified

Quality Control Information

Sample Type: 30 minute 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

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	25		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	14		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	120		50-200
Bromochloromethane	121		50-200
Chlorobenzene-d5	111		50-200

Project Name: FORMER PATTEN'S MOBIL**Lab Number:** L1018975**Project Number:** Not Specified**Report Date:** 12/13/10**SAMPLE RESULTS**

Lab ID: L1018975-07 D
 Client ID: SV-102 (4)
 Sample Location: Not Specified
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 12/03/10 02:11
 Analyst: RY

Date Collected: 11/23/10 10:50
 Date Received: 11/29/10
 Field Prep: Not Specified

Quality Control Information

Sample Type: 30 minute 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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	20	--	10
Methyl tert butyl ether	ND		ug/m3	20	--	10
Benzene	49		ug/m3	20	--	10
Toluene	74		ug/m3	20	--	10
C5-C8 Aliphatics, Adjusted	26000		ug/m3	120	--	10
Ethylbenzene	26		ug/m3	20	--	10
p/m-Xylene	94		ug/m3	40	--	10
o-Xylene	33		ug/m3	20	--	10
Naphthalene	ND		ug/m3	20	--	10
C9-C12 Aliphatics, Adjusted	6700		ug/m3	140	--	10
C9-C10 Aromatics Total	190		ug/m3	100	--	10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	113		50-200
Bromochloromethane	117		50-200
Chlorobenzene-d5	127		50-200

Project Name: FORMER PATTEN'S MOBIL

Lab Number: L1018975

Project Number: Not Specified

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): 01-07 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: FORMER PATTEN'S MOBIL

Project Number: Not Specified

Lab Number: L1018975

Report Date: 12/13/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01-07 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: FORMER PATTEN'S MOBIL

Project Number: Not Specified

Lab Number: L1018975

Report Date: 12/13/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01-07 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

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
L1018975-01	SV-101	0014	#90 SV		-	-	69	73	6
L1018975-01	SV-101	118	2.7L Can	L1017881	-29.6	1.0	-	-	-
L1018975-02	SV-101A	0280	#90 SV		-	-	70	73	4
L1018975-02	SV-101A	257	2.7L Can	L1017881	-29.6	1.3	-	-	-
L1018975-03	SV-102 (7.5')	0172	#90 SV		-	-	69	74	7
L1018975-03	SV-102 (7.5')	215	2.7L Can	L1017881	-29.6	1.3	-	-	-
L1018975-04	SV-103	0149	#90 SV		-	-	72	80	11
L1018975-04	SV-103	499	2.7L Can	L1017881	-29.6	0.7	-	-	-
L1018975-05	SV-104	0316	#90 SV		-	-	70	71	1
L1018975-05	SV-104	508	2.7L Can	I1017587	-29.4	-3.7	-	-	-
L1018975-06	SV-105	0257	#90 SV		-	-	66	71	7
L1018975-06	SV-105	410	2.7L Can	I1017587	-29.6	-0.1	-	-	-
L1018975-07	SV-102 (4')	0289	#90 SV		-	-	66	64	3
L1018975-07	SV-102 (4')	217	2.7L Can	I1017872	-29.5	1.4	-	-	-



Air Volatiles Can Certification

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1017587**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017587-01
 Client ID: CAN 207 SHELF 4
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 11/05/10 18:02
 Analyst: RY

Date Collected: 11/04/10 00:00
 Date Received: 11/04/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017587**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017587-01

Date Collected: 11/04/10 00:00

Client ID: CAN 207 SHELF 4

Date Received: 11/04/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017587**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017587-01

Date Collected: 11/04/10 00:00

Client ID: CAN 207 SHELF 4

Date Received: 11/04/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017587**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017587-01

Date Collected: 11/04/10 00:00

Client ID: CAN 207 SHELF 4

Date Received: 11/04/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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-Trimethylbenzene	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:** L1017587**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017587-01

Date Collected: 11/04/10 00:00

Client ID: CAN 207 SHELF 4

Date Received: 11/04/10

Sample Location:

Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	102		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1017587**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017587-01
 Client ID: CAN 207 SHELF 4
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 11/05/10 18:02
 Analyst: RY

Date Collected: 11/04/10 00:00
 Date Received: 11/04/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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	0.069	0.050	--	0.528	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:** L1017587**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017587-01
 Client ID: CAN 207 SHELF 4
 Sample Location:

Date Collected: 11/04/10 00:00
 Date Received: 11/04/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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-Trimethylbenzene	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:** L1017587**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017587-01

Date Collected: 11/04/10 00:00

Client ID: CAN 207 SHELF 4

Date Received: 11/04/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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: L1017587

Project Number: CANISTER QC BAT

Report Date: 12/13/10

Air Canister Certification Results

Lab ID: L1017587-01

Date Collected: 11/04/10 00:00

Client ID: CAN 207 SHELF 4

Date Received: 11/04/10

Sample Location:

Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	90		60-140



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1017872**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017872-01
 Client ID: CAN 212 SHELF 3
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 11/10/10 18:57
 Analyst: RY

Date Collected: 11/08/10 00:00
 Date Received: 11/08/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017872**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017872-01

Date Collected: 11/08/10 00:00

Client ID: CAN 212 SHELF 3

Date Received: 11/08/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017872**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017872-01

Date Collected: 11/08/10 00:00

Client ID: CAN 212 SHELF 3

Date Received: 11/08/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017872**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017872-01

Date Collected: 11/08/10 00:00

Client ID: CAN 212 SHELF 3

Date Received: 11/08/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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-Trimethylbenzene	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:** L1017872**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017872-01

Date Collected: 11/08/10 00:00

Client ID: CAN 212 SHELF 3

Date Received: 11/08/10

Sample Location:

Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1017872**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017872-01
 Client ID: CAN 212 SHELF 3
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 11/10/10 18:57
 Analyst: RY

Date Collected: 11/08/10 00:00
 Date Received: 11/08/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017872**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017872-01

Date Collected: 11/08/10 00:00

Client ID: CAN 212 SHELF 3

Date Received: 11/08/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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-Trimethylbenzene	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:** L1017872**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017872-01

Date Collected: 11/08/10 00:00

Client ID: CAN 212 SHELF 3

Date Received: 11/08/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017872**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017872-01

Date Collected: 11/08/10 00:00

Client ID: CAN 212 SHELF 3

Date Received: 11/08/10

Sample Location:

Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	82		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	84		60-140

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1017881**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017881-01
 Client ID: CAN 160 SHELF 7
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 11/10/10 20:06
 Analyst: RY

Date Collected: 11/09/10 00:00
 Date Received: 11/09/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017881**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017881-01

Date Collected: 11/09/10 00:00

Client ID: CAN 160 SHELF 7

Date Received: 11/09/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017881**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017881-01

Date Collected: 11/09/10 00:00

Client ID: CAN 160 SHELF 7

Date Received: 11/09/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017881**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017881-01

Date Collected: 11/09/10 00:00

Client ID: CAN 160 SHELF 7

Date Received: 11/09/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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-Trimethylbenzene	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: L1017881

Project Number: CANISTER QC BAT

Report Date: 12/13/10

Air Canister Certification Results

Lab ID: L1017881-01

Date Collected: 11/09/10 00:00

Client ID: CAN 160 SHELF 7

Date Received: 11/09/10

Sample Location:

Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	91		60-140



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1017881**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017881-01
 Client ID: CAN 160 SHELF 7
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 11/10/10 20:06
 Analyst: RY

Date Collected: 11/09/10 00:00
 Date Received: 11/09/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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:** L1017881**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017881-01

Date Collected: 11/09/10 00:00

Client ID: CAN 160 SHELF 7

Date Received: 11/09/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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-Trimethylbenzene	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:** L1017881**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**Air Canister Certification Results**

