

Maine DEP Petroleum Vapor Triage Report Phase 2A and 2B

**Cumberland Farms, Inc.
801 Washington Avenue
Portland, Maine**

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Prepared for:

Maine Department of Environmental Protection

Prepared by:



1034 Broadway
South Portland, Maine

John S. Marchewka, C.G., P.G.
MAI Environmental

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SECTION 1. INTRODUCTION AND OBJECTIVES

This report summarizes the vapor intrusion (VI) investigation methods and results pertaining to the Cumberland Farms, Inc. (CFI) Washington Ave Site, Portland, Maine. Three (3) Areas of Concern (AOCs) were identified as part of the Phase 1 Environmental Assessment and are discussed in the following sections. The objectives of the Phase 2A and 2B investigations for the Washington Ave Site were as follows:

- Evaluate vapor concentration in or next to utility conduits that connect to potential receptors; CFI building.
- Collect soil, groundwater and soil gas samples from Areas of Concern (AOCs) to compare source concentrations in the three media to concentrations outside the source areas.
- Collect soil gas samples at 2 ft above the water table at the source areas, and 15ft and 30 ft outside the source areas to evaluate horizontal gradients of soil gas concentrations.
- Collect soil gas samples from in or next to preferential pathways and assess the migration potential for elevated soil gas concentrations to move along those pathways to receptors.
- Collect data during two seasonal events; once during the summer (September) and once during the winter (December/January) months to compare concentrations between sampling events.

SECTION 2. SITE BACKGROUND

The Washington Ave. CFI Site is located at 801 Washington Ave in Portland, Maine and is approximately 0.75 acres in size. The lot is occupied by a single story building, constructed on a concrete slab, which is used for CFI's convenience store. Presently there is a four-dispenser fueling pad covered by a canopy located on the south portion of the property next to Washington Ave. Three 8,000 gal gasoline USTs are located in the eastern portion of the property.

The Site is bound to the northeast by a Portland Fire Department Engine 11 Fire Station. The Site is abutted to the southeast by Ocean Ave. beyond which is a barber shop and residential (multifamily) property. The Site is bound to the southwest by commercial property that houses a driving school and smoke shop and residential (multifamily property). To the northwest of the property is a professional office building (law office). Directly South of the property is the intersection of Washington Ave and Ocean Ave. beyond which is a pizza restaurant (Angelones). Directly north of the Site is residential property. **See Figure 1 Site Location Map and Figure 2 Site Map**, which are located in the back of this report.

The following Recognized Environmental Conditions (RECs) were identified from the previously completed ASTM 1527-05 Phase 1 Environmental Assessment:

- The documented property ownership and property use prior to Cumberland Farms (1947-1983) as a gasoline Service Station is considered a REC.
- Current use of the property (gas station) since 1983 is considered a REC.

- Documented soil removal in 1996 and documented impacted soil remaining on the property following remediation is considered a REC.
- The documented historical abutting property ownership and past use as a filling station along with reported releases and subsequent remediation southwest of CFI (Smoke Shop, formerly Angies) is considered a REC.
- The vapor encroachment screen (VES) resulted in a determination that a vapor encroachment concern (VEC) *Likely Exists*. The determination is based on the Site's historical use, the documented subsurface impacts that reportedly intersect subsurface utility (water, sewer) lines (significant preferential pathway) serving the Site, which would result in a VEC.

The identified RECs have been evaluated with regard to potential source areas for VI at the CFI Site and have resulted in three (3) AOCs, which are described below:

1. AOC-1 Area of Existing and Former Dispenser Islands -Records indicate that at least three generations of pump islands have existed at the Site, all located in AOC-1 (see Figure 1). In the 1960s, three dispensers were located in AOC-1, one on the east side of the property, one where the existing dispenser island is now and one just south of the existing dispenser island. In the mid 1980s the property changed hands and CFI replaced the older pump islands with one four dispenser island at the location of the existing island. No records were found related to environmental conditions during the pump island replacement in the mid 1980's. In 1996, CFI replaced (up graded) the piping and dispenser island. During that replacement, petroleum impacted soil was discovered beneath each of the four dispensers. The MEDEP set a clean-up goal of Base Line 2 and a soil removal action level of 500 PPM on a photoionization detector (PID). Excavation of impacted soil was performed and approximately 378 tons of impacted soil was removed in the area of the dispenser-island and piping. An assessment report prepared by Hull & Associates of Gardiner, Maine indicated that impacted soil excavation extended in depth to one foot below the water table. The water table is approximately five feet below ground surface. The area excavated is shown on Figure 2. CFI in cooperation with the MEDEP installed a soil vapor extraction (SVE) system to address residual petroleum impacts related to the release from the dispensers and piping. The location of the soil vapor extraction system in shown on Figure 2. No records were found on the operation or effectiveness of the SVE system. Following installation of the SVE system, a follow-up subsurface investigation was performed to delineate residual impacts to soil and groundwater. A series of test pits, soil borings and piezometers were completed. Three underground utilities that connect to the CFI building cross AOC-1 in the southwest-northeast direction originating in Washington Ave. Two are active (water and sewer) and one is believed to be inactive (underground electric). During the Phase 1 environmental assessment, MAI observed overhead electric entering the northern portion of the CFI building, however historical maps show underground electric crossing from Washington Ave., through AOC-1 and AOC-3 and entering the northeast corner of the CFI building. Previous investigations indicate that construction gravel and old concrete slabs were encountered during test pitting and soil boring work in the AOC-1 area. The old concrete slabs are likely remnant pump islands from the 1960s.

2. ***AOC – 2 Area of Existing and Former Gasoline USTs*** – AOC-2 is located in the eastern portion of the Site and is the location of USTs that existed in the 1950s. In addition, AOC-2 is the location of the present USTs that serve CFI. A portion of AOC-2 was included in the excavation that occurred during the piping and dispenser island replacement in 1996. There has been limited investigation in this area, except for soil samples collected from shallow depths during the closure assessment work associated with the piping removal. Investigation of AOC-2 would be limited at this time by the presence of the existing USTs and pad. The former underground electric line and sewer service run close to the western side of AOC-2, between the AOC-2 and the CFI building. The SVE system that was installed in 1996 has a solid PVC suction line that runs through AOC-2 then connects to a perforated intake line that extends south into AOC-1.
3. ***AOC – 3 Area of Former Gasoline USTs*** – AOC-3 is located on the eastern side of the Site, north of AOC-2. This area of the Site was the location of six former gasoline USTs in the 1960s. The east side of AOC-3 is adjacent to Ocean Ave. A Fairpoint underground fiber optic utility conduit runs northeast southwest along Ocean Ave. and adjacent to AOC-1, AOC-2, and AOC-3. The sewer service and former underground electric line both cross AOC-3 close to the CFI building.

1.3 Underground Utilities as Preferential Pathways

The Site and surrounding area are served by public water and sewer provided by the Portland Water District. Figure 2 shows the utility information that is known at this time. Underground utilities at the Site consist of:

- **Sewer pipeline** – The CFI building’s sewer service is connected to the northeast side of the building and runs from Washington Ave., crossing AOC-1 and AOC-3. Three clean-outs exist along the sewer service between Washington Ave. and where the service pipe enters the building (see Figure 2).
- **Water** – Water service to the building enters the Site from Washington Ave. and connects to the south side of the building. The water service pipe and conduit crosses AOC-1, but its exact location was not determined.
- **Natural Gas** – Natural gas enters the north side of the building and is connected to a main line along Ocean Ave., east of the Site. The gas line does not cross presently known AOCs.
- **Telephone** – A Fairpoint underground fiber optic conduit runs along Washington Ave and Ocean Ave. Telephone service to the CFI building was observed to enter from overhead during the Phase 1 assessment, but might have historically connected to the building underground.
- **Underground Electric** – As indicated previously, electric service was observed to connect to the CFI building overhead during the Phase 1 assessment, however historical maps indicate that an underground electric line enters the property from Washington Ave., crosses AOC-1 and AOC-3 before entering the building’s northeast corner next to the sewer line.
- **UST Vent Pipes** – UST vent pipes are located on the southeast side of the building and are connected to the existing USTs.
- **Dispenser Electrical Conduits** – The electrical conduits from the existing dispenser island enter the southeast corner of the building.

- SVE System Piping – The SVE system was installed for the purpose of extracting elevated petroleum vapor for remediation of residually impacted soil and groundwater. This conduit was installed at a depth of four feet (one foot above the water table) and backfilled with pea gravel. The SVE piping extends from the southeast corner of the building through AOC-2 and AOC-3 and extends east-west across AOC-1.

SECTION 3. SCOPE OF WORK

The scope of work for the Phase 2A and Phase 2B investigations was outlined in two study plans dated August 16, 2010 and December 6, 2010, respectively. The combined scope of work for Phase 2A and Phase 2B included the following:

- Completion of 15 direct-push borings. Soils were logged and field screened using a PID. Borings were designated B1 – B15.
- Installation of seven (7) monitoring wells (MW1 – MW7).
- Installation of 18 soil gas implants (SG1 – SG3 and SG5 – SG19). Note: There is no SG4:
 - 12 soil vapor implants were installed using MAI's Geoprobe drill rig (SG1, SG5, SG6, SG8, and SG12-19).
 - Three (3) soil gas implants were installed into utility conduit backfill using hand installation methods where visual confirmation of the utility line was obtained (SG9, SG10, and SG11).
 - Three (3) soil gas implants were installed into utility conduit backfill using hand installation methods where visual confirmation of the utility line was not obtained; third party locate (SG2, SG3, and SG7).
- Collection and laboratory analysis of three (3) soil samples for VPH (MADEP Method VPH 04 1.1); B1 (5-7'), B3 (5-7') and B5 (5-10').
- Elevation survey of monitoring wells and depth to groundwater measurements. Preparation of a groundwater contour map.
- Collection and laboratory analysis of nine (9) groundwater samples for VPH (MADEP Method VPH 04 1.1): MW1, MW2, and MW3 on 9/7/10, and MW3 and MW7 on 12/30/10 and MW1, MW2, MW4, and MW5 on 1/10/11.
- Collection and laboratory analysis of six (6) groundwater samples for VOCs (EPA Method 8260B chlorinated VOCs only): MW3 and MW7 12/30/10 and MW1, MW2, MW4, and MW5 on 1/10/11. All groundwater VOCs by EPA 8260 were non-detect, therefore not shown in groundwater results table in Appendix 1.
- Collection and laboratory analysis of 17 soil gas samples from the above soil gas sampling points for:
 - Targeted chlorinated VOCs by EPA method TO-15,
 - Air petroleum hydrocarbons in air (APH) by Massachusetts DEP's Air-Phase Petroleum Hydrocarbons (APH) method, Rev1 December 2009, and
 - fixed gases oxygen, carbon dioxide and methane (O₂, CO₂ and CH₄)Note: 7 soil gas samples were collected in September 2010 and 10 were collected in December 2010/January 2011.

SECTION 4. METHODOLOGY

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

4.1 General Methodology

The Washington Ave Site has three source areas that were addressed as part of the investigation. AOC-1 represents the area of the existing dispenser island, AOC-2 represents the area of the former USTs removed in 1957 and existing USTs, and AOC-3 represents the area of former USTs removed in 1967. The general approach was to collect co-located soil, groundwater, and soil gas samples from as close to the known or suspected source areas as possible given the required set-back distances. From there, lateral migration was assessed by stepping out approximately 8, 15, 22 and 30 ft (depending on the location) with additional co-located samples for soil, groundwater and soil gas. Vertical soil gas gradients were not assessed, because the depth to groundwater is only 5 ft bgs.

Four underground utilities, or preferential pathways of concern were investigated; the sewer line where it enters the Site from Washington Ave, the water line where it enters the Site from Washington Ave, the Fairpoint fiber optic conduit along Washington Ave, and the sewer service line close to where it enters the CFI building.

The Fairpoint fiber optic conduit was addressed at three soil gas implants (SG9, SG10, and SG11) along the edge of Washington Ave. Based on discussions with Fairpoint personnel, the conduit was installed by laying the fiber optic cables along an excavated trench approximately 4 ft deep. Forms were set along the edges of the trench, then concrete was poured into the forms to protect the cables from damage. The top of the concrete is approximately two feet below grade. The concrete encasement was backfilled with sand and road base gravel. Three (3) soil gas implants were installed at a depth of 3.5 ft directly next to (in contact with) the protective concrete encasement based on visual confirmation of the concrete encasement. Visual confirmation means that hand coring and vacuuming were performed at each implant location to the extent that the conduit became visible. Due to heavy precipitation during the prior two days before the implants were installed, the augered hole quickly became saturated with water half way up the concrete encasement (within 2.5 ft of ground surface). MAI installed the soil vapor implants recognizing that the implants would be below the water, but based on nearby water level depths, it appeared that the water around the conduit was perched and would likely recede over time, equilibrating to the surrounding water table depth (5 ft bgs).

The sewer line that enters the Site from Washington Ave was addressed with one soil gas implant (SG2). The sewer line was located based on a third party locate and SG2 was hand augered to a depth of 4 ft bgs on top of where the sewer line was marked. Visual confirmation of the actual sewer pipe was not made.

The water line that enters the Site from Washington Ave was addressed with one soil gas implant (SG3). The location of the water line was located based on a third party locate and SG3 was hand augered to a depth of 4.5 ft bgs on top of where the water line was marked. Visual confirmation of the actual water pipe was not made.

The sewer service line where it enters the east side of the CFI building was addressed with one soil gas implant (SG7). The sewer line was located based on a third party locate and SG7 was hand augered to a depth of 3.5 ft bgs on top of where the sewer service line was marked. Visual confirmation of the actual sewer pipe was not made. Utility depth by a third party estimated the utility at 9-11 ft below grade in the area of SG2.

One near slab soil gas implant (SG6) was installed next to the east side of the building between AOC-3 and the building.

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

4.2 Sample Collection and Testing Methodologies

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

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

Soil and groundwater samples were submitted to Analytics Environmental Laboratory LLC, via Maine Environmental Laboratory in Yarmouth, Maine, for analysis of VPH and targeted VOCs (GW only). A trip blank accompanied all groundwater samples.

Soil gas samples were submitted to Alpha Analytical, Mansfield, Massachusetts for analysis of chlorinated organic compounds (targeted VOCs by TO-15), petroleum hydrocarbons (APH) and fixed gases. Field data sheets for soil gas sampling are in **Appendix 3, Sampling Field Data Sheets**.

Soil analytical results were compared to Table 5, Tier 2 Risk-Based Soil Remediation Guidelines for Petroleum Target Compounds and Hydrocarbon Fractions, in *Remediation Guidelines for Petroleum Contaminated Sites in Maine*, effective December 1, 2009 (referred to hereafter as OCW Guidelines).

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

- Maine Centers for Disease Control, Maximum Exposure Guidelines for drinking water, December 5, 2008, (MEGs),
- Massachusetts Contingency Plan Method 1 Groundwater Standards, Table 1, GW-2 Standards (310 CMR 40.0974(2)), which apply to groundwater that is considered a potential source of indoor air contamination, and
- Note: MEDEP Draft Groundwater Vapor Intrusion Screening Levels for the Chronic Commercial Scenario are presented in the groundwater results table (Table 6) in Appendix 1, however for this report, MAI has not used the MEDEP Draft Screening Levels for discussion or comparison, as we understand the screening levels are under review at the MEDEP.

Soil gas analytical results were compared to MEDEP's Soil Gas Target concentrations (SGT), which are calculated by applying a 50 times factor to the MEDEP Indoor Air Target (IAT) concentrations in Table B6, Indoor Air Targets for Chronic Commercial Scenario (ug/m3) –

1/14/2010 Interim Final for Multi-Contaminant Sites, in *MEDEP Vapor Intrusion Evaluation Guidance, January 13, 2010*.

Complete laboratory reports are in **Appendix 4, Laboratory Reports**. Laboratory data is summarized in **Tables in Appendix 1, Figures and Tables**.

SECTION 5. RESULTS

5.1 Quality Assurance

Samples were collected in a consistent manner that represented the contaminant concentrations in the media sampled. Field monitoring of O₂, CO₂, and methane was performed on soil gas samples to compare to the laboratory fixed gases concentrations of O₂, CO₂, and methane. In addition, ambient air O₂ and CO₂ were collected to compare to soil gas O₂ and CO₂ to assist in determining whether or not short-circuiting occurred between the subsurface soil gas and the above ground air during soil gas purging and sampling. The field and laboratory fixed gases data are presented in **Table 3, Fixed Gas Data, Appendix 1.**

There were no duplicate samples collected at the Washington Ave Site for quality assurance purposes.

The difference between the ambient O₂ and CO₂ concentrations and the soil gas O₂ and CO₂ concentrations varied across all the sample locations. The soil gas O₂ concentrations were in each case lower than the ambient O₂ concentrations and the CO₂ soil concentration were in each case higher than the ambient CO₂ concentrations. These data are consistent with what would be expected from comparing ambient air and soil gas from petroleum contamination in the subsurface. Methane (CH₄) was detected in field analyses of soil gas samples at 11 locations; ranging from 2% of the LEL at SG6 to 100% of the LEL at SG1, SG2, SG3, SG4, and SG11. Where CH₄ was detected with the field instrument, the laboratory fix gas concentration for CH₄ was 30 to 70% lower. In all cases where field CH₄ was detected, the laboratory confirmation of CH₄ was lower.

5.2 Soil Samples

Three (3) source area soil samples were collected and tested for VPH; B1 (5-7'), B3 (5-7') and B5 (5-10'). The three samples were collected during the August 2010 field work and none of the samples revealed petroleum concentrations that exceed DEP remediation guidelines for Outdoor Commercial Worker (OCW) scenario. In addition, no RLs exceeded the remediation guidelines. Soil testing results are included in **Table 4, Soil Analytical Results, Appendix 1.**

5.3 Groundwater

Groundwater elevations were measured in eight (8) monitoring wells (MW1 – MW7 and P7) on 12/15/10. Depth to groundwater ranges from 3.51 ft bgs at MW6 to a 5.90 ft bgs at MW3. The maximum ground water elevation change across the Site is 1.76 ft. Using the groundwater elevation data collected, groundwater flow direction is southerly towards the intersection of Washington Ave and Ocean Street. **See Table 5, Groundwater Elevations, and Figure 2, Site Map showing Groundwater Contours, Appendix 1.**

MEDEP Draft Groundwater Vapor Intrusion Screening Levels for the Chronic Commercial Scenario are presented in the groundwater results table (Table 6) in Appendix 1, however for this report, MAI has not used the MEDEP Draft Screening Levels for discussion or comparison, as we understand the screening levels are under review at the MEDEP.

A total of nine (9) groundwater samples from six (6) monitoring wells were collected for laboratory testing during the September 2010 and December 2010/January 2011 sampling

events. MW1, MW2, and MW3 were collected in September 2010. MW3 and MW7 were collected in December 2010 and MW1, MW2, and MW4 were collected in January 2011. The analytical results, along with regulatory guidelines are shown in **Table 6, Groundwater Analytical Results, Appendix 1**.

Of the six (6) monitoring wells sampled, four (4) had petroleum concentrations that exceeded the Maine Exposure Guidelines (MEGs) for drinking water: MW1 and MW2 for both the September 2010 and January 2011 sampling events, MW3 for both the September and December 2010 sampling events, and MW4 for the January 2011 sampling event. Only one well (MW3 – September 2010, only) showed petroleum concentrations exceeding the MA GW2 standards for groundwater that is considered a potential source of indoor air contamination. C5-C8 aliphatics in MW3 (3,100 ug/l) exceeded the MA GW2 standard of 3,000 ug/l. MW1, MW3 and MW4 are located inside the known source areas and MW4 is located downgradient of AOC-2.

5.4 Soil Gas

Seventeen (17) soil vapor samples were collected during the Phase 2A and Phase 2B field investigations and submitted for laboratory analysis of APH, a list of chlorinated organic compounds by EPA Method TO-15, and fixed gases. The soil gas analytical results are summarized in **Table 7, Soil Gas Analytical Data, Appendix 1**. The results are compared to MEDEP Soil Gas Target (SGT) concentrations in Table 7.

As shown in Table 7, seven (7) locations that were planned for sampling during the January 2011 sampling event were not collected. There was insufficient air flow during the January 2011 sampling event.

Targeted VOCs by TO-15 analysis showed low level concentrations of PCE in four (4) of the 17 samples tested. Trichloroethene was also detected at a low concentrations in one (1) sample, SG15. The PCE and trichloroethene concentrations were all well below the SGTs. **Note:** Due to the high levels of APH compounds and fractions detected in five (5) of the soil gas samples (SG1, SG2, SG3, SG5, and SG8), the laboratory reporting limits (RLs) for those samples were greater than the SGTs for the chlorinated VOCs and some of the APH compounds. Therefore, it is possible that chlorinated VOCs and some APH compounds were present in the sample at levels less than the RLs. VOCs were not detected in any of the groundwater samples.

APH compounds were detected in all 12 of the soil gas implants sampled on at least one of the sampling dates. Of the 12 soil gas implants sampled, seven (7) locations had one or more APH compound or fraction exceeding the SGTs. The highest APH concentrations were in source area samples, SG1, SG2, and SG3 located in AOC-1 and SG5 located in AOC-3. For AOC-1, total APH fractions ranged from 27 million ug/m³ in SG1 on 9/7/10 to 5.2 million ug/m³ in SG3 on 1/10/11. For AOC-3, SG5 showed a total APH fractions concentration of 31 million on 9/7/10. A significant drop in concentrations can be seen at the above locations from the summer sampling event to the winter sampling event. For example, total APH fractions concentration in

SG1 dropped from 27 million ug/m³ in September to 5 million ug/m³ in January, SG3 dropped from 24.7 million ug/m³ in September to 5.2 million in January, and SG5 had the most significant drop. SG5 dropped from 31 million ug/m³ in September to just 28 ug/m³ in January. No sample was collected from SG2 in the winter sampling event. The same pattern was observed in SG8, which is located just downgradient of AOC-2. Total APH fractions concentration in SG8 dropped from 1.2 million ug/m³ in September to non-detect in January. These seasonal changes in APH soil gas concentrations are significant in magnitude and consistency and suggest the possibility of Site specific variations to petroleum migration in soil gas related to variables such as temperature, air viscosity, frozen ground, ground water level in relation to impacted soil, and groundwater dilution. For each of the above locations, MAI reviewed depth of impacted soil, depth to water in relation to the impacted soil zone, and purge data collected during the sampling events. A summary of the data reviewed is provided below:

Co-located Sample Points	Sample Date	Depth of Impacted Soil (ft, bgs)	Implant Depth (ft, bgs)	Depth to Water (ft, bgs)	Purge Data Flow (ml/min)/ Vac (inches H ₂ O)	Total APH Fractions Concentration (ug/m ³)
SG1/B1/MW1	9/7/10	2-7	4-4.5	6.41	200/-0.5 (O.R.)	26,900,000
	1/10/11	2-7	4-4.5	5.92	200/-0.30	4,929,300
SG3/B3/MW1 (no co-located well)	9/7/10	2-6.5	4-4.5	6.41	200/-0.80	24,710,000
	1/10/11	2-6.5	4-4.5	5.92	200/-0.10 w/ spikes to -0.50	5,258,100
SG5/B5/MW3	9/7/10	5-10	4-4.5	7.58	200/-0.10	31,076,000
	12/30/10	5-10	4-4.5	6.05	200/-0.05	28
SG8/B4/MW2	9/7/10	5-12	3.5-4	6.38	200/-0.5 (O.R.)	1,200,000
	1/10/11	5-12	3.5-4	5.67	200/-0.14	ND

Purge data including flow and vacuum levels do not show a pattern of change from September to December/January that would suggest a reason for the concentration drops. Although the water levels were ½ to 1 ft higher in the December/January sampling event, the top of the water table remained below the top of the impacted soil identified during the boring program. The data reviewed provides no compelling evidence for the decrease in concentration from September to December/January. Additional investigation would be needed to better understand the significance of these findings.

Horizontal migration or horizontal concentration gradients can only be analyzed from a limited data set, because a number of soil gas implants could not be sampled due to lack of air flow in December and January. The following source and step-out soil gas implants in AOC-3 have been reviewed with regard to horizontal migration:

SG5 Source Location
SG13 7.5 ft Step-out
SG12 15 ft Step-out
SG15 22.5 ft Step-out
SG14 40 ft Step-out (sample not obtained, due to insufficient air flow)

SG5 was installed in September 2010 and sampled in September and December. SG13, 12, 15, and 14 were all installed in December 2010, therefore were only sampled December 2010, with the exception of SG14, which could not be sampled (see above).

For the December 2010 sampling event there is little change in APH concentrations between the source (SG5) point to the step-out points further away. Review of total APH fractions concentration for each soil gas point indicates the following concentrations:

SG5 Source Location	Total APH Fractions Concentration = 28 ug/m ³
SG13 7.5 ft Step-out	Total APH Fractions Concentration = 308 ug/m ³
SG12 15 ft Step-out	Total APH Fractions Concentration = 154 ug/m ³
SG15 22.5 ft Step-out	Total APH Fractions Concentration = 162 ug/m ³
SG14 40 ft Step-out (sample not obtained, due to insufficient air flow)	

Due to the relatively low APH concentrations from the December 2010 sampling event, no definitive conclusions can be drawn from the data on horizontal migration of soil gas contaminants. It should be noted that the total APH fractions concentration of SG5 (source location) was 31,076,000 ug/m³ in September 2010.

Comparing SG5's September 2010 high concentration to SG6 (15 ft away) and SG7 (30 ft away) indicates a sharp drop of in concentrations. The total APH fractions concentration for SG6 in September 2010 was 84 ug/m³ and for SG7, the concentration was 64 ug/m³. However, the sewer service line runs between SG5 and SG6. SG7 was installed into the sewer service line backfill as a preferential pathway implant. Therefore, utilizing SG6 and SG7 may be of limited use as step-out locations to SG5 (source area location).

Additional soil gas implants were installed around AOC-1 along Washington Ave, which were targeted for horizontal migration analysis, however, due to the problems with collecting samples in that area during the December/January sampling event, insufficient data exists at this time to analyze the data for soil gas migration.

There were no sub-slab implants or soil gas samples collected from beneath the CFI building.

One near slab implant was installed (SG6) on the east side of the building at AOC-3. A soil gas sample was collected from SG6 on 9/7/10 and the results showed that APH compounds and fractions and targeted VOCs by TO-15 were below the SGTs.

Six (6) implants were installed to assess utility conduits at the Site.

SG7 was installed in the sewer service line backfill on the east side of the building and the APH and VOCs by TO-15 results showed that SGTs were not exceeded. SG7 was installed by hand auger, based on a third party locate (visual confirmation of pipe not obtained).

SG3 targeted the water service line entering from Washington Ave, which is also in a source area (AOC-1). The implant was installed by hand auger based on a third party locate (visual confirmation of pipe not obtained). High levels of APH compounds and fractions were detected in SG3 for both the September 2010 and January 2011 sampling events. Total APH fractions were 24.7 million ug/m³ in September 2010 and 5.2 million ug/m³ in January 2011, well over the SGTs. The co-located soil sample (B3, 5-7') to SG3 showed concentrations for VPH compounds and fractions, but the concentrations did not exceed the MEDEP remediation guideline for Outdoor/Commercial Worker category. There was no co-located monitoring well to SG3, however MW1, located approximately 40 ft to the west of SG3 showed elevated VPH. The elevated soil gas concentrations in SG3 appear to be most impacted by the contaminated groundwater at that location.

SG2 targeted the sewer line where it enters the Site from Washington Ave, and as is the case with SG3, SG2 is within a source area (AOC-1). SG2 was installed by hand auger based on a third party locate (visual confirmation of pipe not obtained) and sampled on 9/7/10 only. The total APH fractions concentration for SG2 was 8 million ug/m³ and well over the SGTs. There was no co-located soil or groundwater sample analyzed at the location of SG2. A third party estimated the depth of the sewer line at 9-11 ft below grade, so at best SG2 represents soil vapor in the backfill over the sewer line.

Three (3) soil gas implants (SG9, SG10, and SG11) were installed along the Fairpoint fiber optics cable conduit along the edge of Washington Ave by hand auger methods. SG11 was the only implant that was able to be sampled during December/January sampling event. The fiber optic cables are encased in concrete and the implants were installed directly next to (in contact with) the concrete encasement at a depth of 3.5 feet. SG17 was co-located to SG11 and SG19 was co-located to SG10 to compare soil gas concentrations in the conduit backfill vs. 2 ft away from the conduit. Soil gas samples were not able to be collected from all the "in contact with" conduit implants and co-located implants during the December/January sampling event, such that a comparison of concentrations could be made. The only "in contact with" conduit sample collected was SG11 and the APH results showed benzene (2,900 ug/m³) and C5 – C8 aliphatics (41,000 ug/m³) exceeding the SGTs. SG19 was the only co-located soil gas implant next to the Fairpoint utility conduit that was able to be sampled, however it is co-located to the "in contact with" conduit sample SG10, which was not sampled. The results of the APH testing for SG19 showed C5 – C8 aliphatics (52,000 ug/m³) exceeding the SGTs. SG19 is approximately 20 ft from the "in contact with" conduit sample SG11 that was sampled.

SECTION 6. CONCLUSIONS/RECOMMENDATIONS

Soil

- The results of the VPH analysis on soil samples from B1 (5-7'), B3 (5-7') and B5 (5-7') did not exceed the Outdoor Commercial Worker remediation guidelines (*Remediation Guidelines for Petroleum Contaminated Sites in Maine, December 2009*), according to laboratory analytical data.

Groundwater

- Groundwater elevations were measured in eight (8) monitoring wells (MW1 – MW7 and P7) on 12/15/10. Depth to groundwater ranges from 3.51 ft bgs at MW6 to a 5.90 ft bgs at MW3. The maximum ground water elevation change across the Site is 1.76 ft. Using the groundwater elevation data collected, groundwater flow direction is southerly towards the intersection of Washington Ave and Ocean Street.
- Of the six (6) monitoring wells sampled and tested for VPH, four (4) had petroleum concentrations that exceeded the Maine Exposure Guidelines (MEGs) for drinking water: MW1 and MW2 for both the September 2010 and January 2011 sampling events, MW3 for both the September and December 2010 sampling events, and MW4 for the January 2011 sampling event. Only one well (MW3 – September 2010, only) showed petroleum concentrations exceeding the MA GW2 standards. MW3 is located in AOC-3 near the east side of the CFI building.
- No VOCs by EPA Method 8260B (chlorinated compounds only) were reported for the groundwater samples.

Soil Gas

As shown in Table 7, seven (7) locations that were planned for sampling during the December 2010/January 2011 sampling event were not collected. There was insufficient air flow for sample collection.

Comparison of Soil Gas Concentrations to SGTs

- Chlorinated volatile organics, PCE and trichloroethene were detected in laboratory analyses of soil gas samples, but the concentrations were all below the SGTs. Due to the high levels of APH compounds and fractions detected in five (5) of the soil gas samples (SG1, SG2, SG3, SG5, and SG8), the laboratory reporting limits (RLs) for those samples were greater than the SGTs for the chlorinated VOCs and some APH compounds. Therefore, it is possible that chlorinated VOCs and APH compounds were present in the sample at levels less than the RLs, but greater than the SGTs.
- APH compounds were detected in all 12 of the soil gas implants sampled on at least one of the sampling dates. Of the 12 soil gas implants sampled, seven (7) locations had one or more APH compound or fraction exceeding the SGTs. The highest APH concentrations were in source area samples, SG1, SG2, and SG3 located in AOC-1 and SG5 located in AOC-3. For these source area locations total APH fractions ranged from approximately 25 million ug/m³ in SG1 and SG3 to 31 million ug/m³ in SG5 for the September sampling event.
- No targeted VOCs (TO-15), or APH compounds or fractions exceeded the SGTs in the near slab soil gas sample (SG6). Considering that SGTs were exceeded at SG5 (25 ft

from building) and impacted source area soil and groundwater were detected in the vicinity of SG5, the results of SG6 (and SG7) indicate that vapors attenuate before they reach the building. These results indicate that AOC-3 does not pose an unacceptable risk for soil mad migration to the CFI building.

Seasonal Change in APH Concentrations

- A significant drop in APH concentrations in soil gas samples from the source areas (SG1, SG3 and SG5) occurred in the December/January sampling event. Comparing the December/January concentrations to the September concentrations indicates a percent drop in concentrations of 81% for SG1, 78% for SG3, and 99.99% for SG5. These seasonal changes in APH soil gas concentrations are significant in magnitude and consistency and suggest the possibility of site specific variations to petroleum migration in soil gas related to variables, such as temperature, air and water viscosity, frozen ground, and ground water level in relation to impacted soil. Additional investigation would be needed to better understand the significance of these findings.

Conclusions Related to Fix Gases – Field and Laboratory

- The soil gas O₂ concentrations were in each sample lower than the ambient O₂ concentrations and the CO₂ soil gas concentrations were in each sample higher than the ambient CO₂ concentrations. These data are consistent with what would be expected from comparing ambient air and soil gas from petroleum contamination in the subsurface. The fix gas data indicates that short circuiting, or seal breaching during purging and sample collection was not a significant factor in the data results.
- Methane (CH₄) was detected in field analyses of soil gas samples at 11 locations; ranging from 2% of the LEL at SG6 to 100% of the LEL at SG1, SG2, SG3, SG4, and SG11. Where CH₄ was detected with the field instrument, the laboratory fix gas concentration for CH₄ was 30% to 70% lower. In all cases where field CH₄ was detected, the laboratory confirmation of CH₄ was lower.

Horizontal Gradients

- Horizontal migration or horizontal concentration gradients were only analyzed from a limited data set, because a number of soil gas sampling locations could not be sampled due to lack of air flow in December/January sampling event. In AOC-3, soil gas samples SG5 (source area), SG13 (7.5 ft offset), SG12 (15 ft offset), SG15 (22.5 ft offset) were analyzed for horizontal migration. Due to the low APH concentrations from the December/January sampling event (SG5 source area APH concentration 28 ug/m³), no definitive conclusions can be drawn from the data on horizontal migration of soil gas contaminants. ***MAI recommends re-sampling in late July early August, 2011 to evaluate lateral attenuation from this area of known soil and groundwater impacts.***

Near Slab

- One near slab implant was installed (SG6) on the east side of the building at AOC-3. A soil gas sample was collected from SG6 on 9/7/10 and the results showed that APH compounds and fractions and VOCs by TO-15 were below the SGTs.

Preferential Pathways

- Six (6) implants were installed to assess utility conduits at the Site.

- SG7 was installed in the sewer service line backfill on the east side of the building. APH and VOCs by TO-15 results showed that SGTs were not exceeded.
- SG3 targeted the water service line entering from Washington Ave, which is also in a source area (AOC-1). High levels of APH compounds and fractions were detected in SG3 for both the September 2010 and January 2011 sampling events. Total APH fractions were 24.7 million ug/m³ in September 2010 and 5.2 million ug/m³ in January 2011, well over the SGTs. The soil gas data from SG2 indicates the possibility of impacted soil gas migration in both directions along the water line conduit beyond the source area, towards Washington Ave and north further into the Site.
- SG2 targeted the sewer line where it enters the Site from Washington Ave, and as is the case with SG3, SG2 is within a source area (AOC-1). The total APH fractions concentration for SG2 was 8 million ug/m³ and well over the SGTs. The soil gas data from SG2 indicates the possibility of impacted soil gas migration in both directions along the sewer line conduit beyond the source area, towards Washington Ave and north further into the Site.
- Three soil gas implants (SG9, SG10, and SG11) were installed directly next to and in contact with the Fairpoint fiber optics cable conduit along Washington Ave. Only one (SG11) of the implants was able to be sampled, due to insufficient air flow in the other two at the time of sampling. APH results for SG11 showed benzene (2,900 ug/m³) and C5 – C8 aliphatics (41,000 ug/m³) exceeding the SGTs. The data from SG11 indicates that impacted soil gas is likely present along most of the conduit in front of the AOC-1 (source area).

Comparison within Utility to Near Utility

- Inconclusive as co-located implants could not be sampled due to lack of adequate air flow in December January. ***MAI recommends re-sampling co-located implants in late July early August, 2011 to evaluate concentration differences of samples collected in the utility bedding vs. samples collected next to the utility bedding.***

APPENDIX 1

Tables and Figures

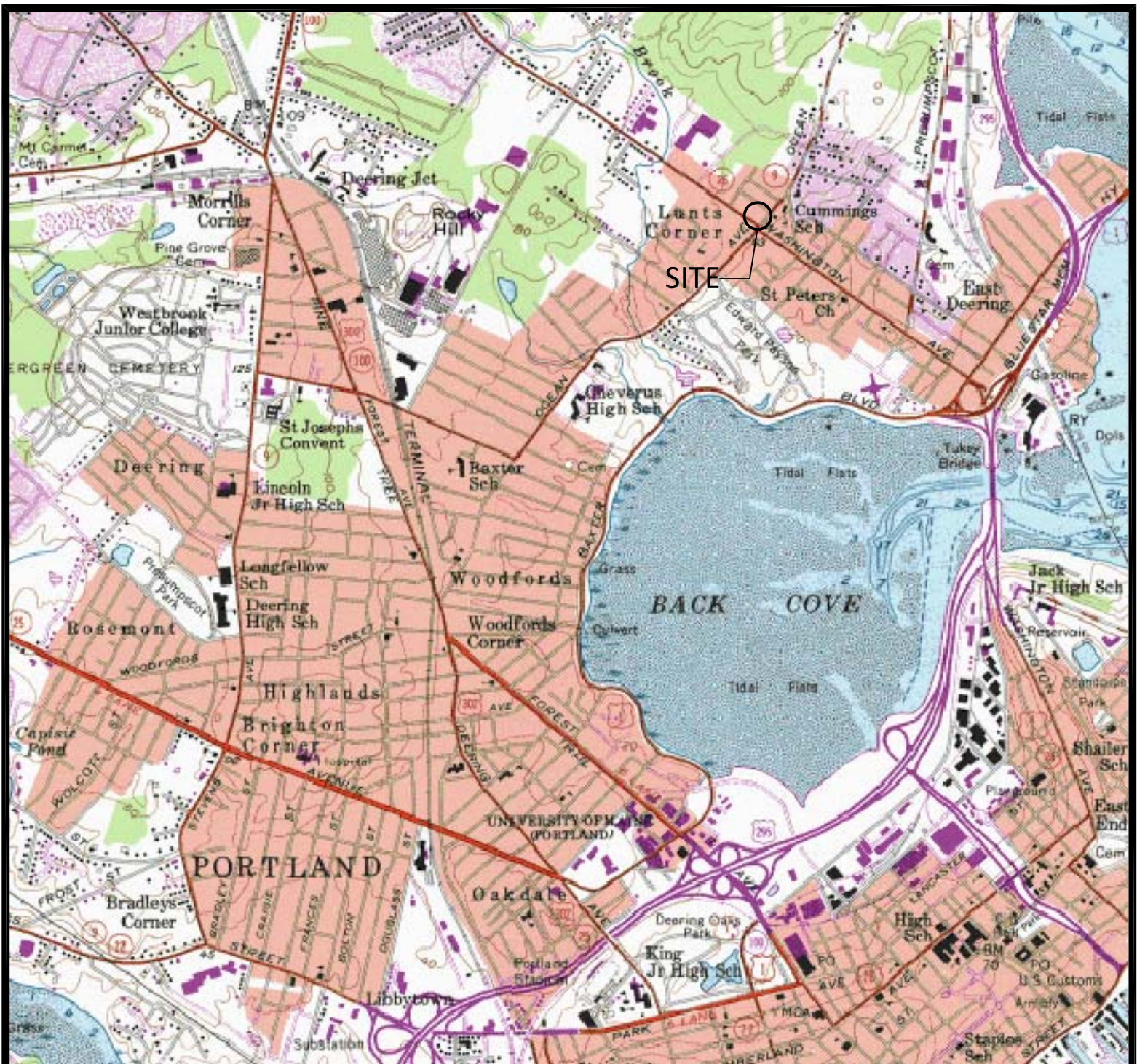


FIGURE 1
Site Location Map

Cumberland Farms Inc.
801 Washington Ave.
Portland, ME

SOURCE: U.S.G.S. 7.5 Minute Topographic Quadrangle of Portland East and Portland West, Maine.