Lab ID: L1017881-01

Date Collected: 11/09/10 00:00

Client ID: CAN 160 SHELF 7

Date Received: 11/09/10

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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: L1017881

Project Number: CANISTER QC BAT

Report Date: 12/13/10

Air Canister Certification Results

Lab ID: L1017881-01

Date Collected: 11/09/10 00:00

Client ID: CAN 160 SHELF 7

Date Received: 11/09/10

Sample Location:

Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	77		60-140
bromochloromethane	82		60-140
chlorobenzene-d5	81		60-140



AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1017587**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1017587-01
Client ID: CAN 207 SHELF 4
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 11/05/10 18:54
Analyst: RY

Date Collected: 11/04/10 00:00
Date Received: 11/04/10
Field Prep: Not Specified

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: BATCH CANISTER CERTIFICATION**Lab Number:** L1017872**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1017872-01
Client ID: CAN 212 SHELF 3
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 11/10/10 18:57
Analyst: RY

Date Collected: 11/08/10 00:00
Date Received: 11/08/10
Field Prep: Not Specified

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: BATCH CANISTER CERTIFICATION**Lab Number:** L1017881**Project Number:** CANISTER QC BAT**Report Date:** 12/13/10**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1017881-01
Client ID: CAN 160 SHELF 7
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 11/10/10 20:06
Analyst: RY

Date Collected: 11/09/10 00:00
Date Received: 11/09/10
Field Prep: Not Specified

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: FORMER PATTEN'S MOBIL**Lab Number:** L1018975**Project Number:** Not Specified**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(*)
L1018975-01A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30)
L1018975-02A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30)
L1018975-03A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30)
L1018975-04A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30)
L1018975-05A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30)
L1018975-06A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30)
L1018975-07A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30)

*Values in parentheses indicate holding time in days

Project Name: FORMER PATTEN'S MOBIL
Project Number: Not Specified

Lab Number: L1018975
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: FORMER PATTEN'S MOBIL

Lab Number: L1018975

Project Number: Not Specified

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.

Project Name: FORMER PATTEN'S MOBIL
Project Number: Not Specified

Lab Number: L1018975
Report Date: 12/13/10

REFERENCES

- 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

ALPHA ANALYTICAL CHAIN OF CUSTODY

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

Client Information

Client: **MEDEP**

Address: **312 CANCO ROAD**

ROSEMARY MAINE 04103

Phone: **(207) 822-6364**

Fax: **(207) 822-6303**

Email: **pete.m.ereimta@maine.gov**

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project Information

Project Name: **Foxmead Parken's Magic**

Project Location:

Project #:

Project Manager:

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: Time:

Date Rec'd in Lab:

Report Information - Data Deliverables

FAX E-MAIL (standard pdf report)

Criteria Checker:

Other Formats:

Additional Deliverables:

Report to: (if different than Project Manager)

francine.m.walker@maine.gov

robert.o.a.spytkowski@maine.gov

j.cresset@summitenv.com

ALPHA Job #: **L1018975**

Billing Information

Same as Client Info PO #:

Regulatory/Requirements/Report Limits

State/Fed Program Criteria

MAINE EGAD END

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION				Sample Matrix*	Sampler's Initials	Can Size	I.D. Can	I.D. Flow controller	ANALYSIS	Sample Comments (i.e. PID)
		Date	Start Time	End Time	Initial Vacuum							
L1018795	1- SV-101	11-23	10:45	11:24	-30	-4	SV	JXC	1L	118	0014	NO TO-15 PER MEDEP
	2- SV-101A	11-23	10:45	11:24	-30	-3	SV	JXC	1L	257	0280	
	3- SN-102 (7.5')	11-23	10:02	10:50	-29	-3	SV	JXC	1L	215	0172	
	4- SV-103	11-23	11:14	11:46	-27	-2	SV	JXC	1L	499	0149	
	5- SV-104	11-23	9:48	10:19	-30	-3	SV	JXC	1L	508	0316	
	6- SN-105	11-23	9:08	9:47	-30	-3	SV	JXC	1L	410	0257	
	7- SV-102 (4')	11-23	10:06	10:50	-30	-1	SV	JXC	1L	217	0289	

SAMPLE MATRIX CODES

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

Relinquished By:

Date/Time: **11-26 2:00**

Received By: **REDEY**

Date/Time: **11/29/10 1:35**

Container Type

[Signature]

[Signature]
Alvin McDonald

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.

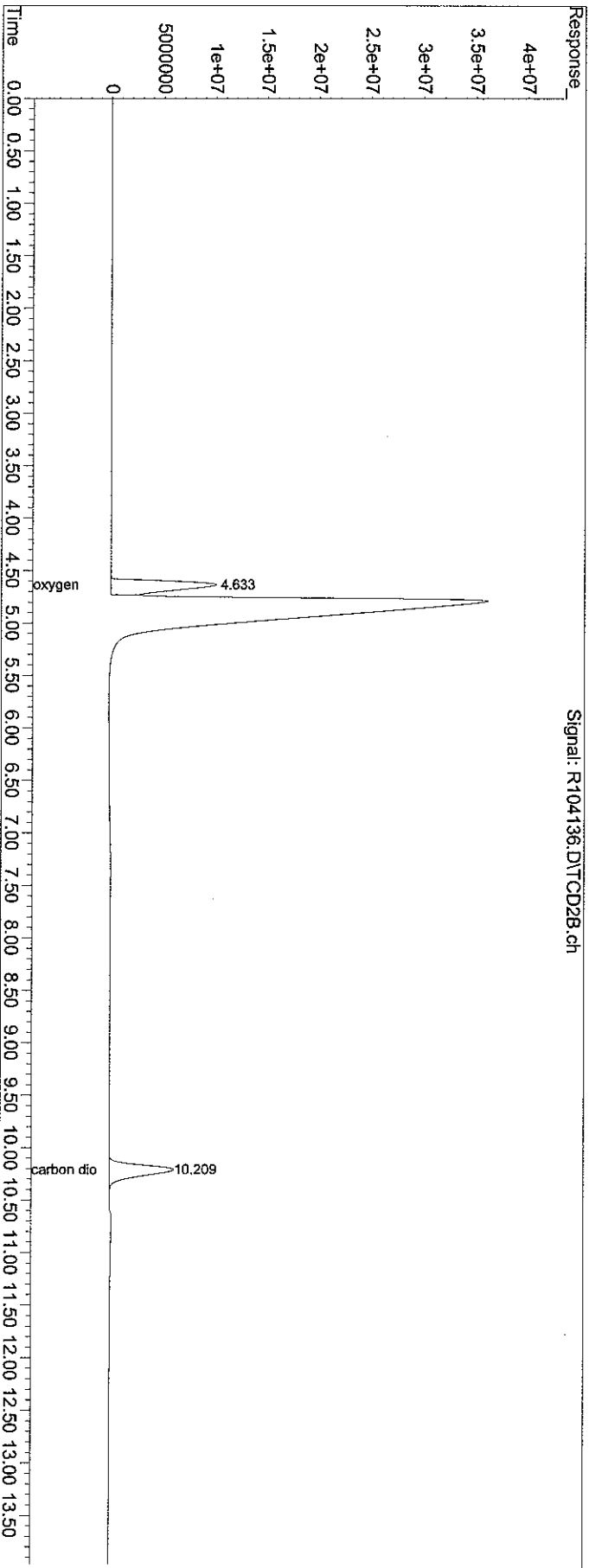
Fixed Gases

Sub List : CO2, O2, CH4 - .report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\101209fg\
 Data File : R104136.D
 Signal(s) : TCD2B.ch
 Acq On : 9 Dec 2010 6:36 pm
 Operator : airlab10:ry
 Sample : 11018975-01d,4,0.6938,1
 Misc : WG447103,ICAL5222
 ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Dec 10 11:38:17 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 :