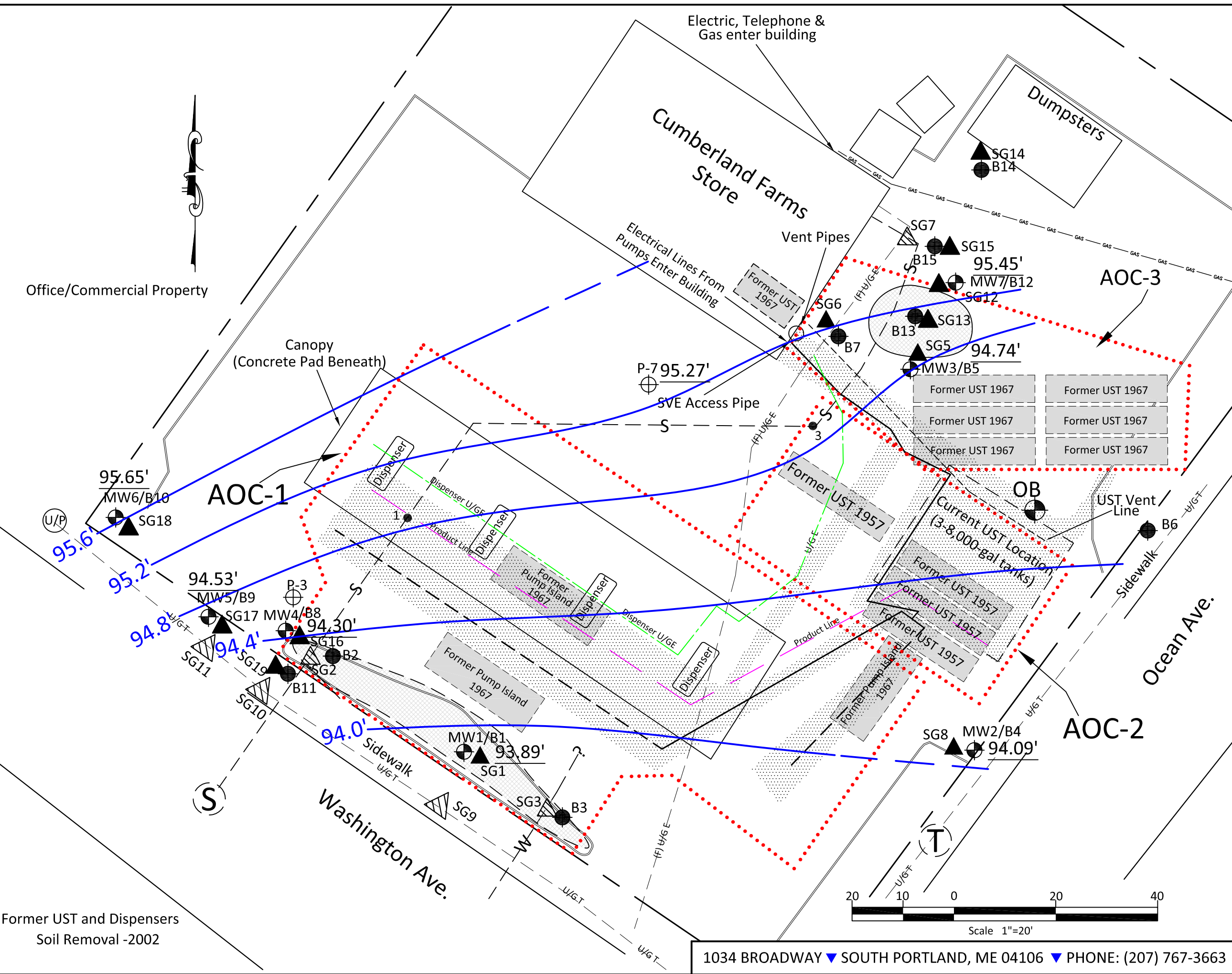
1034 BROADWAY ▼ SOUTH PORTLAND, ME 04106 ▼ PHONE: (207) 767-3663

SCALE: 1" = 2000'

DATE: 07/01/10

DWG: A-1047-1-1





- Property Line (approx)
- Sewer Line w/Cleanout
- Water Line
- Dispenser U/GE
- Product Line
- Former Underground Electric
- Underground Telephone
- Piezometer (1996) Existing
- Area of 1996 Documented Soil Contamination >500ppm
- Former UST /Pump Island
- SVE Slotted Piping
- SVE Solid Piping
- 1996 Soil Removal Area
- Telephone Manhole
- Sewer Manhole
- AOC-1** Area of Concern
- Utility Trench Soil Gas Sampling Point
- Soil Boring
- Soil Gas Sampling Point
- Monitoring Well
- 95.65'** Water Table Elevation 12/15/10
- Water Table Contour 12/15/10

SOURCE: Site Features have been approximated based on field observations and Maps provided by CFI. Historical features have been approximated utilizing information obtained from State & Local files. Sampling locations provided by MEDEP GIS Survey. Base map obtained from Portland, Maine GIS Aerial Photo - Dated 2006

FIGURE 2
Site Map

Cumberland Farms Inc. #1839
801 Washington Ave
Portland, ME

SCALE: 1" = 20' | DATE: 02/22/11 | DWG: A-5475-2



Former UST and Dispensers
Soil Removal -2002

1034 BROADWAY ▼ SOUTH PORTLAND, ME 04106 ▼ PHONE: (207) 767-3663

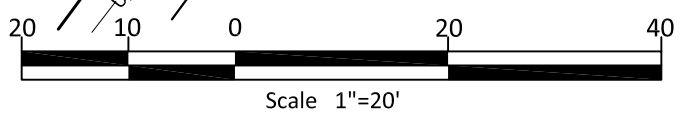


Table 1
General Methodology
CFI – Washington Ave
Portland, Maine

Category	Sample ID/Media	Rationale
<i>Source Area (Former USTs 1967)</i>		
	SG-5/Soil Gas	Assess contaminant concentrations in soil gas in known source area adjacent to former 1967 USTs and compare soil gas to co-located soil (B5) and GW (MW3) concentrations.
	SG-13/Soil Gas	Assess contaminant concentrations in soil gas in known source area adjacent to former 1967 USTs and compare soil gas to co-located soil (B13) concentrations.
	B-5 and B13/Soil	Assess soil concentration in known source area adjacent to former 1967 USTs.
	MW-3/Groundwater	Assess GW concentration in known source area adjacent to former 1967 USTs.
<i>Migration (Former USTs 1967)</i>		
	SG-12/Soil Gas	Assess contaminant concentrations in soil gas approximately 8' from known source area (B13, SG13).
	SG-15/Soil Gas	Assess contaminant concentrations in soil gas approximately 15' from known source area (B13, SG13).
	SG-14/Soil Gas	Assess contaminant concentrations in soil gas approximately 30' from known source area (B13, SG13).
	MW-7/Groundwater	Assess GW concentrations approximately 8' from known source area adjacent to 1967 USTs, and compare GW to co-located soil (B12) and soil gas (SG12) concentrations.
<i>Migration (Former USTs 1957)</i>		
	SG-8/Soil Gas	Assess contaminant concentrations in soil gas approximately 30' from known source area adjacent to 1957 USTs, and compare soil gas to co-located soil (B4) and GW (MW2) concentrations.
	MW-2/Groundwater	Assess GW concentrations approximately 30' from known source area adjacent to 1957 USTs, and compare GW to co-located soil (B4) and soil gas (SG8) concentrations.
<i>Source Area (Current/Historic Dispenser Area)</i>		
	SG-1/Soil Gas	Assess contaminant concentrations in soil gas in known source area adjacent to dispenser island and compare soil gas to co-located soil (B1) and GW (MW1) concentrations.
	SG-2/Soil Gas	Assess contaminant concentrations in soil gas in known source area adjacent to dispenser island and compare soil gas to co-located soil (B2) concentrations.
	SG-3/Soil Gas and preferential pathway	Assess contaminant concentrations in soil gas in known source area adjacent to dispenser island and compare soil gas to co-located soil (B3) concentrations. Also installed next to water line (preferential pathway).
	B1, B2, B3/Soil	Assess soil concentration in known source area adjacent to former dispenser islands.
	MW-1/Groundwater	Assess GW concentration in known source area adjacent to dispenser islands.

Table 1
General Methodology
CFI – Washington Ave
Portland, Maine

Category	Sample ID/Media	Rationale
<i>Migration Pathways (Current/Historic Dispenser Area)</i>		
	SG16/Soil Gas	Assess contaminant concentrations in soil gas approximately 8' from known source area adjacent to dispenser islands, and compare soil gas to co-located soil (B8) and GW (MW4) concentrations.
	SG17/Soil Gas	Assess contaminant concentrations in soil gas approximately 15' from known source area adjacent to dispenser islands, and compare soil gas to co-located soil (B9) and GW (MW5) concentrations. Additionally to compare soil gas concentrations outside of utility bed to the concentrations inside the utility bed (SG-11).
	SG18/Soil Gas	Assess contaminant concentrations in soil gas approximately 40' from known source area adjacent to dispenser islands, and compare soil gas to co-located soil (B10) and GW (MW6) concentrations.
	SG19/Soil Gas	Assess contaminant concentrations in soil gas approximately 8' from known source area adjacent to dispenser islands, and compare soil gas to co-located soil (B11). Additionally to compare soil gas concentrations outside of utility bed to the concentrations inside the utility bed (SG-10).
	MW4/Groundwater	Assess GW concentrations approximately 8' from known source area adjacent to dispenser islands, and compare GW to co-located soil (B8) and soil gas (SG16) concentrations.
	MW5/Groundwater	Assess GW concentrations approximately 15' from known source area adjacent to dispenser islands, and compare GW to co-located soil (B9) and soil gas (SG17) concentrations.
	MW6/Groundwater	Assess GW concentrations approximately 40' from known source area adjacent to dispenser islands, and compare GW to co-located soil (B10) and soil gas (SG18) concentrations.
<i>Preferential Pathways</i>		
	SG-9, 10, 11/Soil Gas	Assess soil gas concentration in backfill of former underground electric and current telephone utility conduit. Current telephone conduit encased in concrete. Vapor points are contact with concrete encasement based on visual confirmation during installation.
	SG-3/Soil Gas	Assess soil gas concentration along water line conduit. Third party locate of line. Visual conformation of water line not obtained.
	SG-6/Soil Gas	Assess soil gas concentration next to underground electric service line that enters building. Third party locate of line. Visual conformation of service line not obtained.
	SG-7/Soil Gas	Assess soil gas concentration in backfill of building sewer service line. Third party locate of line. Visual conformation of service line not obtained.

Notes: SG-4 was not completed.

Table 2
Sample Collection and Testing Methodologies
CFI Washington Ave Portland, Maine

Media	Sample Points (Depth ft)	Collection Methods	Field Testing	Laboratory Testing
Soil	B1 (5-7') B3 (5-7') B5 (5-10')	Soil borings were completed using MAI's Geoprobe 6620 DT direct-push drilling rig. Samples were collected in a 5' long disposable acetate liner at continuous depth intervals.	Thermo 580 B photoionization detector (PID). Calibrated using a 100 ppm isobutylene standard with a response factor of 1.0. MEDEP Poly-bag Headspace technique, MEDEP SOP DR #011	MADEP Hydrocarbon Fractions Analytical Methods. VPH - Volatile Petroleum Hydrocarbons.
Groundwater	MW1, MW2, MW3, MW4 MW5, MW7 (Samples collected 1 ft below WT surface)	Monitoring wells were installed using MAI's Geoprobe 6620 DT direct-push drilling rig. Wells were made of 10' long, 1" dia. PVC well screen (10-slot) and solid riser pipe. The screens were placed across the observed water table such that 2' of screen extended above the water table and 8' below. The well screen sections were back filled with filter sand to 6" above top of screen and sealed with hydrated bentonite clay. Groundwater samples were collected using "Low flow" sampling methods.	Turbidity, DO, water level, field screen GW with PID.	MADEP Hydrocarbon Fractions Analytical Methods. VPH - Volatile Petroleum Hydrocarbons. VOCs - (Halocarbons only)
Soil Gas	SG1 (4.5') SG11 (3.5') SG2 (4') SG12 (4') SG3 (4.5') SG13 (4') SG5 (5') SG14 (4') SG6 (5') SG15 (3.5') SG7 (3.5') SG16 (4') SG8 (4') SG17 (3.5') SG9 (3.5') SG18 (4') SG10 (3.5') SG19 (3.5')	Soil gas implants (6" long) were installed using MAI's Geoprobe 6620 DT direct-push drilling rig. The implants were installed through the drill casing, backfilled with filter sand and sealed with bentonite clay. Soil gas implants in utility trenches were installed using a hand auger and soil vacuum. Soil gas was collected using laboratory provided Summa Canisters with flow regulators set to collect sample at 200ml/min.	RKI Eagle, or MSA Orion Plus IR detector, Multi-Gas Meter (O2, CO2, CH4). Rotameter - model P single flow tube meter. PID. Dwyer instruments magnehelic gauge (Model 2000-00 has a range of 0-0.50" w.c., minor divisions .01, calibrated for vertical scale position)	MADEP - Air Phase Petroleum Hydrocarbons MA-APH (Air Phase Petroleum Hydrocarbons) with <ul style="list-style-type: none"> • limited TO-15 (TCA/PCE and breakdown products) • EDB (ethylene dibromide) • fixed gases (Methane, O2 and CO2)

**Table 3
Field and Laboratory Fixed Gasses
CFI-Washington Ave
Portland, ME**

Sample Point I.D.:	SG-1		SG-2		SG-3		SG-5		SG-6	SG-7		
Date:	9/7/10	1/10/11	9/7/10	1/10/11	9/7/10	1/10/11	9/7/10	12/30/10	9/7/10	9/7/10	12/30/10	
Sample Depth:	4.5	4.5	4	4	4.5	4.5	5	5	5	3.5	3.5	
Depth to Water:	6.41	5.92	Unk	Unk	Unk	Unk	7.58	6.28	Unk	Unk	Unk	
O2 (Units %)				No Sample Collected Flow rate less than 10 ml/min								
Ambient O2:	20.9	20.9	20.9		20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9
Pre-sample O₂:	0.5	0	0.5		0.6	0	0.5	20.9	8	12	17.5	
Post Sample O₂:	0.5	0	0.5		0.6	0	0.5	11.2	8	12	17.5	
Lab O₂:	ND	ND	ND		ND	ND	ND	7.27	5.56	10.3	14.8	
CO2 (Units %)												
Ambient CO2:	0.3	0	0.3		0.3	0	0.9	0	0.3	0.3	0	
Pre-sample CO₂:	OR	3.1	OR		OR	3.1	OR	8.1	OR	OR	2.8	
Post Sample CO₂:	OR	2.3	OR		OR	3	OR	8.1	OR	OR	2.8	
Lab CO₂:	9.76	3.71	8.89		15	5.23	18.1	7.89	10.6	8.33	2.93	
CH4 (Units % LEL)												
Pre-sample CH4:	100	100	100	100	100	12	0	2	19	0		
Lab CH4:	60.7	59.0	64.5	43.3	34.3	0.51	ND	ND	ND	ND		

NA = Not Analyzed
OR = Over Meter Range (5%)
Unk = Unkown Water Level (no adjacent well)
LEL = Lower Explosive Limit

**Table 3
Field and Laboratory Fixed Gasses
CFI-Washington Ave
Portland, ME**

Sample Point I.D.:	SG-8		SG-9	SG-10	SG11	SG-12	SG-13	SG-14	SG-15	SG-16	SG-17	SG-18	SG19
Date:	9/7/10	1/10/11	1/10/11	1/10/11	1/10/10	12/30/10	12/30/10	12/30/10	12/30/10	1/10/11	1/10/11	1/10/11	1/10/10
Sample Depth:	4	4	3.5	3.5	3.5	4	4	4	3.5	4	3.5	4	3.5
Depth to Water:	6.38	5.67	Unk	Unk	4.9	6.01	6.15+/-	Unk	6 +/-	5.48	4.90	2.85	5 +/-
O2 (Units %)			No Sample Collected Flow rate less than 10 ml/min	No Sample Collected Flow rate less than 10 ml/min				No Sample Collected Flow rate less than 10 ml/min		No Sample Collected Flow rate less than 10 ml/min	No Sample Collected Flow rate less than 10 ml/min	No Sample Collected Flow rate less than 10 ml/min	
Ambient O2:	20.9	20.9			20.9	20.9	20.9		20.9				20.9
Pre-sample O ₂ :	0.5	5.5			2.7	12.3	10.3		19.9				0
Post Sample O ₂ :	0.5	3.6			4.4	12.6	10.2		19.9				0
Lab O ₂ :	ND	4.94			2.80	8.26	5.31		17.1				ND
CO2 (Units %)													
Ambient CO ₂ :	0.3	0			0	0	0		0				0
Pre-sample CO ₂ :	OR	NA			0.4	6.9	8.6		1.3				1.1
Post Sample CO ₂ :	OR	NA			0.7	6.6	8.7		1.2				1.1
Lab CO ₂ :	21.5	9.01			1.05	6.27	5.74		1.17				2.03
CH4 (Units % LEL)													
Pre-sample CH ₄ :	10	NA			100	0	0		0				100
Lab CH ₄ :	ND	ND			73.0	ND	ND		ND				87.6

NA = Not Analyzed
OR = Over Meter Range (5%)
Unk = Unkown Water Level (no adjacent well)
LEL = Lower Explosive Limit

Table 4
Soil Analytical Data, Volatile Petroleum Hydrocarbon (VPH)
CFI - Washington Ave,
Portland, Maine

Sample ID	B1 (5-7')	B3 (5-7')	B5 (5-10')	OCW Soil Guideline [1]
Sample Date	08/31/10	08/31/10	08/31/10	
VOCs by PID, ppmv	90	82	358	
VPH Analytes, mg/kg				
Benzene	ND (0.12)	ND (0.15)	ND (0.11)	86
Ethylbenzene	ND (0.12)	0.516	0.401	420
Methyl-tert-butyl ether	ND (0.12)	0.14J	0.155	2600
Naphthalene	ND (0.12)	0.3	0.751	200
Toluene	ND (0.12)	ND (0.15)	ND (0.11)	10000
m- & p-Xylenes	ND (0.24)	0.24J	0.727	--
o-Xylene	ND (0.12)	0.151J	0.106J	--
Total Xylenes	ND	0.391J	0.833J	10000
C5-C8 Aliphatics	ND (3.05)	45.3	51.2	10000
C9-C12 Aliphatics	ND (3.05)	44.1	31.7	10000
C9-C10 Aromatics	ND (0.61)	16.4	20.6	5100

NOTES - [1] Outdoor Commercial Worker (OCW) scenario, Table 5, Tier 2 Cumulative Risk-Based Soil Remediation Guidelines for Petroleum Target Compounds and Hydrocarbon Fractions, Remediation Guidelines for Petroleum Contaminated Sites in Maine, effective December 1, 2009

-- = No guideline for this compound

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

J = Compound detected below calibrated range, concentration estimated

mg/kg = milligrams per kilogram

ppmv = parts per million by volume

PID = photoionization detector

**Table 5
Groundwater Elevations
CFI Washington Ave
Portland, ME**

Survey Completed on 12/15/10
Water Levels Measured on 12/15/10

H of I = BM elev Rod Reading
104.10 100.00 4.10

	Rod Reading	Ground Elevation	Rod Reading	PVC Elevation	Depth to Water (ft bgs)	Water Table Elevation (ft)
MW-1	4.25	99.85	4.40	99.70	5.81	93.89
MW-2	4.73	99.37	4.95	99.15	5.06	94.09
MW-3	3.26	100.84	3.46	100.64	5.90	94.74
MW-4	4.45	99.65	4.88	99.22	4.92	94.30
MW-5	5.14	98.96	5.42	98.68	4.15	94.53
MW-6	4.62	99.48	4.94	99.16	3.51	95.65
MW-7	3.18	100.92	3.44	100.66	5.21	95.45
P-7	3.26	100.84	3.58	100.52	5.25	95.27

Table 6
Groundwater Analysis - VPH
CFI - Washington Ave
Portland, ME

	VPH Analytes, ug/l										
	Benzene	Ethylbenzene	MtBE	Naphthalene	Toluene	m/p- Xylenes	o-Xylene	Total Xylenes	C5-C8 Aliphatic	C9-C12 Aliphatics	C9-C10 Aromatic
MA GW2 Standard [1]	2000	20000	50000	1000	50000	--	--	9000	3000	5000	7000
Draft VI Screening-Commercial [2]	6.9	15	2000	20	16000	--	--	410	3.2	2.7	130
ME MEGs 2010 [3]	4	30	35	10	600	--	--	1000	300	700	200
Sample ID											
MW-1											
9/7/10	1550	1150	1550	135	160	1280	207	1487	1080	2210	1560
1/10/11	1510	1520	1790	330	97	1090	161	1251	1260	3090	2640
MW-2											
9/7/10	105	3	15	3	2J	4	ND (2)	4	545	89	96
1/10/11	44	ND (2)	15	ND (2)	ND (2)	ND (4)	ND (2)	ND	355	74	74
MW-3											
9/7/10	14J	101	29	51	ND (20)	355	25	380	3100	1720	2400
12/30/10	ND (2)	5	7	ND (2)	1J	11	ND (2)	11	833	251	323
MW-4											
1/10/11	6	13	4	4	ND (2)	10	1J	11J	27J	30J	26
MW-5											
1/10/11	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (4)	ND (2)	ND	ND (50)	ND (50)	ND (10)
MW-7											
12/30/10	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (4)	ND (2)	ND	ND (50)	ND (50)	ND (10)

Notes: The 12/30/10 and 1/10/11 sampling events included analysis for 8260 - chlorinated compounds only at each sampling location. No compounds were detected at any of the sampling locations and as a result the analysis has not been included on the Table.

[1] Massachusetts Contingency Plan Method 1 Groundwater Standards, Table1, GW-2 Standards, (310 CMR 40.0974(2))

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

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

VPH = Volatile Petroleum Hydrocarbons, MA DEP Method

-- = No standard or guideline for this compound

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

Table 6
Groundwater Analysis - VPH
CFI - Washington Ave
Portland, ME

J = Compound detected below calibrated range, concentration estimated

Table 7
Soil Vapor Analysis - MA-APH and TO-15
CFI - Washington Ave
Portland, ME

		Soil Vapor Analytes - ug/m ³										
		SG-1		SG-2		SG-3		SG-5		SG-6	SG-7	
SGT [1]		9/7/10	1/10/11	9/7/10	1/10/11	9/7/10	1/10/11	9/7/10	12/30/10	9/7/10	9/7/10	12/30/10
TO-15 Analysis - (Limited)												
Vinyl chloride		ND (1150)	ND (159)	ND (1040)	No Sample Collected Flow rate less than 10 ml/min	ND (1200)	ND (162)	ND (1100)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)
1,1-Dichloroethene		ND (1790)	ND (246)	ND (1610)		ND (1860)	ND (250)	ND (1700)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)
trans-1,2-Dichloroethene		ND (1790)	ND (246)	ND (1610)		ND (1860)	ND (250)	ND (1700)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)
1,1-Dichloroethane		ND (1820)	ND (251)	ND (1640)		ND (1900)	ND (256)	ND (1730)	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.81)
cis-1,2-Dichloroethene		ND (1790)	ND (246)	ND (1610)		ND (1860)	ND (250)	ND (1700)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)
1,2-Dichloroethane		ND (1820)	ND (251)	ND (1640)		ND (1900)	ND (256)	ND (1730)	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.81)
1,1,1-Trichloroethane		ND (2460)	ND (339)	ND (2220)		ND (2550)	ND (345)	ND (2340)	ND (1.09)	ND (1.09)	ND (1.09)	ND (1.09)
Trichloroethene	305	ND (2420)	ND (334)	ND (2180)		ND (2520)	ND (340)	ND (2300)	ND (1.07)	ND (1.07)	ND (1.07)	ND (1.07)
1,2-Dibromoethane		ND (3460)	ND (447)	ND (3120)		ND (3600)	ND (486)	ND (3290)	ND (1.54)	ND (1.54)	ND (1.54)	ND (1.54)
Tetrachloroethene	100	ND (3060)	ND (421)	ND (2760)		ND (3180)	ND (428)	ND (2900)	10.2	9.07	2.75	ND (1.36)
MA-APH Analysis												
1,3-Butadiene	20.5	ND (4400)	ND (620)	ND (4000)	No Sample Collected Flow rate less than 10 ml/min	ND (4600)	ND (640)	ND (4200)	ND (4.6)	ND (2)	ND (2)	ND (3.8)
Methyl tert butyl ether	23.5	ND (4400)	ND (620)	ND (4000)		ND (4600)	ND (640)	ND (4200)	ND (4.6)	ND (2)	ND (2)	ND (3.8)
Benzene	80	70000	20000	5600		18000	6100	6700	ND (4.6)	ND (2)	ND (2)	ND (3.8)
Toluene	220000	ND (4400)	ND (620)	ND (4000)		ND (4600)	ND (640)	ND (4200)	ND (4.6)	ND (2)	ND (2)	ND (3.8)
C5-C8 Aliphatics, Adjusted	9000	24000000	4500000	7700000		24000000	5000000	31000000	28	60	32	ND (23)
Ethylbenzene	245	25000	3800	ND (4000)		ND (4600)	ND (640)	ND (4200)	ND (4.6)	ND (2)	ND (2)	ND (3.8)
p/m-Xylene		ND (8800)	ND (1200)	ND (8000)		ND (9200)	ND (1300)	ND (8400)	ND (9.2)	ND (4)	ND (4)	ND (7.6)
o-Xylene		ND (4400)	ND (620)	ND (4000)		ND (4600)	ND (640)	ND (4200)	ND (4.6)	ND (2)	ND (2)	ND (3.8)
TOTAL XYLENES	4400	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND
Naphthalene	18	ND (4400)	ND (620)	ND (4000)		ND (4600)	ND (640)	ND (4200)	ND (4.6)	ND (2)	ND (2)	ND (3.8)
C9-C12 Aliphatics, Adjusted	9000	2800000	420000	310000	710000	250000	76000	ND (32)	24	32	ND (27)	
C9-C10 Aromatics Total	2200	100000	9300	30000	ND (23000)	8100	ND (21000)	ND (23)	ND (10)	ND (10)	ND (19)	

NOTES -

[1] Soil Gas Target (SGT) = 50 times the MEDEP Indoor Air Target for Chronic Commercial-Multi Contaminant Scenario, Table B6 – 01/14/10

[2] Chlorinated volatile organic compounds by EPA Method TO-15. See laboratory reports for Analyte List

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

Table 7
Soil Vapor Analysis - MA-APH and TO-15
CFI - Washington Ave
Portland, ME

		Soil Vapor Analytes - ug/m ³												
		SG-8	SG-9	SG-10	SG-11	SG-12	SG-13	SG-14	SG-15	SG-16	SG-17	SG-18	SG-19	
SGT [1]		9/7/10	1/10/11	1/10/11	1/10/11	1/10/11	12/30/10	12/30/10	1/10/11	12/30/10	1/10/11	1/10/11	1/10/11	1/10/11
TO-15 Analysis - (Limited)														
Vinyl chloride		ND (1130)	ND (1.02)	No Sample Collected Flow rate less than 10 ml/min	No Sample Collected Flow rate less than 10 ml/min	ND (5.11)	ND (1.02)	ND (1.02)	No Sample Collected Flow rate less than 10 ml/min	ND (0.51)	No Sample Collected Flow rate less than 10 ml/min	No Sample Collected Flow rate less than 10 ml/min	No Sample Collected Flow rate less than 10 ml/min	ND (5.11)
1,1-Dichloroethene		ND (1750)	ND (1.58)			ND (7.92)	ND (1.58)	ND (1.58)		ND (0.79)				ND (7.92)
trans-1,2-Dichloroethene		ND (1750)	ND (1.58)			ND (7.92)	ND (1.58)	ND (1.58)		ND (0.79)				ND (7.92)
1,1-Dichloroethane		ND (1790)	ND (1.62)			ND (8.09)	ND (1.62)	ND (1.62)		ND (0.81)				ND (8.09)
cis-1,2-Dichloroethene		ND (1750)	ND (1.58)			ND (7.92)	ND (1.58)	ND (1.58)		ND (0.79)				ND (7.92)
1,2-Dichloroethane		ND (1790)	ND (1.62)			ND (8.09)	ND (1.62)	ND (1.62)		ND (0.81)				ND (8.09)
1,1,1-Trichloroethane		ND (2410)	ND (2.18)			ND (10.9)	ND (2.18)	ND (2.18)		ND (1.09)				ND (10.9)
Trichloroethene	305	ND (2380)	ND (2.15)			ND (10.7)	ND (2.15)	ND (2.15)		2.24				ND (10.7)
1,2-Dibromoethane		ND (3400)	ND (3.07)			ND (15.4)	ND (3.07)	ND (3.07)		ND (1.54)				ND (15.4)
Tetrachloroethene	100	ND (3000)	ND (2.71)			ND (13.6)	ND (2.71)	ND (2.71)		1.9				ND (13.6)
MA-APH Analysis														
1,3-Butadiene	20.5	ND (4400)	ND (4)	No Sample Collected Flow rate less than 10 ml/min	No Sample Collected Flow rate less than 10 ml/min	ND (20)	ND (5.2)	ND (2.8)	No Sample Collected Flow rate less than 10 ml/min	ND (3.6)	No Sample Collected Flow rate less than 10 ml/min	No Sample Collected Flow rate less than 10 ml/min	No Sample Collected Flow rate less than 10 ml/min	ND (20)
Methyl tert butyl ether	23.5	ND (4400)	ND (4)			ND (20)	ND (5.2)	ND (2.8)		ND (3.6)				ND (20)
Benzene	80	ND (4400)	ND (4)			2900	ND (5.2)	ND (2.8)		6.3				43
Toluene	220000	ND (4400)	ND (4)			23	ND (5.2)	26		58				ND (20)
C5-C8 Aliphatics, Adjusted	9000	1200000	ND (24)			41000	110	70		110				52000
Ethylbenzene	245	ND (4400)	ND (4)			ND (20)	ND (5.2)	10		ND (3.6)				ND (20)
p/m-Xylene		ND (8800)	ND (8)			62	ND (10)	46		ND (7.2)				ND (40)
o-Xylene		ND (4400)	ND (4)			52	ND (5.2)	23		ND (3.6)				ND (20)
TOTAL XYLENES	4400	ND	ND			114	ND	69		ND				ND
Naphthalene	18	ND (4400)	ND (4)			ND (20)	ND (5.2)	ND (2.8)		ND (3.6)				ND (20)
C9-C12 Aliphatics, Adjusted	9000	ND (31000)	ND (28)	6700	44	28	52	3700						
C9-C10 Aromatics Total	2200	ND (22000)	ND (20)	290	ND (26)	210	ND (18)	420						

NOTES -

[1] Soil Gas Target (SGT) = 50 times the MEDEP Indoor Air Target for Chronic Commercial-Multi Contaminant Scenario, Table B6 – 01/14/10

[2] Chlorinated volatile organic compounds by EPA Method TO-15. See laboratory reports for Analyte List

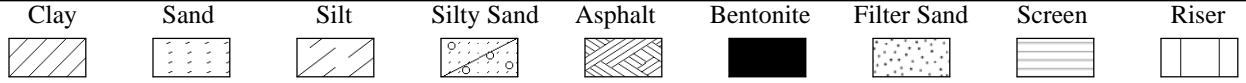
ND = Not detected above the laboratory reporting limit (Reporting Limit - RL)

APPENDIX 2

Boring Logs and Well Construction Details

MAI Environmental

Cumberland Farms Inc	Washington Ave Portland, Maine	BORING DESIGNATION	B1 MW1/SG1
Project Number:	1047-1-2	Drilling Rig:	Geoprobe 6620DT
Geologist:	Paul Prescott	Sampling Method:	Dual Tube Sampler
Date Drilled:	8/31/10	Total Depth of Borehole:	15 Feet
Drilling Method:	Direct Push Boring		



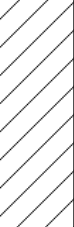






Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
S1		Organics (bark mulch) SAND, Gravel, silt	134		SG1 installed at 4.5', sand 3.5'-4.5', bentonite to ground surface	
S1		Grey SAND & GRAVEL Some Silt	269			
S2		Grey Fine SAND, Little Medium Sand	5	90	Wet	
S2		Olive Brown SILT & CLAY	45			
S3		Olive Brown SILT & CLAY w/ few fine sand lenses	10	32		
S3		Grey SILT & CLAY w/ few fine Sand lenses	9			
		Grey Fine to medium SAND	15			
		Bottom of Boring 15' (no refusal)				

MAI Environmental

Cumberland Farms Inc	Washington Ave Portland, Maine	BORING DESIGNATION B2 SG2	
Project Number:	1047-1-2	Drilling Rig:	Geoprobe 6620DT
Geologist:	Paul Prescott	Sampling Method:	Dual Tube Sampler
Date Drilled:	8/31/10	Total Depth of Borehole:	15 Feet
Drilling Method:	Direct Push Boring		

Clay	Sand	Silt	Silty Sand	Asphalt	Bentonite	Filter Sand	Screen	Riser
								

Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
S1		SAND, Gravel, silt , organic fill	29		SG2 installed at 4', sand from 3'-4', bentonite to ground surface	
S1		Grey SAND w/ Dark Silt	20			
S2		Grey Fine SAND, trace SILT	5	2		
S2		Olive Brown SILT and CLAY	88			
S3		Olive Brown SILT and CLAY	10	4		
S3		Grey CLAY - Wet	1	1		
S3		Grey SAND and GRAVEL w/ silt lenses	1	1		
		Bottom of Boring 15' (no refusal)	15			

MAI Environmental

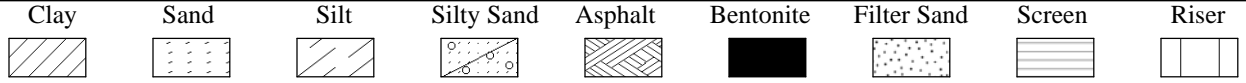
Cumberland Farms Inc	Washington Ave Portland, Maine	BORING DESIGNATION B3 SG3	
Project Number:	1047-1-2	Drilling Rig:	Geoprobe 6620DT
Geologist:	Paul Prescott	Sampling Method:	Dual Tube Sampler
Date Drilled:	8/31/10	Total Depth of Borehole:	15 Feet
Drilling Method:	Direct Push Boring		



Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
S1		Brown Organics SAND, Gravel, few silt	12.5		SG3 installed at 4.5', sand from 3.5'-4.5', bentonite to ground surface - Petrol Odor	
S1		Grey SAND, Silt, Gravel, few clay, Asphalt	33			
S2		Grey SILT and CLAY w/ spotty black staining	5	82	Petrol Odor	
S2		Olive Brown SILT and CLAY	12			
S3		Olive Brown SILT and CLAY	10	9		
S3		Grey SILT and CLAY w/ Fine sand lenses	2			
		Bottom of Boring 15' (no refusal)	15			

MAI Environmental

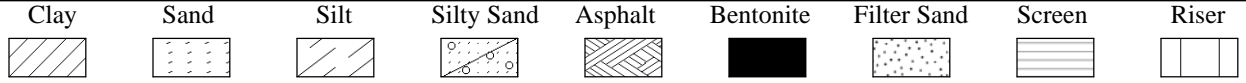
Cumberland Farms Inc	Washington Ave Portland, Maine	BORING DESIGNATION	B4 MW2/SG8
Project Number:	1047-1-2	Drilling Rig:	Geoprobe 6620DT
Geologist:	Paul Prescott	Sampling Method:	Dual Tube Sampler
Date Drilled:	8/31/2010	Total Depth of Borehole:	12 Feet
Drilling Method:	Direct Push Boring		



Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
S1	Asphalt	Asphalt				
S1	Brown SAND	Brown SAND		1		
S1	SILTY CLAY w/ Sand	SILTY CLAY w/ Sand		1		
S1	Brown to Dark Brown SAND and Organics	Brown to Dark Brown SAND and Organics		1		
S1	Grey SILTY SAND	Grey SILTY SAND		1	SG8 installed at 4', sand from 3'-4', bentonite to ground surface - Petrol Odor	
S1	Grey SILT and CLAY w/ fine Sand lenses	Grey SILT and CLAY w/ fine Sand lenses		1		
S2	Grey SILT and CLAY w/ fine Sand lenses	Grey SILT and CLAY w/ fine Sand lenses	5			
S2	Grey SILT and CLAY w/ fine Sand lenses	Grey SILT and CLAY w/ fine Sand lenses		8		
S2	Grey SILT and CLAY w/ fine Sand lenses	Grey SILT and CLAY w/ fine Sand lenses		2		
S2	Fine SAND and trace Gravel	Fine SAND and trace Gravel		2		
S2	Grey SAND and GRAVEL few silt	Grey SAND and GRAVEL few silt	10			
S3	Grey SAND and GRAVEL few silt	Grey SAND and GRAVEL few silt		2	Petrol Odor	
		Bottom on Boring 12' (assumed bedrock)				
			15			

MAI Environmental

Cumberland Farms Inc	Washington Ave Portland, Maine	BORING DESIGNATION	B5 MW3/SG5
Project Number:	1047-1-2	Drilling Rig:	Geoprobe 6620DT
Geologist:	Paul Prescott	Sampling Method:	Dual Tube Sampler
Date Drilled:	8/31/10	Total Depth of Borehole:	12 Feet
Drilling Method:	Direct Push Boring		



Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
S1		Asphalt	4	4	SG5 installed at 4.5', sand from 3.5'-4.5', bentonite to ground surface - Petrol Odor	
		Light Brown SAND and GRAVEL, Fill				
S2		Brown/Grey SAND, Few Gravel, silt, Tires	5	358		
			10			
S3		CONCRETE	10			
S3		Grey SAND and GRAVEL, Few Silt	47	47		
		Bottom of Boring 12' (assumed bedrock)	15			

MAI Environmental

Cumberland Farms Inc	Washington Ave Portland, Maine	BORING DESIGNATION B6	
Project Number:	1047-1-2	Drilling Rig:	Geoprobe 6620DT
Geologist:	Paul Prescott	Sampling Method:	Dual Tube Sampler
Date Drilled:	8/31/10	Total Depth of Borehole:	13 Feet
Drilling Method:	Direct Push Boring		



Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
S1		Bark MULCH	1	1		
		Brown SAND and GRAVEL				
S1		Grey Brown SILT w/ Sand Lenses	1	1		
S2		Olive Brown SILT and CLAY w/ Sand Lenses	5	1		
S2		Grey Fine SAND, few silt	1	1		
S3		Grey SAND and GRAVEL, Few Silt	10	2		
		Bottom of Boring 13' (assumed bedrock)	15			

MAI Environmental

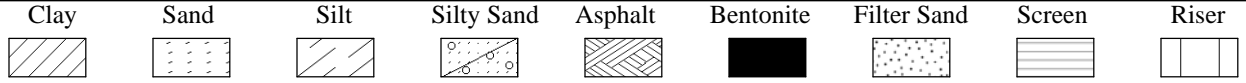
Cumberland Farms Inc	Washington Ave Portland, Maine	BORING DESIGNATION B7 SG6	
Project Number:	1047-1-2	Drilling Rig:	Geoprobe 6620DT
Geologist:	Paul Prescott	Sampling Method:	Dual Tube
Date Drilled:	8/31/10	Total Depth of Borehole:	11.5 Feet
Drilling Method:	Direct Push Boring		



Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
S1		ASPHALT	0	1	SG6 installed at 5', sand from 4'-5', bentonite to ground surface	
		Brown SAND and GRAVEL				
S2		Olive Brown SILT and CLAY few fine sand lenses	5	3.5		
		Olive Brown SILT and CLAY few fine sand lenses	7			
S3		Grey Fine SAND few Silt and Gravel	10	2	Wet	
		Bottom of Boring 11.5' (assumed bedrock)	15			

MAI Environmental

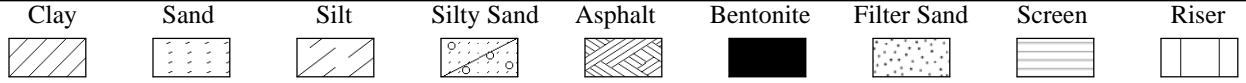
Cumberland Farms Inc	Washington Ave Portland, Maine	BORING DESIGNATION	B8 MW4/SG16
Project Number:	1047-1-2	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube Sampler
Date Drilled:	12/9/2010	Total Depth of Borehole:	15 Feet
Drilling Method:	Direct Push Boring		



Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
S1		Dark Brown fine to coarse SAND, some Silt and gravel	5.1	5.1	SG16 installed at 4', sand from 3'-4', bentonite to ground surface	
S1		Dark Brown fine to coarse SAND and Silt, little gravel	1.7	1.7		
S2		Grey SILT & CLAY	5	ND		
S2		Brown Grey SILT and fine Sand, trace gravel	10	0.8		
S3		Brown SILTY fine SAND, trace Gravel	10	ND		
S3		Light Brown fine to medium SAND, little Silt	15	ND		
		Bottom on Boring 15' (no refusal)	15			

MAI Environmental

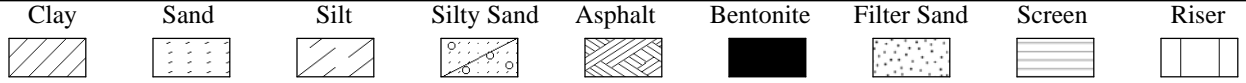
Cumberland Farms Inc	Washington Ave Portland, Maine	BORING DESIGNATION	B9 MW5/SG17
Project Number:	1047-1-2	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube Sampler
Date Drilled:	12/9/2010	Total Depth of Borehole:	12.5 Feet
Drilling Method:	Direct Push Boring		



Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
S1		Grey fine to medium SAND, some Silt, trace gravel	0 - 2	ND	SG17 installed at 3', sand from 2'-3', bentonite to ground surface	
S1		Grey SILT & CLAY	2 - 3	ND		
		Grey SILT & CLAY	3 - 5			
S2			5 - 10	ND		
S3		Grey SILT & CLAY	10 - 12.5	ND		
S3		Brown fine to medium SAND, some Silt and Gravel	12.5	ND		
		Bottom on Boring 12.5' (assumed bedrock)	12.5			

MAI Environmental

Cumberland Farms Inc	Washington Ave Portland, Maine	BORING DESIGNATION	B10 MW6/SG18
Project Number:	1047-1-2	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube Sampler
Date Drilled:	12/9/2010	Total Depth of Borehole:	10.5 Feet
Drilling Method:	Direct Push Boring		



Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
S1		Dark Brown fine to coarse SAND, some Silt, little gravel	0 - 3	ND	SG18 installed at 4', sand from 3'-4', bentonite to ground surface	
S1		Grey SILT & CLAY	3 - 4	ND		
		Grey SILT & CLAY		ND		
S2			4 - 5	ND		
S2		Brown fine SAND and Silt	5 - 10	ND		
S3		Brown fine SAND and Silt	10 - 10.5	ND		
		Bottom on Boring 10.5' (assumed bedrock)	10.5			

MAI Environmental

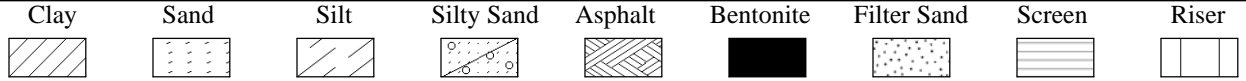
Cumberland Farms Inc	Washington Ave Portland, Maine	BORING DESIGNATION	B11 SG19
Project Number:	1047-1-2	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube Sampler
Date Drilled:	12/9/2010	Total Depth of Borehole:	10 Feet
Drilling Method:	Direct Push Boring		



Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
S1		Dark Brown fine to coarse SAND, some Silt, little gravel		ND	SG19 installed at 3.5', sand from 2.5'-3.5', bentonite to ground surface	
S1		Grey SILT & CLAY		ND		
		Grey SILT & CLAY	5			
S2				ND		
		Bottom on Boring 10.0' (no refusal)	10			
			15			

MAI Environmental

Cumberland Farms Inc	Washington Ave Portland, Maine	BORING DESIGNATION	B12 MW7/SG12
Project Number:	1047-1-2	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube Sampler
Date Drilled:	12/9/2010	Total Depth of Borehole:	10 Feet
Drilling Method:	Direct Push Boring		



Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
S1		Brown fine to coarse SAND, some Gravel, little silt - bricks		ND	SG12 installed at 4', sand from 3'-4', bentonite to ground surface	
S1		Grey SILT & CLAY		ND		
S2		Grey SILT & CLAY	5	ND		
S2		Grey SILT & SAND, some Silt		ND		
S2		Ligth Brown fine to medium SAND, some Silt and gravel		ND		
		Bottom on Boring 10' (assumed bedrock)	10			
			15			

MAI Environmental

Cumberland Farms Inc	Washington Ave Portland, Maine	BORING DESIGNATION	B13 SG13
Project Number:	1047-1-2	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube Sampler
Date Drilled:	12/9/2010	Total Depth of Borehole:	11.5 Feet
Drilling Method:	Direct Push Boring		



Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
S1		Brown fine to coarse SAND, some Gravel, trace silt	0.8	0.8	SG13 installed at 4', sand from 3'-4', bentonite to ground surface	
S2		Brown fine to medium SAND, little Silt and gravel	5	0.4		
S2		Grey fine to medium SAND, some Silt, little gravel	10	0.4		
S3		Grey fine to medium SAND, some Silt, little gravel	15	ND		
		Bottom on Boring 11.5' (no refusal)				

MAI Environmental

Cumberland Farms Inc	Washington Ave Portland, Maine	BORING DESIGNATION B14 SG14	
Project Number:	1047-1-2	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube Sampler
Date Drilled:	12/9/2010	Total Depth of Borehole:	10 Feet
Drilling Method:	Direct Push Boring		



Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
S1		Brown fine to coarse SAND, some Gravel, little silt - bricks		ND	SG14 installed at 4', sand from 3'-4', bentonite to ground surface	
S1		Grey SILT & CLAY, some fine sand, trace gravel	5	12		
S2		Grey SILT & Sand, some gravel		ND		
S2		Light Brown SAND & GRAVEL, little Silt	10	ND		
		Bottom on Boring 10.0' (assumed bedrock refusal)	15			

MAI Environmental

Cumberland Farms Inc	Washington Ave Portland, Maine	BORING DESIGNATION	B15 SG15
Project Number:	1047-1-2	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube Sampler
Date Drilled:	12/9/2010	Total Depth of Borehole:	9 Feet
Drilling Method:	Direct Push Boring		




Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
S1		Brown fine to medium SAND, some Gravel, little silt	0-4	ND	SG15 installed at 4', sand from 3'-4', bentonite to ground surface	
S1		Dark Brown SILT and fine Sand, trace gravel	4-5	ND		
S2		Brown SILT and fine Sand, trace gravel	5-9	ND		
S2		Brown fine to coarse SAND, little Silt and gravel	9-10	ND		
		Bottom on Boring 9' (assumed bedrock)	10-15			

MAI Environmental

Cumberland Farms Inc	Washington Ave Portland, Maine	BORING DESIGNATION	SG9
Project Number:	1047-1-2	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube Sampler
Date Drilled:	12/13/2010	Total Depth of Borehole:	3.5 Feet
Drilling Method:	Direct Push Boring		




Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		No Samples Collected	<div style="text-align: center;">  </div>		SG9 installed at 3.3', sand from 2.3'-3.3', bentonite to 1' then backfill and finished with concrete surface seal and road box	

MAI Environmental

Cumberland Farms Inc	Washington Ave Portland, Maine	BORING DESIGNATION	SG10
Project Number:	1047-1-2	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube Sampler
Date Drilled:	12/13/2010	Total Depth of Borehole:	3.5 Feet
Drilling Method:	Direct Push Boring		




Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		No Samples Collected	<div style="text-align: center;">  </div>		<p>SG10 installed at 3.5', sand from 2.5'-3.5', bentonite to 1' then backfill and finished with concrete surface seal and road box</p>	

MAI Environmental

Cumberland Farms Inc	Washington Ave Portland, Maine	BORING DESIGNATION	SG11
Project Number:	1047-1-2	Drilling Rig:	Geoprobe 6620DT
Geologist:	John Marchewka	Sampling Method:	Dual Tube Sampler
Date Drilled:	12/13/2010	Total Depth of Borehole:	3.5 Feet
Drilling Method:	Direct Push Boring		



Sample ID	Lithology	Description	Depth (ft)	PID Reading (ppm)	Notes	Well Completion
		No Samples Collected	<div style="text-align: center;">  </div>		<p>SG11 installed at 3.5', sand from 2.5'-3.5', bentonite to 1' then backfill and finished with concrete surface seal and road box</p>	

APPENDIX 3

Sampling Field Data Sheets

CFI Washington Phase 2B

Soil Vapor Point Flow Tests

Flow Information

Vapor Points	12/22/2010 (1)	12/30/2010 (2)	1/7/2011 (1)	1/10/2011 (2)
SG 1	291	OK	300	Sampled
SG 2	>1000	OK	0	No Sample
SG 3	0	OK	0	Sampled
SG 5	>1000	Sampled		
SG 7	>1000	Sampled		
SG 8	170	OK	840	Sampled
SG 9	0	Water	0	No Sample
SG 10	0	Water	0	No Sample
SG 11	>1000	OK	150	Sampled
SG 12	140	Sampled		
SG 13	>1000	Sampled		
SG 14	0	No Sample		
SG 15	135	Sampled		
SG 16	0	Water	0	No Sample
SG 17	0	No Flow	0	No Sample
SG 18	0	Water	0	No Sample
SG 19	0	OK	880	Sampled

(1) Flow Rates through a peristaltic pump placing -.5"H2O Vacuum on the Vapor Point

(2) No Flow Readings Taken. The following Notes are used :

OK / Sampled : Flow estimated to be at least 200 ml/ min, sample taken

Water : Water Pumped from Vapor Point

No Flow / No Sample : No flow from vapor point, no sample taken

Bold indicates no flow from vapor point

Water Levels

Measured from TOC

	12/22/2010	12/30/2010	1/7/2011
MW 1	5.79	5.94	6.10
MW 2	5.46	5.70	5.56
MW 3	6.05	6.28	6.27
MW 4	5.22	5.41	5.45
MW 5	4.51	4.74	4.68
MW 6	1.47	3.08	3.05
MW 7	5.65	6.01	5.87
P7	5.57	5.85	5.80



MONITORING WELL WATER SAMPLING DATA RECORD

Project: CFI Washington
Date: 9/7/10

Well I.D.: MW-1
Sampler(s): Prescott

Sampler Signature: [Signature]

WELL DATA

Water Depth [from Top of Casing]: 6.41
Well Diameter: 1" PVC
Integrity: Good

PURGE

Method: Geotech Peristaltic Pump w/ Flow Through Cell

Tubing Intake Depth: started at 7.5 had to drop intake to 9.5 due to poor recharge

Start Time: 10:30

Flow Rate: ± 60 ml/min

End Time(Sample Start): 11:00

Final Readings

DO: 2.1 mg/l

Turbidity: 17.4 NTU

Purge Water Observations (Color, Odor, Sheen): Petrol odor, sheen

Comments:

▽ P-7 7.10' (9/7/10)

MAI ENVIRONMENTAL



Compliance ▼ Hydrogeology ▼ Engineering ▼ Permitting

MONITORING WELL WATER SAMPLING DATA RECORD

Project: CFI Washington
Date: 9/7/10

Well I.D.: MW 2
Sampler(s): Prescott

Sampler Signature: [Signature]

WELL DATA

Water Depth (from Top of Casing): 6.38
Well Diameter: 1" PVC
Integrity: Good

PURGE

Method: Geotech Peristaltic Pump w/ Flow Through Cell

Tubing Intake Depth: 7.5

Start Time: 800

Flow Rate: 100 ml/min, ~

End Time(Sample Start): 850

Final Readings

DO: 3.0 mg/l
Turbidity: 12.1 NTU

Purge Water Observations (Color, Odor, Sheen):

Petrol odor, Sheen

Comments:



MONITORING WELL WATER SAMPLING DATA RECORD

Project: CFI Washington Ave
Date: 9/7/10

Well I.D.: MW-3
Sampler(s): Prescott

Sampler Signature: [Signature]

WELL DATA

Water Depth [from Top of Casing]: 7.58'
Well Diameter: 1" PVC
Integrity: Good

PURGE

Method: Geotech Peristaltic Pump w/ Flow Through Cell

Tubing Intake Depth: 9.0 - dropped tubing 15' due to poor recharge

Start Time: 9:15

Flow Rate: 80 ml/min

End Time(Sample Start): 9:40

Final Readings

DO: 4.1 mg/l

Turbidity: 74 NTU

Purge Water Observations (Color, Odor, Sheen):

Petrol odor, sheen

Comments:

Soil Gas Sampling Field Sheet
Maine DEP

SG-1

Site Name:	Washington Ave CFI
Town:	Portland
Date:	9/7/10
Sample I.D.:	SG-1
Sampling Purpose	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	S. Brown
Project Manager	P. Prescott
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Ashphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	4.5'
Depth to Water:	6.4'
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	480
Flow Control I.D.:	0468
Flow control rate:	200 ml/min
O ₂ Ambient	20.9
CO ₂ Ambient	0.3
subsurface pressure/vacuum	No Detectable 20/0K (inches of water column)
Pre-Sample O ₂	0.5
Pre-Sample CO ₂	5.00 OR
Pre-Sample PID:	48
Pre-Sample CH ₄ :	100 (% Volume) (MEL) (PPM)
Sample Initiation Time:	1050
Initial Vacuum:	-30
Sample End Time:	1100
Final Vacuum:	-5
Post Sample O ₂	0.5
Post Sample CO ₂	5.00 OR

Sample Location Sketch

CFI

Purge start 1033
Purge Vacuum .50 OR
Purge Rate 200 ml/min
End Purge 1043

Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

Site Name:	Washington Ave CFI
Town:	Portland
Date:	9/7/10
Sample I.D.:	SG-2
Sampling Purpose	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	S. Brown
Project Manager	P. Prescott
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:	UNK
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	366
Flow Control I.D.:	0327
Flow control rate:	200
O ₂ Ambient	20.9
CO ₂ Ambient	0.3
subsurface pressure/vacuum	- 0.5 (inches of water column)
Pre-Sample O ₂	0.5
Pre-Sample CO ₂	5.00 GR
Pre-Sample PID:	8.1
Pre-Sample CH ₄ :	100 (% Volume ALL PPM)
Sample Initiation Time:	1029
Initial Vacuum:	-30
Sample End Time:	1039
Final Vacuum:	-5
Post Sample O ₂ :	0.5
Post Sample CO ₂ :	5.00 GR

Sample Location Sketch

WASHINGTON SIDEWALK

SG2

SG1

SG3

CFI

Purge Rate 200ml/min
Purge Vacuum -0.5
Purge Start @ 1013
End @ 1023

Notes: Sewer line @ ± 9' BGS

Soil Gas Sampling Field Sheet
Maine DEP

SG-3

Site Name:	Washington Ave CFI	<p style="text-align: center;">Sample Location Sketch</p>
Town:	Portland	
Date:	9/7/10	
Sample I.D.:	SG-3	
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)	
Sampling Personnel:	S. Brown	
Project Manager:	P. Prescott	
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:	UNK	
Suspected COCs:	(Petroleum) (Solvents)	
Cannister I.D.:	1734	
Flow Control I.D.:	0301	
Flow control rate:	200 ml/min	
O ₂ Ambient:	20.9	
CO ₂ Ambient:	0.3	
subsurface pressure/vacuum	No Reflection inches of water column	
Pre-Sample O ₂ :	0.6	
Pre-Sample CO ₂ :	5.0 OR	
Pre-Sample PID:	46	
Pre-Sample CH ₄ :	100 (% Volume, LEL, PPM)	
Sample Initiation Time:	1008	
Initial Vacuum:	To -30	
Sample End Time:	1018	
Final Vacuum:	-0.5	
Post Sample O ₂ :	0.6	
Post Sample CO ₂ :	5.0 OR	
Notes:	<p>Water line - Depth estimated 15'</p> <p>Rate 200 ml/min Vacuum > .8 Start purge @ 9:52 End 10:02</p>	

**Soil Gas Sampling Field Sheet
Maine DEP**

Site Name:	Washington Ave. CFI
Town:	Portland
Date:	9/2/10
Sample I.D.:	SG-5
Sampling Purpose	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	S. Brown
Project Manager	P. Prescott
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Asphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	5.0'
Depth to Water:	7.58'
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	558
Flow Control I.D.:	0116
Flow control rate:	200
O ₂ Ambient	20.9
CO ₂ Ambient	0.9
subsurface pressure/vacuum	Vacuum $\sqrt{\text{Reflection}}$ inches of water column
Pre-Sample O ₂	0.4
Pre-Sample CO ₂	5.00 GR
Pre-Sample PID:	270
Pre-Sample CH ₄ :	12% (% Volume) (LEL) (PPM)
Sample Initiation Time:	834
Initial Vacuum:	-30
Sample End Time:	844
Final Vacuum:	-5
Post Sample O ₂	0.5
Post Sample CO ₂ :	5.00 OR

Sample Location Sketch

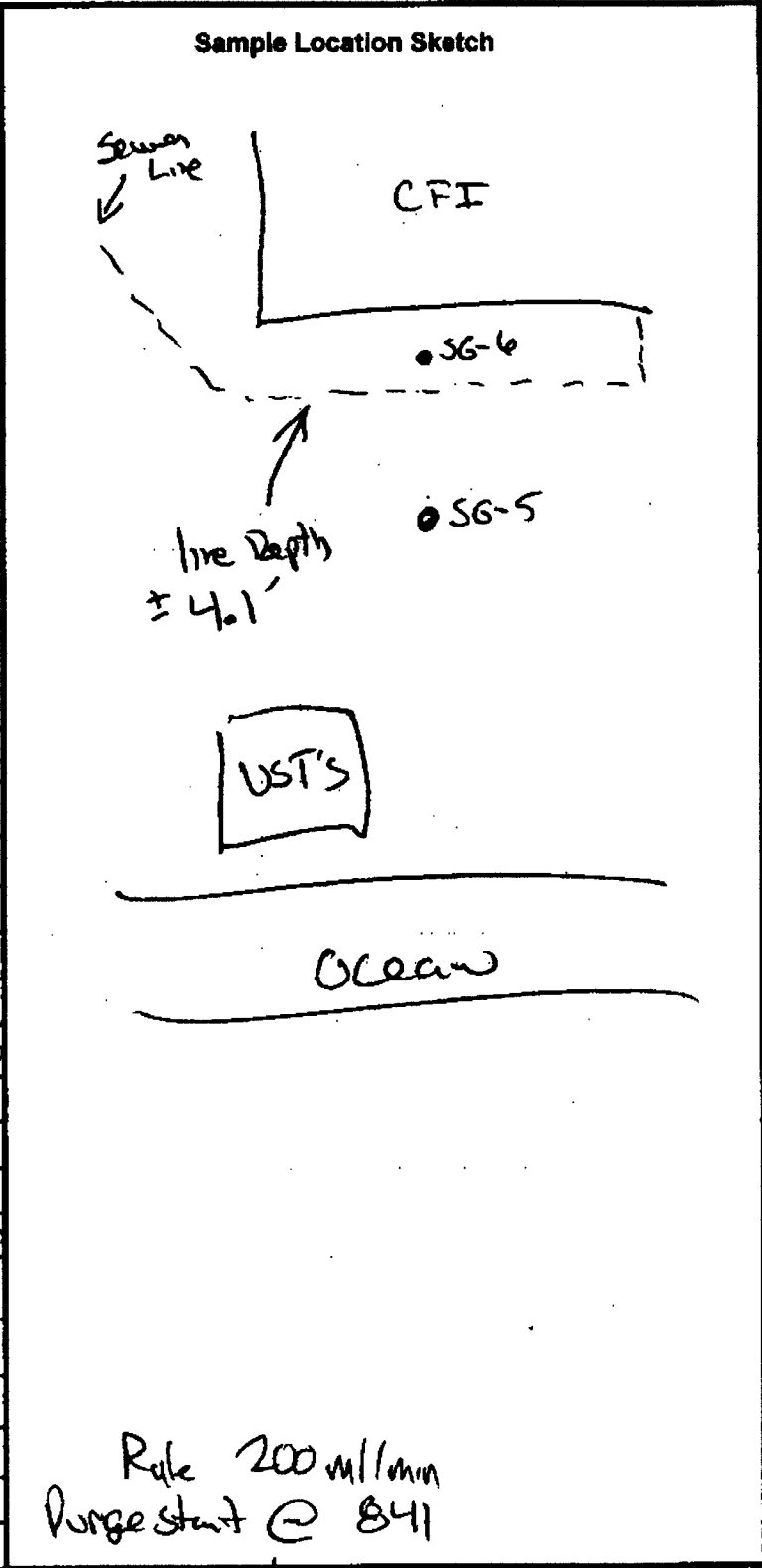
Ocean

Rate 200 ml/min
Vacuum -0.10
Purge start @ 8:20
End 8:30

Notes:

Soil Gas Sampling Field Sheet
Maine DEP

Site Name:	Washington Ave CFI
Town:	Portland
Date:	9/7/10
Sample I.D.:	SG-6
Sampling Purpose	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	S. Brown
Project Manager	P. Prescott
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:	UNK
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	190
Flow Control I.D.:	0369
Flow control rate:	200
O ₂ Ambient	20.9
CO ₂ Ambient	0.3
subsurface pressure/vacuum	N/A (± inches of water column)
Pre-Sample O ₂	8.0
Pre-Sample CO ₂ :	5.00 OR
Pre-Sample PID:	0
Pre-Sample CH ₄ :	2% (% Volume) (%LEL) PPM
Sample Initiation Time:	900
Initial Vacuum:	-30
Sample End Time:	912
Final Vacuum:	-5
Post Sample O ₂ :	8.00
Post Sample CO ₂ :	5.0 OR

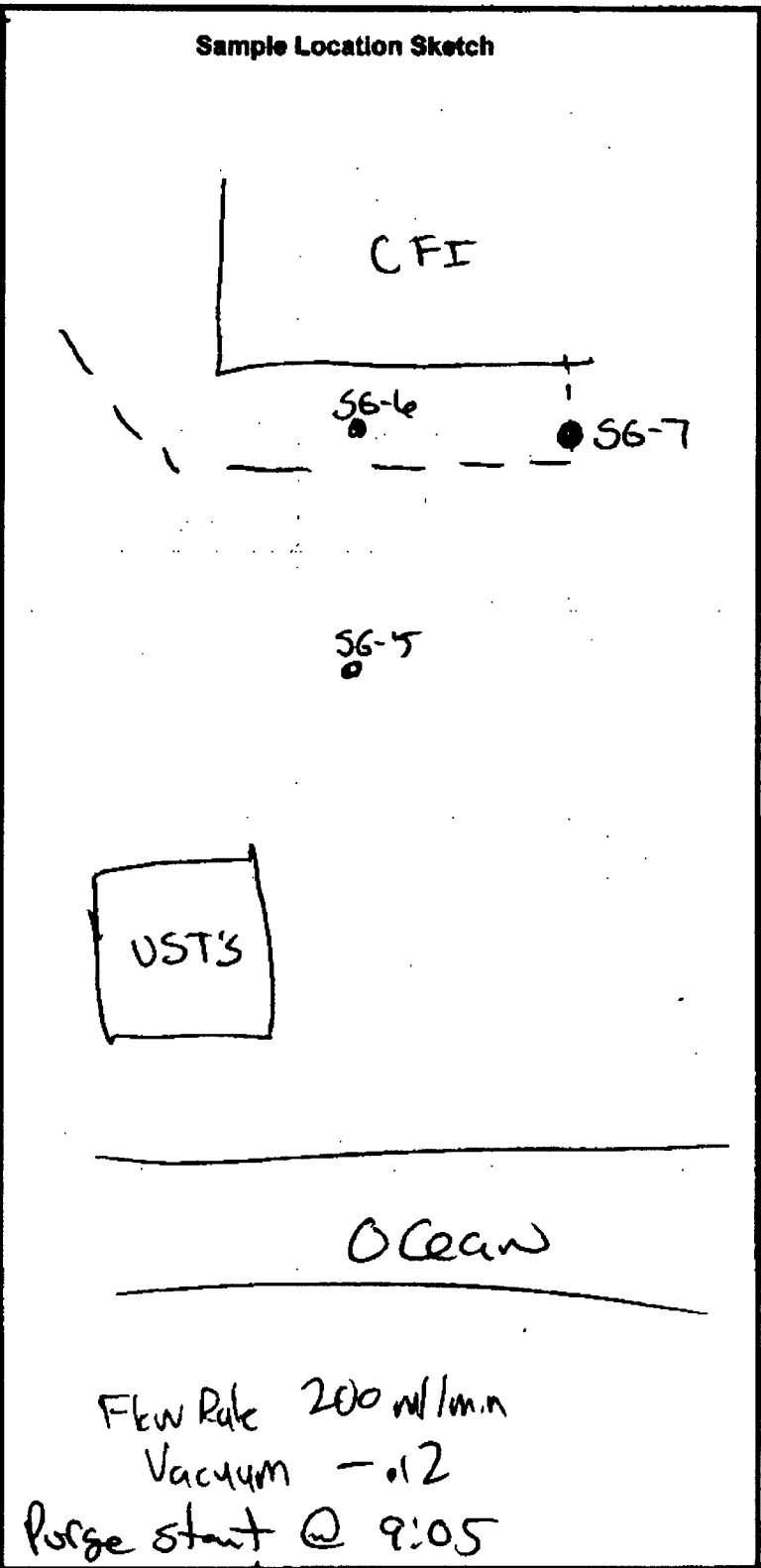


Rate 200 ml/min
Purge start @ 841
End 931

Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

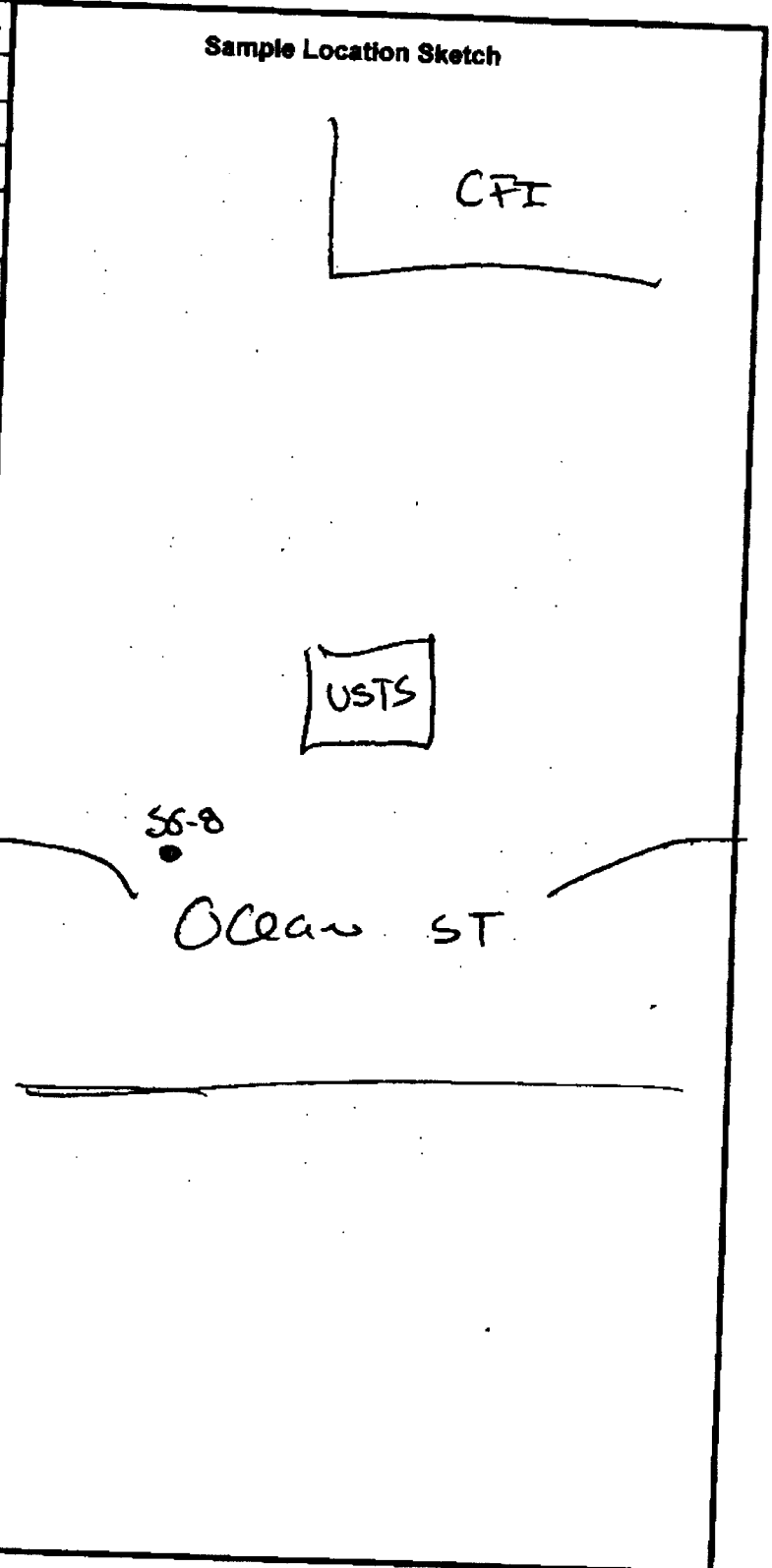
Site Name:	Washington Ave CFI
Town:	Portland
Date:	9/7/10
Sample I.D.:	SG-7
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	S. Brown
Project Manager:	P. Prescott
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Asphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	42"
Depth to Water:	UNK
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	207
Flow Control I.D.:	0059
Flow control rate:	200
O ₂ Ambient:	20.9
CO ₂ Ambient:	0.3
subsurface pressure/vacuum	-12 (inches of water column)
Pre-Sample O ₂ :	12.0
Pre-Sample CO ₂ :	5.0 OR
Pre-Sample PID:	0
Pre-Sample CH ₄ :	19 (% Volume, ALEL/PPM)
Sample Initiation Time:	920
Initial Vacuum:	-30
Sample End Time:	932
Final Vacuum:	-5
Post Sample O ₂ :	12.0
Post Sample CO ₂ :	5.0 OR



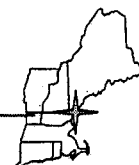
Notes: Sewer Line - Line depth 3.7'

Soil Gas Sampling Field Sheet
Maine DEP

Site Name:	Washington Ave CFI
Town:	Portland
Date:	9/7/10
Sample I.D.:	SG-8
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	S. Brown
Project Manager:	P. Prescott
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:	6.38'
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	337
Flow Control I.D.:	0426
Flow control rate:	200
O ₂ Ambient:	20.9
CO ₂ Ambient:	0.3
subsurface pressure/vacuum	50 OR (+/- inches of water column)
Pre-Sample O ₂ :	0.5
Pre-Sample CO ₂ :	5.00 OR
Pre-Sample PID:	14.3
Pre-Sample CH ₄ :	10% (% Volume MLEL PPM)
Sample Initiation Time:	946
Initial Vacuum:	-30
Sample End Time:	958
Final Vacuum:	-5
Post Sample O ₂ :	0.5
Post Sample CO ₂ :	5.00 OR



Notes:
Purge start @ 932
Rate 200 ml/min
Vacuum -50 OR
End 942



MONITORING WELL WATER SAMPLING DATA RECORD

Project: CFT Washington
Date: 1/10/11

Well I.D.: MW 1
Sampler(s): Seth Braun

Sampler Signature: [Signature]

WELL DATA

Water Depth [from Top of Casing]: 5.92
Well Diameter: 1" PVC
Integrity: Good

PURGE

Method: Geotech Peristaltic Pump w/ Flow Through Cell

Tubing Intake Depth: 7'

Start Time: 1350

Flow Rate: 150 ml/min

End Time(Sample Start): 1400

Final Readings

DO: ~~10.1~~ 3.7 mg/l
Turbidity: 10.1 ntu

Purge Water Observations (Color, Odor, Sheen):

Petrol Odor

Comments:



MONITORING WELL WATER SAMPLING DATA RECORD

Project: CFI Washington
Date: 1/10/11

Well I.D.: MW 2
Sampler(s): Seth Brown
Sampler Signature: Seth Brown

WELL DATA

Water Depth [from Top of Casing]: 5.67
Well Diameter: 1" PVC
Integrity: Good

PURGE

Method: Geotech Peristaltic Pump w/ Flow Through Cell

Tubing Intake Depth: 6.5'

Start Time: 1320

Flow Rate: 150 ml/min

End Time(Sample Start): 1330

Final Readings

DO: 4.0 mg/l
Turbidity: 15.2 ntu

Purge Water Observations (Color, Odor, Sheen): Petrol Odor

Comments:



MONITORING WELL WATER SAMPLING DATA RECORD

Project: CFI Washington
Date: 12/30/10

Well I.D.: MW 3
Sampler(s): Sehn Brann

Sampler Signature: [Signature]

WELL DATA

Water Depth [from Top of Casing]: 6.28
Well Diameter: 1" PVC
Integrity: Good

PURGE

Method: Geotech Peristaltic Pump w/ Flow Through Cell

Tubing Intake Depth: 7.25'

Start Time: 1320

Flow Rate: 150 ml/min

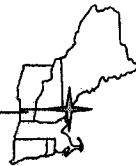
End Time(Sample Start): 1350

Final Readings

DO: 8.4
Turbidity: Slightly Silty

Purge Water Observations (Color, Odor, Sheen):

Comments:



MONITORING WELL WATER SAMPLING DATA RECORD

Project: CFI Washington
Date: 1/10/11

Well I.D.: MW 4
Sampler(s): Seth Brown

Sampler Signature: [Signature]

WELL DATA

Water Depth [from Top of Casing]: 5.48
Well Diameter: 1" PVC w/ casing
Integrity: Good

PURGE

Method: Geotech Peristaltic Pump w/ Flow Through Cell

Tubing Intake Depth: 6.5'

Start Time: 1410

Flow Rate: 150 ml/min

End Time(Sample Start): 1445

Final Readings

DO: 4.1 mg/l

Turbidity: 180 ntu

Purge Water Observations (Color, Odor, Sheen):

Comments:



MONITORING WELL WATER SAMPLING DATA RECORD

Project: CFI Washington
Date: 1/10/11

Well I.D.: MW 5
Sampler(s): Seth Brown

Sampler Signature: [Signature]

WELL DATA

Water Depth [from Top of Casing]: 4.90
Well Diameter: 1" PVC w/ casing
Integrity: Good

PURGE

Method: Geotech Peristaltic Pump w/ Flow Through Cell

Tubing Intake Depth: 6'

Start Time: 1520

Flow Rate: 150 ml/min

End Time(Sample Start): 1600

Final Readings

DO: 6.0 mg/l

Turbidity: 385 ntu

Purge Water Observations (Color, Odor, Sheen):

Comments:



MONITORING WELL WATER SAMPLING DATA RECORD

Project: CFL Washington
Date: 12/30/10

Well I.D.: MW 7
Sampler(s): Seth Brown
Sampler Signature: [Signature]

WELL DATA

Water Depth [from Top of Casing]: 6001
Well Diameter: 1" PVC
Integrity: Good

PURGE

Method: Geotech Peristaltic Pump w/ Flow Through Cell

Tubing Intake Depth: 7'

Start Time: 1245

Flow Rate: 150 ml/min

End Time(Sample Start): 1315

Final Readings

DO: 7.7
Turbidity: Clear

Purge Water Observations (Color, Odor, Sheen):

Comments:

**Soil Gas Sampling Field Sheet
Maine DEP**

Site Name:	CFE Washington
Town:	Portland
Date:	1/10/11
Sample I.D.:	SG-1
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	Brown
Project Manager:	
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Ashphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	4.5'
Depth to Water:	5.42' (MW 1)
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	474
Flow Control I.D.:	0263
Flow control rate:	200 ml/min
O ₂ Ambient:	20.9 %v
CO ₂ Ambient:	0.0 %v
subsurface pressure/vacuum	No Reflection (+/- inches of water column)
Pre-Sample O ₂ :	0.1 %v
Pre-Sample CO ₂ :	3.1 %v
Pre-Sample PID:	13.7 ppm
Pre-Sample CH ₄ :	Out of Range (Over 100) (% Volume, %LEL, PPM)
Sample Initiation Time:	1040
Initial Vacuum:	-29" Hg
Sample End Time:	1050
Final Vacuum:	-5" Hg
Post Sample O ₂ :	0.0 %v
Post Sample CO ₂ :	2.3 %v

Sample Location Sketch

Purge Start 1025
 Flow Rate 200 ml/min
 Vacuum -0.30 m H₂O
 End Purge 1030

Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

Site Name:	CPI Washington
Town:	Portland
Date:	1/10/11
Sample I.D.:	SG-2
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	Brown
Project Manager:	
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Asphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	4.0'
Depth to Water:	5.48' (MW4)
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	-
Flow Control I.D.:	-
Flow control rate:	-
O ₂ Ambient:	20.9 %v
CO ₂ Ambient:	0.0 %v
subsurface pressure/vacuum	No Reflection ^{+/- inches of water column}
Pre-Sample O ₂ :	-
Pre-Sample CO ₂ :	-
Pre-Sample PID:	-
Pre-Sample CH ₄ :	- (% Volume, %LEL, PPM)
Sample Initiation Time:	-
Initial Vacuum:	-
Sample End Time:	-
Final Vacuum:	-
Post Sample O ₂ :	-
Post Sample CO ₂ :	-

Sample Location Sketch

Vacuum 7 100" H₂O
 Flow Rate 4 10 ml/min
 No Flow
 No Sample Taken

Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

Site Name:	CPI Washington
Town:	Portland
Date:	1/10/11
Sample I.D.:	SG-3
Sampling Purpose	(Source) <u>(Utility)</u> (Mitigation) (Receptor) (Other)
Sampling Personnel:	Brown
Project Manager	
Collection Device:	<u>(Summa Can)</u> (Tedlar Bag)
Sample Penetration Location:	(Ashphalt) (Concrete) <u>(Soil)</u>
Soil Type:	<u>(Fill)</u> (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	4.5'
Depth to Water:	5.92' (MW #)
Suspected COCs:	<u>(Petroleum)</u> (Solvents)
Cannister I.D.:	318
Flow Control I.D.:	0449
Flow control rate:	200 ml/min
O ₂ Ambient	20.9 %v
CO ₂ Ambient	0.0 %v
subsurface pressure/vacuum	No Deflection (*/- Inches of water column)
Pre-Sample O ₂	0.0 %v
Pre-Sample CO ₂	3.0 %v
Pre-Sample PID:	25.0 ppm
Pre-Sample CH ₄ :	0 (% Volume) <u>(%LEL)</u> (PPM)
Sample Initiation Time:	1137
Initial Vacuum:	-29" Hg
Sample End Time:	1147
Final Vacuum:	-5" Hg
Post Sample O ₂	0.0 %v
Post Sample CO ₂ :	3.0 %v

Sample Location Sketch

Purge Start 1125

Flow Rate 200 ml/min

Vacuum @ 10" H₂O

with sudden spikes to -50" H₂O every 2-3 seconds

End Purge 1135

Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

Site Name:	CPI Washington
Town:	Portland
Date:	12/30/10
Sample I.D.:	SG-5
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	Brown
Project Manager:	
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Asphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	5.0' 4.0'
Depth to Water:	6.28' (MW 3)
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	529
Flow Control I.D.:	0423
Flow control rate:	200 ml/min
O ₂ Ambient:	20.9 %v
CO ₂ Ambient:	0.0 %v
subsurface pressure/vacuum	No deflection (+/- inches of water column)
Pre-Sample O ₂ :	11.2 %v
Pre-Sample CO ₂ :	8.1 %v
Pre-Sample PID:	0
Pre-Sample CH ₄ :	0 (% Volume, %LEL, PPM)
Sample Initiation Time:	903
Initial Vacuum:	-28" Hg
Sample End Time:	917
Final Vacuum:	-5" Hg
Post Sample O ₂ :	11.2 %v
Post Sample CO ₂ :	8.1 %v

Sample Location Sketch

Purge Start 850
Flow Rate 200 ml/min
Vacuum -0.05" H₂O
End 900

Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

Site Name:	CFL Washington
Town:	Portland
Date:	12/30/10
Sample I.D.:	56-7
Sampling Purpose	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	Brenn
Project Manager	
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Asphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	42"
Depth to Water:	6.01 (MW7)
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	177
Flow Control I.D.:	0308
Flow control rate:	200 ml/min
O ₂ Ambient	20.9 %v
CO ₂ Ambient	0.04 %v
subsurface pressure/vacuum	No Reflection (+/- inches of water column)
Pre-Sample O ₂	17.5 %v
Pre-Sample CO ₂	2.8 %v
Pre-Sample PID:	0
Pre-Sample CH ₄ :	0 (% Volume) (%LEL, PPM)
Sample Initiation Time:	845
Initial Vacuum:	-28" Hg
Sample End Time:	852
Final Vacuum:	-5" Hg
Post Sample O ₂	17.5 %v
Post Sample CO ₂ :	2.8 %v

Sample Location Sketch

Purge Start 830
 Vacuum -0.08" H₂O
 Flow Rate 200 ml/min
 End 840

Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

Site Name:	CFI Washington
Town:	Portland
Date:	1/10/11
Sample I.D.:	56-0
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	Brown
Project Manager:	
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Asphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	4.0'
Depth to Water:	5.67' (MW 2)
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	1774
Flow Control I.D.:	0161
Flow control rate:	200 ml/min
O ₂ Ambient:	20.9 %v
CO ₂ Ambient:	0.0 %v
subsurface pressure/vacuum	N ₂ deflection (+/- inches of water column)
Pre-Sample O ₂ :	5.5 %v
Pre-Sample CO ₂ :	- (Meter Malfunction)
Pre-Sample PID:	34
Pre-Sample CH ₄ :	- (Meter Malfunction) (% Volume, %LEL, PPM)
Sample Initiation Time:	1200
Initial Vacuum:	-29" Hg
Sample End Time:	1210
Final Vacuum:	-5" Hg
Post Sample O ₂ :	5.6 %v
Post Sample CO ₂ :	- (Meter Malfunction)

Sample Location Sketch

Purge Start 1145
 Flow Rate 200 ml/min
 Vacuum - .14" H₂O
 End 1155

Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

Site Name:	CFI Washington
Town:	Portland
Date:	1/11/11
Sample I.D.:	SG-11
Sampling Purpose:	(Source) <u>(Utility)</u> (Mitigation) (Receptor) (Other)
Sampling Personnel:	Brown
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:	3.5'
Depth to Water:	4.90 (MW5)
Suspected COCs:	<u>(Petroleum)</u> (Solvents)
Cannister I.D.:	247
Flow Control I.D.:	0330
Flow control rate:	200 ml/min
O ₂ Ambient:	20.9 %v
CO ₂ Ambient:	0.0 %v
subsurface pressure/vacuum	No deflection (+/- Inches of water column)
Pre-Sample O ₂ :	20.7 %v
Pre-Sample CO ₂ :	0.4 %v
Pre-Sample PID:	0.09
Pre-Sample CH ₄ :	Out of Range <u>Over 100</u> (% Volume, %LEL, PPM)
Sample Initiation Time:	1117
Initial Vacuum:	-24" Hg
Sample End Time:	1127
Final Vacuum:	-5" Hg
Post Sample O ₂ :	14.49 %v
Post Sample CO ₂ :	0.7 %v

Sample Location Sketch

Start Pump 1100
Flow 200 ml/min
Vacuum 0.49" H₂O
End 1110

Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

Site Name:	CFL Washington
Town:	Portland
Date:	12/30/10
Sample I.D.:	SG-12
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	Brown
Project Manager:	
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Asphalt) (Concrete) (Soil)
Soil Type:	(FIM) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	4'
Depth to Water:	6.01 (MWD) March
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	509
Flow Control I.D.:	0332
Flow control rate:	200 ml/min
O ₂ Ambient:	20.9 %v
CO ₂ Ambient:	0.0 %v
subsurface pressure/vacuum	No Deflection (+/- inches of water column)
Pre-Sample O ₂ :	12.3 %v
Pre-Sample CO ₂ :	6.9 %v
Pre-Sample PID:	0
Pre-Sample CH ₄ :	0 (% Volume, %LEL, PPM)
Sample Initiation Time:	945
Initial Vacuum:	-28" Hg
Sample End Time:	956
Final Vacuum:	-5" Hg
Post Sample O ₂ :	12.6 %v
Post Sample CO ₂ :	6.6 %v

Sample Location Sketch

Start Purge 930
Flow Rate 200 ml/min
Vacuum -60" H₂O
End Purge 940

Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

Site Name:	CPI Washington
Town:	Portland
Date:	12/30/10
Sample I.D.:	SG-13
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	Brown
Project Manager:	
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:	6.28' (MW 3)
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	473
Flow Control I.D.:	0367
Flow control rate:	200 ml/min
O ₂ Ambient:	20.9% v
CO ₂ Ambient:	0.0% v
subsurface pressure/vacuum	No Deflection (+/- inches of water column)
Pre-Sample O ₂ :	10.3% v
Pre-Sample CO ₂ :	0.6% v
Pre-Sample PID:	0
Pre-Sample CH ₄ :	0 (% Volume) (%LEL) (PPM)
Sample Initiation Time:	925
Initial Vacuum:	-28" Hg
Sample End Time:	934
Final Vacuum:	-5" Hg
Post Sample O ₂ :	10.7% v
Post Sample CO ₂ :	0.7% v

Sample Location Sketch

Purge Start 911
 Flow Rate 200 ml/min
 Vacuum -0.05" H₂O
 End 921

Notes:

Soil Gas Sampling Field Sheet
Maine DEP

Site Name:	CFI Washington
Town:	Portland
Date:	12/30/10
Sample I.D.:	SG-15
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	Brown
Project Manager:	
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Asphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	3.5'
Depth to Water:	6.01' (MW7)
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	366
Flow Control I.D.:	0223
Flow control rate:	200 ml/min
O ₂ Ambient:	20.9 %v
CO ₂ Ambient:	0.0 %v
subsurface pressure/vacuum	No Deflection +/- Inches of water column
Pre-Sample O ₂ :	19.9 %v
Pre-Sample CO ₂ :	1.3 %v
Pre-Sample PID:	0
Pre-Sample CH ₄ :	0 (% Volume, %LEL, PPM)
Sample Initiation Time:	826
Initial Vacuum:	-28" Hg
Sample End Time:	837
Final Vacuum:	-4" Hg
Post Sample O ₂ :	19.9 %v
Post Sample CO ₂ :	1.2 %v

Sample Location Sketch

Purge Start 815
Flow Rate 200 ml/min
Vacuum -0.80" H₂O
End 825

Notes:

**Soil Gas Sampling Field Sheet
Maine DEP**

Site Name:	CFI Washington
Town:	Portland
Date:	1/11/11
Sample I.D.:	SG-19
Sampling Purpose:	(Source) (Utility) (Mitigation) (Receptor) (Other)
Sampling Personnel:	Brown
Project Manager:	
Collection Device:	(Summa Can) (Tedlar Bag)
Sample Penetration Location:	(Asphalt) (Concrete) (Soil)
Soil Type:	(Fill) (Till) (Sand & Gravel) (Glacial Marine)
Sample Depth:	3.5'
Depth to Water:	5.40' (MW 4)
Suspected COCs:	(Petroleum) (Solvents)
Cannister I.D.:	552
Flow Control I.D.:	0010
Flow control rate:	200 ml/min
O ₂ Ambient:	20.9 %v
CO ₂ Ambient:	0.0 %v
subsurface pressure/vacuum	No Reflection (+/- inches of water column)
Pre-Sample O ₂ :	0.0 %v
Pre-Sample CO ₂ :	1.1 %v
Pre-Sample PID:	0
Pre-Sample CH ₄ :	Out of Range (% Volume LEL PPM)
Sample Initiation Time:	1057
Initial Vacuum:	-29" Hg
Sample End Time:	1107
Final Vacuum:	-5" Hg
Post Sample O ₂ :	0.0 %v
Post Sample CO ₂ :	1.1 %v

Sample Location Sketch

Notes:

APPENDIX 4
Laboratory Reports

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

Report Number: 67655

Revision: Rev. 0

Re: MAI 381-10

Enclosed are the results of the analyses on your sample(s). Samples were received on 02 September 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.