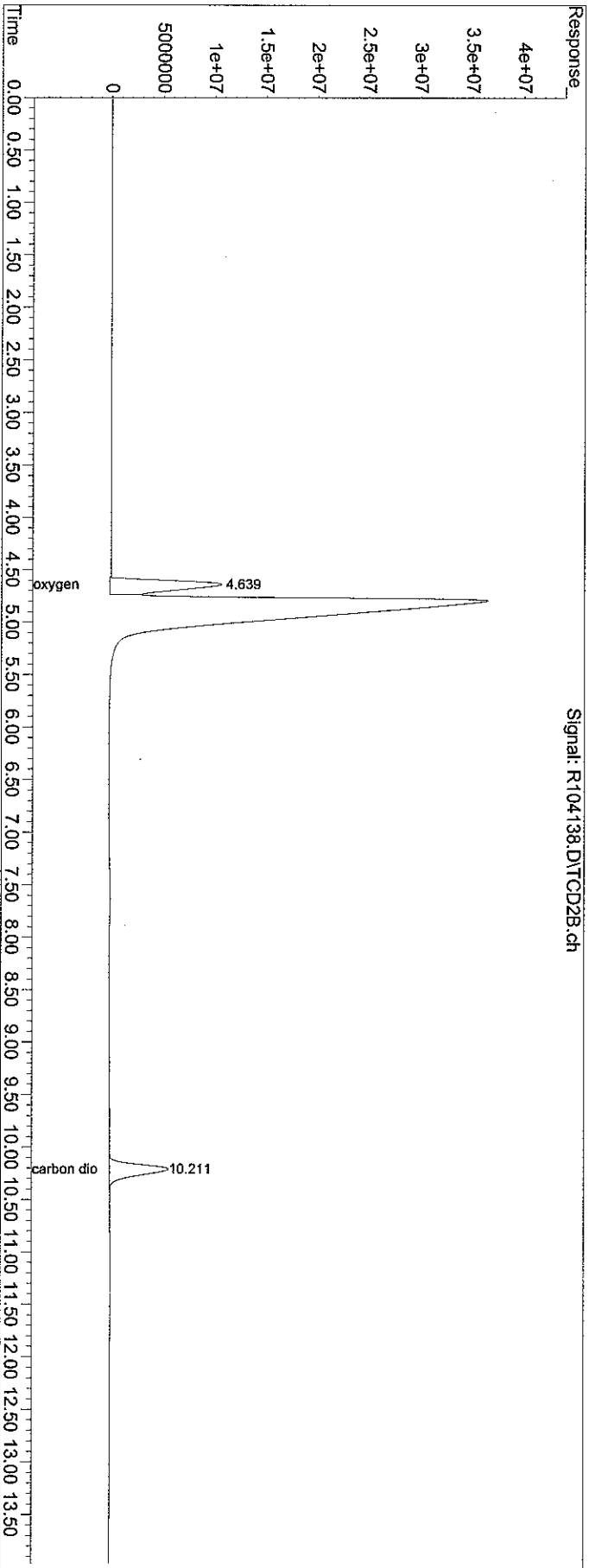


Sub List : CO2, O2, CH4 - .report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\101209Fg\
 Data File : R104138.D
 Signal(s) : TCD2B.ch
 Acq On : 9 Dec 2010 7:15 pm
 Operator : airlab10:ry
 Sample : 11018975-02d,4,0.6986,1
 Misc : WG447103,ICAL5222
 ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Dec 10 11:39:35 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 :

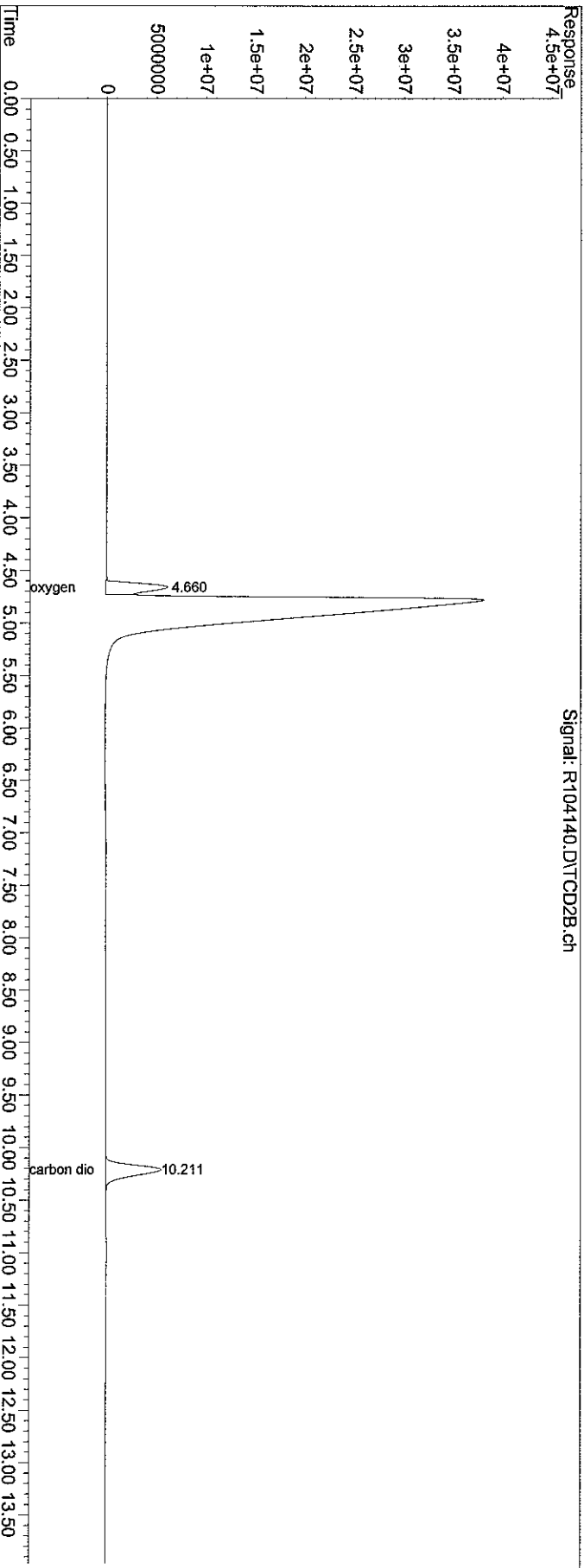


Sub List : CO2, O2, CH4 - .report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\101209fg\
 Data File : R104140.D
 Signal(s) : TCD2B.ch
 Acq On : 9 Dec 2010 7:53 pm
 Operator : airlab10:ry
 Sample : 11018975-03d,4,0.6986,1
 Misc : WG447103,ICAL5222
 ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Dec 10 11:40:44 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 :