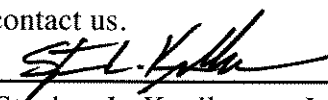
<u>Lab Number</u>	<u>Sample Date</u>	<u>Station Location</u>	<u>Analysis</u>	<u>Comments</u>
67655-1	08/31/10	B1 5-7'	Volatile Petroleum Hydrocarbons	
67655-2	08/31/10	B3 5-7'	Volatile Petroleum Hydrocarbons	
67655-3	08/31/10	B5 5-10'	Electronic Data Deliverable	
	08/31/10	B5 5-10'	Volatile Petroleum Hydrocarbons	

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

9/14/2010

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

September 14, 2010

CLIENT SAMPLE ID

Project Name: MAI 381-10

Project Number:

Client Sample ID: B1 5-7'

SAMPLE DATA

Lab Sample ID: 67655-1
Matrix: Solid
Percent Solid: 83
Dilution Factor: 61
Collection Date: 08/31/10
Lab Receipt Date: 09/02/10
Analysis Date: 09/08/10

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	3050	µg/kg	U
Unadjusted C9-C12 Aliphatics ¹	N/A	3050	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 Aliphatic Hydrocarbons ^{1,2}	N/A	3050	µg/kg	U
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	3050	µg/kg	U
C9-C10 Aromatic Hydrocarbons ¹	N/A	610	µg/kg	U
Surrogate % Recovery (2,5-Dibromotoluene) PID				100
Surrogate % Recovery (2,5-Dibromotoluene) FID				111
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 dry weight basis.

Authorized signature: *M. Kodis*

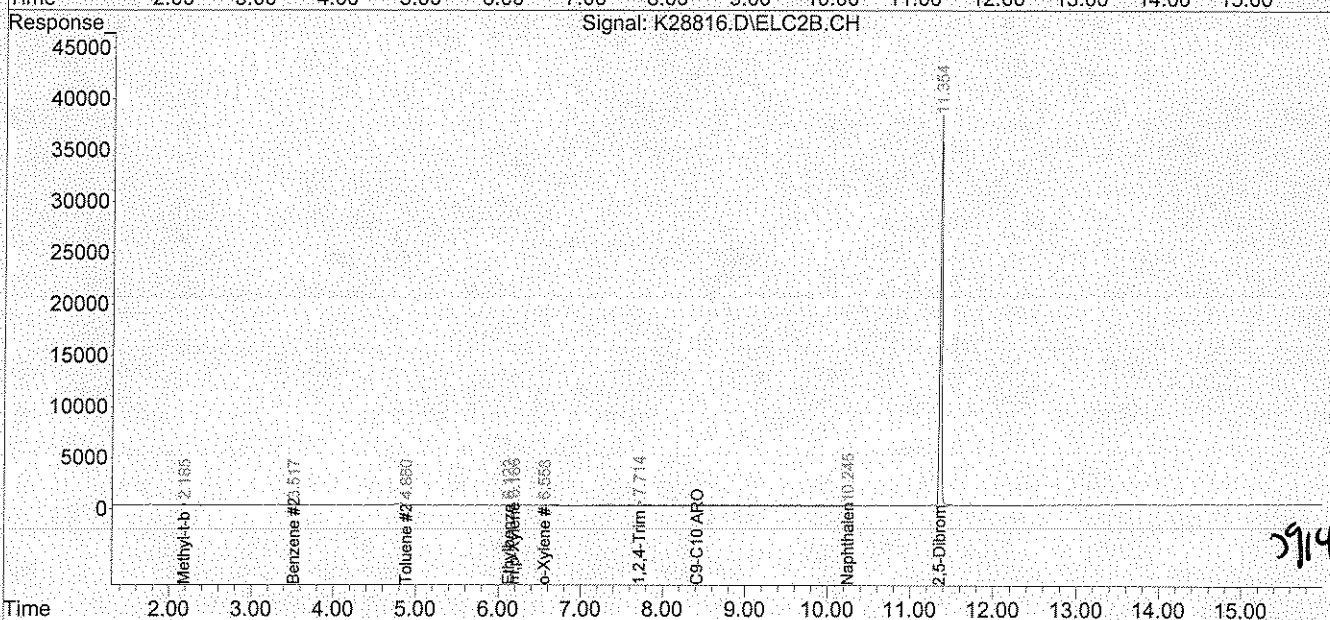
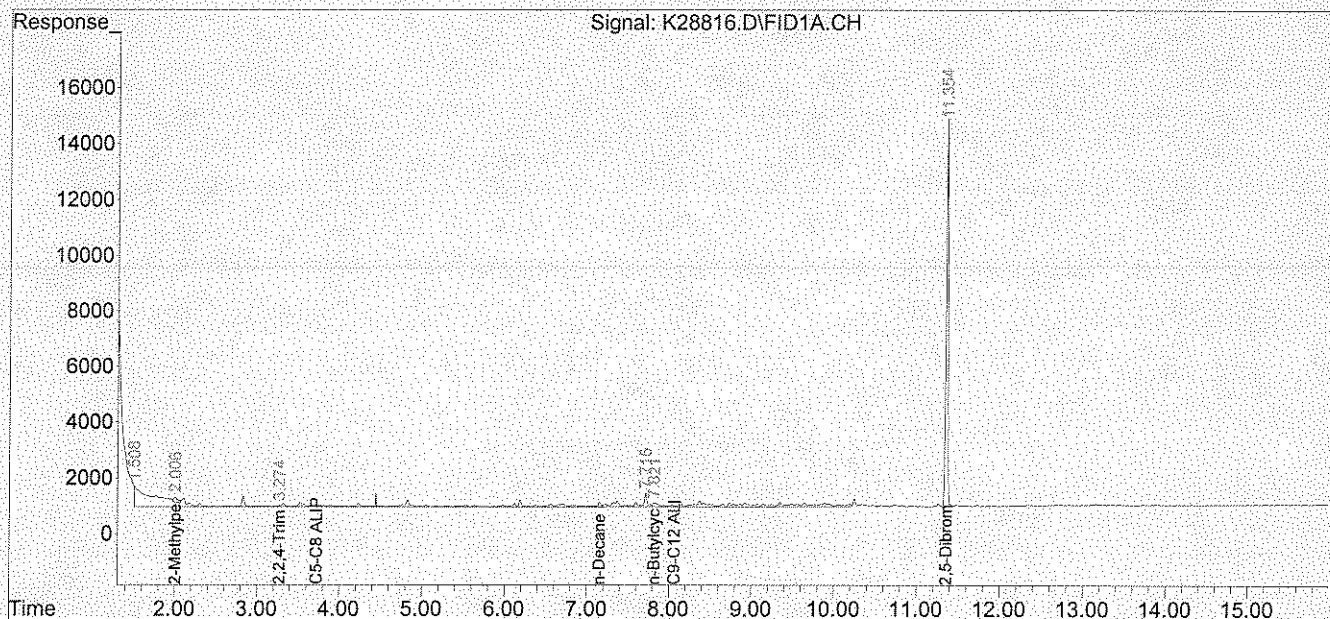
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\090810-K\
Data File : K28816.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 08 Sep 2010 8:05 pm
Operator : JJL
Sample : 67655-1
Misc : 100,9.98,SOIL
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 11:52:12 2010
Quant Method : C:\msdchem\1\METHODS\VPH070110.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Sun Jul 04 08:52:25 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

gg 9/9/10

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



gg 9/9/10

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

September 14, 2010

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: MAI 381-10
Project Number:
Client Sample ID: B3 5-7'

Lab Sample ID: 67655-2
Matrix: Solid
Percent Solid: 79
Dilution Factor: 77
Collection Date: 08/31/10
Lab Receipt Date: 09/02/10
Analysis Date: 09/08/10

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	3850	µg/kg	45400
Unadjusted C9-C12 Aliphatics ¹	N/A	3850	µg/kg	61400
Benzene	C5-C8	150	µg/kg	U
Ethylbenzene	C9-C12	150	µg/kg	516
Methyl-tert-butyl ether	C5-C8	150	µg/kg	140 J
Naphthalene	N/A	150	µg/kg	300
Toluene	C5-C8	150	µg/kg	U
m- & p-Xylenes	C9-C12	310	µg/kg	240 J
o-Xylene	C9-C12	150	µg/kg	151 J
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	3850	µg/kg	45300
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	3850	µg/kg	44100
C9-C10 Aromatic Hydrocarbons ¹	N/A	770	µg/kg	16400
Surrogate % Recovery (2,5-Dibromotoluene) PID				112
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.
Results are expressed on a dry weight basis.

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

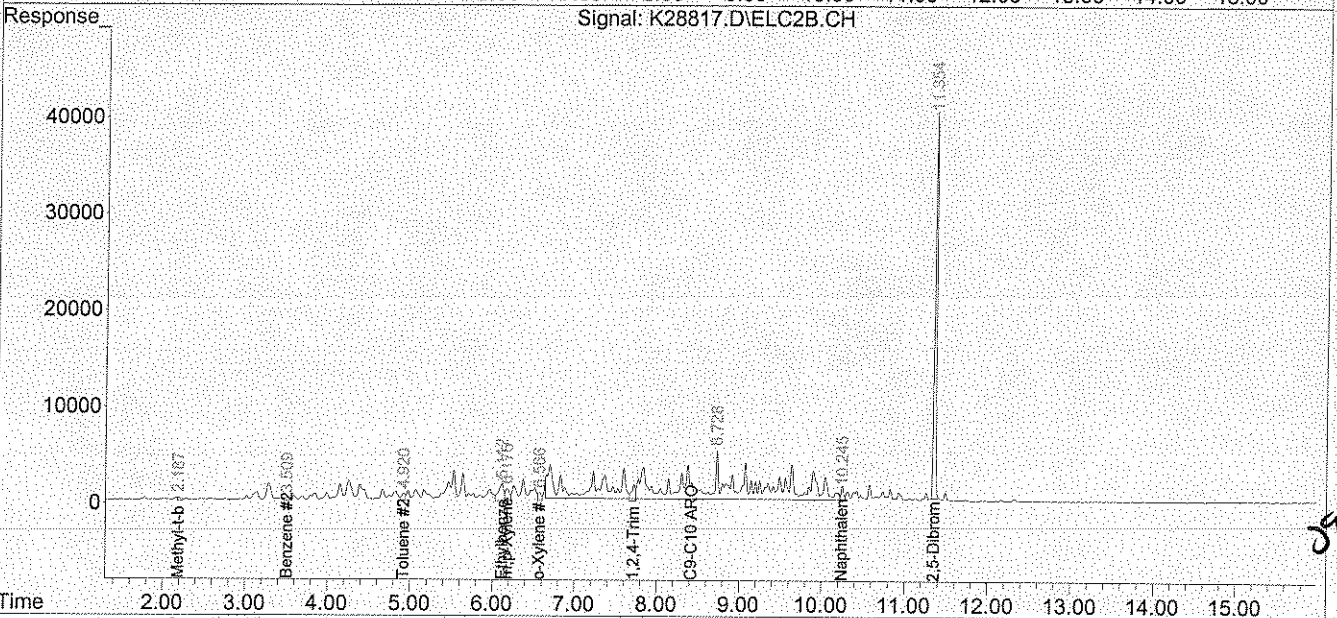
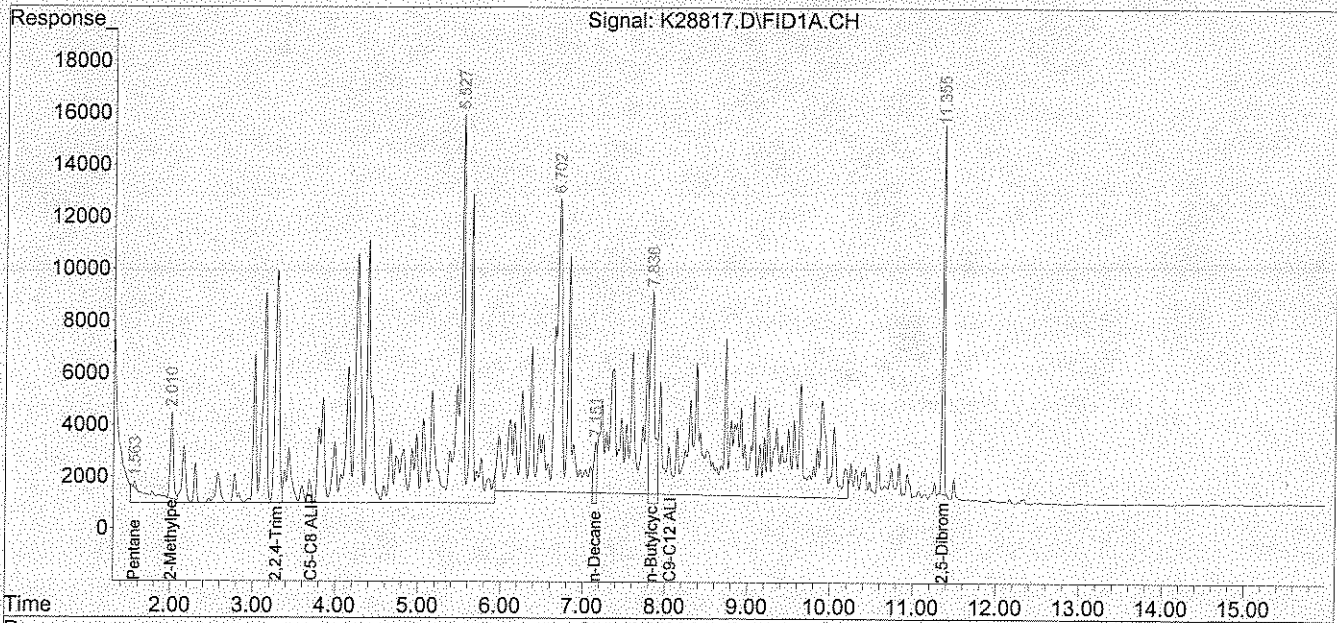
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\090810-K\
Data File : K28817.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 08 Sep 2010 8:30 pm
Operator : JJL
Sample : 67655-2
Misc : 100,9.94,SOIL
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 10:45:24 2010
Quant Method : C:\msdchem\1\METHODS\VPH070110.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Sun Jul 04 08:52:25 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

9/9/10

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



574W

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

September 14, 2010

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: MAI 381-10

Project Number:

Client Sample ID: B5 5-10'

Lab Sample ID: 67655-3
Matrix: Solid
Percent Solid: 88
Dilution Factor: 57
Collection Date: 08/31/10
Lab Receipt Date: 09/02/10
Analysis Date: 09/08/10

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	2850	µg/kg	51300
Unadjusted C9-C12 Aliphatics ¹	N/A	2850	µg/kg	53500
Benzene	C5-C8	110	µg/kg	U
Ethylbenzene	C9-C12	110	µg/kg	401
Methyl-tert-butyl ether	C5-C8	110	µg/kg	155
Naphthalene	N/A	110	µg/kg	751
Toluene	C5-C8	110	µg/kg	U
m- & p-Xylenes	C9-C12	230	µg/kg	727
o-Xylene	C9-C12	110	µg/kg	106 J
C5-C8 Aliphatic Hydrocarbons ^{1,2}	N/A	2850	µg/kg	51200
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	2850	µg/kg	31700
C9-C10 Aromatic Hydrocarbons ¹	N/A	570	µg/kg	20600
Surrogate % Recovery (2,5-Dibromotoluene) PID				100
Surrogate % Recovery (2,5-Dibromotoluene) FID				107
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 dry weight basis.

Authorized signature: *M. M. M.*

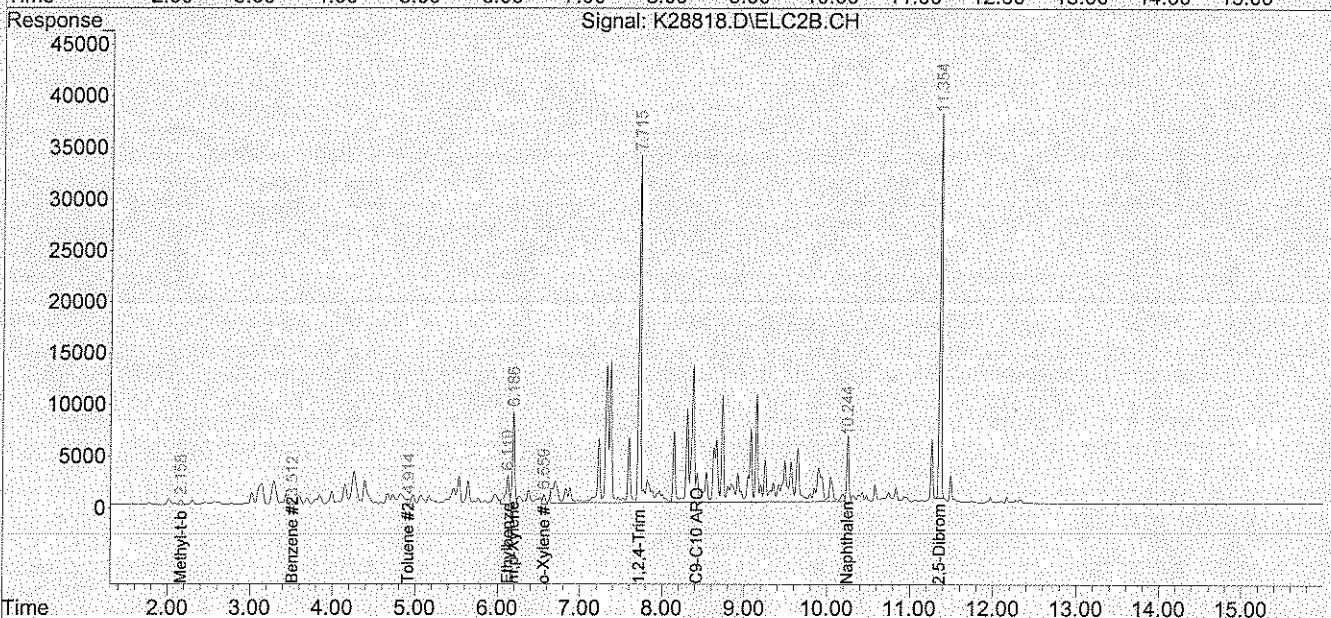
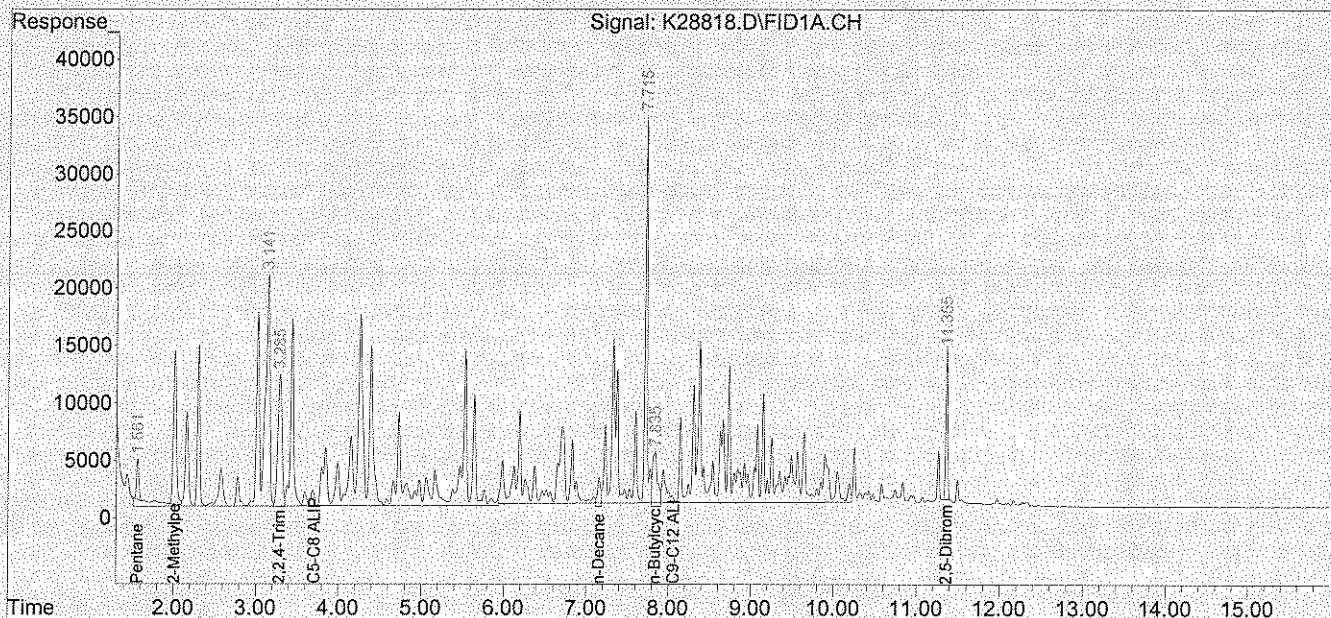
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\090810-K\
 Data File : K28818.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 08 Sep 2010 8:54 pm
 Operator : JJL
 Sample : 67655-3
 Misc : 100,11.32,SOIL
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 09 11:54:26 2010
 Quant Method : C:\msdchem\1\METHODS\VPH070110.M
 Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
 QLast Update : Sun Jul 04 08:52:25 2010
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

JJL 9/9/10

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



59140

ABC
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

P. Prescott

TELEPHONE

FAX # / E-MAIL

COMPANY

PURCHASE ORDER # / BILL TO

ADDRESS

PROJECT NAME

MAJ 381-10

SAMPLER NAME

SAMPLE IDENTIFICATION	# CONTAINERS	TYPE OF CONTAINERS	FIELD FILTRATION		SAMPLE MATRIX	COMP.	METHOD PRESERVED	SAMPLING	
			YES	NO				DATE	TIME
1 5-7'	1/1	vov	X		Soil		Method #6 Epic 800	09/13/10	11:00
3 5-7'	1		X		I				
5 5-10'	1		X		I				

Received within hold time

Received in good condition

Temp. Blank °C **4.7°** / Frozen ice packs

Samples received preserved

RELINQUISHED BY SAMPLER:

RELINQUISHED BY:

RELINQUISHED BY:

Received within hold time yes no

Received in good condition yes no

Temp. Blank °C **4.7°** / Frozen ice packs yes no

Samples received preserved yes no

RELINQUISHED BY SAMPLER:

RELINQUISHED BY:

RELINQUISHED BY:

ANALYSES

LABORATORY REPORT #

Delivered by

Coler # 111

TURNAROUND REQUEST

Standard **9/13/10**

Priority (SURCHARGE)

Quote # **ME2120101-35**

LABORATORY IDENTIFICATION/
SUBCONTRACTOR

67655-1

2

3

HDP XXX

COMMENTS

MEDEP EDD (CFI - Washington Labels Id by JBB 9/2/10 Ave.)

RECEIVED BY:

RECEIVED BY:

RECEIVED BY LABORATORY:

DATE

DATE

DATE

TIME

TIME

TIME

09/02/10 14:33

09/02/10 14:33

09/02/10 14:33

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

Report Number: 67731

Revision: Rev. 0

Re: MAI 383-10

Enclosed are the results of the analyses on your sample(s). Samples were received on 10 September 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.

<u>Lab Number</u>	<u>Sample Date</u>	<u>Station Location</u>	<u>Analysis</u>	<u>Comments</u>
67731-1	09/07/10	MW-1	Volatile Petroleum Hydrocarbons	
67731-2	09/07/10	MW-2	Volatile Petroleum Hydrocarbons	
67731-3	09/07/10	MW-3	Electronic Data Deliverable	
	09/07/10	MW-3	Volatile Petroleum Hydrocarbons	

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

9/17/2010

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

September 17, 2010

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: MAI 383-10
Project Number:
Client Sample ID: MW-1

Lab Sample ID: 67731-1
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 10
Collection Date: 09/07/10
Lab Receipt Date: 09/10/10
Analysis Date: 09/14/10

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	500	µg/L	4340
Unadjusted C9-C12 Aliphatics	N/A	500	µg/L	6410
Benzene	C5-C8	20	µg/L	1550
Ethylbenzene	C9-C12	20	µg/L	1150
Methyl-tert-butyl ether	C5-C8	20	µg/L	1550
Naphthalene	N/A	20	µg/L	135
Toluene	C5-C8	20	µg/L	160
m- & p-Xylenes	C9-C12	40	µg/L	1280
o-Xylene	C9-C12	20	µg/L	207
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	500	µg/L	1080
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	500	µg/L	2210
C9-C10 Aromatic Hydrocarbons ¹	N/A	100	µg/L	1560
Surrogate % Recovery (2,5-Dibromotoluene) PID				94
Surrogate % Recovery (2,5-Dibromotoluene) FID				95
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.

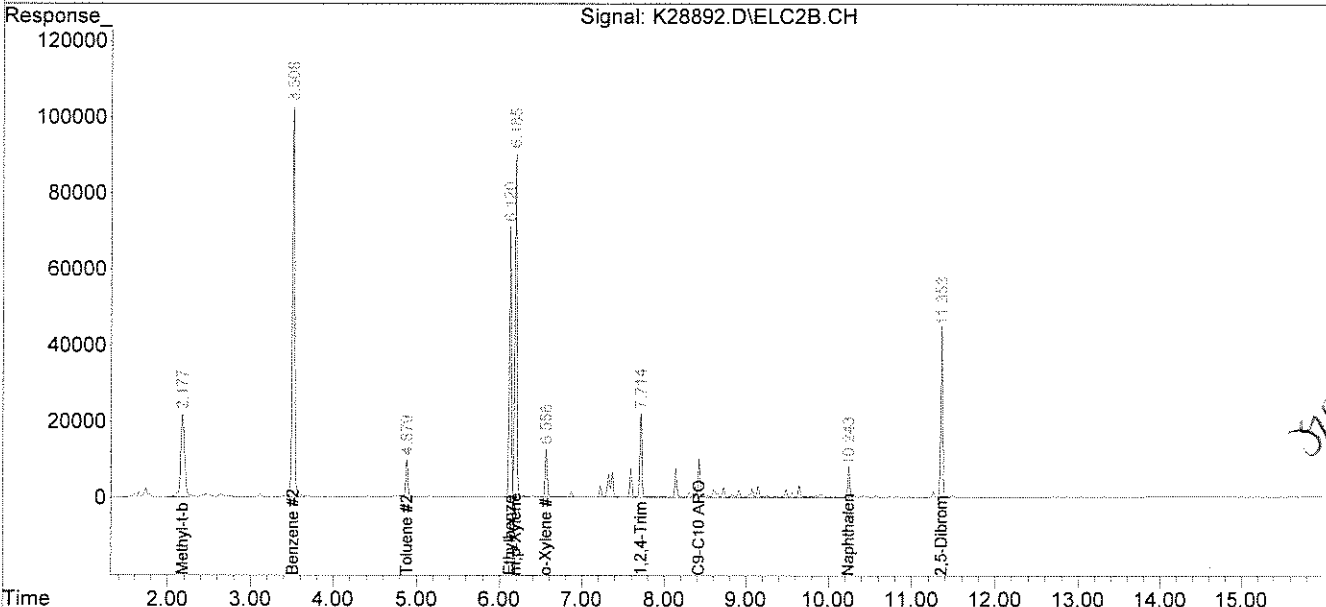
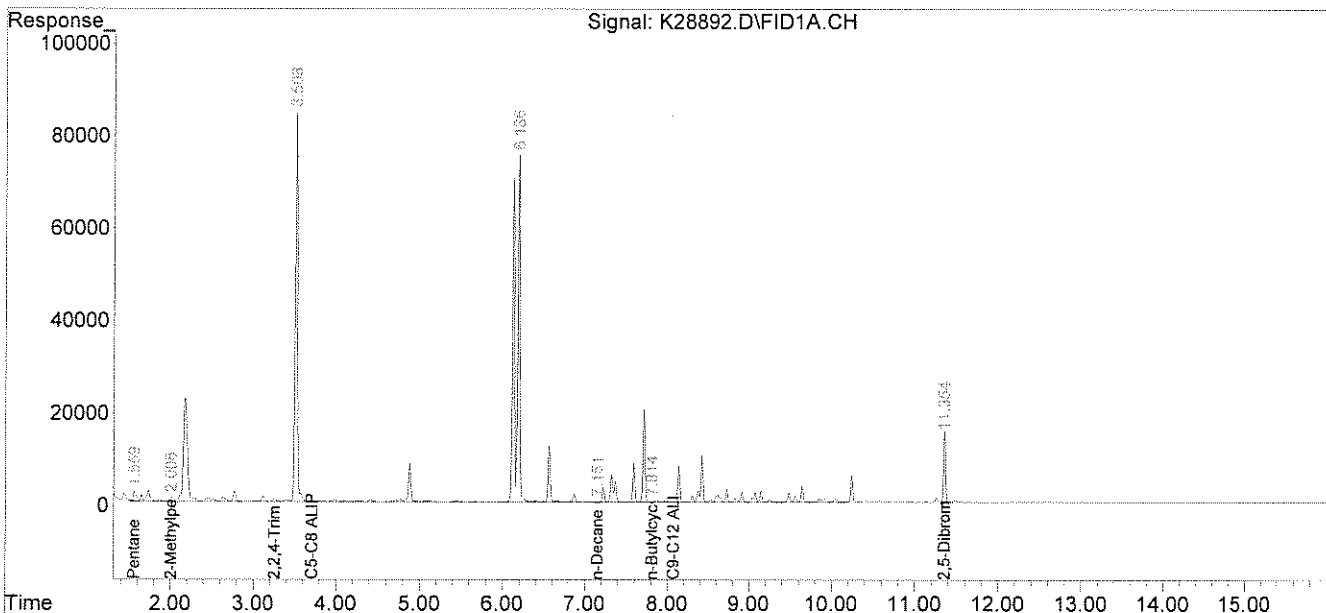
Authorized signature: *M. J. Bell*

Data Path : C:\msdchem\1\DATA\091410-K\
 Data File : K28892.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 14 Sep 2010 1:06 pm
 Operator : JJL
 Sample : 67731-1,10X
 Misc : 500
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 15 08:58:58 2010
 Quant Method : C:\msdchem\1\METHODS\VPH072210.M
 Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
 QLast Update : Fri Jul 23 15:04:23 2010
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

JJL 9/15/10

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



JJL

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

September 17, 2010

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: MAI 383-10
Project Number:
Client Sample ID: MW-2

Lab Sample ID: 67731-2
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 09/07/10
Lab Receipt Date: 09/10/10
Analysis Date: 09/13/10

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	50	µg/L	667
Unadjusted C9-C12 Aliphatics	N/A	50	µg/L	192
Benzene	C5-C8	2	µg/L	105
Ethylbenzene	C9-C12	2	µg/L	3
Methyl-tert-butyl ether	C5-C8	2	µg/L	15
Naphthalene	N/A	2	µg/L	3
Toluene	C5-C8	2	µg/L	2 J
m- & p-Xylenes	C9-C12	4	µg/L	4
o-Xylene	C9-C12	2	µg/L	U
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	50	µg/L	545
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	50	µg/L	89
C9-C10 Aromatic Hydrocarbons ¹	N/A	10	µg/L	96
Surrogate % Recovery (2,5-Dibromotoluene) PID				105
Surrogate % Recovery (2,5-Dibromotoluene) FID				98
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.

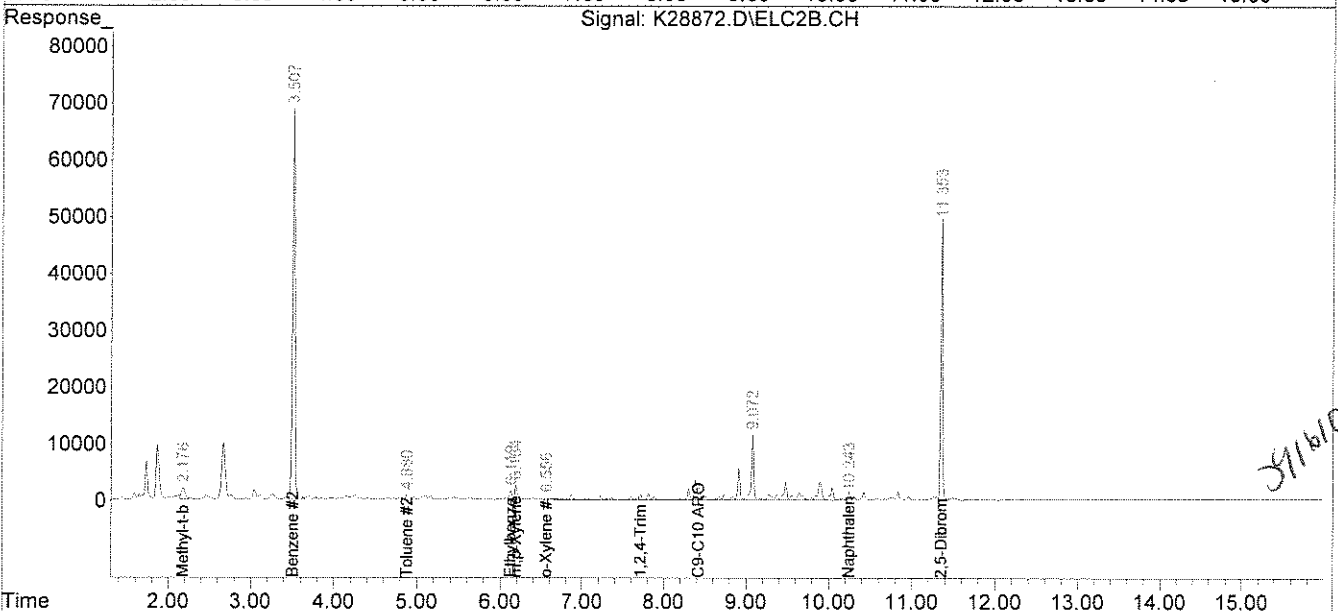
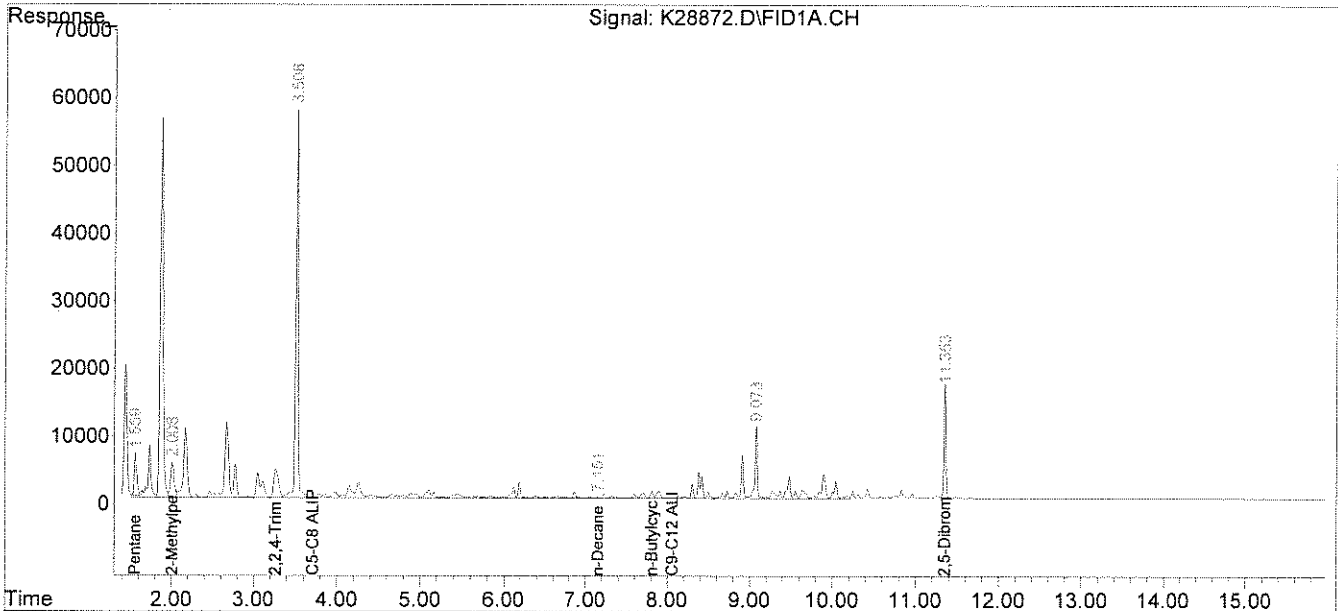
Authorized signature: *M. P. Hill*

Data Path : C:\msdchem\1\DATA\091310-K\
 Data File : K28872.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 13 Sep 2010 4:47 pm
 Operator : JJL
 Sample : 67731-2
 Misc : 5000
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 14 08:51:39 2010
 Quant Method : C:\msdchem\1\METHODS\VPH072210.M
 Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
 QLast Update : Fri Jul 23 15:04:23 2010
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

9/14/10

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



9/14/10

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

September 17, 2010

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: MAI 383-10
Project Number:
Client Sample ID: MW-3

Lab Sample ID: 67731-3
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 10
Collection Date: 09/07/10
Lab Receipt Date: 09/10/10
Analysis Date: 09/14/10

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	500	µg/L	3140
Unadjusted C9-C12 Aliphatics	N/A	500	µg/L	4600
Benzene	C5-C8	20	µg/L	14 J
Ethylbenzene	C9-C12	20	µg/L	101
Methyl-tert-butyl ether	C5-C8	20	µg/L	29
Naphthalene	N/A	20	µg/L	51
Toluene	C5-C8	20	µg/L	U
m- & p-Xylenes	C9-C12	40	µg/L	355
o-Xylene	C9-C12	20	µg/L	25
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	500	µg/L	3100
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	500	µg/L	1720
C9-C10 Aromatic Hydrocarbons ¹	N/A	100	µg/L	2400
Surrogate % Recovery (2,5-Dibromotoluene) PID				90
Surrogate % Recovery (2,5-Dibromotoluene) FID				91
Surrogate Acceptance Range				70-130%

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

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

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

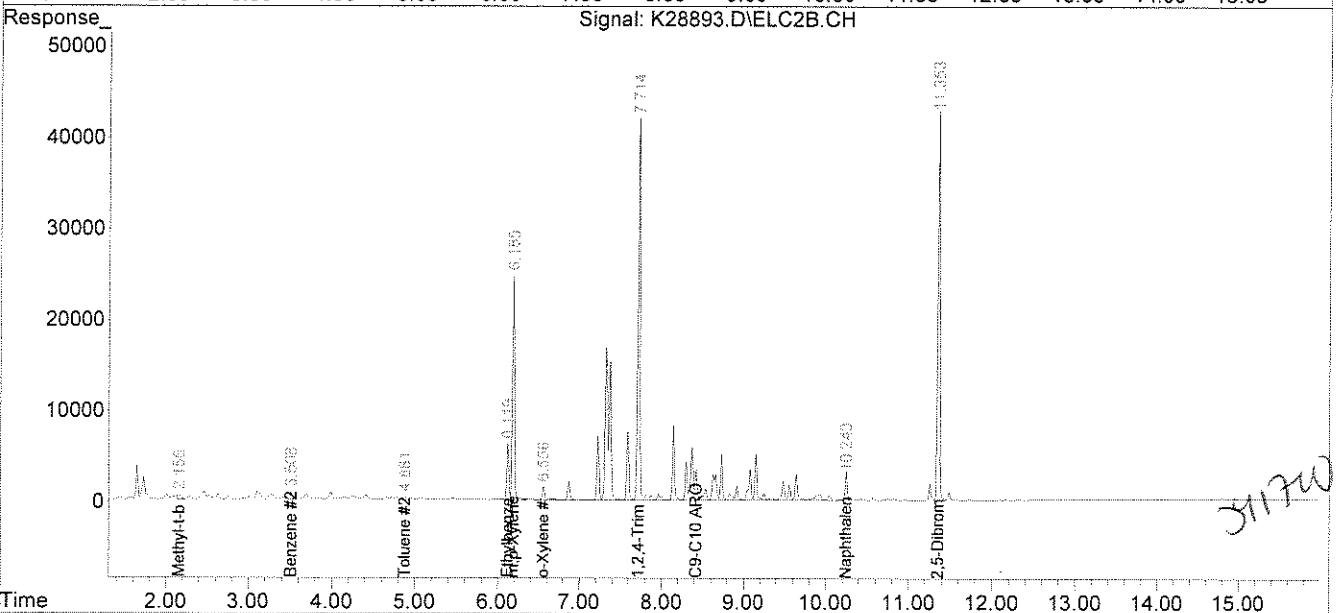
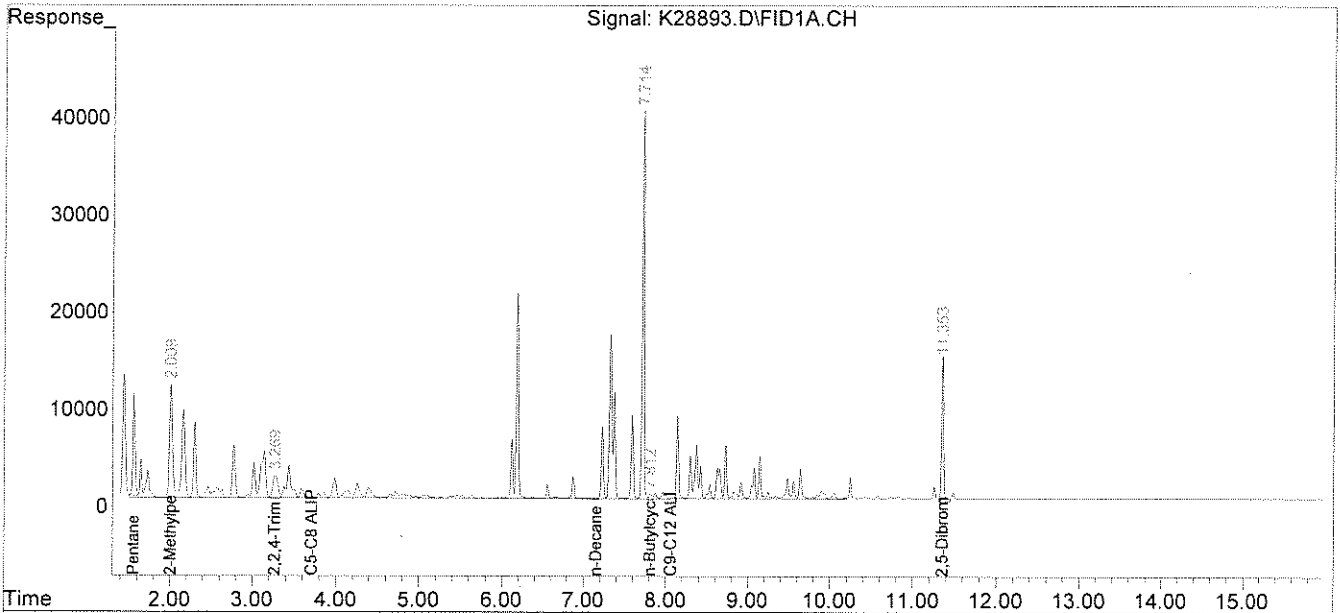
Authorized signature: 

Data Path : C:\msdchem\1\DATA\091410-K\
Data File : K28893.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14 Sep 2010 1:30 pm
Operator : JJL
Sample : 67731-3,10X
Misc : 500
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 15 08:59:26 2010
Quant Method : C:\msdchem\1\METHODS\VPH072210.M
Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
QLast Update : Fri Jul 23 15:04:23 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

gg 9/15/10

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. Kedis
 COMPANY:
 ADDRESS:
 PURCHASE ORDER # / BILL TO:
 TELEPHONE:
 FAX # / E-MAIL:
 TEL:
 FAX:
 TEL:
 FAX:
 TEL:
 FAX:

PROJECT NAME: MAI 383-10

SAMPLER NAME

CONTAINERS

TYPE OF CONTAINERS

FIELD FILTRATION

SAMPLE MATRIX

COMP. GRAB

METHOD PRESERVED

SAMPLING DATE

SAMPLING TIME

SAMPLE IDENTIFICATION

MW-1
 MW-2
 MW-3

3
 3
 3

✓
 ↓
 ↓

x
 x
 x

AQ
 ↓
 ↓

x
 x
 x

HCL/200
 ↓
 ↓

9/7/10
 ↓
 ↓

1100
 850
 940

x
 x
 x

67731-1
 -2
 -3

LABORATORY IDENTIFICATION/SUBCONTRACTOR

VPH

BB 9/10/10

Received within hold time yes no
 Received in good condition yes no
 Temp. Blank °C 1-30 / Frozen ice packs yes no
 Samples received preserved yes no

Custody seal present yes no
 N/A N/A
 N/A N/A
 N/A N/A
 Labels ✓ by CP 9/10/10

COMMENTS: ME DEP EDD (CFI - Washington Ave)
 Level I QA/QC w/Chromatographs

LABORATORY REPORT #
 Delivered by
 TURNAROUND REQUEST
 Standard 9/17
 Priority (SURCHARGE)
 Quote # MEL3120101-35

RELINQUISHED BY-SAMPLER: *[Signature]*
 RELINQUISHED BY: *[Signature]*
 RELINQUISHED BY: *[Signature]*

RECEIVED BY:	DATE:	TIME:
<i>[Signature]</i>	9/10/10	4:30
RECEIVED BY LABORATORY:	DATE:	TIME:
<i>[Signature]</i>		

LABORATORY REPORT #

ANALYTICS SAMPLE RECEIPT CHECKLIST



AEL LAB#: 67731
 CLIENT: MEL
 PROJECT: MAI 383-10

COOLER NUMBER: 60
 NUMBER OF COOLERS: 1
 DATE RECEIVED: 9/10/10

A: PRELIMINARY EXAMINATION:

DATE COOLER OPENED: 9/10/10
 Date Received: 9/10/10

1. Cooler received by (initials): JB
 2. Circle one: Hand delivered (If so, skip 3)
 3. Did cooler come with a shipping slip? Y
 3a. Enter carrier name and airbill number here: NA

Shipped Y
NA

4. Were custody seals on the outside of cooler?
 How many & where: NA Seal Date: NA

Y NA
 Seal Name: NA

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

Y NA

6. COC#: NA

7. Were Custody papers filled out properly (ink, signed, etc)? Y N

Y N

8. Were custody papers sealed in a plastic bag? Y N

Y N

9. Did you sign the COC in the appropriate place? Y N

Y N

10. Was the project identifiable from the COC papers? Y N

Y N

11. Was enough ice used to chill the cooler? Y N Temp. of cooler: 1-3°C

B. Log-In: Date samples were logged in: 9/10/10

By: JB

12. Type of packing in cooler (bubble wrap, popcorn) Y N

Y N

13. Were all bottles sealed in separate plastic bags? Y N

Y N

14. Did all bottles arrive unbroken and were labels in good condition? Y N

Y N

15. Were all bottle labels complete (ID, Date, time, etc.) Y N

Y N

16. Did all bottle labels agree with custody papers? Y N

Y N

17. Were the correct containers used for the tests indicated? Y N

Y N

18. Were samples received at the correct pH? Y NA

Y NA

19. Was sufficient amount of sample sent for the tests indicated? Y N

Y N

20. Were bubbles absent in VOA samples? Y N

Y N

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

21. Laboratory labeling verified by (initials): CP

Date: 9/10/10

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

Report Number: 68856

Revision: Rev. 0

Re: DEP 2540-11


Enclosed are the results of the analyses on your sample(s). Samples were received on 13 January 2011 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 01/24/2011

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

**CLIENT: Maine Environmental Laboratory, REPORT NUMBER: 68856
Inc.**

REV: Rev. 0

PROJECT: DEP 2540-11

<u>Lab Number</u>	<u>Sample Date</u>	<u>Station Location</u>	<u>Analysis</u>	<u>Comments</u>
68856-1	01/10/11	MW-1	EPA 8260B (Halocarbons only)	
	01/10/11	MW-1	Volatile Petroleum Hydrocarbons	
68856-2	01/10/11	MW-2	EPA 8260B (Halocarbons only)	
	01/10/11	MW-2	Volatile Petroleum Hydrocarbons	
68856-3	01/10/11	MW-4	EPA 8260B (Halocarbons only)	
	01/10/11	MW-4	Volatile Petroleum Hydrocarbons	
68856-4	01/10/11	MW-5	EPA 8260B (Halocarbons only)	
	01/10/11	MW-5	Volatile Petroleum Hydrocarbons	
68856-5	01/10/11	Trip Blank	Electronic Data Deliverable	
	01/10/11	Trip Blank	Volatile Petroleum Hydrocarbons	

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

January 21, 2011
SAMPLE DATA

CLIENT SAMPLE ID

Project Name: DEP 2540-11
Project Number:
Field Sample ID: MW-1

Lab Sample ID: 68856-1
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 01/10/11
Lab Receipt Date: 01/13/11
Analysis Date: 01/19/11

ANALYTICAL RESULTS VOLATILE ORGANICS					
COMPOUND	Quantitation Limit $\mu\text{g/L}$	Result $\mu\text{g/L}$	COMPOUND	Quantitation Limit $\mu\text{g/L}$	Result $\mu\text{g/L}$
Vinyl chloride	1	U	1,2-Dichloroethane	1	U
1,1-Dichloroethene	1	U	1,1,1-Trichloroethane	1	U
cis-1,2-Dichloroethene	1	U	1,1,2-Trichloroethane	1	U
trans-1,2-Dichloroethene	1	U	1,1,2,2-Tetrachloroethane	1	U
Trichloroethene	1	U	Chlorobenzene	1	U
Tetrachloroethene	1	U	Bromoform	1	U
Chloromethane	1	U	Dichlorodifluoromethane	1	U
Methylene chloride	5	U	Trichlorofluoromethane	1	U
Chloroform	1	U	1,3-Dichlorobenzene	1	U
Carbon tetrachloride	1	U	1,2-Dichlorobenzene	1	U
Bromodichloromethane	1	U	1,4-Dichlorobenzene	1	U
Dibromochloromethane	1	U	1,2-Dichloropropane	1	U
Bromomethane	2	U	cis-1,3-Dichloropropene	1	U
Chloroethane	1	U	trans-1,3-Dichloropropene	1	U
1,1-Dichloroethane	1	U	Dibromomethane	1	U
Surrogate Standard Recovery					
d4-1,2-Dichloroethane	99 %	d8-Toluene	105 %	Bromofluorobenzene	98 %
U=Undetected		J=Estimated		E=Exceeds Calibration Range	
				B=Detected in	

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

COMMENTS:

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

January 24, 2011

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: DEP 2540-11
Project Number:
Client Sample ID: MW-1

Lab Sample ID: 68856-1
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 10
Collection Date: 01/10/11
Lab Receipt Date: 01/13/11
Analysis Date: 01/19/11

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	500	µg/L	4660
Unadjusted C9-C12 Aliphatics	N/A	500	µg/L	8500
Benzene	C5-C8	20	µg/L	1510
Ethylbenzene	C9-C12	20	µg/L	1520
Methyl-tert-butyl ether	C5-C8	20	µg/L	1790
Naphthalene	N/A	20	µg/L	330
Toluene	C5-C8	20	µg/L	97
m- & p-Xylenes	C9-C12	40	µg/L	1090
o-Xylene	C9-C12	20	µg/L	161
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	500	µg/L	1260
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	500	µg/L	3090
C9-C10 Aromatic Hydrocarbons ¹	N/A	100	µg/L	2640
Surrogate % Recovery (2,5-Dibromotoluene) PID				91
Surrogate % Recovery (2,5-Dibromotoluene) FID				96
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.

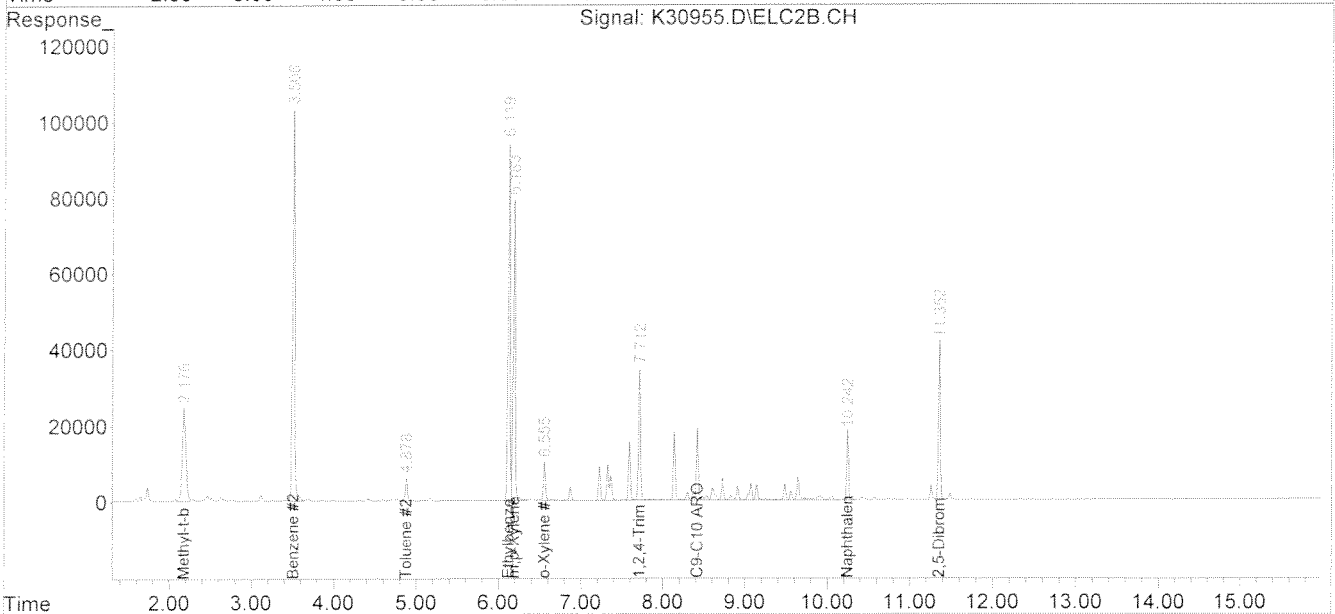
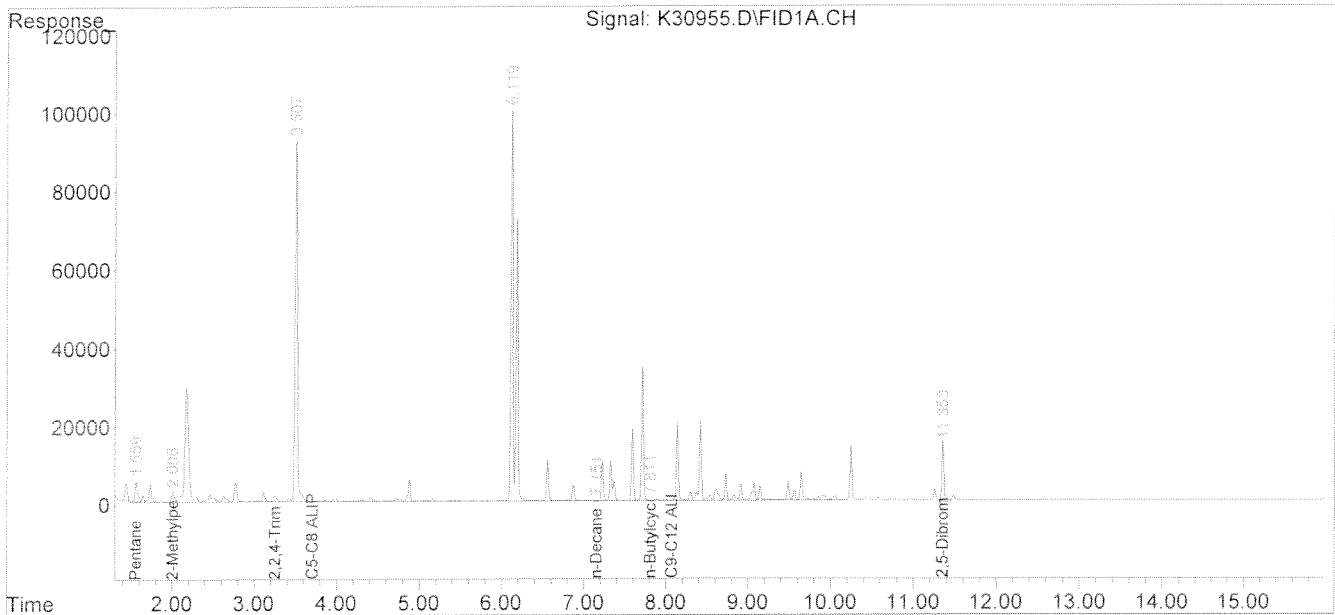
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

Authorized signature: *M. P. Bull*

Data Path : C:\msdchem\1\DATA\011911-K\
 Data File : K30955.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 19 Jan 2011 3:26 pm
 Operator : JJL
 Sample : 68856-1,10X
 Misc : 500
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 19 15:48:07 2011
 Quant Method : C:\msdchem\1\METHODS\VPH010611.M
 Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
 QLast Update : Thu Jan 06 23:33:51 2011
 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

January 21, 2011

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: DEP 2540-11
Project Number:
Field Sample ID: MW-2

Lab Sample ID: 68856-2
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 01/10/11
Lab Receipt Date: 01/13/11
Analysis Date: 01/19/11

ANALYTICAL RESULTS VOLATILE ORGANICS					
COMPOUND	Quantitation Limit $\mu\text{g/L}$	Result $\mu\text{g/L}$	COMPOUND	Quantitation Limit $\mu\text{g/L}$	Result $\mu\text{g/L}$
Vinyl chloride	1	U	1,2-Dichloroethane	1	U
1,1-Dichloroethene	1	U	1,1,1-Trichloroethane	1	U
cis-1,2-Dichloroethene	1	U	1,1,2-Trichloroethane	1	U
trans-1,2-Dichloroethene	1	U	1,1,2,2-Tetrachloroethane	1	U
Trichloroethene	1	U	Chlorobenzene	1	U
Tetrachloroethene	1	U	Bromoform	1	U
Chloromethane	1	U	Dichlorodifluoromethane	1	U
Methylene chloride	5	U	Trichlorofluoromethane	1	U
Chloroform	1	U	1,3-Dichlorobenzene	1	U
Carbon tetrachloride	1	U	1,2-Dichlorobenzene	1	U
Bromodichloromethane	1	U	1,4-Dichlorobenzene	1	U
Dibromochloromethane	1	U	1,2-Dichloropropane	1	U
Bromomethane	2	U	cis-1,3-Dichloropropene	1	U
Chloroethane	1	U	trans-1,3-Dichloropropene	1	U
1,1-Dichloroethane	1	U	Dibromomethane	1	U
<u>Surrogate Standard Recovery</u>					
d4-1,2-Dichloroethane	96 %	d8-Toluene	103 %	Bromofluorobenzene	102 %
U=Undetected		J=Estimated		E=Exceeds Calibration Range	
				B=Detected in	

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

January 21, 2011

CLIENT SAMPLE ID
Project Name: DEP 2540-11
Project Number:
Client Sample ID: MW-2

SAMPLE DATA

Lab Sample ID: 68856-2
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 01/10/11
Lab Receipt Date: 01/13/11
Analysis Date: 01/19/11

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	50	µg/L	413
Unadjusted C9-C12 Aliphatics	N/A	50	µg/L	148
Benzene	C5-C8	2	µg/L	44
Ethylbenzene	C9-C12	2	µg/L	U
Methyl-tert-butyl ether	C5-C8	2	µg/L	15
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	355
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	50	µg/L	74
C9-C10 Aromatic Hydrocarbons ¹	N/A	10	µg/L	74
Surrogate % Recovery (2,5-Dibromotoluene) PID				79
Surrogate % Recovery (2,5-Dibromotoluene) FID				77
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.

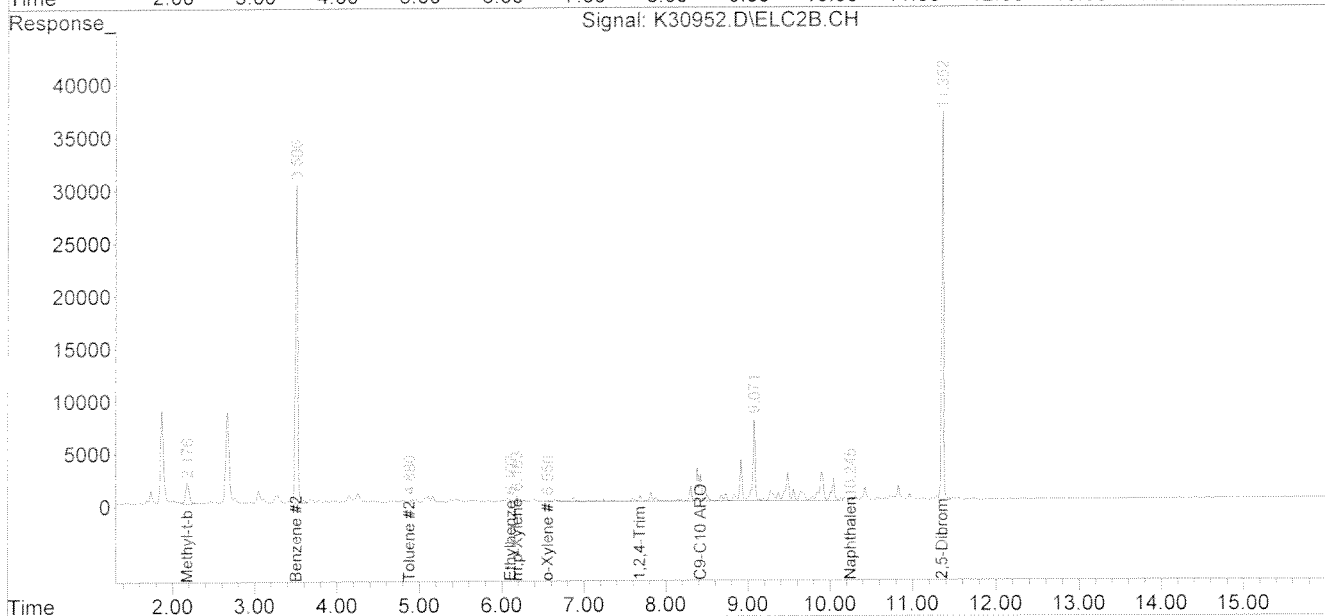
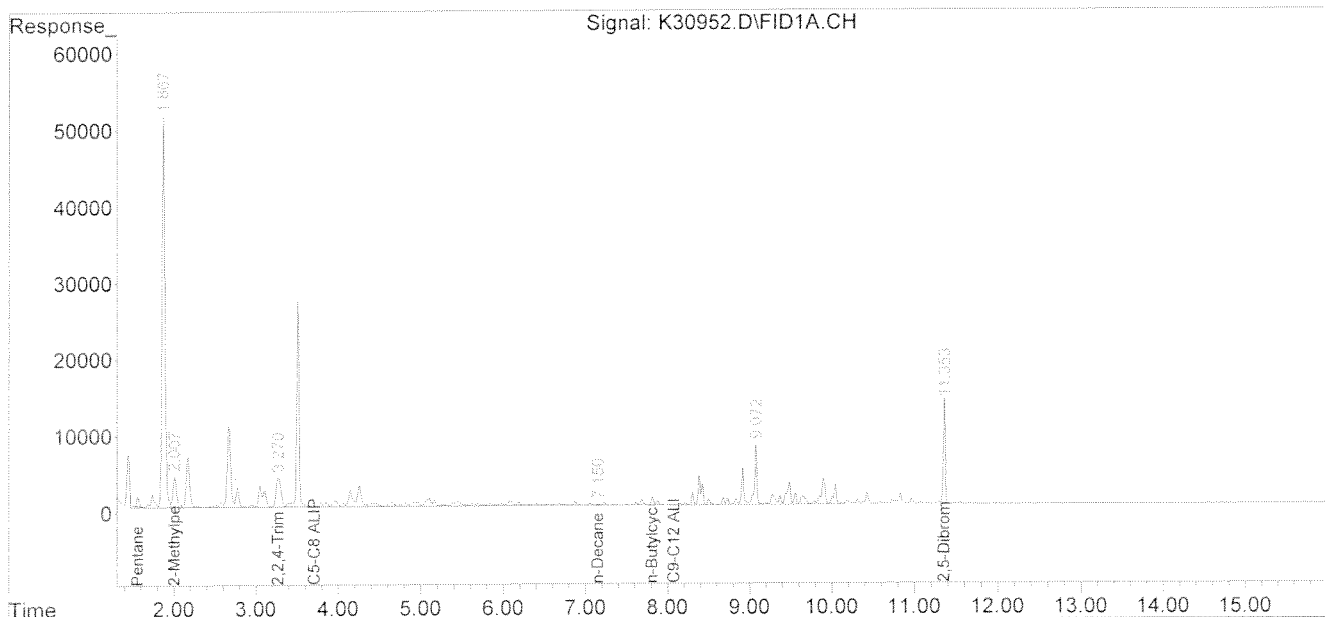
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

Authorized signature: *M. J. Bull*

Data Path : C:\msdchem\1\DATA\011911-K\
 Data File : K30952.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 19 Jan 2011 2:11 pm
 Operator : JJJ
 Sample : 68856-2
 Misc : 5000
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 19 15:31:01 2011
 Quant Method : C:\msdchem\1\METHODS\VPH010611.M
 Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
 QLast Update : Thu Jan 06 23:33:51 2011
 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

January 21, 2011

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: DEP 2540-11
Project Number:
Field Sample ID: MW-4

Lab Sample ID: 68856-3
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 01/10/11
Lab Receipt Date: 01/13/11
Analysis Date: 01/19/11

ANALYTICAL RESULTS VOLATILE ORGANICS					
COMPOUND	Quantitation Limit $\mu\text{g/L}$	Result $\mu\text{g/L}$	COMPOUND	Quantitation Limit $\mu\text{g/L}$	Result $\mu\text{g/L}$
Vinyl chloride	1	U	1,2-Dichloroethane	1	U
1,1-Dichloroethene	1	U	1,1,1-Trichloroethane	1	U
cis-1,2-Dichloroethene	1	U	1,1,2-Trichloroethane	1	U
trans-1,2-Dichloroethene	1	U	1,1,2,2-Tetrachloroethane	1	U
Trichloroethene	1	U	Chlorobenzene	1	U
Tetrachloroethene	1	U	Bromoform	1	U
Chloromethane	1	U	Dichlorodifluoromethane	1	U
Methylene chloride	5	U	Trichlorofluoromethane	1	U
Chloroform	1	U	1,3-Dichlorobenzene	1	U
Carbon tetrachloride	1	U	1,2-Dichlorobenzene	1	U
Bromodichloromethane	1	U	1,4-Dichlorobenzene	1	U
Dibromochloromethane	1	U	1,2-Dichloropropane	1	U
Bromomethane	2	U	cis-1,3-Dichloropropene	1	U
Chloroethane	1	U	trans-1,3-Dichloropropene	1	U
1,1-Dichloroethane	1	U	Dibromomethane	1	U
Surrogate Standard Recovery					
d4-1,2-Dichloroethane	90 %	d8-Toluene	104 %	Bromofluorobenzene	103 %
U=Undetected		J=Estimated		E=Exceeds Calibration Range	
				B=Detected in	

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

January 21, 2011

CLIENT SAMPLE ID
Project Name: DEP 2540-11
Project Number:
Client Sample ID: MW-4

SAMPLE DATA

Lab Sample ID: 68856-3
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 01/10/11
Lab Receipt Date: 01/13/11
Analysis Date: 01/19/11

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics ¹	N/A	50	µg/L	37 J
Unadjusted C9-C12 Aliphatics ¹	N/A	50	µg/L	80
Benzene	C5-C8	2	µg/L	6
Ethylbenzene	C9-C12	2	µg/L	13
Methyl-tert-butyl ether	C5-C8	2	µg/L	4
Naphthalene	N/A	2	µg/L	4
Toluene	C5-C8	2	µg/L	U
m- & p-Xylenes	C9-C12	4	µg/L	10
o-Xylene	C9-C12	2	µg/L	1 J
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	50	µg/L	27 J
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	50	µg/L	30 J
C9-C10 Aromatic Hydrocarbons	N/A	10	µg/L	26
Surrogate % Recovery (2,5-Dibromotoluene) PID				75
Surrogate % Recovery (2,5-Dibromotoluene) FID				72
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.

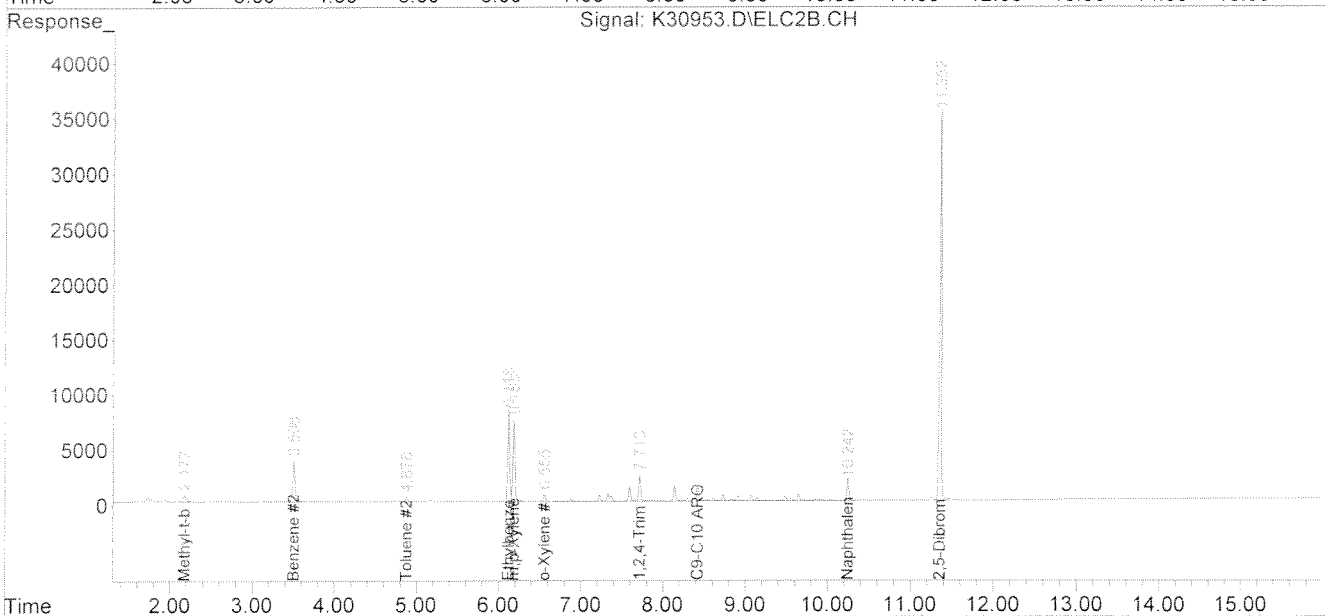
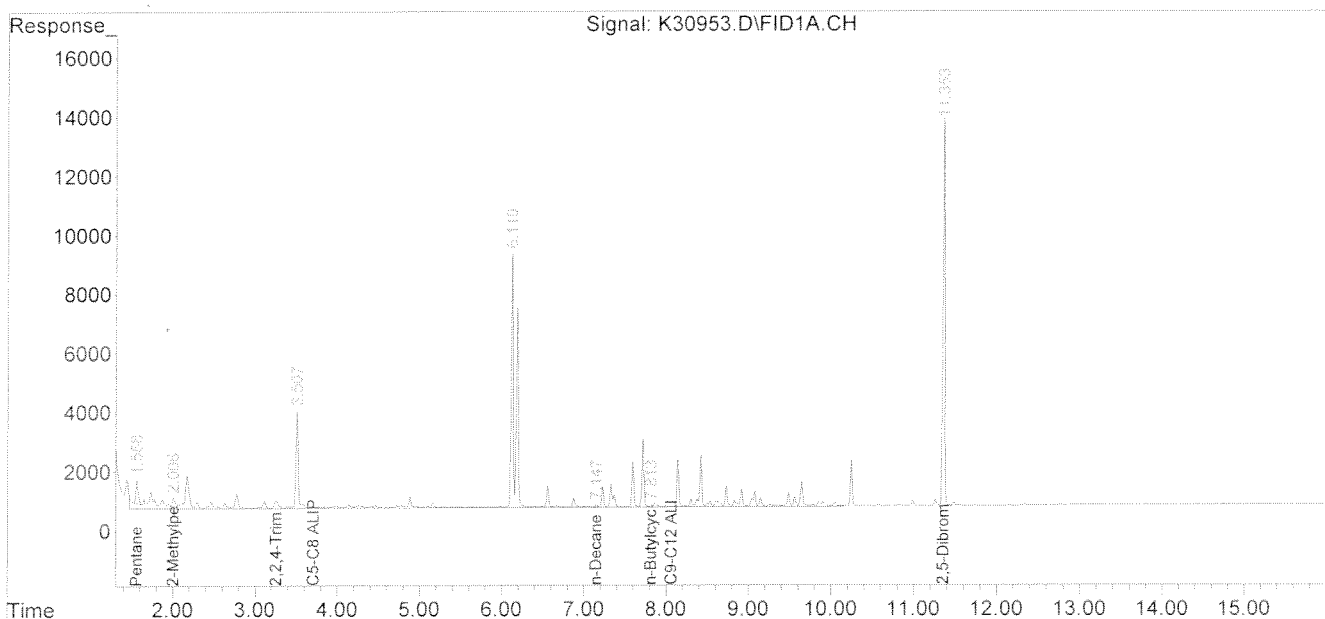
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

Authorized signature: *M. J. Hall*

Data Path : C:\msdchem\1\DATA\011911-K\
 Data File : K30953.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 19 Jan 2011 2:36 pm
 Operator : JJL
 Sample : 68856-3
 Misc : 5000
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 19 15:31:39 2011
 Quant Method : C:\msdchem\1\METHODS\VPH010611.M
 Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
 QLast Update : Thu Jan 06 23:33:51 2011
 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

January 21, 2011
SAMPLE DATA

CLIENT SAMPLE ID
Project Name: DEP 2540-11
Project Number:
Field Sample ID: MW-5

Lab Sample ID: 68856-4
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 01/10/11
Lab Receipt Date: 01/13/11
Analysis Date: 01/19/11

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/L	Result µg/L	COMPOUND	Quantitation Limit µg/L	Result µg/L
Vinyl chloride	1	U	1,2-Dichloroethane	1	U
1,1-Dichloroethene	1	U	1,1,1-Trichloroethane	1	U
cis-1,2-Dichloroethene	1	U	1,1,2-Trichloroethane	1	U
trans-1,2-Dichloroethene	1	U	1,1,2,2-Tetrachloroethane	1	U
Trichloroethene	1	U	Chlorobenzene	1	U
Tetrachloroethene	1	U	Bromoform	1	U
Chloromethane	1	U	Dichlorodifluoromethane	1	U
Methylene chloride	5	U	Trichlorofluoromethane	1	U
Chloroform	1	U	1,3-Dichlorobenzene	1	U
Carbon tetrachloride	1	U	1,2-Dichlorobenzene	1	U
Bromodichloromethane	1	U	1,4-Dichlorobenzene	1	U
Dibromochloromethane	1	U	1,2-Dichloropropane	1	U
Bromomethane	2	U	cis-1,3-Dichloropropene	1	U
Chloroethane	1	U	trans-1,3-Dichloropropene	1	U
1,1-Dichloroethane	1	U	Dibromomethane	1	U
Surrogate Standard Recovery					
d4-1,2-Dichloroethane	91 %		d8-Toluene	104 %	
			Bromofluorobenzene	102 %	
U=Undetected		J=Estimated	E=Exceeds Calibration Range		B=Detected in

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

COMMENTS:

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

January 21, 2011

CLIENT SAMPLE ID

Project Name: DEP 2540-11

Project Number:

Client Sample ID: MW-5

SAMPLE DATA

Lab Sample ID: 68856-4
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 01/10/11
Lab Receipt Date: 01/13/11
Analysis Date: 01/19/11

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				80
Surrogate % Recovery (2,5-Dibromotoluene) FID				77
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.

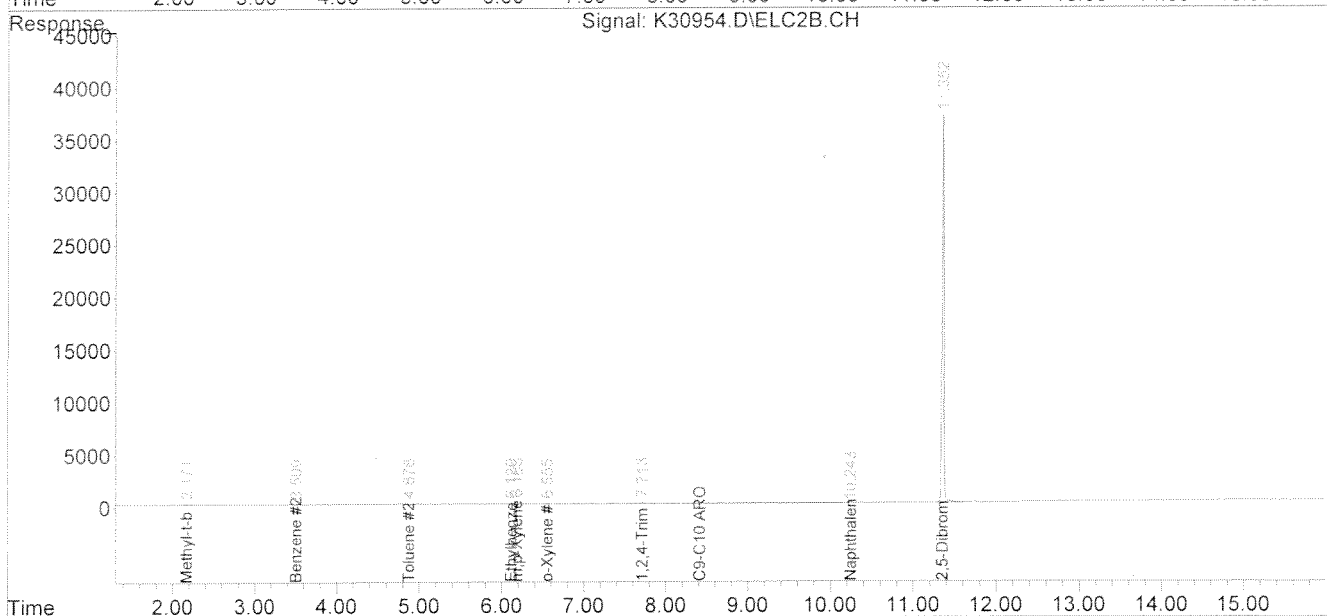
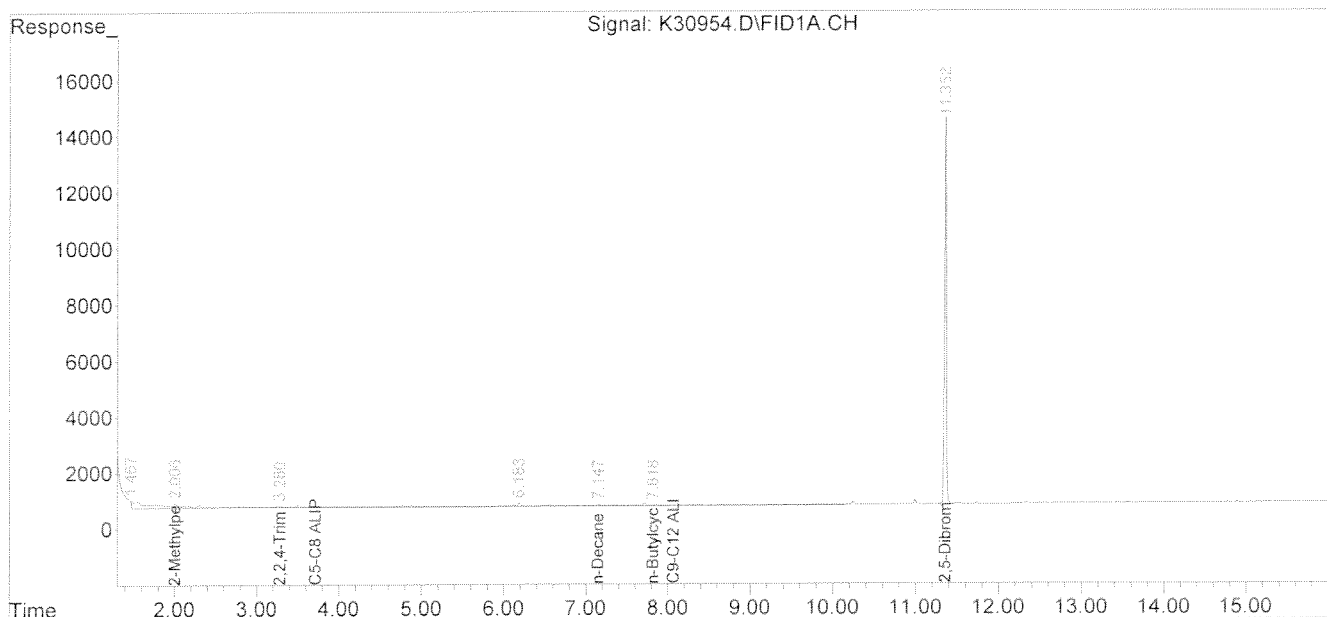
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

Authorized signature: *M. J. Hill*

Data Path : C:\msdchem\1\DATA\011911-K\
 Data File : K30954.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 19 Jan 2011 3:01 pm
 Operator : JJL
 Sample : 68856-4
 Misc : 5000
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 19 15:35:57 2011
 Quant Method : C:\msdchem\1\METHODS\VPH010611.M
 Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
 QLast Update : Thu Jan 06 23:33:51 2011
 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

January 21, 2011

CLIENT SAMPLE ID
Project Name: DEP 2540-11
Project Number:
Client Sample ID: Trip Blank

SAMPLE DATA

Lab Sample ID: 68856-5
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 01/10/11
Lab Receipt Date: 01/13/11
Analysis Date: 01/19/11

VPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics	N/A	50	µg/L	U
Unadjusted C9-C12 Aliphatics	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	N/A	10	µg/L	U
Surrogate % Recovery (2,5-Dibromotoluene) PID				84
Surrogate % Recovery (2,5-Dibromotoluene) FID				85
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.