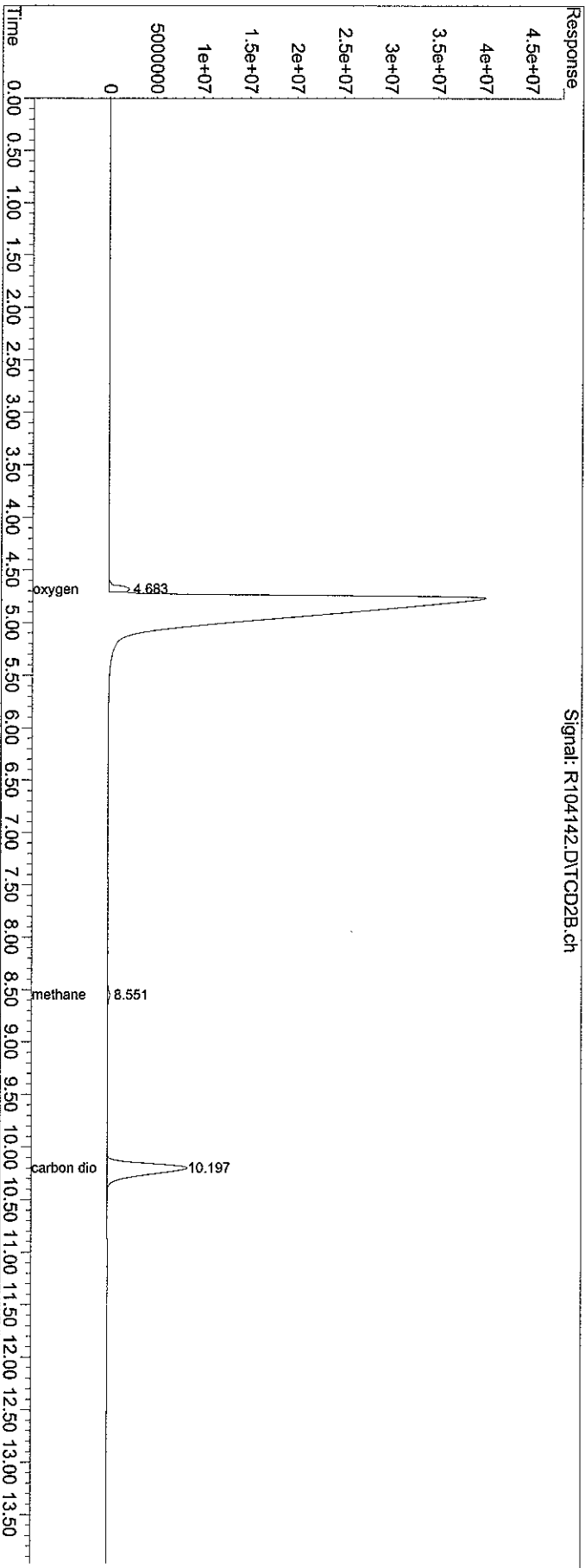


Sub List : CO2, O2, CH4 - .:report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\101209Fg\
Data File : R104142.D
Signal(s) : TCD2B.ch
Acq On : 9 Dec 2010 8:31 pm
Operator : airlab10:ry
Sample : 11018975-04d,4,0.7081,1
Misc : WG447103,ICAL5222
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 10 11:42:03 2010
Quant Method : O:\Forensics\Data\airlab10\101209Fg\FG100730.M
Quant Title : Fixed Gas Analysis via Method 3C
Quant Update : Sat Oct 30 10:36:20 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

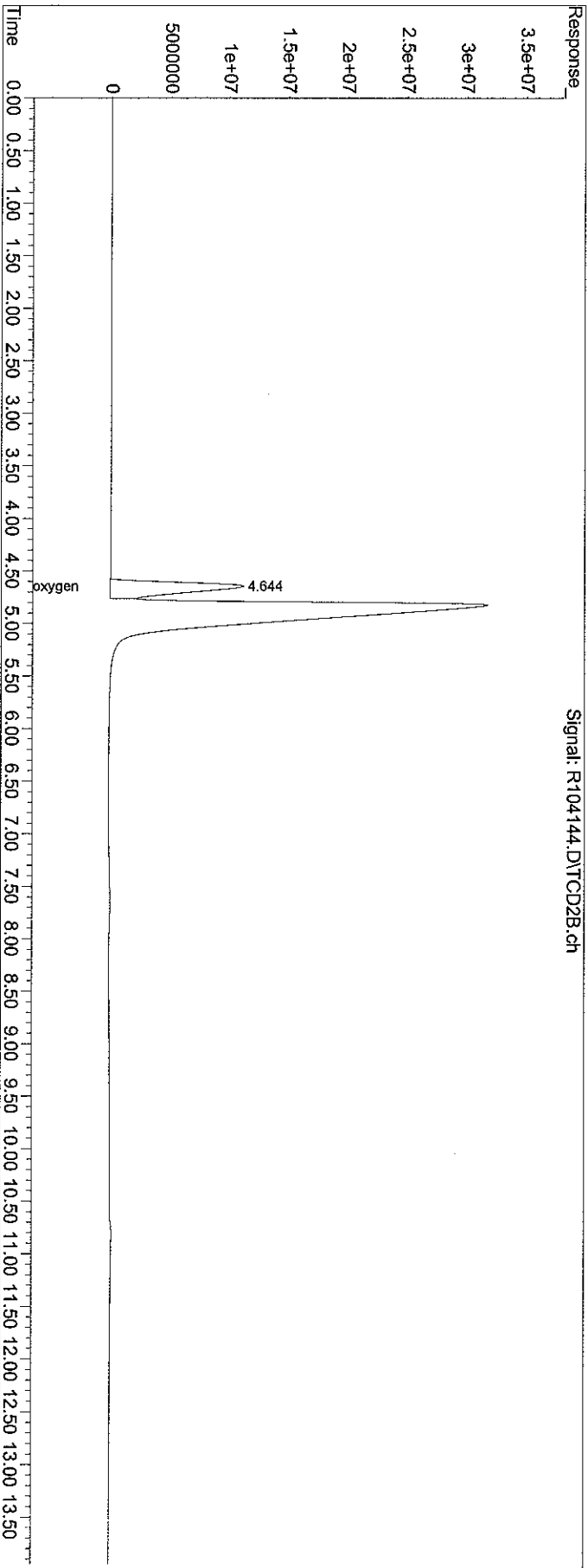


Sub List : CO2, O2, CH4 - .report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\101209Fg\
 Data File : R104144.D
 Signal(s) : TCD2B.ch
 Acq On : 9 Dec 2010 9:10 pm
 Operator : airlab10:ry
 Sample : 11018975-05d,4,0.5608,1
 Misc : WG447103,ICAL5222
 ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Dec 10 11:42:58 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 :