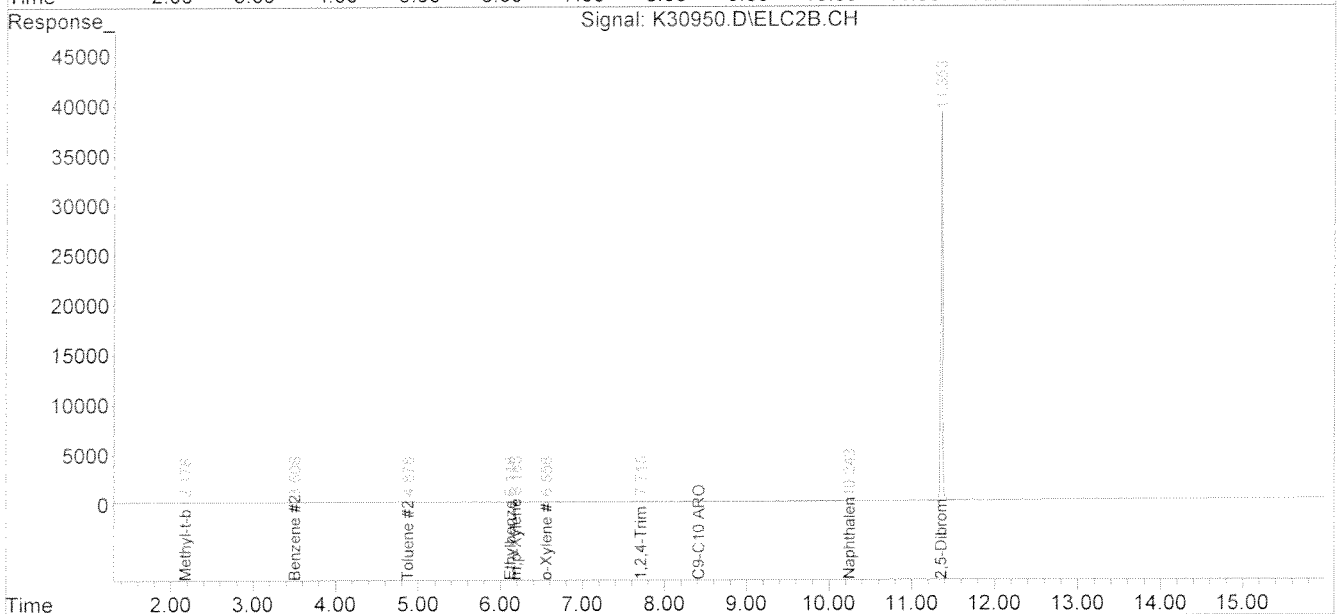
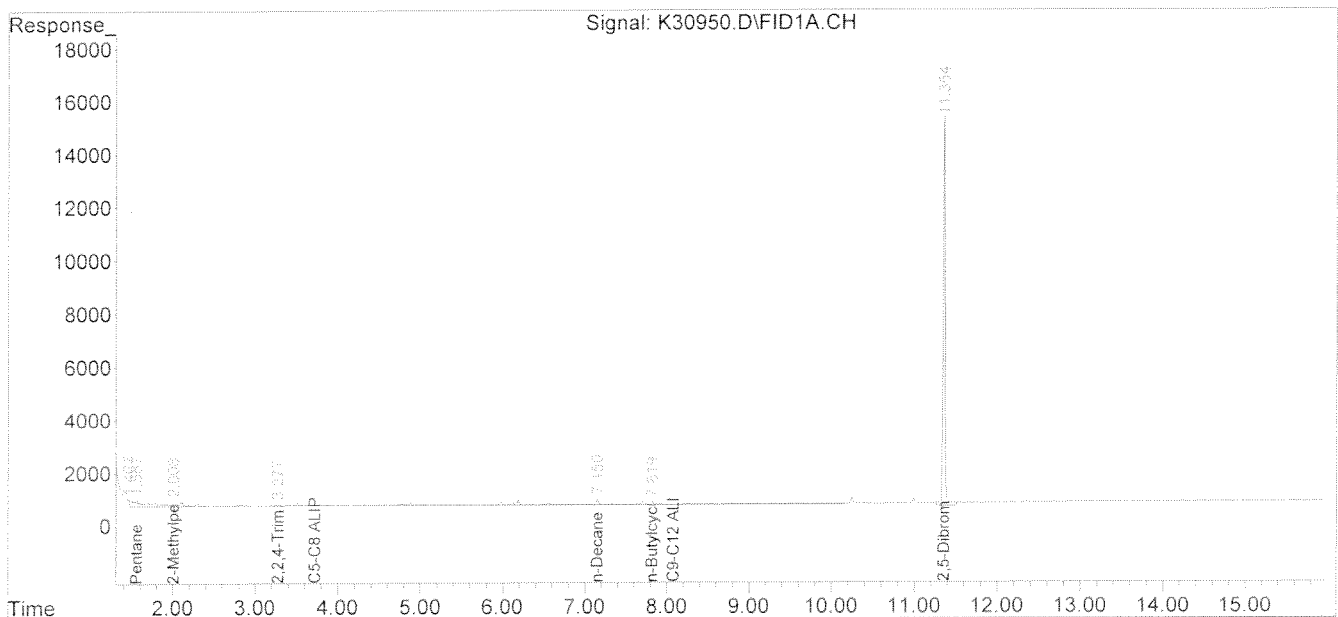
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

Authorized signature: *M. J. Sullivan*

Data Path : C:\msdchem\1\DATA\011911-K\
 Data File : K30950.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 19 Jan 2011 1:21 pm
 Operator : JJJ
 Sample : 68856-5
 Misc : 5000
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 19 15:30:20 2011
 Quant Method : C:\msdchem\1\METHODS\VPH010611.M
 Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
 QLast Update : Thu Jan 06 23:33:51 2011
 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 :



AKZ

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

DEP25AO-11

SAMPLER NAME

SAMPLE IDENTIFICATION

CONTAINERS

TYPE OF CONTAINERS

FIELD FILTRATION
YES NO

SAMPLE MATRIX

COMP

METHOD PRESERVED

SAMPLING DATE

TIME

2w-1

6 vof

X X

GW

X

HCl/KC

1/10/11

2w-2

6

X X

I

X

I

I

2w-4

5

X X

I

X

I

I

2w-5

5

X X

I

X

I

I

Toip Bleak

1

X

TB

X

I

I

01/13/11

Received within hold time yes no
Received in good condition yes no
Temp. Blank °C 46 / Frozen ice packs
Samples received preserved yes no

Custody seal present yes no
N/A N/A
MED WP EDD
(CFI Washington)

COMMENTS
All results but
san coc is correct

RELINQUISHED BY SAMPLER:
RELINQUISHED BY:
RELINQUISHED BY:

DATE TIME
1/13/11 1:45
DATE TIME

RECEIVED BY:
RECEIVED BY:
RECEIVED BY LABORATORY: *[Signature]* 1/13/11

ANALYTICS SAMPLE RECEIPT CHECKLIST



AEL LAB#: 68856
 CLIENT: MEL
 PROJECT: DEP 2540-11

COOLER NUMBER: 109
 NUMBER OF COOLERS: 1
 DATE RECEIVED: 1/13/11

A: PRELIMINARY EXAMINATION:

DATE COOLER OPENED: 1/13/11
 Date Received: 1/13/11

1. Cooler received by(initials): LM

2. Circle one:

Hand delivered
 (If so, skip 3)

Shipped

3. Did cooler come with a shipping slip?

Y

N/A

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

4. Were custody seals on the outside of cooler?

Y

How many & where: _____ Seal Date: _____ Seal Name: _____

N

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: _____

4.6°

B. Log-In: Date samples were logged in: _____ By: _____

1/13/11

LM

12. Type of packing in cooler (bubble wrap, popcorn)

Y

N

13. Were all bottles sealed in separate plastic bags?

Y

N can 1/13/11

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 - No times listed

16. Did all bottle labels agree with custody papers? - see COC about sample date

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:

68856 - 1 E, F PEASIZE OR LARGER BUBBLES
68856 - 2 F PEASIZE BUBBLE

21. Laboratory labeling verified by (initials): _____

CP

Date: _____

1/13/11

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

Report Number: 68781

Revision: Rev. 0

Re: MAI 401-10

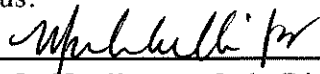
Enclosed are the results of the analyses on your sample(s). Samples were received on 03 January 2011 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory 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.

<u>Lab Number</u>	<u>Sample Date</u>	<u>Station Location</u>	<u>Analysis</u>	<u>Comments</u>
68781-1	12/30/10	MW3	EPA 8260B (Halocarbons only)	
	12/30/10	MW3	Volatile Petroleum Hydrocarbons	
68781-2	12/30/10	MW7	Electronic Data Deliverable	
	12/30/10	MW7	EPA 8260B (Halocarbons only)	
	12/30/10	MW7	Volatile Petroleum Hydrocarbons	

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 1/12/2011

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

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

January 11, 2011

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: MAI 401-10
Project Number:
Field Sample ID: MW3

Lab Sample ID: 68781-1
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 12/30/10
Lab Receipt Date: 01/03/11
Analysis Date: 01/07/11

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit $\mu\text{g/L}$	Result $\mu\text{g/L}$	COMPOUND	Quantitation Limit $\mu\text{g/L}$	Result $\mu\text{g/L}$
Vinyl chloride	1	U	1,2-Dichloroethane	1	U
1,1-Dichloroethene	1	U	1,1,1-Trichloroethane	1	U
cis-1,2-Dichloroethene	1	U	1,1,2-Trichloroethane	1	U
trans-1,2-Dichloroethene	1	U	1,1,2,2-Tetrachloroethane	1	U
Trichloroethene	1	U	Chlorobenzene	1	U
Tetrachloroethene	1	U	Bromoform	1	U
Chloromethane	1	U	Dichlorodifluoromethane	1	U
Methylene chloride	5	U	Trichlorofluoromethane	1	U
Chloroform	1	U	1,3-Dichlorobenzene	1	U
Carbon tetrachloride	1	U	1,2-Dichlorobenzene	1	U
Bromodichloromethane	1	U	1,4-Dichlorobenzene	1	U
Dibromochloromethane	1	U	1,2-Dichloropropane	1	U
Bromomethane	2	U	cis-1,3-Dichloropropene	1	U
Chloroethane	1	U	trans-1,3-Dichloropropene	1	U
1,1-Dichloroethane	1	U	Dibromomethane	1	U

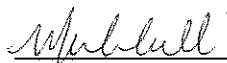
Surrogate Standard Recovery

d4-1,2-Dichloroethane	87 %	d8-Toluene	103 %	Bromofluorobenzene	100 %
-----------------------	------	------------	-------	--------------------	-------

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

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

January 12, 2011

SAMPLE DATA

Lab Sample ID: 68781-1
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 12/30/10
Lab Receipt Date: 01/03/11
Analysis Date: 01/10/11

CLIENT SAMPLE ID

Project Name: MAI 401-10
Project Number:
Client Sample ID: MW3

VPH ANALYTICAL RESULTS

RANGE/TARGET ANALYTE	Elution Range	RL	Units	Result
Unadjusted C5-C8 Aliphatics	N/A	50	µg/L	841
Unadjusted C9-C12 Aliphatics	N/A	50	µg/L	589
Benzene	C5-C8	2	µg/L	U
Ethylbenzene	C9-C12	2	µg/L	5
Methyl-tert-butyl ether	C5-C8	2	µg/L	7
Naphthalene	N/A	2	µg/L	U
Toluene	C5-C8	2	µg/L	1 J
m- & p-Xylenes	C9-C12	4	µg/L	11
o-Xylene	C9-C12	2	µg/L	U
C5-C8 Aliphatics Hydrocarbons ^{1,2}	N/A	50	µg/L	833
C9-C12 Aliphatic Hydrocarbons ^{1,3}	N/A	50	µg/L	251
C9-C10 Aromatic Hydrocarbons ¹	N/A	10	µg/L	323
Surrogate % Recovery (2,5-Dibromotoluene) PID				89
Surrogate % Recovery (2,5-Dibromotoluene) FID				87
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.

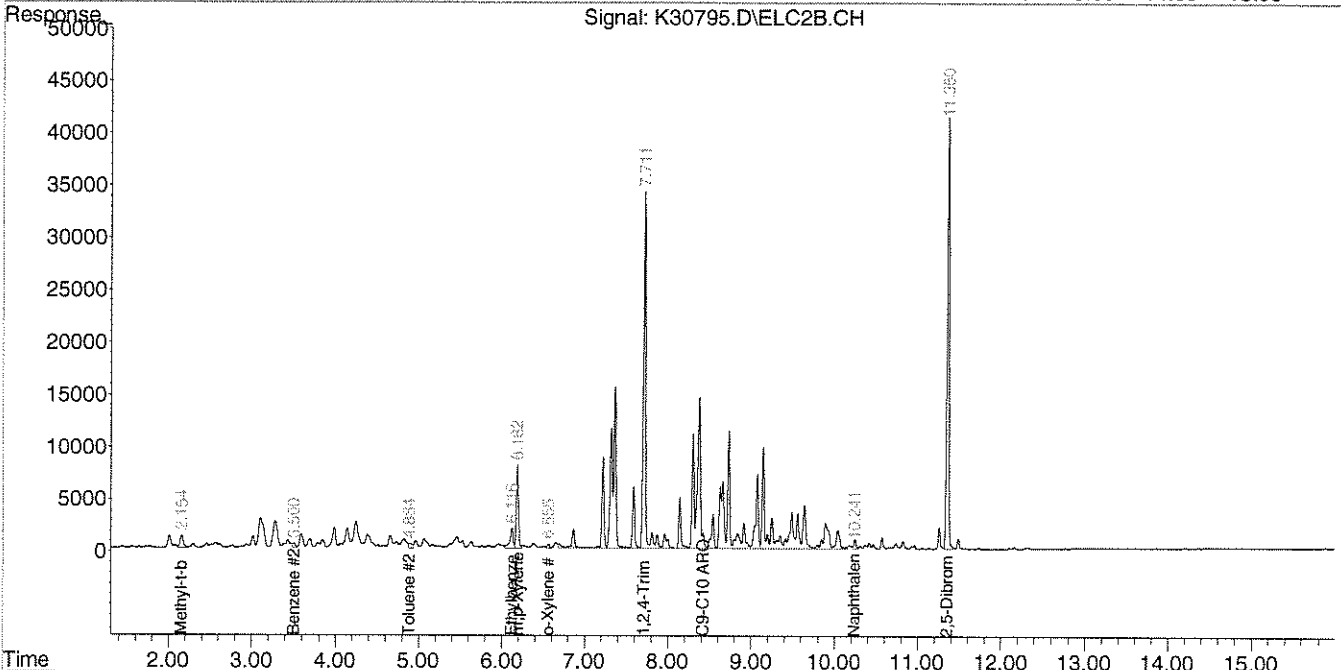
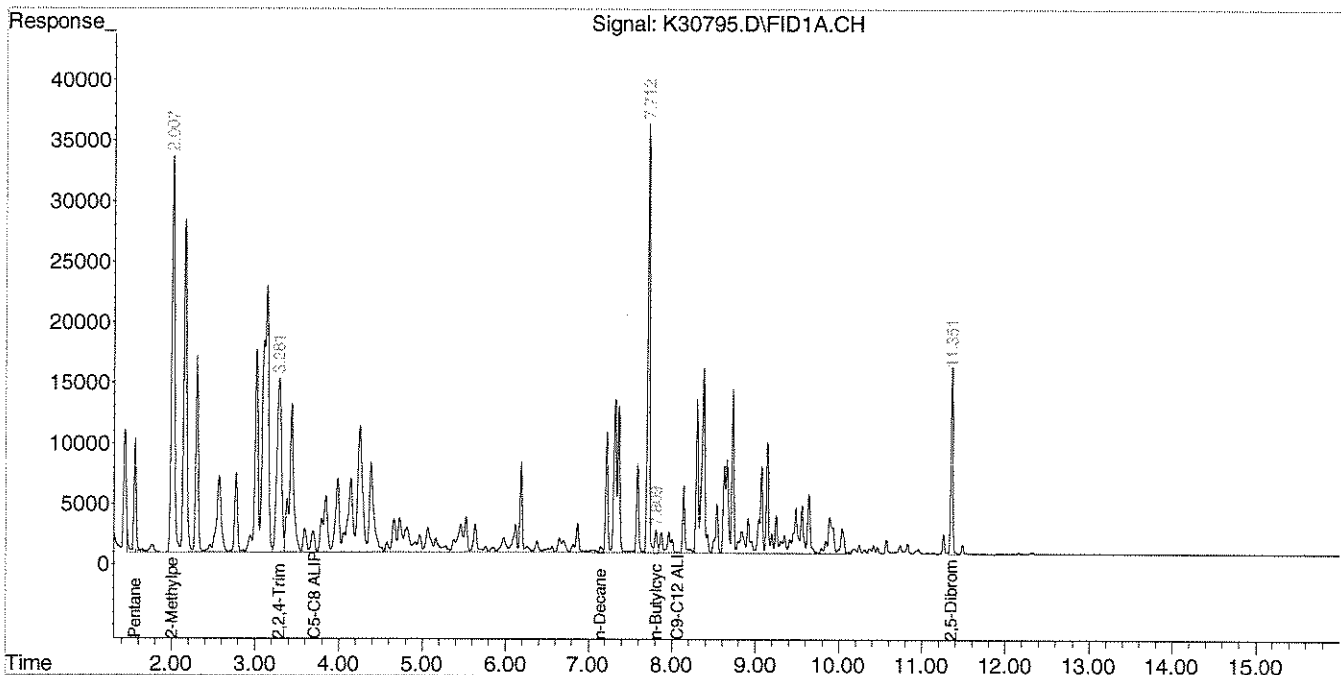
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

Authorized signature: *M. J. Bell*

Data Path : C:\msdchem\1\DATA\011011-K\
 Data File : K30795.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 10 Jan 2011 11:02 pm
 Operator : JJL
 Sample : 68781-1
 Misc : 5000
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 11 09:33:13 2011
 Quant Method : C:\msdchem\1\METHODS\VPH010611.M
 Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
 QLast Update : Thu Jan 06 23:33:51 2011
 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

January 12, 2011

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: MAI 401-10

Project Number:

Field Sample ID: MW7

Lab Sample ID: 68781-2

Matrix: Aqueous

Percent Solid: N/A

Dilution Factor: 1

Collection Date: 12/30/10

Lab Receipt Date: 01/03/11

Analysis Date: 01/10/11

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit $\mu\text{g/L}$	Result $\mu\text{g/L}$	COMPOUND	Quantitation Limit $\mu\text{g/L}$	Result $\mu\text{g/L}$
Vinyl chloride	1	U	1,2-Dichloroethane	1	U
1,1-Dichloroethene	1	U	1,1,1-Trichloroethane	1	U
cis-1,2-Dichloroethene	1	U	1,1,2-Trichloroethane	1	U
trans-1,2-Dichloroethene	1	U	1,1,2,2-Tetrachloroethane	1	U
Trichloroethene	1	U	Chlorobenzene	1	U
Tetrachloroethene	1	U	Bromoform	1	U
Chloromethane	1	U	Dichlorodifluoromethane	1	U
Methylene chloride	5	U	Trichlorofluoromethane	1	U
Chloroform	1	U	1,3-Dichlorobenzene	1	U
Carbon tetrachloride	1	U	1,2-Dichlorobenzene	1	U
Bromodichloromethane	1	U	1,4-Dichlorobenzene	1	U
Dibromochloromethane	1	U	1,2-Dichloropropane	1	U
Bromomethane	2	U	cis-1,3-Dichloropropene	1	U
Chloroethane	1	U	trans-1,3-Dichloropropene	1	U
1,1-Dichloroethane	1	U	Dibromomethane	1	U

Surrogate Standard Recovery

d4-1,2-Dichloroethane 107 % d8-Toluene 102 % Bromofluorobenzene 99 %

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

January 12, 2011

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: MAI 401-10
Project Number:
Client Sample ID: MW7

Lab Sample ID: 68781-2
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 12/30/10
Lab Receipt Date: 01/03/11
Analysis Date: 01/10/11

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				77
Surrogate % Recovery (2,5-Dibromotoluene) FID				80
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.

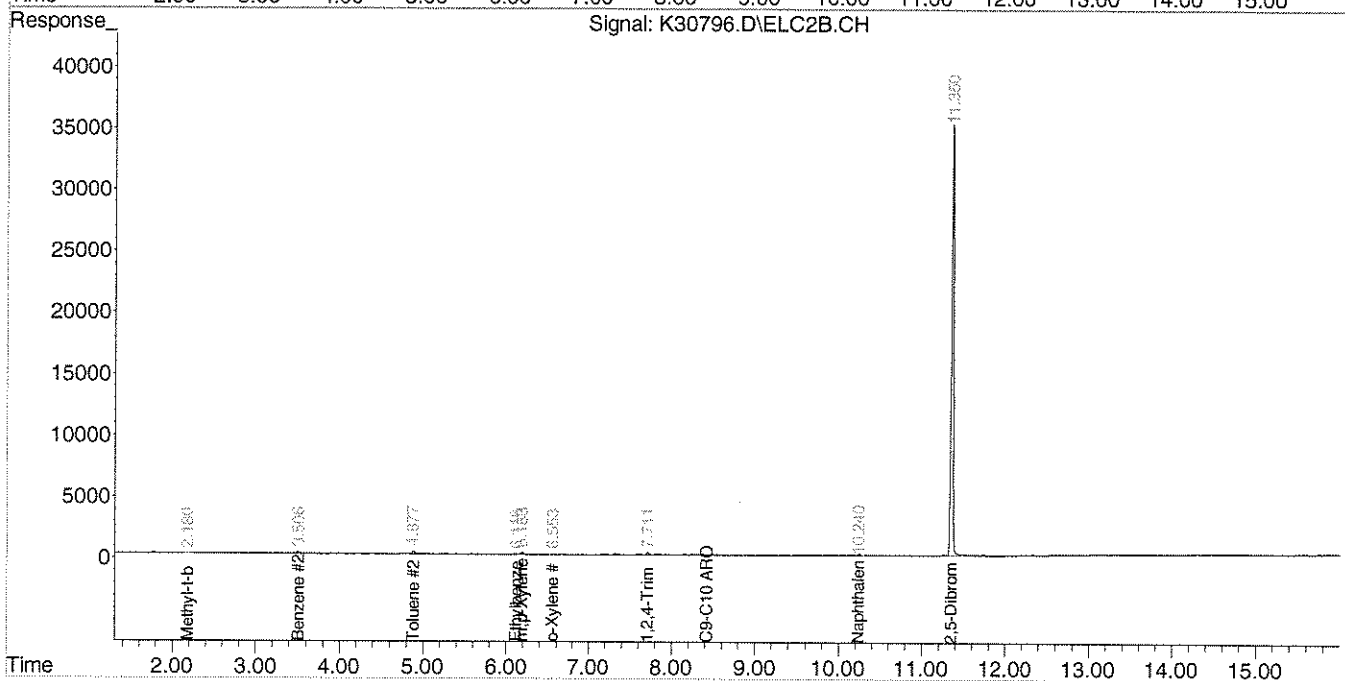
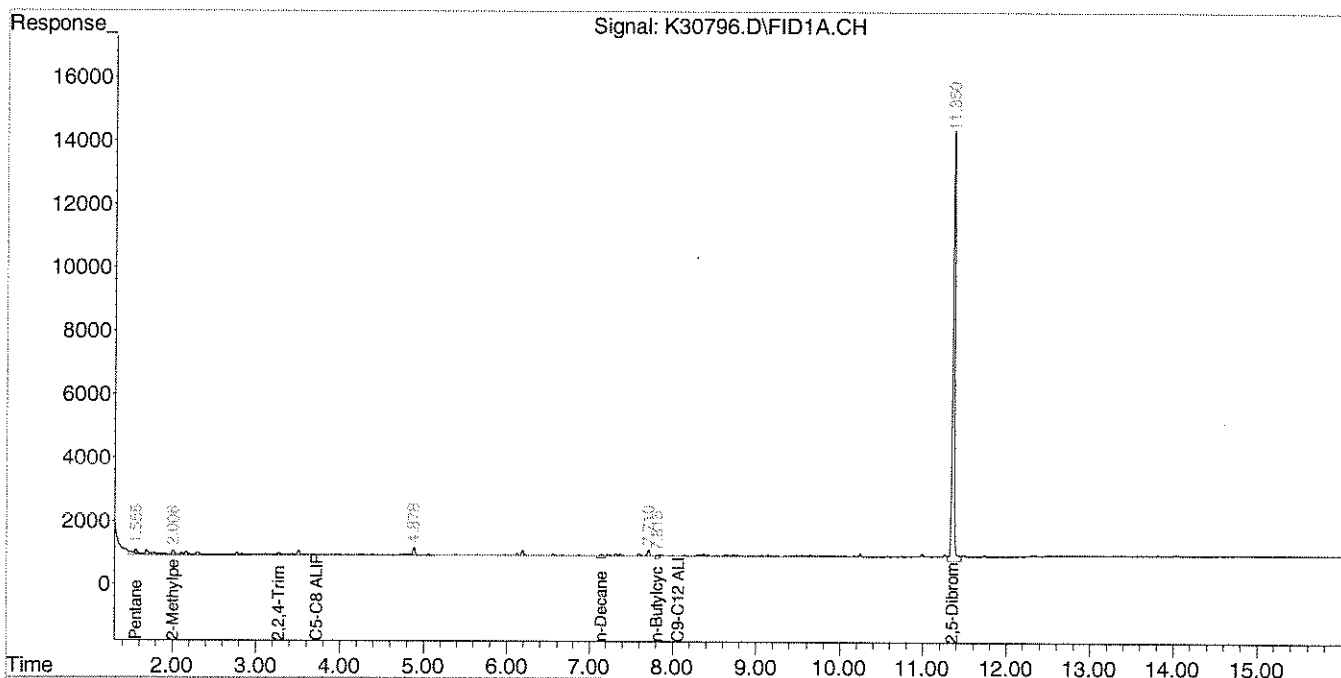
COMMENTS: Samples were received in accordance with method criteria unless noted on the sample receipt checklist.

Authorized signature: *M. Bell*

Data Path : C:\msdchem\1\DATA\011011-K\
 Data File : K30796.D
 Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
 Acq On : 10 Jan 2011 11:26 pm
 Operator : JJL
 Sample : 68781-2
 Misc : 5000
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 11 10:08:00 2011
 Quant Method : C:\msdchem\1\METHODS\VPH010611.M
 Quant Title : Volatile Petroleum Hydrocarbons (VPH) MA DEP 2004
 QLast Update : Thu Jan 06 23:33:51 2011
 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: **MAI 401-10** SAMPLER NAME: _____

SAMPLE IDENTIFICATION	# CONTAINERS	TYPE OF CONTAINERS	FIELD FILTRATION		SAMPLE MATRIX	GRAB	COMP.	METHOD PRESERVED	SAMPLING	
			YES	NO					DATE	TIME
NW3	6	viol	X		GW	X	HCL/EGC	12/30/10	1350	X
NW7	65	viol	X		GW	X	HCL/EGC	12/30/10	1315	X
[Large diagonal scribble across the table]										

Received within hold time yes no
 Received in good condition yes no
 Temp. Blank °C 20 / Frozen ice packs yes no
 Samples received preserved yes no

RELINQUISHED BY SAMPLER: [Signature] DATE: 12/20/10
 RELINQUISHED BY: [Signature] DATE: 1/3/11
 RELINQUISHED BY: [Signature] DATE: 12/15

Received by laboratory: [Signature] DATE: 1/5/11
 Received by laboratory: [Signature] DATE: 1/5/11

AEL

1/3/11

8260 (801HW/8260) as per Kristy - 01/11/11

VOL

LABORATORY IDENTIFICATION/ SUBCONTRACTOR
 68781-1
 Z

1-3-11

COMMENTS: use other 2 bags received from DEP EDD (Cumberland Farms, Washington Ave)

ANALYTICS SAMPLE RECEIPT CHECKLIST



AEL LAB#: 68781

COOLER NUMBER: 131

CLIENT: MEL

NUMBER OF COOLERS: 1

PROJECT: MAI401-10

DATE RECEIVED: 1-3-11

A: PRELIMINARY EXAMINATION:

DATE COOLER OPENED: 1-3-11

1. Cooler received by (initials): Wm

Date Received: 1-3-11

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

Shipped

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 NA

6. COC#: -

7. Were Custody papers filled out properly (ink, signed, etc)?

Y N

8. Were custody papers sealed in a plastic bag?

Y N

9. Did you sign the COC in the appropriate place?

Y N

10. Was the project identifiable from the COC papers?

Y N

11. Was enough ice used to chill the cooler? Y N

Temp. of cooler: 2°

B. Log-In: Date samples were logged in: 1-3-11

By: Wm

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 NA

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: -

PLASTIC TOP OF SAMPLE MW7 IS CRACKED BUT NOT LEAKING. On 1-3-11 disposed of by CP 1/3/11 due to being severely cracked

21. Laboratory labeling verified by (initials): CP

Date: 1/3/11



ANALYTICAL REPORT

Lab Number:	L1013912
Client:	MAI Environmental 1034 Broadway South Portland, ME 04106
ATTN:	Paul Prescott
Phone:	(207) 767-3663
Project Name:	CFI WASHINGTON AVE
Project Number:	1047
Report Date:	09/15/10

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

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



Project Name: CFI WASHINGTON AVE
Project Number: 1047

Lab Number: L1013912
Report Date: 09/15/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1013912-01	SG-1	PORTLAND, ME	09/07/10 11:00
L1013912-02	SG-2	PORTLAND, ME	09/07/10 10:39
L1013912-03	SG-3	PORTLAND, ME	09/07/10 10:18
L1013912-04	SG-5	PORTLAND, ME	09/07/10 08:45
L1013912-05	SG-6	PORTLAND, ME	09/07/10 09:12
L1013912-06	SG-7	PORTLAND, ME	09/07/10 09:32
L1013912-07	SG-8	PORTLAND, ME	09/07/10 09:58

Project Name: CFI WASHINGTON AVE
Project Number: 1047

Lab Number: L1013912
Report Date: 09/15/10

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 August 23, 2010.

The canister certification data is provided as an addendum.

The internal standards were within method criteria.

Petroleum Hydrocarbons in Air

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

L1013912-01 through -04 have elevated detection limits due to the dilution required by the elevated

Project Name: CFI WASHINGTON AVE
Project Number: 1047

Lab Number: L1013912
Report Date: 09/15/10

Case Narrative (continued)

concentrations of target compounds in the sample.

L1013912-07 has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Volatile Organics in Air (TO15-LL)

TO15-LL L1013912-01 through -04 and -07 have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Fixed Gases

L1013912-01 thru 04 and 07: 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.

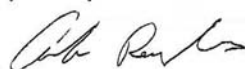
L1013912-05 and 06: Prior to sample analysis, the canisters were pressurized with UHP Hydrogen in order to facilitate the transfer of sample to the Gas Chromatograph. The addition of Hydrogen resulted in a dilution of the sample. The reporting limits have been elevated accordingly.

The WG432347-3 Laboratory Duplicate RPD, performed on L1013912-01 through -04, is outside the acceptance criteria for carbon dioxide. The elevated RPD has been attributed to sample matrix. Sample and duplicate have been reanalyzed and confirm the results of the original analysis. The re-analysis has been reported.

The WG432347-7 Laboratory Duplicate RPD, performed on L1013912-05, is outside the acceptance criteria for oxygen. The elevated RPD has been attributed to sample matrix. Sample and duplicate have been reanalyzed and confirm the results of the original analysis. The re-analysis has been reported.

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:



Andy Rezendes

Title: Technical Director/Representative

Date: 09/15/10

AIR

Project Name: CFI WASHINGTON AVE**Lab Number:** L1013912**Project Number:** 1047**Report Date:** 09/15/10**SAMPLE RESULTS**

Lab ID: L1013912-01 D
 Client ID: SG-1
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 09/12/10 02:10
 Analyst: RY

Date Collected: 09/07/10 11:00
 Date Received: 09/08/10
 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								
Vinyl chloride	ND	451.	--	ND	1150	--		2256
1,1-Dichloroethene	ND	451.	--	ND	1790	--		2256
trans-1,2-Dichloroethene	ND	451.	--	ND	1790	--		2256
1,1-Dichloroethane	ND	451.	--	ND	1820	--		2256
cis-1,2-Dichloroethene	ND	451.	--	ND	1790	--		2256
1,2-Dichloroethane	ND	451.	--	ND	1820	--		2256
1,1,1-Trichloroethane	ND	451.	--	ND	2460	--		2256
Trichloroethene	ND	451.	--	ND	2420	--		2256
1,2-Dibromoethane	ND	451.	--	ND	3460	--		2256
Tetrachloroethene	ND	451.	--	ND	3060	--		2256

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	101		60-140
chlorobenzene-d5	112		60-140



Project Name: CFI WASHINGTON AVE**Lab Number:** L1013912**Project Number:** 1047**Report Date:** 09/15/10**SAMPLE RESULTS**

Lab ID: L1013912-02 D
 Client ID: SG-2
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 09/12/10 02:43
 Analyst: RY

Date Collected: 09/07/10 10:39
 Date Received: 09/08/10
 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								
Vinyl chloride	ND	407.	--	ND	1040	--		2034
1,1-Dichloroethene	ND	407.	--	ND	1610	--		2034
trans-1,2-Dichloroethene	ND	407.	--	ND	1610	--		2034
1,1-Dichloroethane	ND	407.	--	ND	1640	--		2034
cis-1,2-Dichloroethene	ND	407.	--	ND	1610	--		2034
1,2-Dichloroethane	ND	407.	--	ND	1640	--		2034
1,1,1-Trichloroethane	ND	407.	--	ND	2220	--		2034
Trichloroethene	ND	407.	--	ND	2180	--		2034
1,2-Dibromoethane	ND	407.	--	ND	3120	--		2034
Tetrachloroethene	ND	407.	--	ND	2760	--		2034

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	131		60-140
Bromochloromethane	119		60-140
chlorobenzene-d5	113		60-140



Project Name: CFI WASHINGTON AVE**Lab Number:** L1013912**Project Number:** 1047**Report Date:** 09/15/10**SAMPLE RESULTS**

Lab ID: L1013912-03 D
 Client ID: SG-3
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 09/12/10 03:16
 Analyst: RY

Date Collected: 09/07/10 10:18
 Date Received: 09/08/10
 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								
Vinyl chloride	ND	469.	--	ND	1200	--		2343
1,1-Dichloroethene	ND	469.	--	ND	1860	--		2343
trans-1,2-Dichloroethene	ND	469.	--	ND	1860	--		2343
1,1-Dichloroethane	ND	469.	--	ND	1900	--		2343
cis-1,2-Dichloroethene	ND	469.	--	ND	1860	--		2343
1,2-Dichloroethane	ND	469.	--	ND	1900	--		2343
1,1,1-Trichloroethane	ND	469.	--	ND	2550	--		2343
Trichloroethene	ND	469.	--	ND	2520	--		2343
1,2-Dibromoethane	ND	469.	--	ND	3600	--		2343
Tetrachloroethene	ND	469.	--	ND	3180	--		2343

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	112		60-140
Bromochloromethane	108		60-140
chlorobenzene-d5	125		60-140



Project Name: CFI WASHINGTON AVE**Lab Number:** L1013912**Project Number:** 1047**Report Date:** 09/15/10**SAMPLE RESULTS**

Lab ID: L1013912-04 D
 Client ID: SG-5
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 09/12/10 03:50
 Analyst: RY

Date Collected: 09/07/10 08:45
 Date Received: 09/08/10
 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								
Vinyl chloride	ND	429.	--	ND	1100	--		2144
1,1-Dichloroethene	ND	429.	--	ND	1700	--		2144
trans-1,2-Dichloroethene	ND	429.	--	ND	1700	--		2144
1,1-Dichloroethane	ND	429.	--	ND	1730	--		2144
cis-1,2-Dichloroethene	ND	429.	--	ND	1700	--		2144
1,2-Dichloroethane	ND	429.	--	ND	1730	--		2144
1,1,1-Trichloroethane	ND	429.	--	ND	2340	--		2144
Trichloroethene	ND	429.	--	ND	2300	--		2144
1,2-Dibromoethane	ND	429.	--	ND	3290	--		2144
Tetrachloroethene	ND	429.	--	ND	2900	--		2144

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	113		60-140
Bromochloromethane	119		60-140
chlorobenzene-d5	110		60-140



Project Name: CFI WASHINGTON AVE**Lab Number:** L1013912**Project Number:** 1047**Report Date:** 09/15/10**SAMPLE RESULTS**

Lab ID: L1013912-05
 Client ID: SG-6
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 09/12/10 01:01
 Analyst: RY

Date Collected: 09/07/10 09:12
 Date Received: 09/08/10
 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								
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	1.34	0.200	--	9.07	1.36	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	133		60-140
Bromochloromethane	121		60-140
chlorobenzene-d5	109		60-140



Project Name: CFI WASHINGTON AVE**Lab Number:** L1013912**Project Number:** 1047**Report Date:** 09/15/10**SAMPLE RESULTS**

Lab ID: L1013912-06
 Client ID: SG-7
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 09/12/10 01:37
 Analyst: RY

Date Collected: 09/07/10 09:32
 Date Received: 09/08/10
 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								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.406	0.200	--	2.75	1.36	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	64		60-140
chlorobenzene-d5	88		60-140



Project Name: CFI WASHINGTON AVE**Lab Number:** L1013912**Project Number:** 1047**Report Date:** 09/15/10**SAMPLE RESULTS**

Lab ID: L1013912-07 D
 Client ID: SG-8
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 09/12/10 04:24
 Analyst: RY

Date Collected: 09/07/10 09:58
 Date Received: 09/08/10
 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								
Vinyl chloride	ND	442.	--	ND	1130	--		2212
1,1-Dichloroethene	ND	442.	--	ND	1750	--		2212
trans-1,2-Dichloroethene	ND	442.	--	ND	1750	--		2212
1,1-Dichloroethane	ND	442.	--	ND	1790	--		2212
cis-1,2-Dichloroethene	ND	442.	--	ND	1750	--		2212
1,2-Dichloroethane	ND	442.	--	ND	1790	--		2212
1,1,1-Trichloroethane	ND	442.	--	ND	2410	--		2212
Trichloroethene	ND	442.	--	ND	2380	--		2212
1,2-Dibromoethane	ND	442.	--	ND	3400	--		2212
Tetrachloroethene	ND	442.	--	ND	3000	--		2212

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	112		60-140
Bromochloromethane	111		60-140
chlorobenzene-d5	105		60-140



Project Name: CFI WASHINGTON AVE

Lab Number: L1013912

Project Number: 1047

Report Date: 09/15/10

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/11/10 12:57

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01-07 Batch: WG431974-4								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: CFI WASHINGTON AVE

Project Number: 1047

Lab Number: L1013912

Report Date: 09/15/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-07 Batch: WG431974-3								
Vinyl chloride	102		-		70-130	-		
1,1-Dichloroethene	102		-		70-130	-		
trans-1,2-Dichloroethene	94		-		70-130	-		
1,1-Dichloroethane	95		-		70-130	-		
cis-1,2-Dichloroethene	97		-		70-130	-		
1,2-Dichloroethane	103		-		70-130	-		
1,1,1-Trichloroethane	107		-		70-130	-		
Trichloroethene	109		-		70-130	-		
1,2-Dibromoethane	98		-		70-130	-		
Tetrachloroethene	98		-		70-130	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: CFI WASHINGTON AVE

Project Number: 1047

Lab Number: L1013912

Report Date: 09/15/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG431974-5 QC Sample: L1013911-01 Client ID: DUP Sample						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	2.03	2.05	ppbV	1		25

Project Name: CFI WASHINGTON AVE**Lab Number:** L1013912**Project Number:** 1047**Report Date:** 09/15/10**SAMPLE RESULTS**

Lab ID: L1013912-01 D
Client ID: SG-1
Sample Location: PORTLAND, ME
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 09/15/10 11:20
Analyst: AR

Date Collected: 09/07/10 11:00
Date Received: 09/08/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	ND		%	1.69	--	1.689
Methane	60.7		%	0.169	--	1.689
Carbon Dioxide	9.76		%	0.169	--	1.689

Project Name: CFI WASHINGTON AVE**Lab Number:** L1013912**Project Number:** 1047**Report Date:** 09/15/10**SAMPLE RESULTS**

Lab ID: L1013912-02 D
Client ID: SG-2
Sample Location: PORTLAND, ME
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 09/15/10 12:01
Analyst: AR

Date Collected: 09/07/10 10:39
Date Received: 09/08/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	ND		%	1.52	--	1.522
Methane	64.5		%	0.152	--	1.522
Carbon Dioxide	8.89		%	0.152	--	1.522

Project Name: CFI WASHINGTON AVE**Lab Number:** L1013912**Project Number:** 1047**Report Date:** 09/15/10**SAMPLE RESULTS**

Lab ID: L1013912-03 D
Client ID: SG-3
Sample Location: PORTLAND, ME
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 09/15/10 12:42
Analyst: AR

Date Collected: 09/07/10 10:18
Date Received: 09/08/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	ND		%	1.75	--	1.754
Methane	43.3		%	0.175	--	1.754
Carbon Dioxide	15.0		%	0.175	--	1.754

Project Name: CFI WASHINGTON AVE**Lab Number:** L1013912**Project Number:** 1047**Report Date:** 09/15/10**SAMPLE RESULTS**

Lab ID: L1013912-04 D
Client ID: SG-5
Sample Location: PORTLAND, ME
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 09/15/10 13:23
Analyst: AR

Date Collected: 09/07/10 08:45
Date Received: 09/08/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	ND		%	1.60	--	1.605
Methane	0.510		%	0.160	--	1.605
Carbon Dioxide	18.1		%	0.160	--	1.605

Project Name: CFI WASHINGTON AVE**Lab Number:** L1013912**Project Number:** 1047**Report Date:** 09/15/10**SAMPLE RESULTS**

Lab ID: L1013912-05 D
Client ID: SG-6
Sample Location: PORTLAND, ME
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 09/15/10 14:04
Analyst: AR

Date Collected: 09/07/10 09:12
Date Received: 09/08/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	5.56		%	2.05	--	2.049
Methane	ND		%	0.205	--	2.049
Carbon Dioxide	10.6		%	0.205	--	2.049

Project Name: CFI WASHINGTON AVE**Lab Number:** L1013912**Project Number:** 1047**Report Date:** 09/15/10**SAMPLE RESULTS**

Lab ID: L1013912-06 D
Client ID: SG-7
Sample Location: PORTLAND, ME
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 09/14/10 20:51
Analyst: AR

Date Collected: 09/07/10 09:32
Date Received: 09/08/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	10.3		%	1.94	--	1.944
Methane	ND		%	0.194	--	1.944
Carbon Dioxide	8.33		%	0.194	--	1.944

Project Name: CFI WASHINGTON AVE**Lab Number:** L1013912**Project Number:** 1047**Report Date:** 09/15/10**SAMPLE RESULTS**

Lab ID: L1013912-07 D
Client ID: SG-8
Sample Location: PORTLAND, ME
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 09/14/10 21:32
Analyst: AR

Date Collected: 09/07/10 09:58
Date Received: 09/08/10
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	ND		%	1.66	--	1.656
Methane	ND		%	0.166	--	1.656
Carbon Dioxide	21.5		%	0.166	--	1.656

Project Name: CFI WASHINGTON AVE**Lab Number:** L1013912**Project Number:** 1047**Report Date:** 09/15/10**Method Blank Analysis
Batch Quality Control**

Analytical Method: 51,3C

Analytical Date: 09/15/10 10:57

Analyst: AR

Parameter	Result	Qualifier	Units	RL	MDL
Fixed Gases by GC - Mansfield Lab for sample(s): 01-05 Batch: WG432347-13					
Oxygen	ND		%	1.00	--
Methane	ND		%	0.100	--
Carbon Dioxide	ND		%	0.100	--

Project Name: CFI WASHINGTON AVE**Lab Number:** L1013912**Project Number:** 1047**Report Date:** 09/15/10**Method Blank Analysis**
Batch Quality Control

Analytical Method: 51,3C

Analytical Date: 09/14/10 16:45

Analyst: AR

Parameter	Result	Qualifier	Units	RL	MDL
Fixed Gases by GC - Mansfield Lab for sample(s): 06-07 Batch: WG432347-2					
Oxygen	ND		%	1.00	--
Methane	ND		%	0.100	--
Carbon Dioxide	ND		%	0.100	--

Lab Control Sample Analysis

Batch Quality Control

Project Name: CFI WASHINGTON AVE

Project Number: 1047

Lab Number: L1013912

Report Date: 09/15/10

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: WG432347-1								
Oxygen	91		-		80-120	-		
Methane	103		-		80-120	-		
Carbon Dioxide	102		-		80-120	-		

Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-07 Batch: WG432347-12								
Oxygen	92		-		80-120	-		
Methane	107		-		80-120	-		
Carbon Dioxide	110		-		80-120	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: CFI WASHINGTON AVE

Project Number: 1047

Lab Number: L1013912

Report Date: 09/15/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG432347-3 QC Sample: L1013912-01 Client ID: SG-1						
Oxygen	ND	ND	%	NC		5
Methane	60.7	61.3	%	1		5
Carbon Dioxide	9.76	12.4	%	24	Q	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG432347-4 QC Sample: L1013912-02 Client ID: SG-2						
Oxygen	ND	ND	%	NC		5
Methane	64.5	64.6	%	0		5
Carbon Dioxide	8.89	9.42	%	6	Q	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG432347-5 QC Sample: L1013912-03 Client ID: SG-3						
Oxygen	ND	ND	%	NC		5
Methane	43.3	43.5	%	0		5
Carbon Dioxide	15.0	13.5	%	11	Q	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG432347-6 QC Sample: L1013912-04 Client ID: SG-5						
Oxygen	ND	ND	%	NC		5
Methane	0.510	0.510	%	0		5
Carbon Dioxide	18.1	16.5	%	9	Q	5