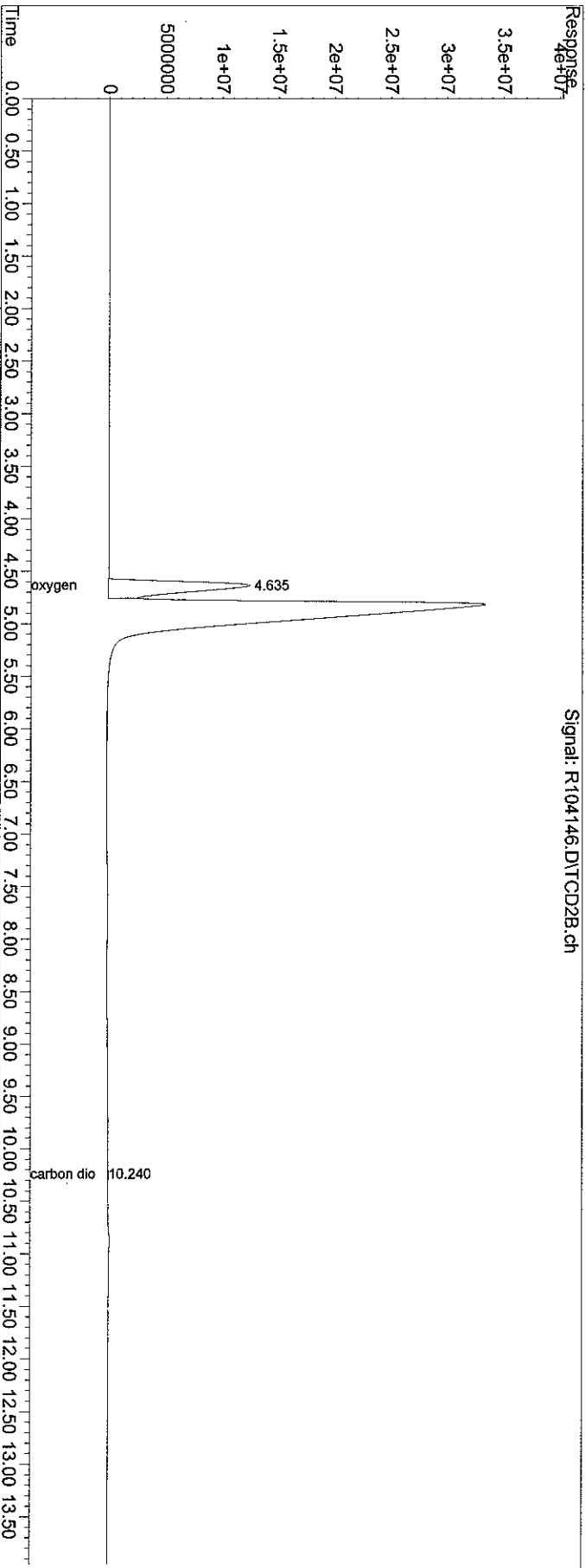


Sub List : CO2, O2, CH4 - .report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\101209fg\
 Data File : R104146.D
 Signal(s) : TCD2B.ch
 Acq On : 9 Dec 2010 9:48 pm
 Operator : airlab10:ry
 Sample : 11018975-06d,4,0.6083,1
 Misc : WG447103,ICAL5222
 ALS Vial : 12 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Dec 10 11:46:23 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 :



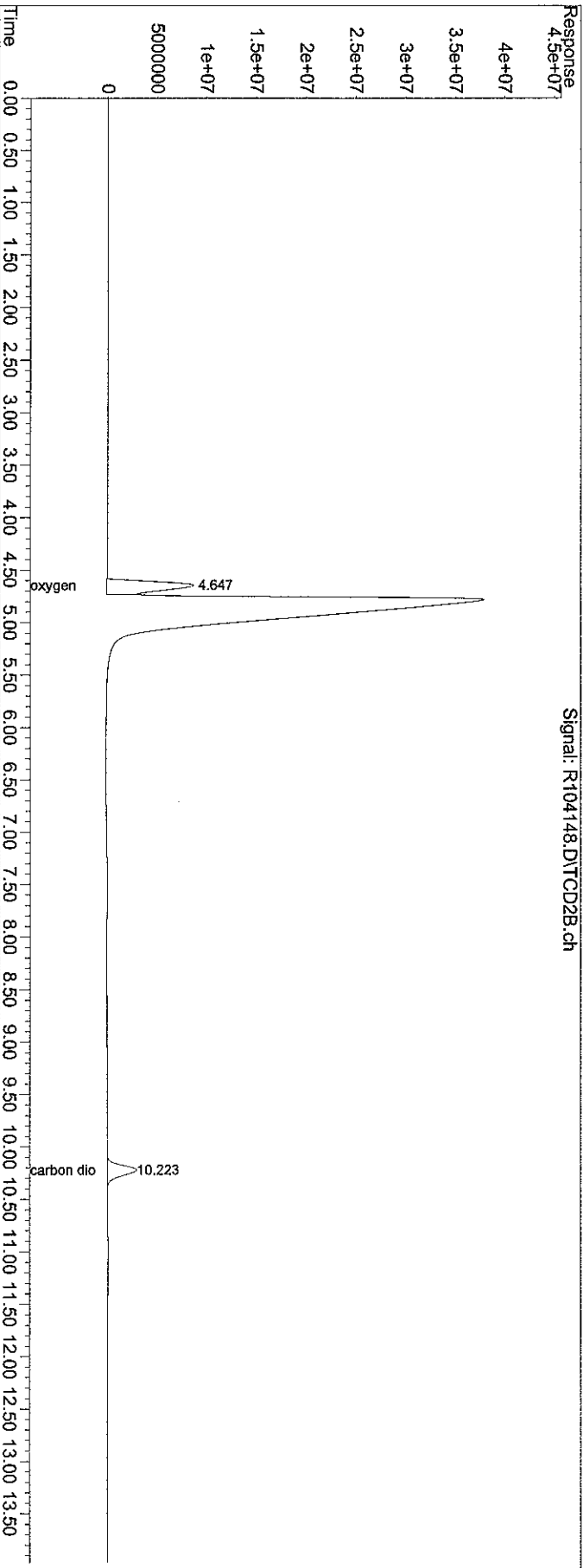
Signal: R104146.D\TCD2B.ch

Sub List : CO2, O2, CH4 - .:report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\101209Fg\
 Data File : R104148.D
 Signal(s) : TCD2B.ch
 Acq On : 9 Dec 2010 10:27 pm
 Operator : airlab10:ry
 Sample : 11018975-07d,4,0.6986,1
 Misc : WG447103,ICAL5222
 ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Dec 10 11:47:22 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 Intj. :
 Signal Phase :
 Signal Info :

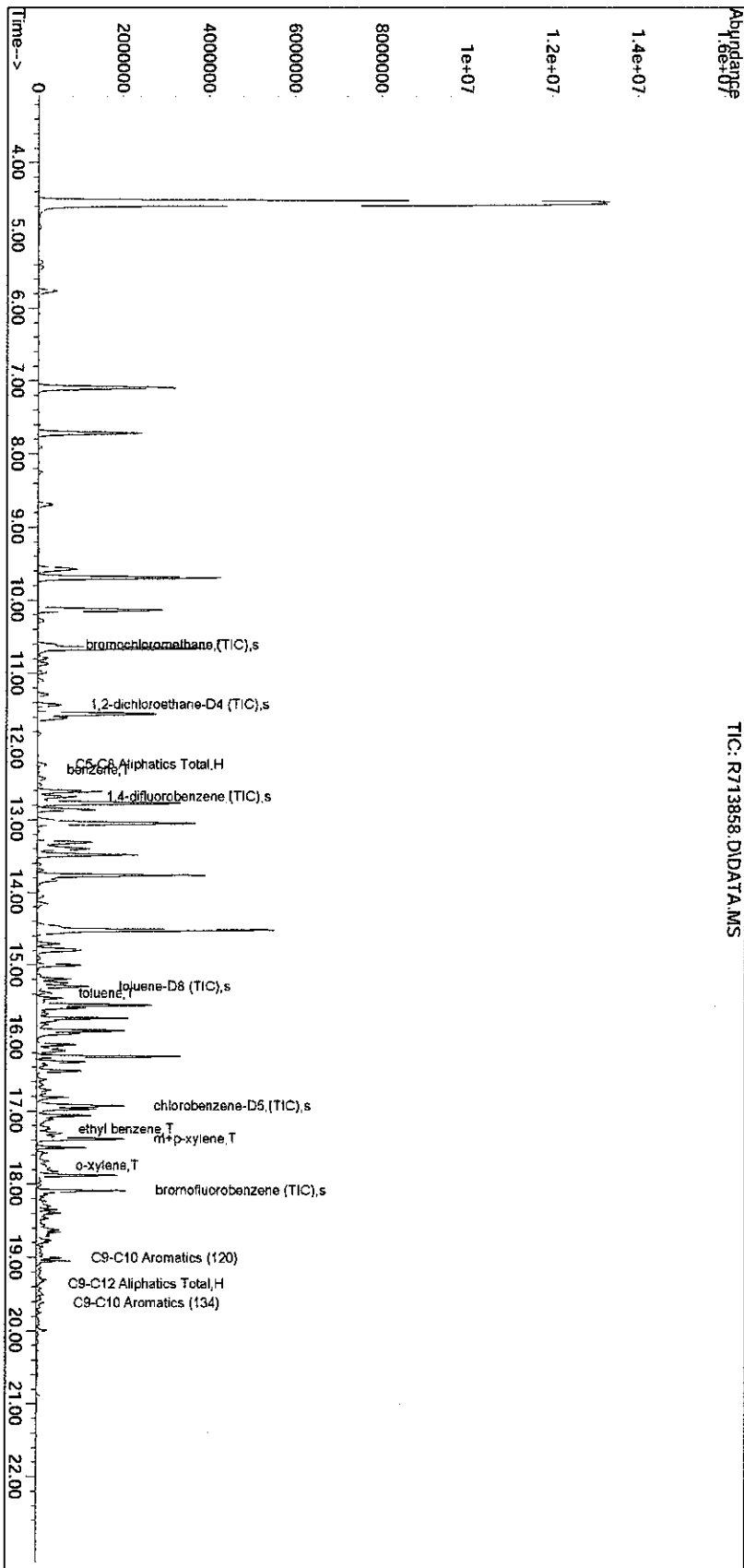


APH

Sub List : APH STD_M - .ion Report (QT Reviewed)

Data Path : O:\Forensics\Data\AirLab7\2010\101202A\
Data File : R713858.D
Acq On : 2 Dec 2010 10:40 pm
Operator : AIRLAB7:RY
Sample : L1018975-01D, 3, 25, 250
Misc : WG445964, ICAL5416
ALS Vial : 10 Sample Multiplier: 1

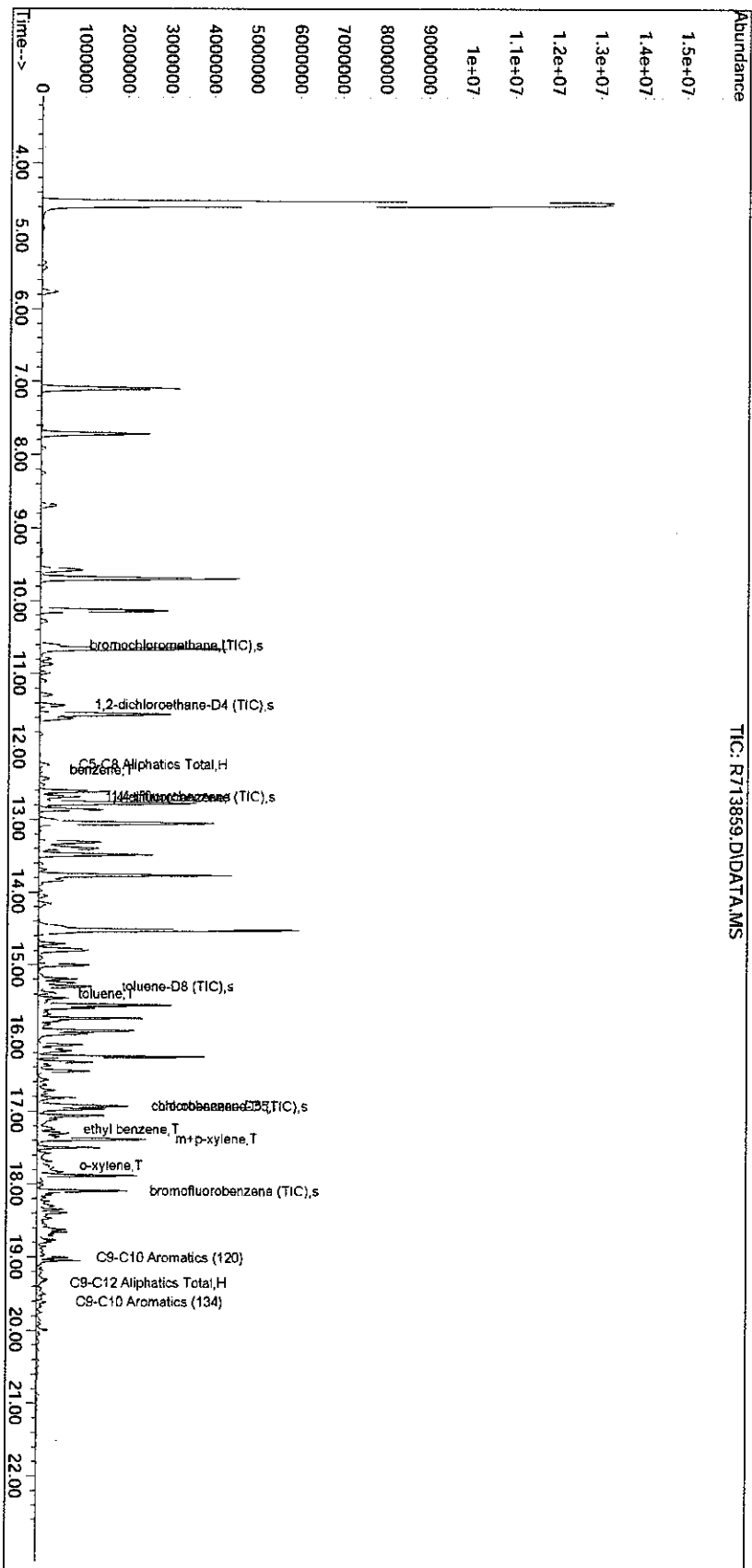
Quant Time: Dec 08 13:19:09 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\101202A\APH101018.M
Quant Title : APH Analysis
Quant Update : Tue Oct 19 09:18:46 2010
Response via : Initial Calibration



Sub List : APH STD_M - .ion Report (QT Reviewed)

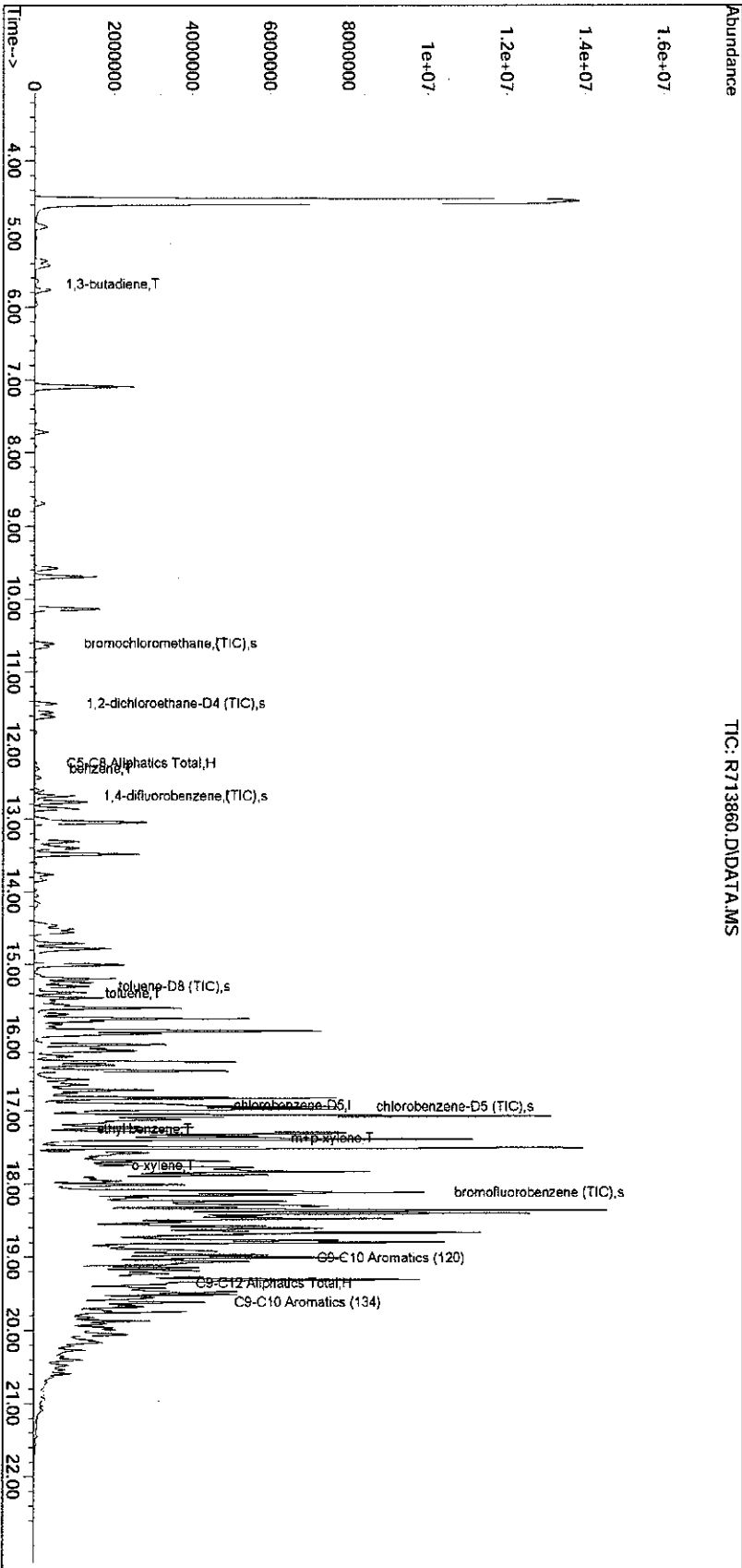
Data Path : O:\Forensics\Data\Airlab7\2010\101202A\
Data File : R713859.D
Acq On : 2 Dec 2010 11:15 pm
Operator : AIRLAB7:RY
Sample : L1018975-02D,3,25,250
Misc : WG445964,ICAL5416
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 08 13:20:05 2010
Quant Method : O:\Forensics\Data\Airlab7\2010\101202A\APH101018.M
Quant Title : APH Analysis
Quant Update : Tue Oct 19 09:18:46 2010
Response via : Initial Calibration