Lab Duplicate Analysis

Batch Quality Control

Project Name: CFI WASHINGTON AVE

Project Number: 1047

Lab Number: L1013912

Report Date: 09/15/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG432347-7 QC Sample: L1013912-05 Client ID: SG-6					
Oxygen	5.56	6.05	%	8	Q 5
Methane	ND	ND	%	NC	5
Carbon Dioxide	10.6	10.5	%	1	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG432347-8 QC Sample: L1013912-06 Client ID: SG-7					
Oxygen	10.3	9.96	%	3	5
Methane	ND	ND	%	NC	5
Carbon Dioxide	8.33	8.33	%	0	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG432347-9 QC Sample: L1013912-07 Client ID: SG-8					
Oxygen	ND	ND	%	NC	5
Methane	ND	ND	%	NC	5
Carbon Dioxide	21.5	21.5	%	0	5

Project Name: CFI WASHINGTON AVE
Project Number: 1047

Lab Number: L1013912
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID: L1013912-01 D
 Client ID: SG-1
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 09/12/10 02:10
 Analyst: AJ

Date Collected: 09/07/10 11:00
 Date Received: 09/08/10
 Field Prep: Not Specified

Quality Control Information

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	4400	--	2200
Methyl tert butyl ether	ND		ug/m3	4400	--	2200
Benzene	70000		ug/m3	4400	--	2200
Toluene	ND		ug/m3	4400	--	2200
C5-C8 Aliphatics, Adjusted	24000000		ug/m3	26000	--	2200
Ethylbenzene	25000		ug/m3	4400	--	2200
p/m-Xylene	ND		ug/m3	8800	--	2200
o-Xylene	ND		ug/m3	4400	--	2200
Naphthalene	ND		ug/m3	4400	--	2200
C9-C12 Aliphatics, Adjusted	2800000		ug/m3	31000	--	2200
C9-C10 Aromatics Total	100000		ug/m3	22000	--	2200

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	103		50-200
Bromochloromethane	107		50-200
Chlorobenzene-d5	119		50-200

Project Name: CFI WASHINGTON AVE
Project Number: 1047

Lab Number: L1013912
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID: L1013912-02 D
 Client ID: SG-2
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 09/12/10 02:43
 Analyst: AJ

Date Collected: 09/07/10 10:39
 Date Received: 09/08/10
 Field Prep: Not Specified

Quality Control Information

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	4000	--	2000
Methyl tert butyl ether	ND		ug/m3	4000	--	2000
Benzene	5600		ug/m3	4000	--	2000
Toluene	ND		ug/m3	4000	--	2000
C5-C8 Aliphatics, Adjusted	7700000		ug/m3	24000	--	2000
Ethylbenzene	ND		ug/m3	4000	--	2000
p/m-Xylene	ND		ug/m3	8000	--	2000
o-Xylene	ND		ug/m3	4000	--	2000
Naphthalene	ND		ug/m3	4000	--	2000
C9-C12 Aliphatics, Adjusted	310000		ug/m3	28000	--	2000
C9-C10 Aromatics Total	30000		ug/m3	20000	--	2000

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	133		50-200
Bromochloromethane	132		50-200
Chlorobenzene-d5	117		50-200

Project Name: CFI WASHINGTON AVE
Project Number: 1047

Lab Number: L1013912
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID: L1013912-03 D
 Client ID: SG-3
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 09/12/10 03:16
 Analyst: AJ

Date Collected: 09/07/10 10:18
 Date Received: 09/08/10
 Field Prep: Not Specified

Quality Control Information

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	4600	--	2300
Methyl tert butyl ether	ND		ug/m3	4600	--	2300
Benzene	18000		ug/m3	4600	--	2300
Toluene	ND		ug/m3	4600	--	2300
C5-C8 Aliphatics, Adjusted	24000000		ug/m3	28000	--	2300
Ethylbenzene	ND		ug/m3	4600	--	2300
p/m-Xylene	ND		ug/m3	9200	--	2300
o-Xylene	ND		ug/m3	4600	--	2300
Naphthalene	ND		ug/m3	4600	--	2300
C9-C12 Aliphatics, Adjusted	710000		ug/m3	32000	--	2300
C9-C10 Aromatics Total	ND		ug/m3	23000	--	2300

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	114		50-200
Bromochloromethane	114		50-200
Chlorobenzene-d5	123		50-200

Project Name: CFI WASHINGTON AVE
Project Number: 1047

Lab Number: L1013912
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID: L1013912-04 D
 Client ID: SG-5
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 09/12/10 03:50
 Analyst: AJ

Date Collected: 09/07/10 08:45
 Date Received: 09/08/10
 Field Prep: Not Specified

Quality Control Information

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	4200	--	2100
Methyl tert butyl ether	ND		ug/m3	4200	--	2100
Benzene	6700		ug/m3	4200	--	2100
Toluene	ND		ug/m3	4200	--	2100
C5-C8 Aliphatics, Adjusted	31000000		ug/m3	25000	--	2100
Ethylbenzene	ND		ug/m3	4200	--	2100
p/m-Xylene	ND		ug/m3	8400	--	2100
o-Xylene	ND		ug/m3	4200	--	2100
Naphthalene	ND		ug/m3	4200	--	2100
C9-C12 Aliphatics, Adjusted	76000		ug/m3	29000	--	2100
C9-C10 Aromatics Total	ND		ug/m3	21000	--	2100

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	114		50-200
Bromochloromethane	129		50-200
Chlorobenzene-d5	116		50-200

Project Name: CFI WASHINGTON AVE
Project Number: 1047

Lab Number: L1013912
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID: L1013912-05
Client ID: SG-6
Sample Location: PORTLAND, ME
Matrix: Soil_Vapor
Analytical Method: 96,APH
Analytical Date: 09/12/10 01:01
Analyst: AJ

Date Collected: 09/07/10 09:12
Date Received: 09/08/10
Field Prep: Not Specified

Quality Control Information

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

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	60		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	24		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	135		50-200
Bromochloromethane	139		50-200
Chlorobenzene-d5	115		50-200

Project Name: CFI WASHINGTON AVE
Project Number: 1047

Lab Number: L1013912
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID: L1013912-06
 Client ID: SG-7
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 09/12/10 01:37
 Analyst: AJ

Date Collected: 09/07/10 09:32
 Date Received: 09/08/10
 Field Prep: Not Specified

Quality Control Information

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

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	32		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	32		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		50-200
Bromochloromethane	68		50-200
Chlorobenzene-d5	93		50-200

Project Name: CFI WASHINGTON AVE
Project Number: 1047

Lab Number: L1013912
Report Date: 09/15/10

SAMPLE RESULTS

Lab ID: L1013912-07 D
 Client ID: SG-8
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 09/12/10 04:24
 Analyst: AJ

Date Collected: 09/07/10 09:58
 Date Received: 09/08/10
 Field Prep: Not Specified

Quality Control Information

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	4400	--	2200
Methyl tert butyl ether	ND		ug/m3	4400	--	2200
Benzene	ND		ug/m3	4400	--	2200
Toluene	ND		ug/m3	4400	--	2200
C5-C8 Aliphatics, Adjusted	1200000		ug/m3	26000	--	2200
Ethylbenzene	ND		ug/m3	4400	--	2200
p/m-Xylene	ND		ug/m3	8800	--	2200
o-Xylene	ND		ug/m3	4400	--	2200
Naphthalene	ND		ug/m3	4400	--	2200
C9-C12 Aliphatics, Adjusted	ND		ug/m3	31000	--	2200
C9-C10 Aromatics Total	ND		ug/m3	22000	--	2200

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	113		50-200
Bromochloromethane	125		50-200
Chlorobenzene-d5	111		50-200

Project Name: CFI WASHINGTON AVE
Project Number: 1047

Lab Number: L1013912
Report Date: 09/15/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 96,APH
Analytical Date: 09/11/10 12:57
Analyst: AJ

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbons in Air - Mansfield Lab for sample(s): 01-07 Batch: WG431975-4					
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: CFI WASHINGTON AVE

Project Number: 1047

Lab Number: L1013912

Report Date: 09/15/10

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: WG431975-3								
1,3-Butadiene	90		-		70-130	-		
Methyl tert butyl ether	98		-		70-130	-		
Benzene	102		-		70-130	-		
Toluene	116		-		70-130	-		
C5-C8 Aliphatics, Adjusted	107		-		70-130	-		
Ethylbenzene	108		-		70-130	-		
p/m-Xylene	108		-		70-130	-		
o-Xylene	112		-		70-130	-		
Naphthalene	138		-		50-150	-		
C9-C12 Aliphatics, Adjusted	118		-		70-130	-		
C9-C10 Aromatics Total	101		-		70-130	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: CFI WASHINGTON AVE

Project Number: 1047

Lab Number: L1013912

Report Date: 09/15/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG431975-5 QC Sample: L1013911-01 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	ND	ND	ug/m3	NC		30
C5-C8 Aliphatics, Adjusted	59	57	ug/m3	3		30
Ethylbenzene	ND	ND	ug/m3	NC		30
p/m-Xylene	ND	ND	ug/m3	NC		30
o-Xylene	ND	ND	ug/m3	NC		30
Naphthalene	ND	ND	ug/m3	NC		30
C9-C12 Aliphatics, Adjusted	120	100	ug/m3	18		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
L1013912-01	SG-1	0468	#90 SV		-	-	200	200	0
L1013912-01	SG-1	480	2.7L Can	L1012544	-29.5	-4.4	-	-	-
L1013912-02	SG-2	0327	#90 SV		-	-	200	203	1
L1013912-02	SG-2	366	2.7L Can	L1012544	-29.5	-1.4	-	-	-
L1013912-03	SG-3	0301	#90 SV		-	-	200	203	1
L1013912-03	SG-3	1734	2.7L Can	L1012727	-29.5	-5.0	-	-	-
L1013912-04	SG-5	0116	#90 SV		-	-	200	196	2
L1013912-04	SG-5	558	2.7L Can	L1012544	-29.4	-2.9	-	-	-
L1013912-05	SG-6	0369	#90 SV		-	-	200	199	1
L1013912-05	SG-6	190	2.7L Can	L1012727	-29.5	-4.8	-	-	-
L1013912-06	SG-7	0059	#90 SV		-	-	200	196	2
L1013912-06	SG-7	207	2.7L Can	L1012544	-29.5	-4.0	-	-	-
L1013912-07	SG-8	0426	#90 SV		-	-	200	200	0
L1013912-07	SG-8	337	2.7L Can	L1012544	-29.4	-3.7	-	-	-



Air Volatiles Can Certification

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1012544**Project Number:** CANISTER QC BAT**Report Date:** 09/15/10**Air Canister Certification Results**

Lab ID: L1012544-01
 Client ID: CAN 487 SHELF 1
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 08/19/10 18:20
 Analyst: RY

Date Collected: 08/13/10 00:00
 Date Received: 08/13/10
 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:** L1012544**Project Number:** CANISTER QC BAT**Report Date:** 09/15/10**Air Canister Certification Results**

Lab ID: L1012544-01

Date Collected: 08/13/10 00:00

Client ID: CAN 487 SHELF 1

Date Received: 08/13/10

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:** L1012544**Project Number:** CANISTER QC BAT**Report Date:** 09/15/10**Air Canister Certification Results**

Lab ID: L1012544-01

Date Collected: 08/13/10 00:00

Client ID: CAN 487 SHELF 1

Date Received: 08/13/10

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:** L1012544**Project Number:** CANISTER QC BAT**Report Date:** 09/15/10**Air Canister Certification Results**

Lab ID: L1012544-01

Date Collected: 08/13/10 00:00

Client ID: CAN 487 SHELF 1

Date Received: 08/13/10

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:** L1012544**Project Number:** CANISTER QC BAT**Report Date:** 09/15/10**Air Canister Certification Results**

Lab ID: L1012544-01

Date Collected: 08/13/10 00:00

Client ID: CAN 487 SHELF 1

Date Received: 08/13/10

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	93		60-140
Bromochloromethane	104		60-140
chlorobenzene-d5	101		60-140



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1012544**Project Number:** CANISTER QC BAT**Report Date:** 09/15/10**Air Canister Certification Results**

Lab ID: L1012544-01
 Client ID: CAN 487 SHELF 1
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 08/19/10 18:20
 Analyst: RY

Date Collected: 08/13/10 00:00
 Date Received: 08/13/10
 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:** L1012544**Project Number:** CANISTER QC BAT**Report Date:** 09/15/10**Air Canister Certification Results**

Lab ID: L1012544-01

Date Collected: 08/13/10 00:00

Client ID: CAN 487 SHELF 1

Date Received: 08/13/10

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:** L1012544**Project Number:** CANISTER QC BAT**Report Date:** 09/15/10**Air Canister Certification Results**

Lab ID: L1012544-01

Date Collected: 08/13/10 00:00

Client ID: CAN 487 SHELF 1

Date Received: 08/13/10

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:** L1012544**Project Number:** CANISTER QC BAT**Report Date:** 09/15/10**Air Canister Certification Results**

Lab ID: L1012544-01

Date Collected: 08/13/10 00:00

Client ID: CAN 487 SHELF 1

Date Received: 08/13/10

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	90		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	99		60-140



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1012727**Project Number:** CANISTER QC BAT**Report Date:** 09/15/10**Air Canister Certification Results**

Lab ID: L1012727-01
 Client ID: CAN 223 SHELF 2
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 08/19/10 20:12
 Analyst: RY

Date Collected: 08/18/10 00:00
 Date Received: 08/18/10
 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:** L1012727**Project Number:** CANISTER QC BAT**Report Date:** 09/15/10**Air Canister Certification Results**

Lab ID: L1012727-01

Date Collected: 08/18/10 00:00

Client ID: CAN 223 SHELF 2

Date Received: 08/18/10

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:** L1012727**Project Number:** CANISTER QC BAT**Report Date:** 09/15/10**Air Canister Certification Results**

Lab ID: L1012727-01

Date Collected: 08/18/10 00:00

Client ID: CAN 223 SHELF 2

Date Received: 08/18/10

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:** L1012727**Project Number:** CANISTER QC BAT**Report Date:** 09/15/10**Air Canister Certification Results**

Lab ID: L1012727-01

Date Collected: 08/18/10 00:00

Client ID: CAN 223 SHELF 2

Date Received: 08/18/10

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:** L1012727**Project Number:** CANISTER QC BAT**Report Date:** 09/15/10**Air Canister Certification Results**

Lab ID: L1012727-01

Date Collected: 08/18/10 00:00

Client ID: CAN 223 SHELF 2

Date Received: 08/18/10

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	106		60-140
Bromochloromethane	113		60-140
chlorobenzene-d5	110		60-140



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1012727**Project Number:** CANISTER QC BAT**Report Date:** 09/15/10**Air Canister Certification Results**

Lab ID: L1012727-01
 Client ID: CAN 223 SHELF 2
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 08/19/10 20:12
 Analyst: RY

Date Collected: 08/18/10 00:00
 Date Received: 08/18/10
 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:** L1012727**Project Number:** CANISTER QC BAT**Report Date:** 09/15/10**Air Canister Certification Results**

Lab ID: L1012727-01

Date Collected: 08/18/10 00:00

Client ID: CAN 223 SHELF 2

Date Received: 08/18/10

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:** L1012727**Project Number:** CANISTER QC BAT**Report Date:** 09/15/10**Air Canister Certification Results**

Lab ID: L1012727-01

Date Collected: 08/18/10 00:00

Client ID: CAN 223 SHELF 2

Date Received: 08/18/10

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: L1012727

Project Number: CANISTER QC BAT

Report Date: 09/15/10

Air Canister Certification Results

Lab ID: L1012727-01

Date Collected: 08/18/10 00:00

Client ID: CAN 223 SHELF 2

Date Received: 08/18/10

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	105		60-140
bromochloromethane	112		60-140
chlorobenzene-d5	109		60-140



AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1012544**Project Number:** CANISTER QC BAT**Report Date:** 09/15/10**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1012544-01
Client ID: CAN 487 SHELF 1
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 08/19/10 18:20
Analyst: RY

Date Collected: 08/13/10 00:00
Date Received: 08/13/10
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:** L1012727**Project Number:** CANISTER QC BAT**Report Date:** 09/15/10**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1012727-01
Client ID: CAN 223 SHELF 2
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 08/19/10 20:12
Analyst: RY

Date Collected: 08/18/10 00:00
Date Received: 08/18/10
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: CFI WASHINGTON AVE**Lab Number:** L1013912**Project Number:** 1047**Report Date:** 09/15/10**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(*)
L1013912-01A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1013912-02A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1013912-03A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1013912-04A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1013912-05A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1013912-06A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1013912-07A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name: CFI WASHINGTON AVE
Project Number: 1047

Lab Number: L1013912
Report Date: 09/15/10

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: CFI WASHINGTON AVE

Lab Number: L1013912

Project Number: 1047

Report Date: 09/15/10

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: CFI WASHINGTON AVE
Project Number: 1047

Lab Number: L1013912
Report Date: 09/15/10

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
 CHAIN OF CUSTODY

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

Project Information
 Project Name: CET Washington Ave
 Project Location: Portland ME

Report Information - Data Deliverables
 FAX
 ADEX
 Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
 Other Formats: _____
 EMAIL (standard pdf report)
 Additional Deliverables: _____

Billing Information
 Same as Client Info PO #: _____

Client: Peter Ement A MEDEP
 Address: 312 Canco Rd
Portland, ME 04103
 Phone: 207-822-1634
 Fax: _____
 Email: Pete.M.Ement@Maine.gov

Date Rec'd in Lab: _____
 Report to: (if different than Project Manager)
Diana M. Melenzio@Maine.gov

ALPHA Job #: L1013912

Project #: 1047 Paul Percott
 Project Manager: Peter Ement
 ALPHA Quote #: _____
 Standard RUSH (only confirmed if pre-approved)
 Date Due: _____ Time: _____

Regulatory Requirements/Report Limits
 State/Fed Program: MEDDP BUR
 Criteria: 1/10

ANALYSIS
 TO-14A by TO-15
 TO-15 *
 TO-15 SIM
 APH
 FIXED GASES CO2, O2, H2
 TO-13A
 TO-4 / TO-10
 Sample Comments (i.e. PID)
* Limited TO-15 AS per ME DEP - Fixed Gases CO2, CO, CH4

Other Project Specific Requirements/Comments: See Attached - Samples are part of MEDDP VAPOR DIFFUSION Study

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	TO-14A by TO-15	TO-15 *	TO-15 SIM	APH	FIXED GASES CO2, O2, H2	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
		Date	Start Time	End Time	Vacuum													
L1013912-1	SG-1	9-7-10	1050	1100	-30	-5	SV	SB	1L	480	0468	X	X	X	X	X		
	2		1028	1039	-30	-5				366	0327	X	X	X	X	X		
	3		1008	1018	-30	-5				1734	0301	X	X	X	X	X		
	4		834	845	-30	-5				858	0116	X	X	X	X	X		
	5		0900	0912	-30	-5				190	0304	X	X	X	X	X		
	6		920	932	-30	-5				207	0057	X	X	X	X	X		
	7		946	958	-30	-5				337	0426	X	X	X	X	X		

*** SAMPLE MATRIX CODES**

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

Container Type

Date/Time:

Requisitioned By: [Signature] Date/Time: 9/7/10 10:10
 Received By: [Signature] Date/Time: 9/14/10 14:00
 Form No: 101-02 (19-Jun-09)

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.

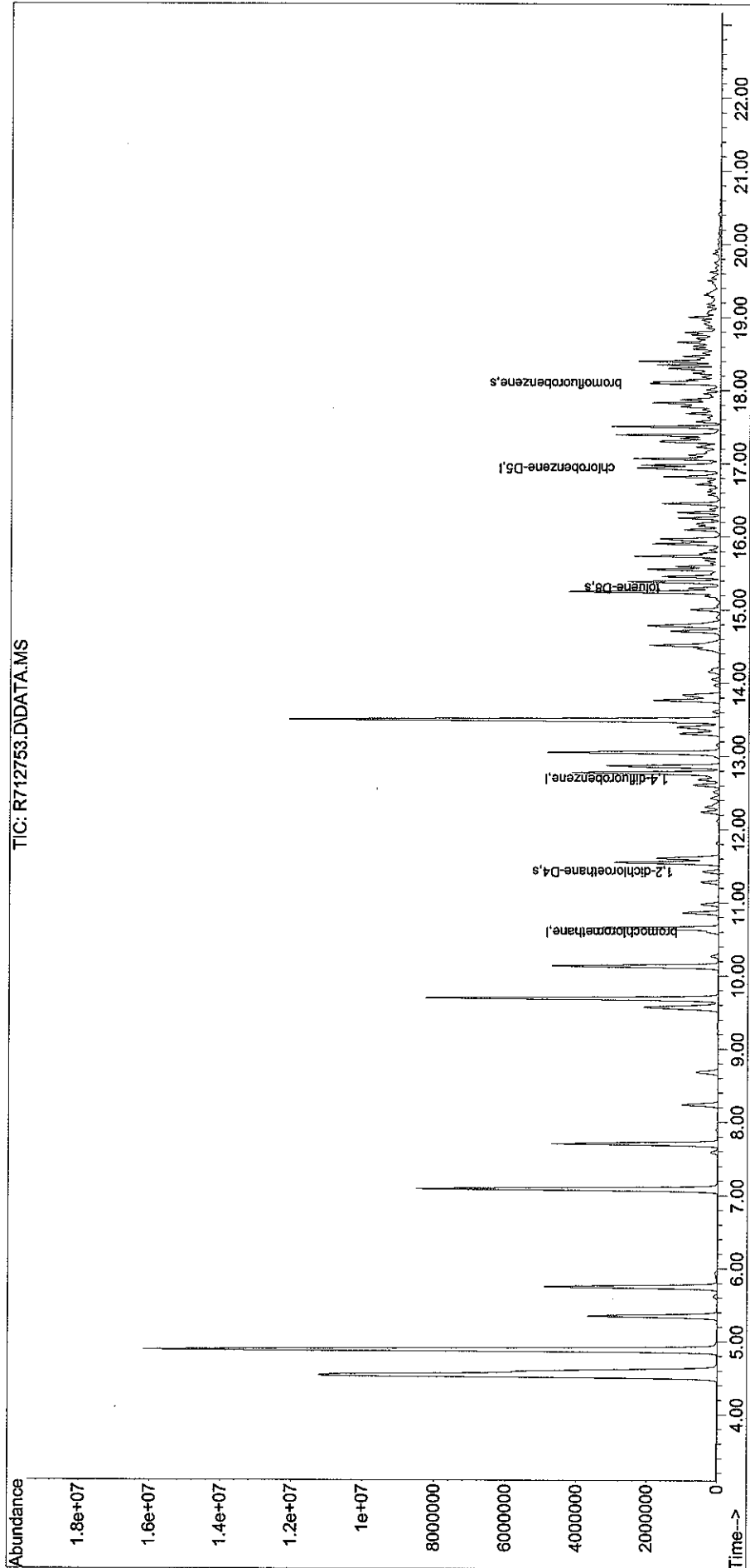
TO-15

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

Data Path : O:\Forensics\Data\AirLab7\2010\100911T\
Data File : R712753.D
Acq On : 12 Sep 2010 2:10 am
Operator : AIRLAB7:aj
Sample : 11013912-01d,3,0.1108,250
Misc : wg431974,ical5297
ALS Vial : 13 Sample Multiplier: 1

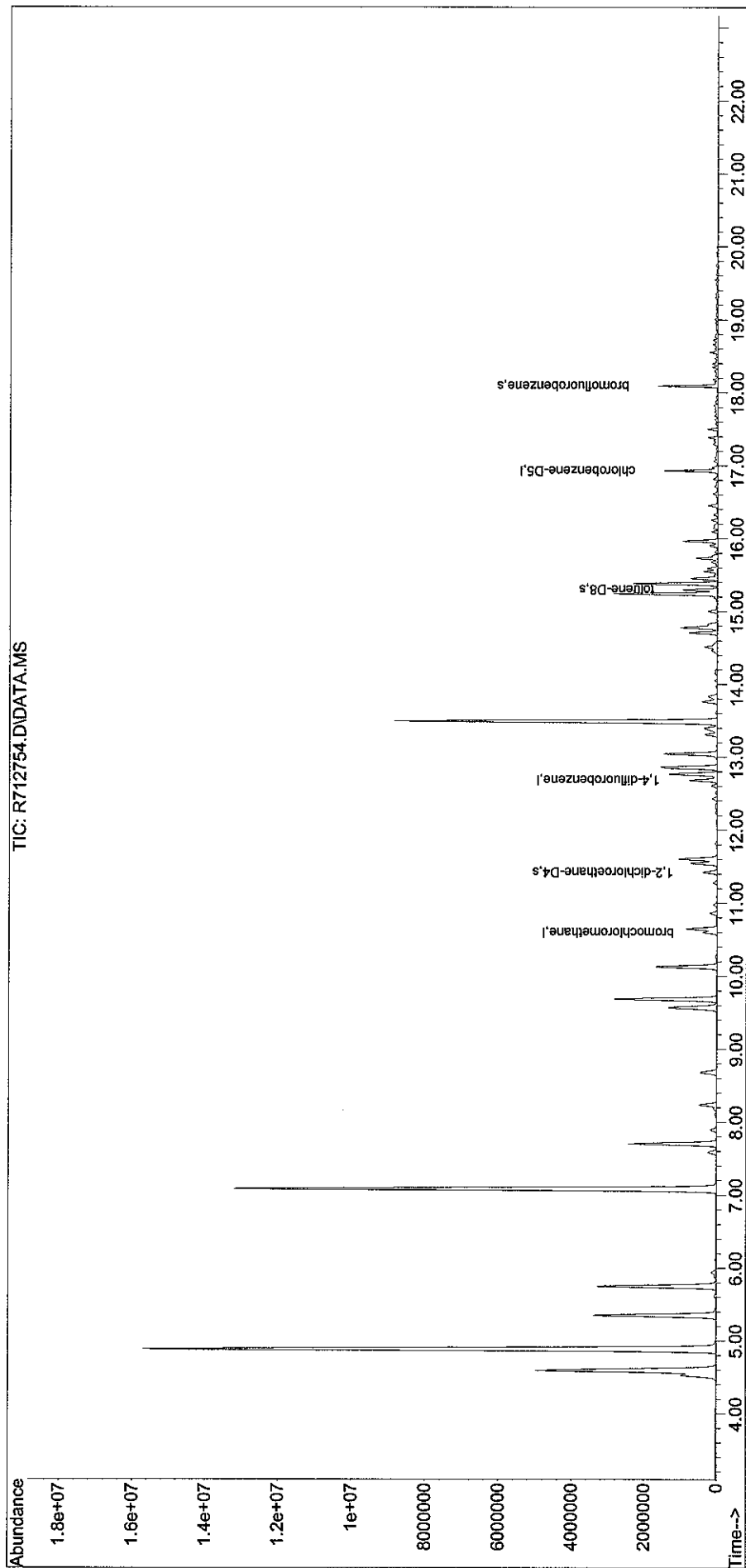
Quant Time: Sep 13 12:39:28 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\100911T\TALL100825.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Aug 26 11:10:47 2010
Response via : Initial Calibration

TIC: R712753.D\DATA.MS



Data Path : O:\Forensics\Data\AirLab7\2010\100911T\
Data File : R712754.D
Acq On : 12 Sep 2010 2:43 am
Operator : AIRLAB7:aj
Sample : 11013912-02d,3,0.1229,250
Misc : wg431974,ical5297
ALS Vial : 14 Sample Multiplier: 1

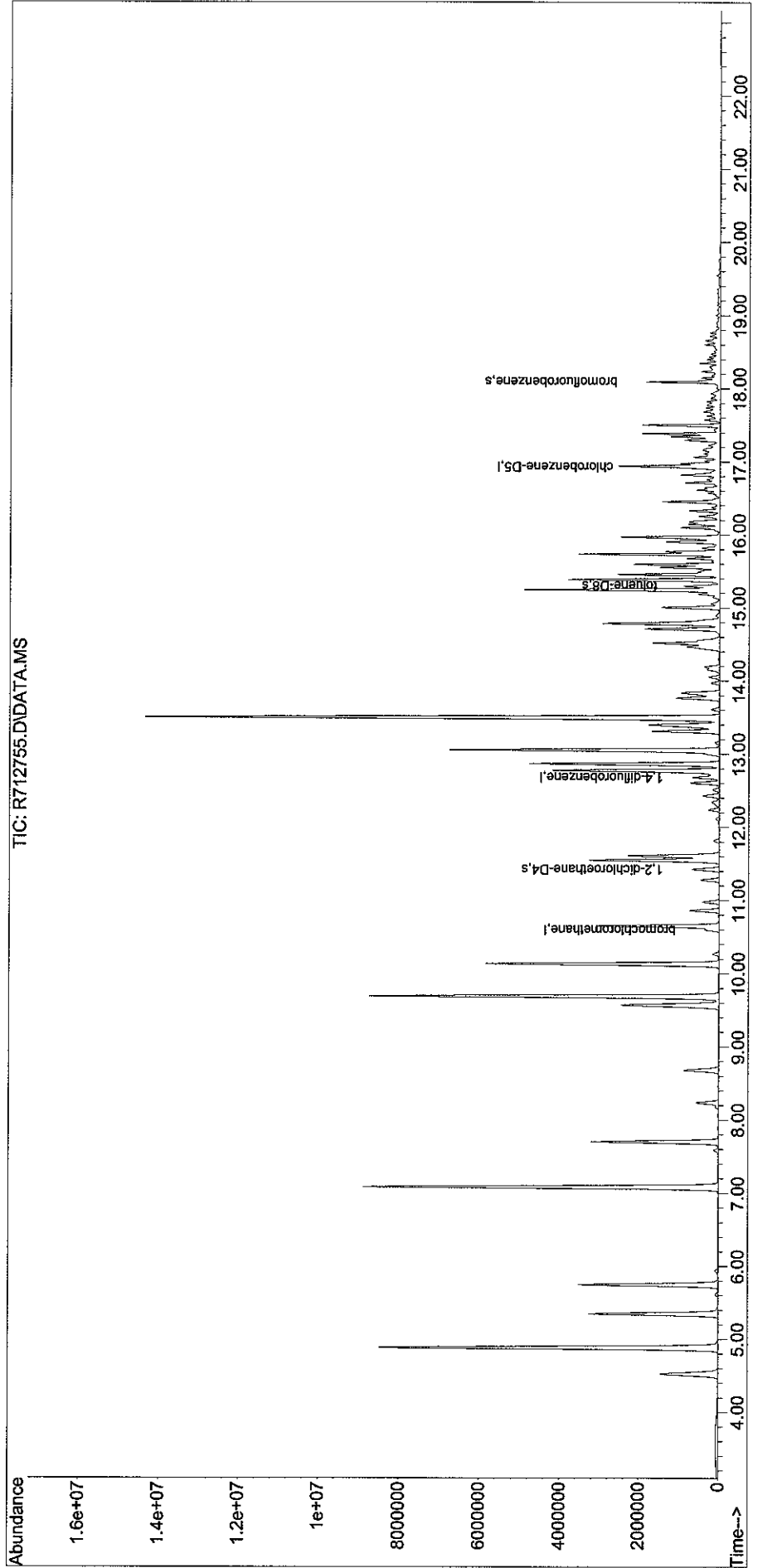
Quant Time: Sep 13 12:40:17 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\100911T\TALL100825.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Aug 26 11:10:47 2010
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\AirLab7\2010\100911T\
Data File : R712755.D
Acq On : 12 Sep 2010 3:16 am
Operator : AIRLAB7:aj
Sample : 11013912-03d,3,0.1067,250
Misc : wg431974,ical5297
ALS Vial : 15 Sample Multiplier: 1

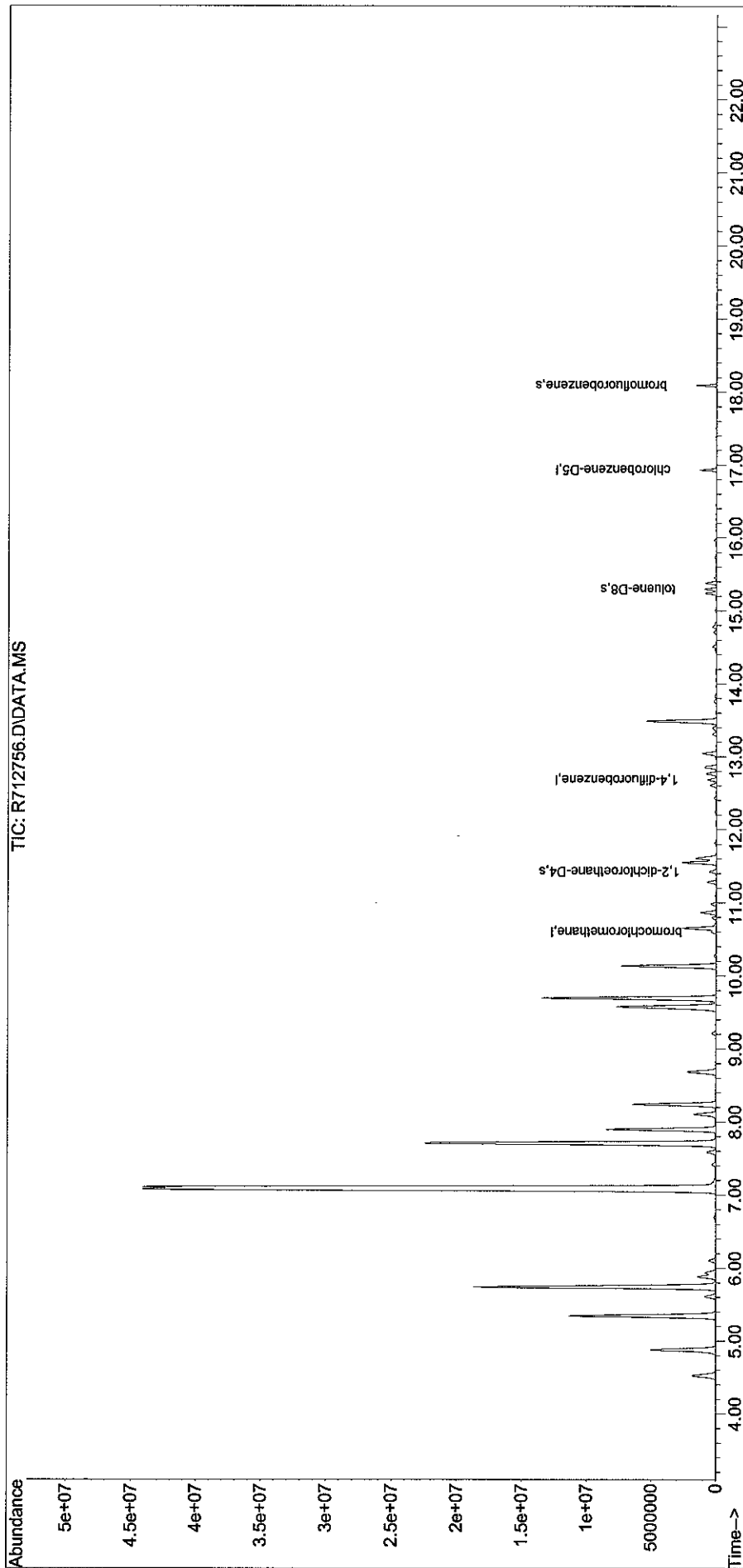
Quant Time: Sep 13 12:40:53 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\100911T\FALL100825.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Aug 26 11:10:47 2010
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\AirLab7\2010\100911T\
Data File : R712756.D
Acq On : 12 Sep 2010 3:50 am
Operator : AIRLAB7:aj
Sample : I1013912-04d,3,0.1166,250
Misc : wg431974,ical5297
ALS Vial : 16 Sample Multiplier: 1

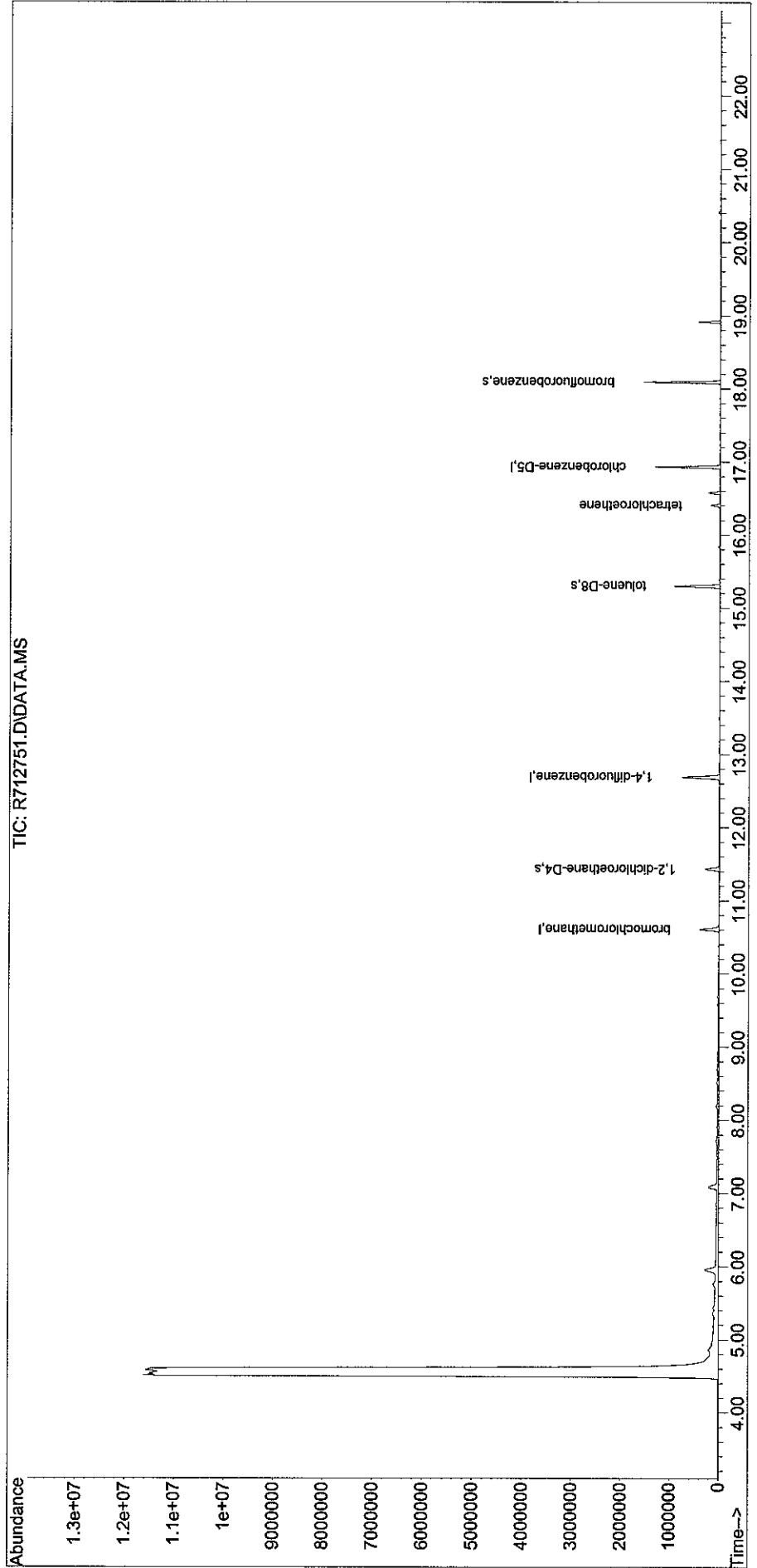
Quant Time: Sep 13 12:41:34 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\100911T\TALLI00825.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Aug 26 11:10:47 2010
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\AirLab7\2010\100911T\
Data File : R712751.D
Acq On : 12 Sep 2010 1:01 am
Operator : AIRLAB7:aj
Sample : 11013912-05,3,250,250
Misc : wg431974,ical5297
ALS Vial : 11 Sample Multiplier: 1

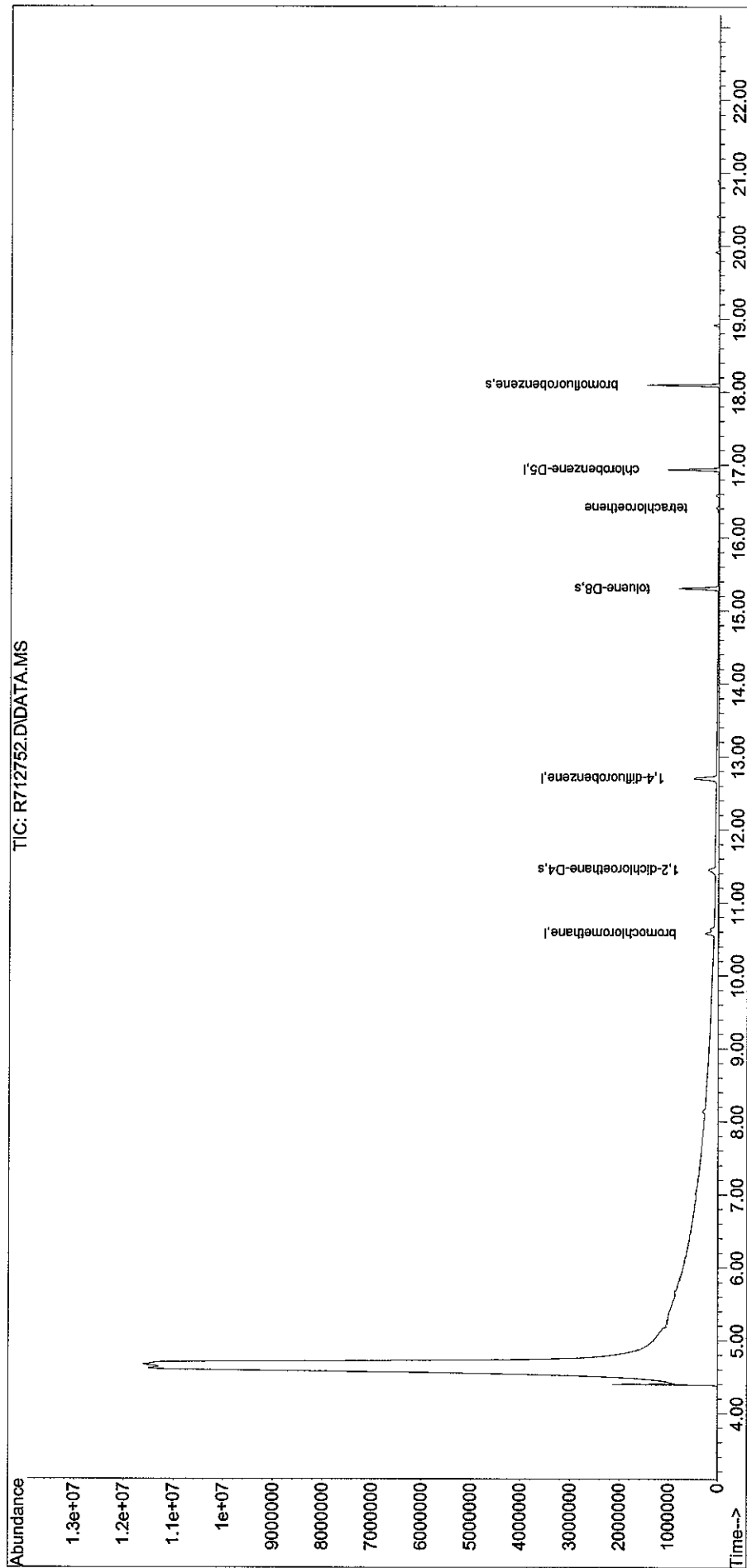
Quant Time: Sep 13 12:37:27 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\100911T\TALL100825.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Aug 26 11:10:47 2010
Response via : Initial Calibration