Sub List : APH STD_M - .ion Report (QT Reviewed)

Data Path : O:\Forensics\Data\AirLab7\2010\101202A\
Data File : R713860.D
Acq On : 2 Dec 2010 11:49 pm
Operator : AIRLAB7:RY
Sample : L1018975-03D,3,25,250
Misc : WG445964,ICAL5416
ALS Vial : 12 Sample Multiplier: 1
Quant Time: Dec 08 13:21:16 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\101202A\APH101018.M
Quant Title : APH Analysis
Quant Update : Tue Oct 19 09:18:46 2010
Response via : Initial Calibration



Sub List : APH STD_M - .ion Report (QT Reviewed)

Data Path : O:\Forensics\Data\AirLab7\2010\101202A\

Data File : R713861.D

Acq On : 3 Dec 2010 12:24 am

Operator : AIRLAB7:RY

Sample : L1018975-04D,3,0.1387,250

Misc : WG445964,ICAL5416

ALS Vial : 13 Sample Multiplier: 1

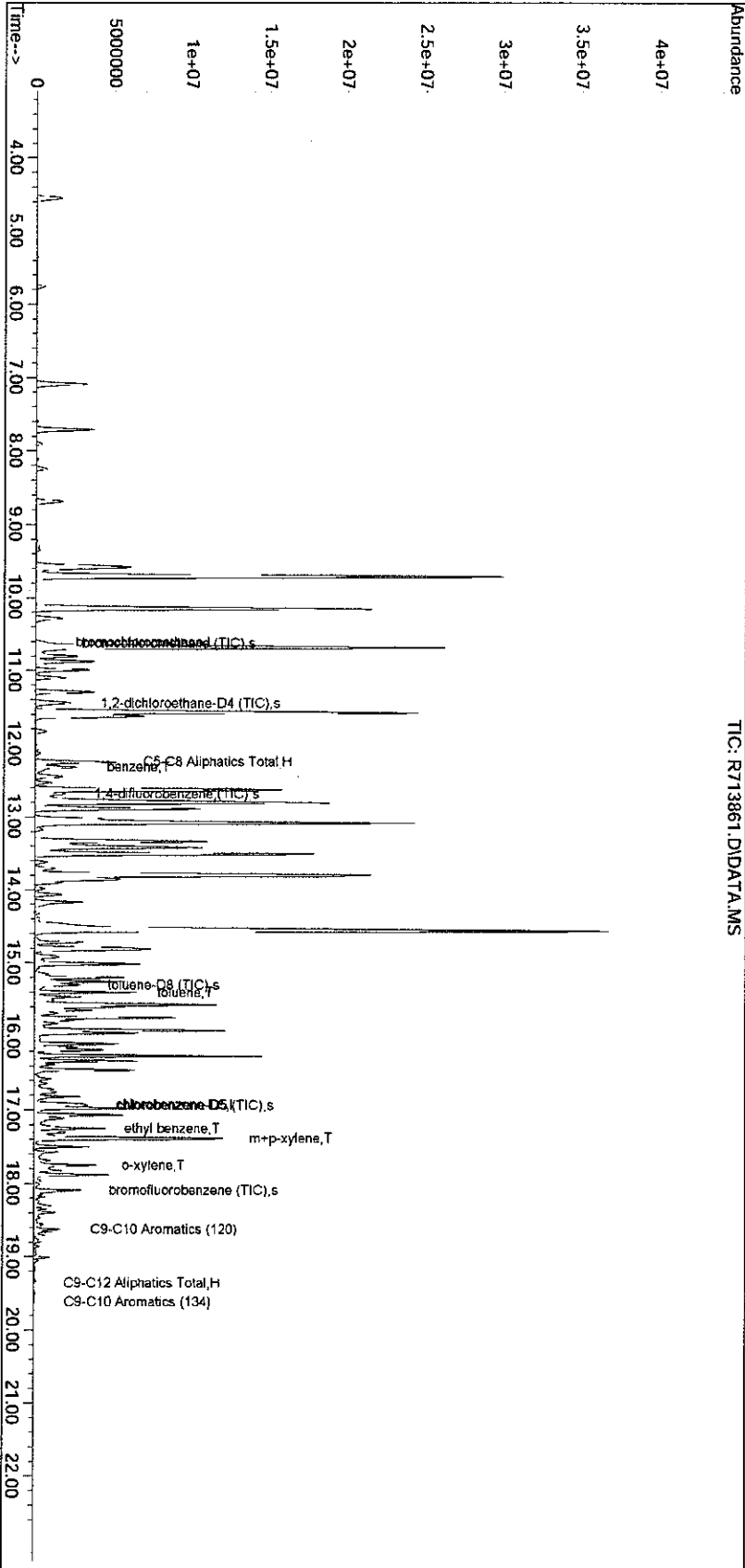
Quant Time: Dec 08 13:22:13 2010

Quant Method : O:\Forensics\Data\AirLab7\2010\101202A\APH101018.M

Quant Title : APH Analysis

Quant Update : Tue Oct 19 09:18:46 2010

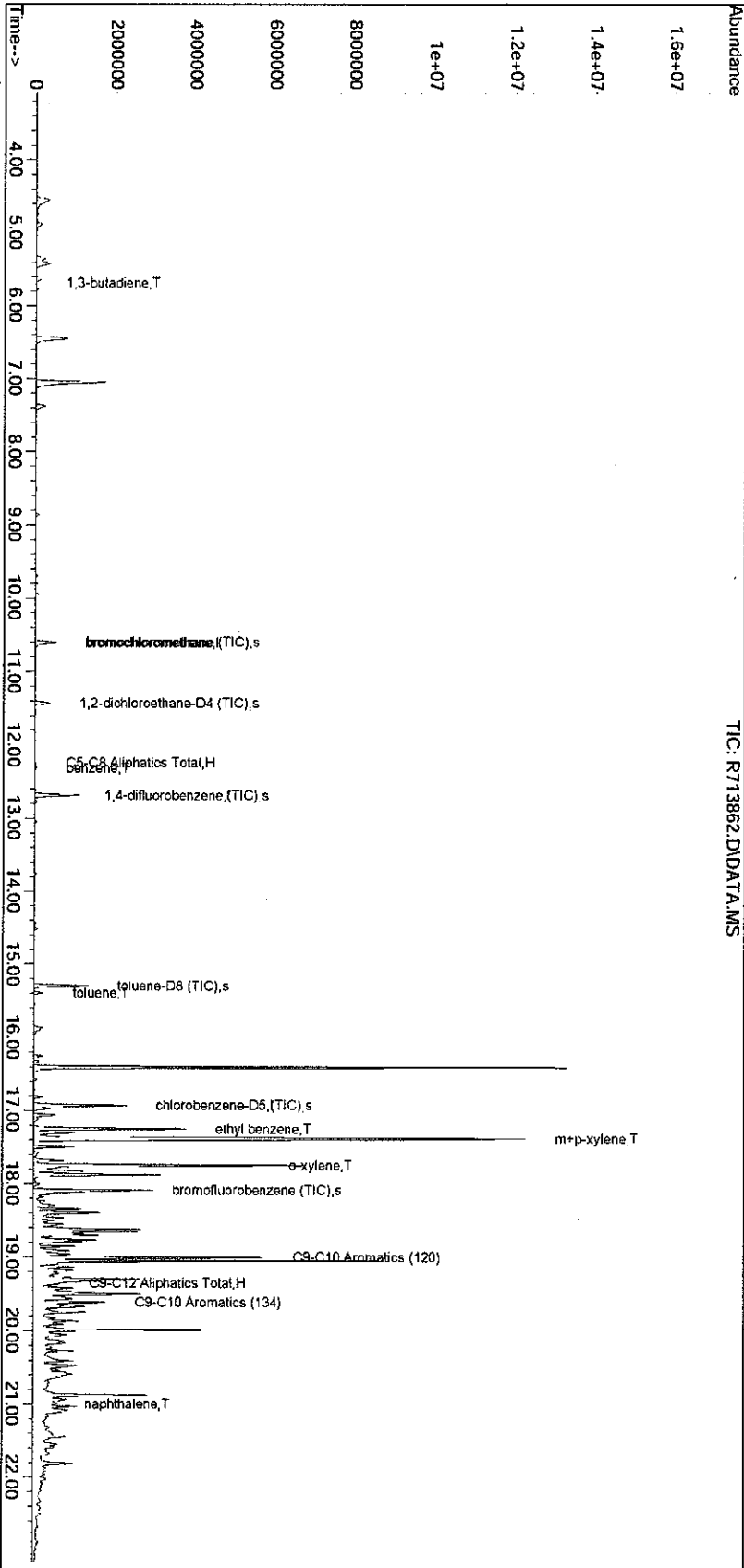
Response via : Initial Calibration



Sub List : APH STD_M - .ion Report (QT Reviewed)

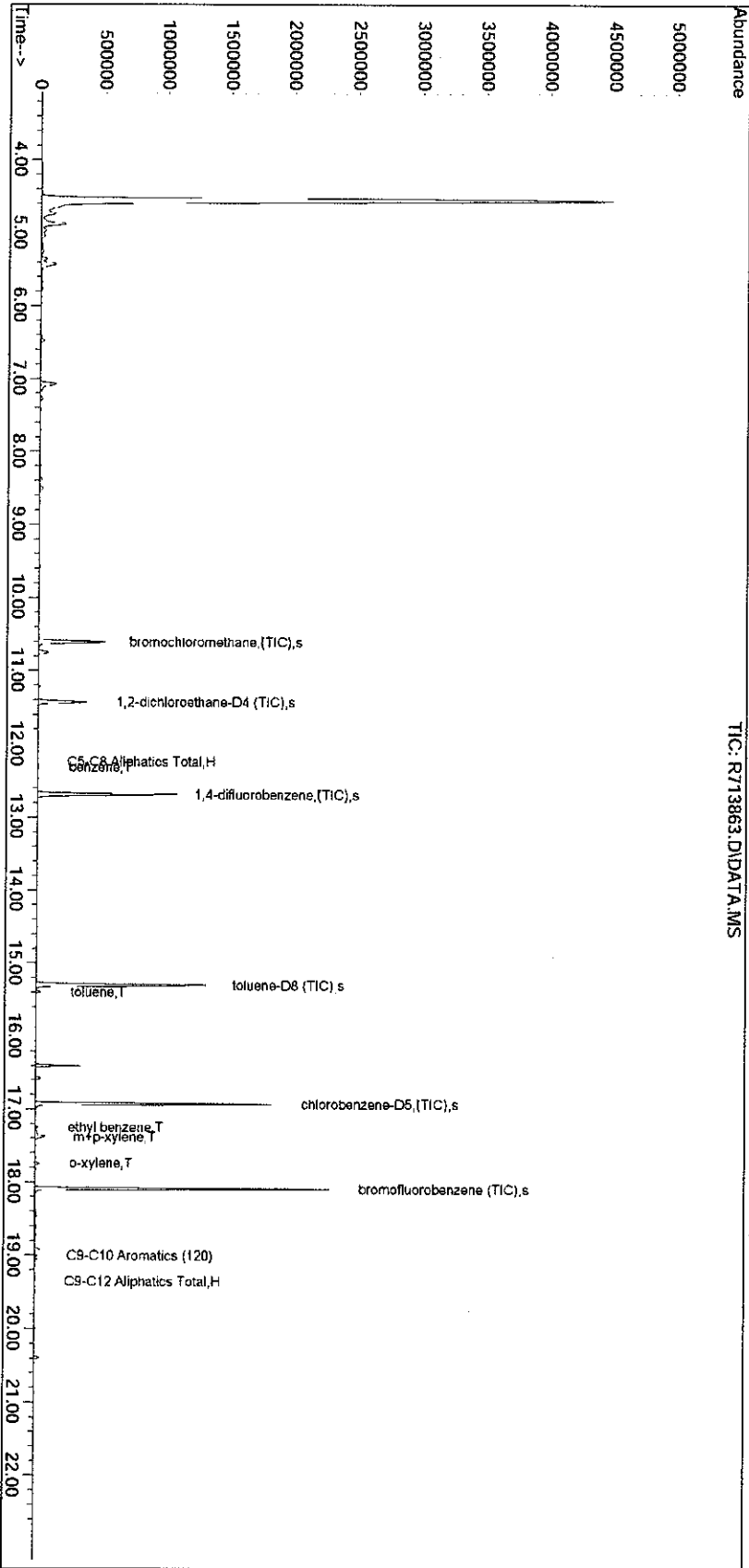
Data Path : O:\Forensics\Data\AirLab7\2010\101202A\
 Data File : R713862.D
 Acq On : 3 Dec 2010 1:00 am
 Operator : AIRLAB7:RY
 Sample : L1018975-05D,3,125,250
 Misc : WG445964,ICAL5416
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 08 13:23:29 2010
 Quant Method : O:\Forensics\Data\AirLab7\2010\101202A\APH101018.M
 Quant Title : APH Analysis
 Quant Update : Tue Oct 19 09:18:46 2010
 Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\AirLab7\2010\101202A\
 Data File : R713863.D
 Acq On : 3 Dec 2010 1:36 am
 Operator : AIRLAB7:RY
 Sample : L1018975-06,3,250,250
 Misc : WG445964,ICAL5416
 ALS Vial : 15 Sample Multiplier: 1
 Quant Time: Dec 08 13:24:02 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



APH101018.M Wed Dec 08 13:24:09 2010

Sub List : APH STD_M - .ion Report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab7\2010\101202A\
Data File : R713864.D
Acq On : 3 Dec 2010 2:11 am
Operator : AIRLAB7:RY
Sample : L1018975-07D,3,25,250
Misc : WG445964,ICAL5416
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 08 13:24:49 2010
Quant Method : O:\Forensics\Data\airlab7\2010\101202A\APH101018.M
Quant Title : APH Analysis
Quant Update : Tue Oct 19 09:18:46 2010
Response via : Initial Calibration