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

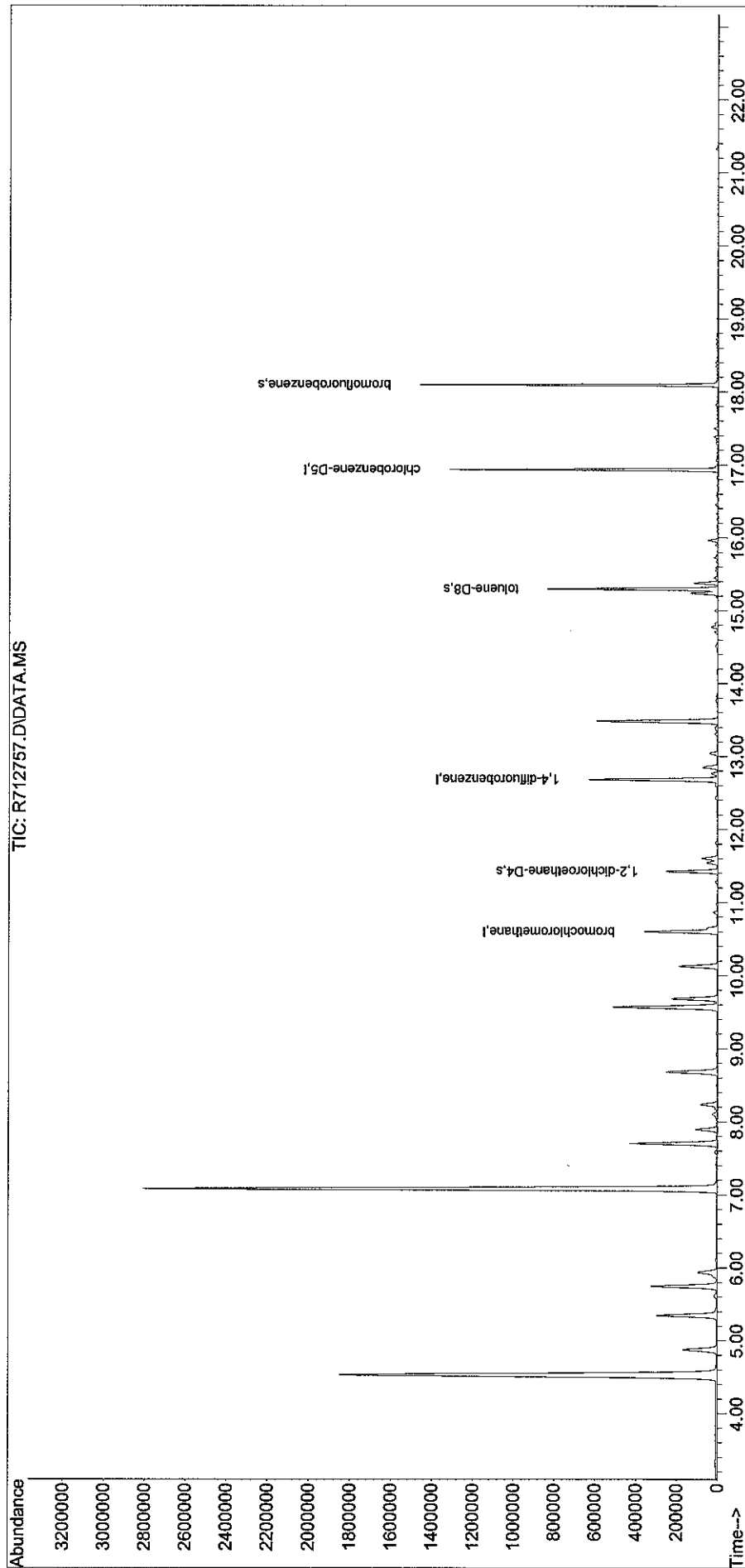
Data Path : O:\Forensics\Data\AirLab7\2010\100911T\
Data File : R712752.D
Acq On : 12 Sep 2010 1:37 am
Operator : AIRLAB7:aj
Sample : 11013912-06,3,250,250
Misc : wg431974,ical5297
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 13 10:21:50 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\100911T\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



Data Path : O:\Forensics\Data\AirLab7\2010\100911T\
Data File : R712757.D
Acq On : 12 Sep 2010 4:24 am
Operator : AIRLAB7:aj
Sample : 11013912-07d,3,0.1130,250
Misc : wg431974,ical5297
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 10:24:17 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\100911T\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



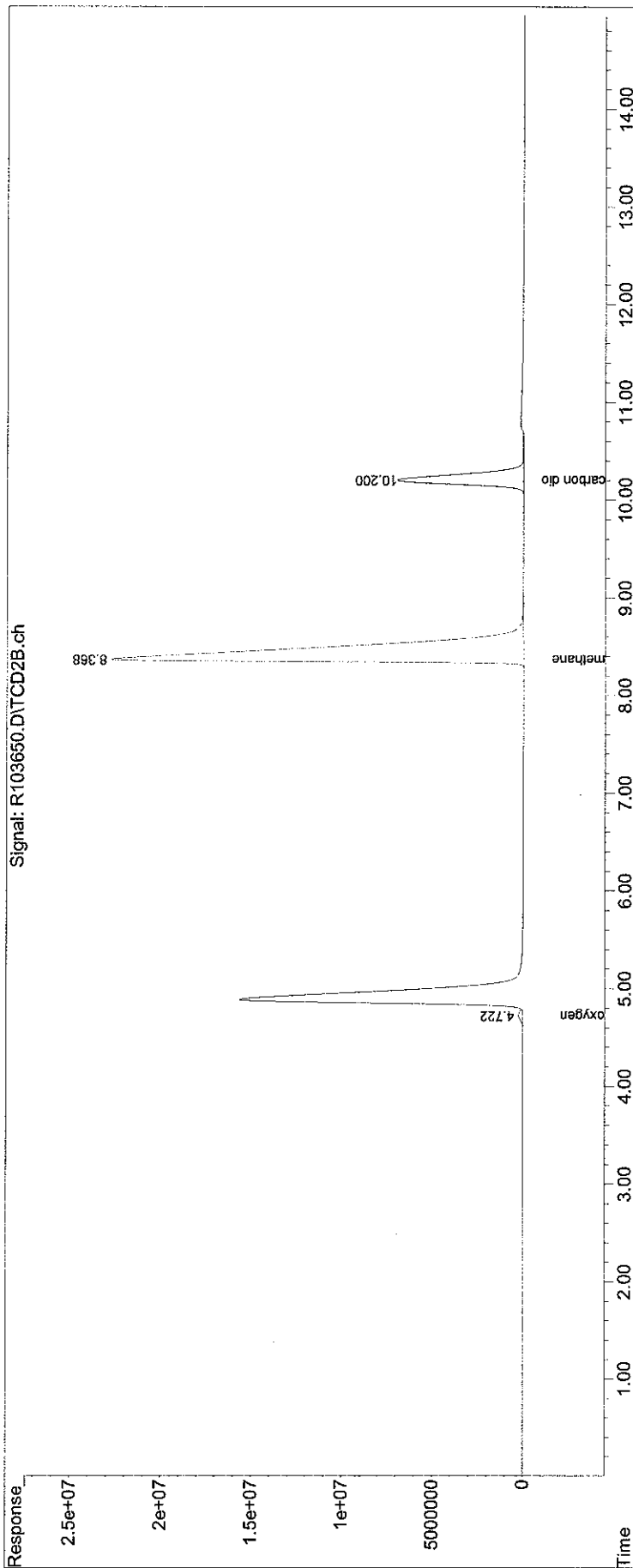
Fixed Gases

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\100915FG\
 Data File : R103650.D
 Signal(s) : TCD2B.ch
 Acq On : 15 Sep 2010 11:20 am
 Operator : airlab10:RY
 Sample : L1013912-01D,4,0.5922,1.0
 Misc : WG432347,ICAL5222
 ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 15 13:09:54 2010
 Quant Method : O:\Forensics\Data\airlab10\100914nFG\FG100730.M
 Quant Title : Fixed Gas Analysis via Method 3C
 QLast Update : Tue Aug 03 13:42:03 2010
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

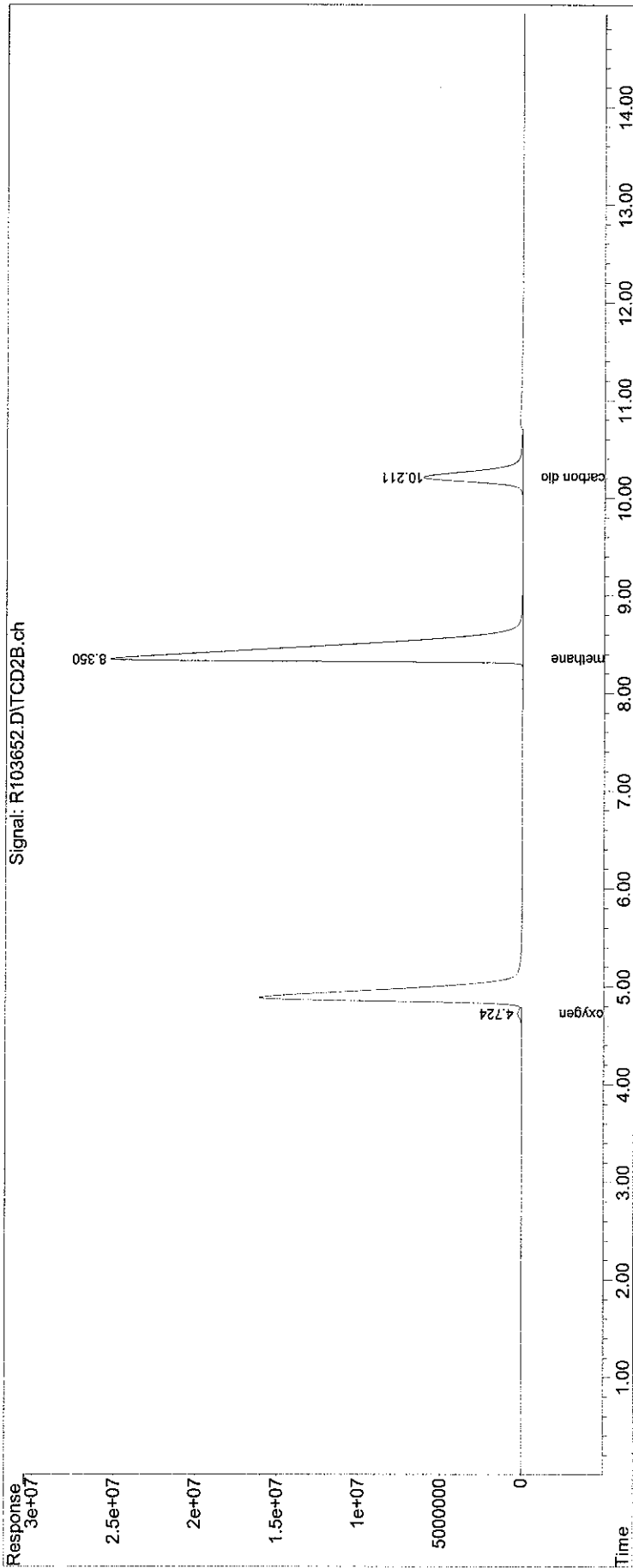


Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\100915FG\
 Data File : R103652.D
 Signal(s) : TCD2B.ch
 Acq On : 15 Sep 2010 12:01 pm
 Operator : airlab10:RY
 Sample : L1013912-02D,4,0.6570,1.0
 Misc : WG432347,ICAL5222
 ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 15 13:10:42 2010
 Quant Method : O:\Forensics\Data\airlab10\100914nFG\FG100730.M
 Quant Title : Fixed Gas Analysis via Method 3C
 QLast Update : Tue Aug 03 13:42:03 2010
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

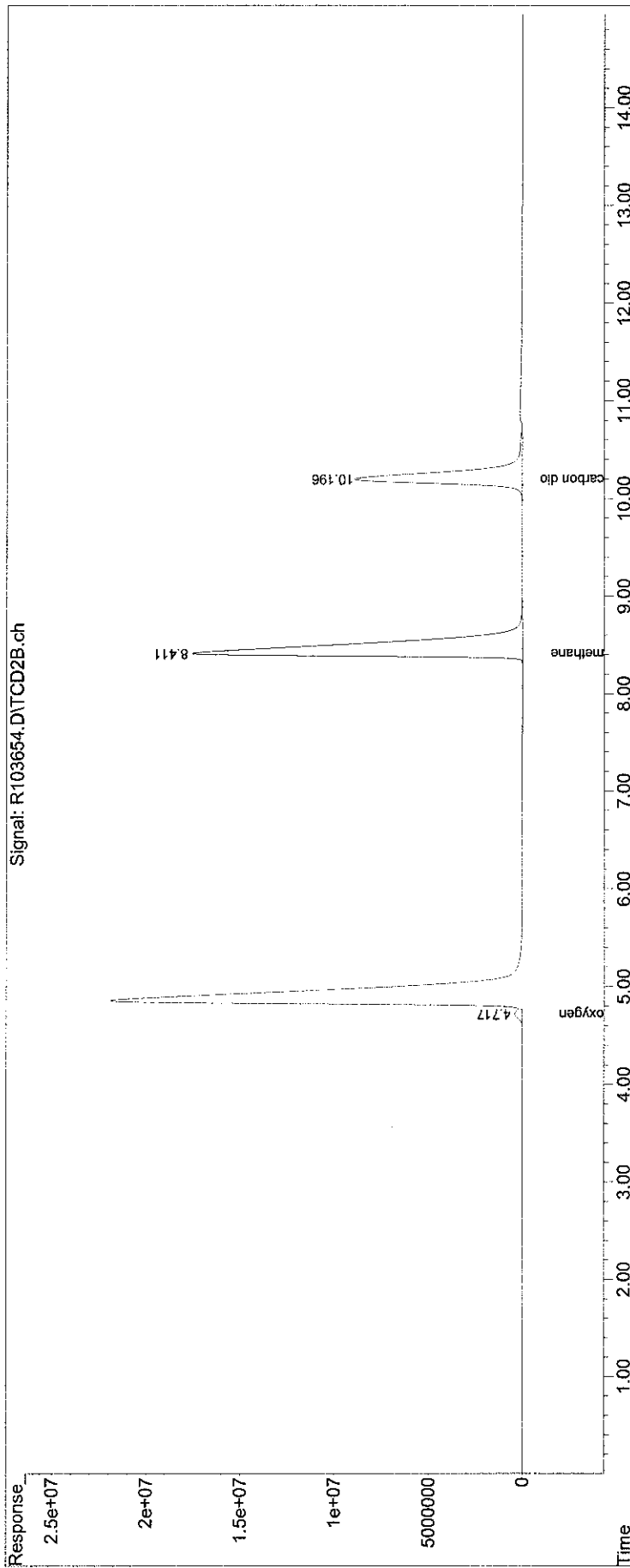


Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\100915FG\
Data File : R103654.D
Signal(s) : TCD2B.ch
Acq On : 15 Sep 2010 12:42 pm
Operator : airlab10:RY
Sample : L1013912-03D,4,0.5700,1.0
Misc : WG432347,ICAL5222
ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 15 13:11:39 2010
Quant Method : O:\Forensics\Data\airlab10\100914nFG\FG100730.M
Quant Title : Fixed Gas Analysis via Method 3C
QLast Update : Tue Aug 03 13:42:03 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

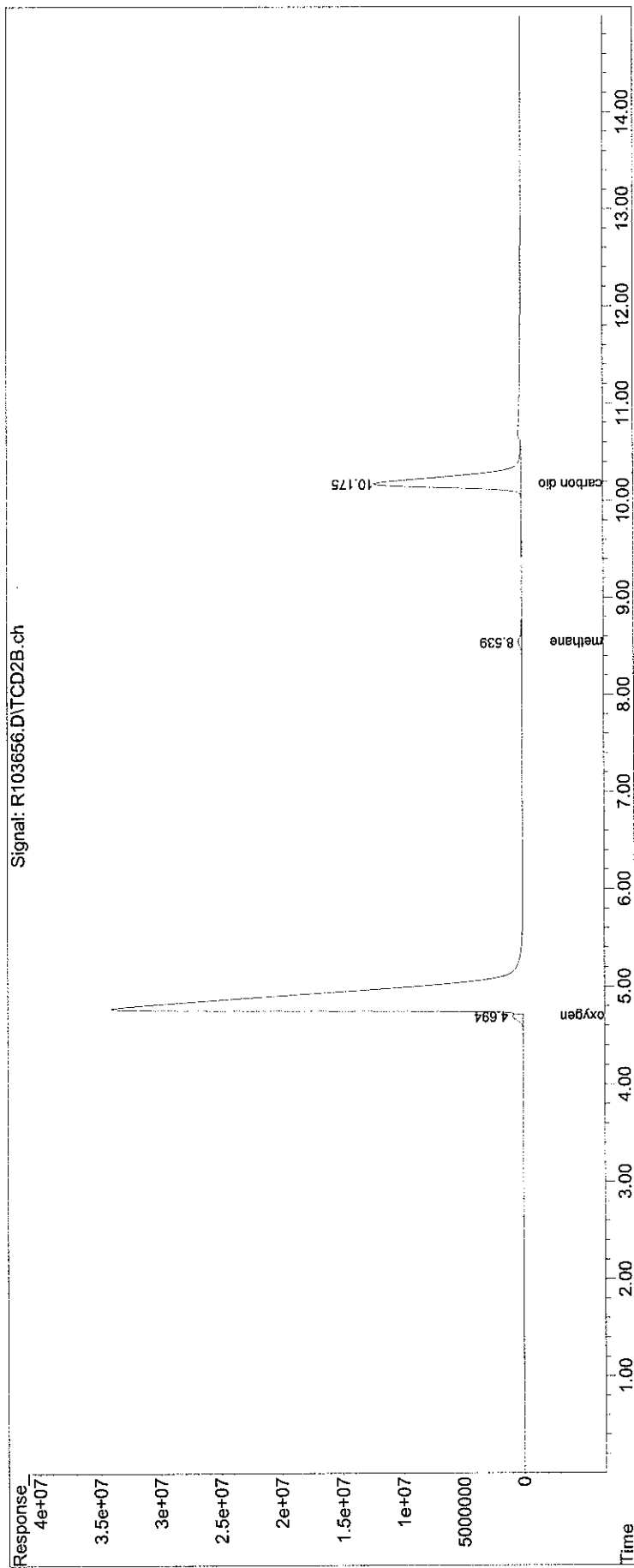


Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\100915FG\
 Data File : R103656.D
 Signal(s) : TCD2B.ch
 Acq On : 15 Sep 2010 1:23 pm
 Operator : airlab10:RY
 Sample : L1013912-04D,4,0.6232,1.0
 Misc : WG432347,ICAL5222
 ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 15 13:40:16 2010
 Quant Method : O:\Forensics\Data\airlab10\100914nFG\FG100730.M
 Quant Title : Fixed Gas Analysis via Method 3C
 QLast Update : Tue Aug 03 13:42:03 2010
 Response via : Initial Calibration
 Integrator: ChemStation

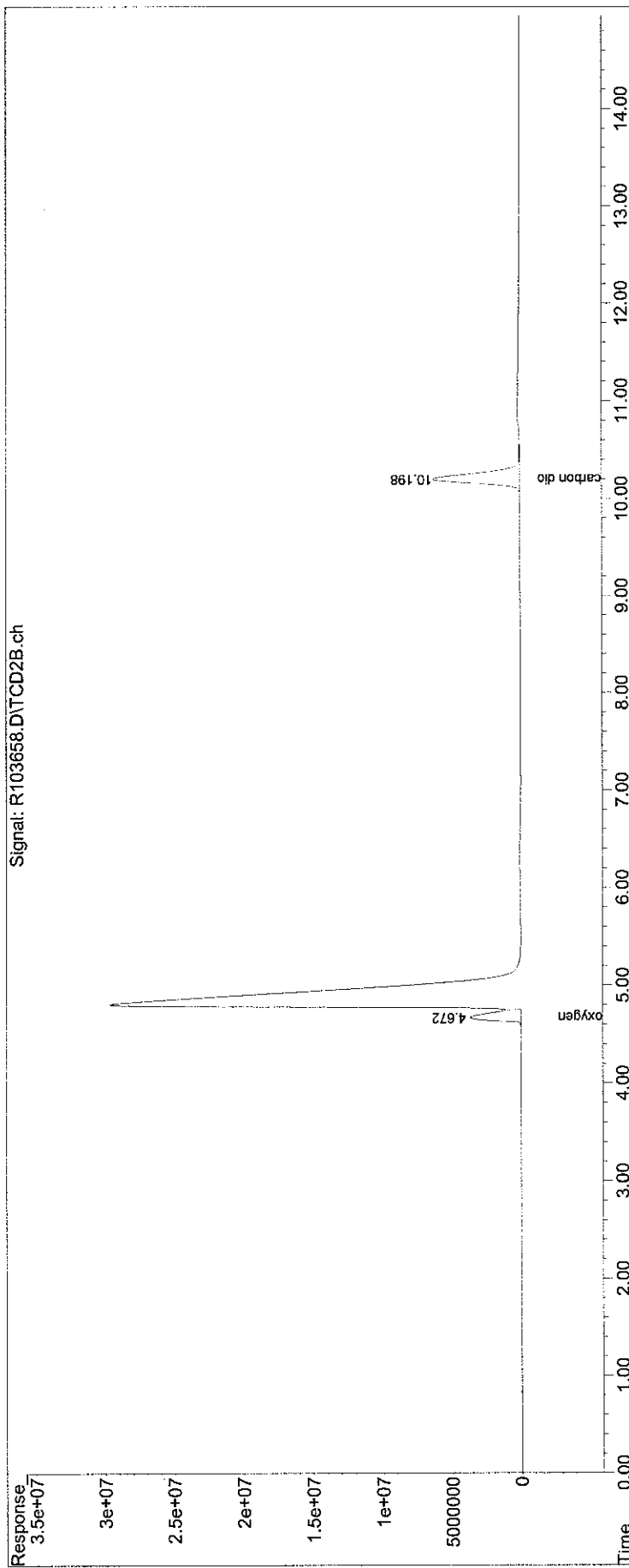
Volume Inj. :
 Signal Phase :
 Signal Info :



Data Path : O:\Forensics\Data\airlab10\100915FG\
 Data File : R103658.D
 Signal(s) : TCD2B.ch
 Acq On : 15 Sep 2010 2:04 pm
 Operator : airlab10:RY
 Sample : L1013912-05D,4,0.4880,1.0
 Misc : WG432347,ICAL5222
 ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 15 14:20:36 2010
 Quant Method : O:\Forensics\Data\airlab10\100914nFG\FG100730.M
 Quant Title : Fixed Gas Analysis via Method 3C
 Qlast Update : Tue Aug 03 13:42:03 2010
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

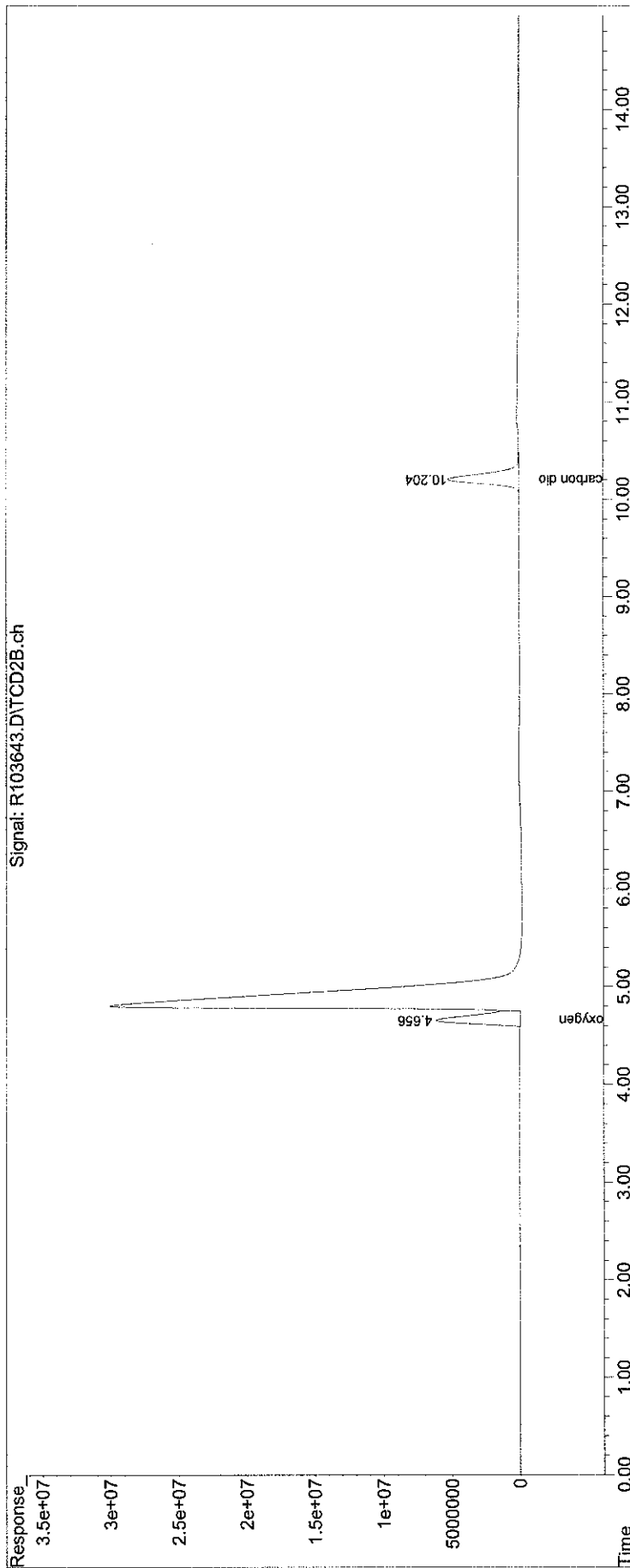


Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\100914nFG\
 Data File : R103643.D
 Signal(s) : TCD2B.ch
 Acq On : 14 Sep 2010 8:51 pm
 Operator : airlab10:RY
 Sample : L1013912-06D,4,0.5144,1.0
 Misc : WG432347,ICAL5222
 ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 15 10:15:30 2010
 Quant Method : O:\Forensics\Data\airlab10\100914nFG\FG100730.M
 Quant Title : Fixed Gas Analysis via Method 3C
 QLast Update : Tue Aug 03 13:42:03 2010
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

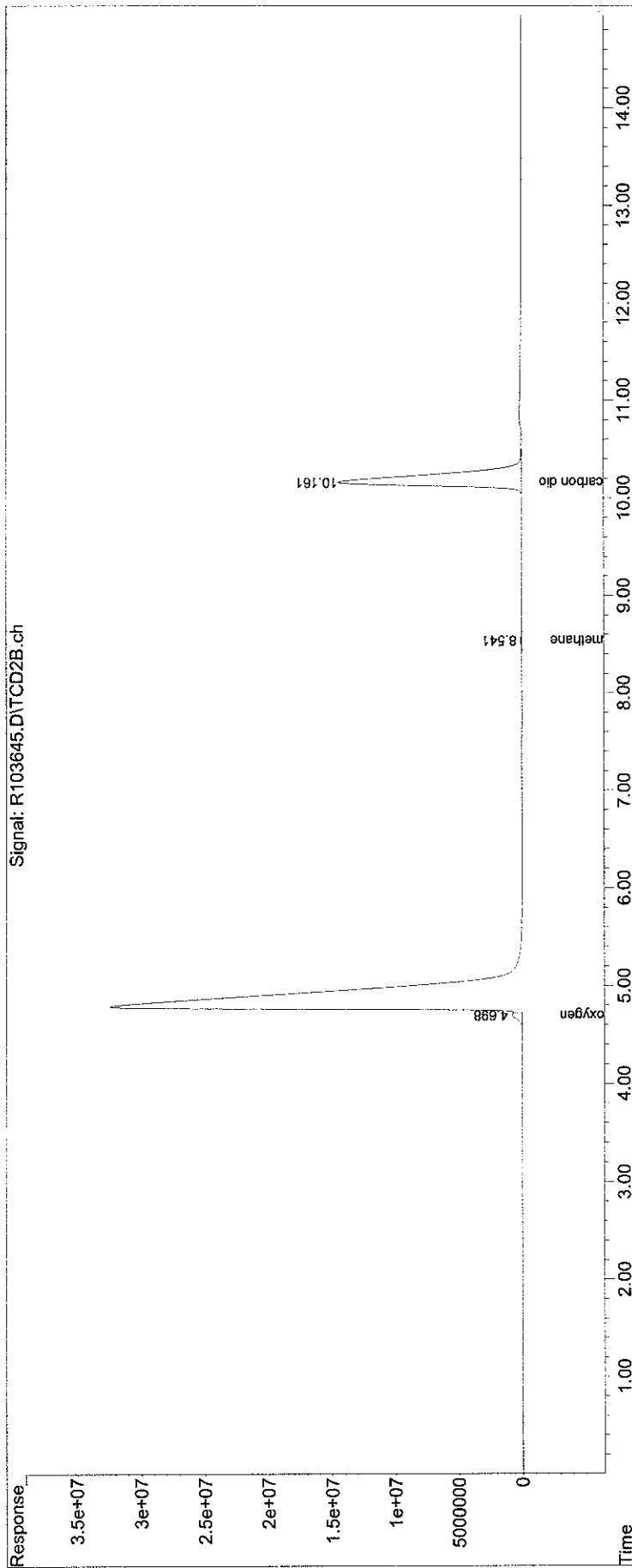


Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\100914nFG\
 Data File : R103645.D
 Signal(s) : TCD2B.ch
 Acq On : 14 Sep 2010 9:32 pm
 Operator : airlab10:RY
 Sample : L1013912-07D,4,0.6039,1.0
 Misc : WG432347,ICAL5222
 ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 15 10:16:47 2010
 Quant Method : O:\Forensics\Data\airlab10\100914nFG\FG100730.M
 Quant Title : Fixed Gas Analysis via Method 3C
 QLast Update : Tue Aug 03 13:42:03 2010
 Response via : Initial Calibration
 Integrator: ChemStation

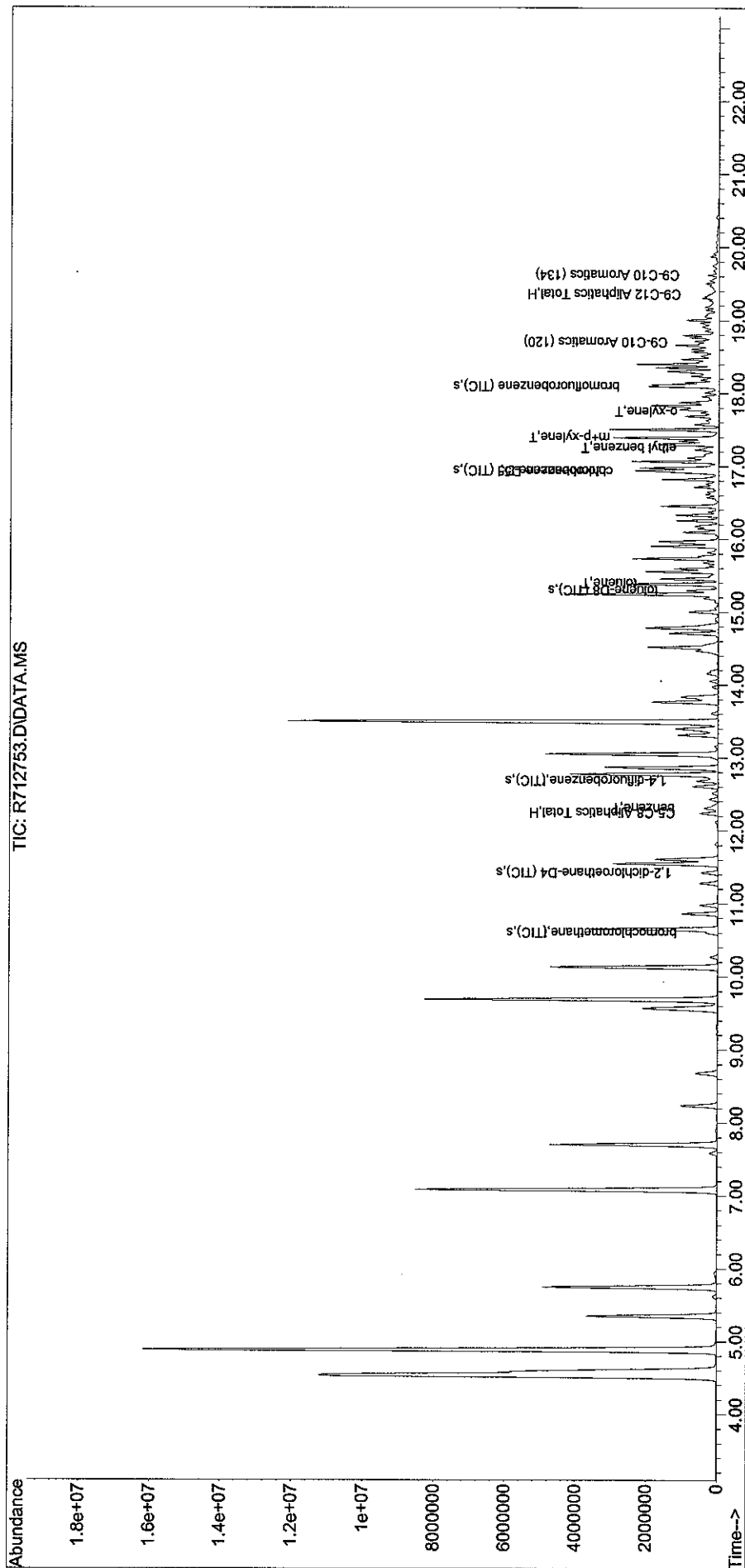
Volume Inj. :
 Signal Phase :
 Signal Info :



APH

Data Path : O:\Forensics\Data\AirLab7\2010\100911A\
Data File : R712753.D
Acq On : 12 Sep 2010 2:10 am
Operator : AIRLAB7:aj
Sample : 11013912-01d,3,0.1108,250
Misc : wg431975
ALS Vial : 13 Sample Multiplier: 1

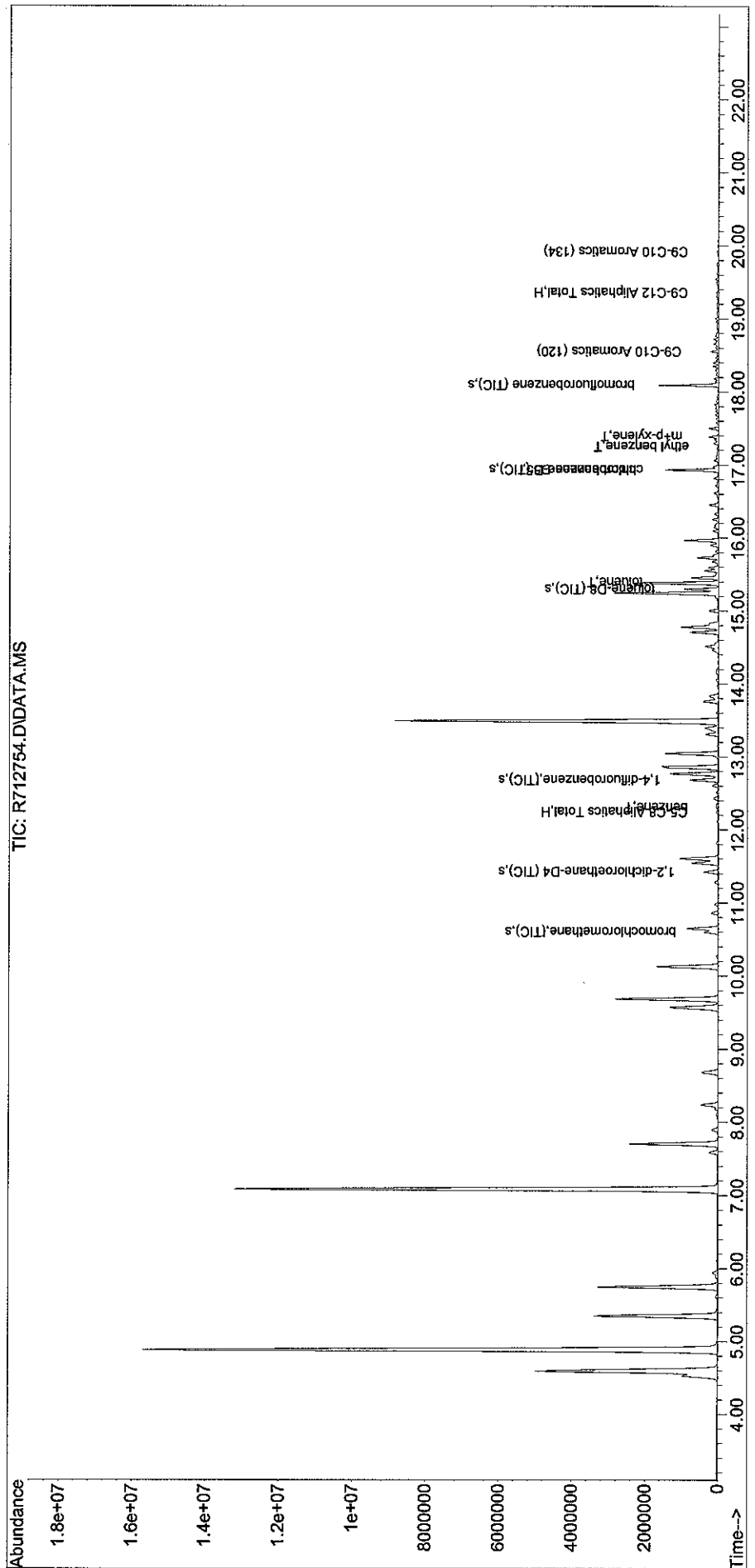
Quant Time: Sep 13 15:26:52 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\100909A\APH100907.M
Quant Title : APH Analysis
QLast Update : Tue Sep 07 16:21:34 2010
Response via : Initial Calibration



Sub List : APH_STD_M - . Report (QT Reviewed)

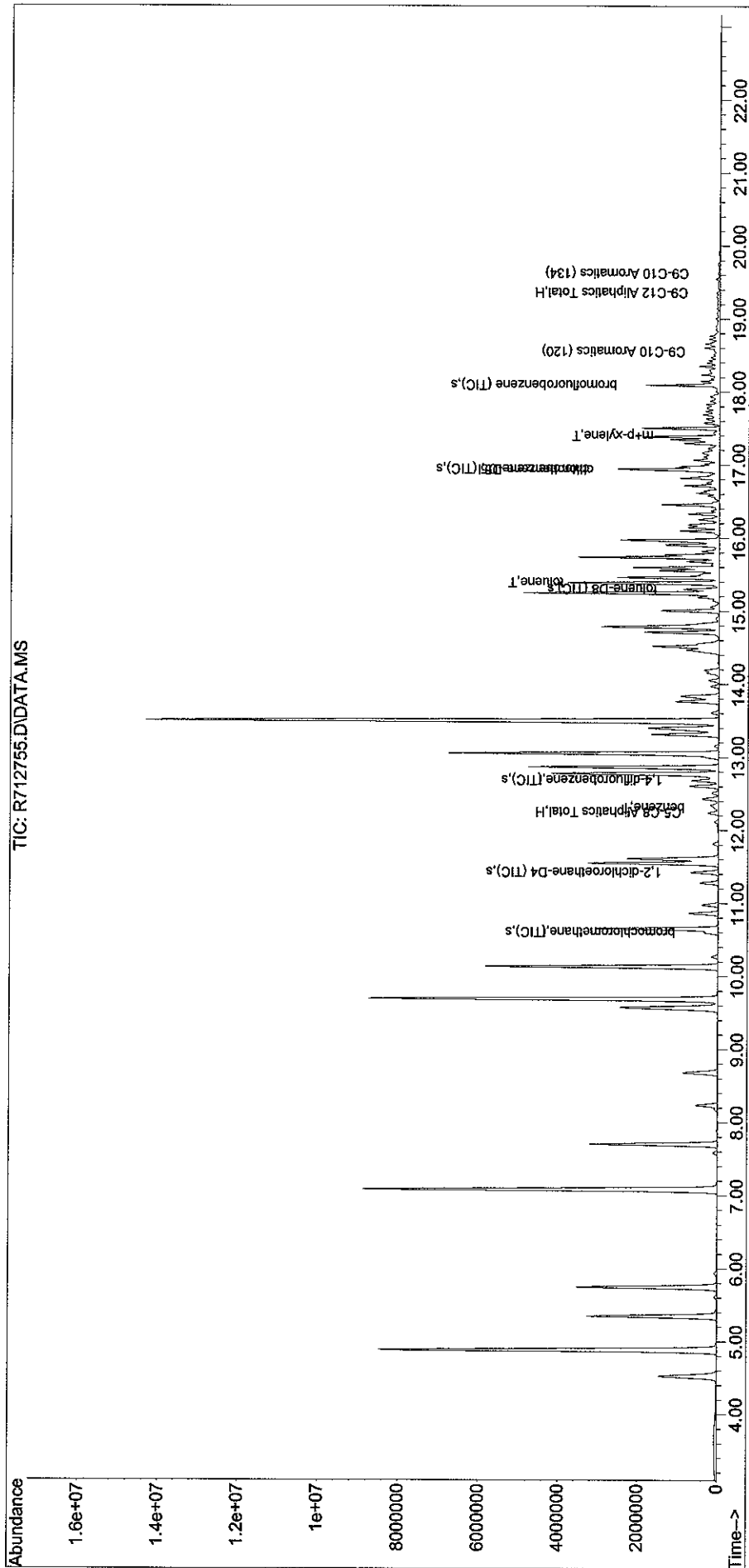
Data Path : O:\Forensics\Data\AirLab7\2010\100911A\
Data File : R712754.D
Acq On : 12 Sep 2010 2:43 am
Operator : AIRLAB7:aj
Sample : 11013912-02d,3,0.1229,250
Misc : wg431975
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 13 15:28:04 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\100909A\APH100907.M
Quant Title : APH Analysis
QLast Update : Tue Sep 07 16:21:34 2010
Response via : Initial Calibration



Data Path : O:\Forensics\Data\AirLab7\2010\100911A\
Data File : R712755.D
Acq On : 12 Sep 2010 3:16 am
Operator : AIRLAB7:aj
Sample : 11013912-03d,3,0.1067,250
Misc : wg431975
ALS Vial : 15 Sample Multiplier: 1

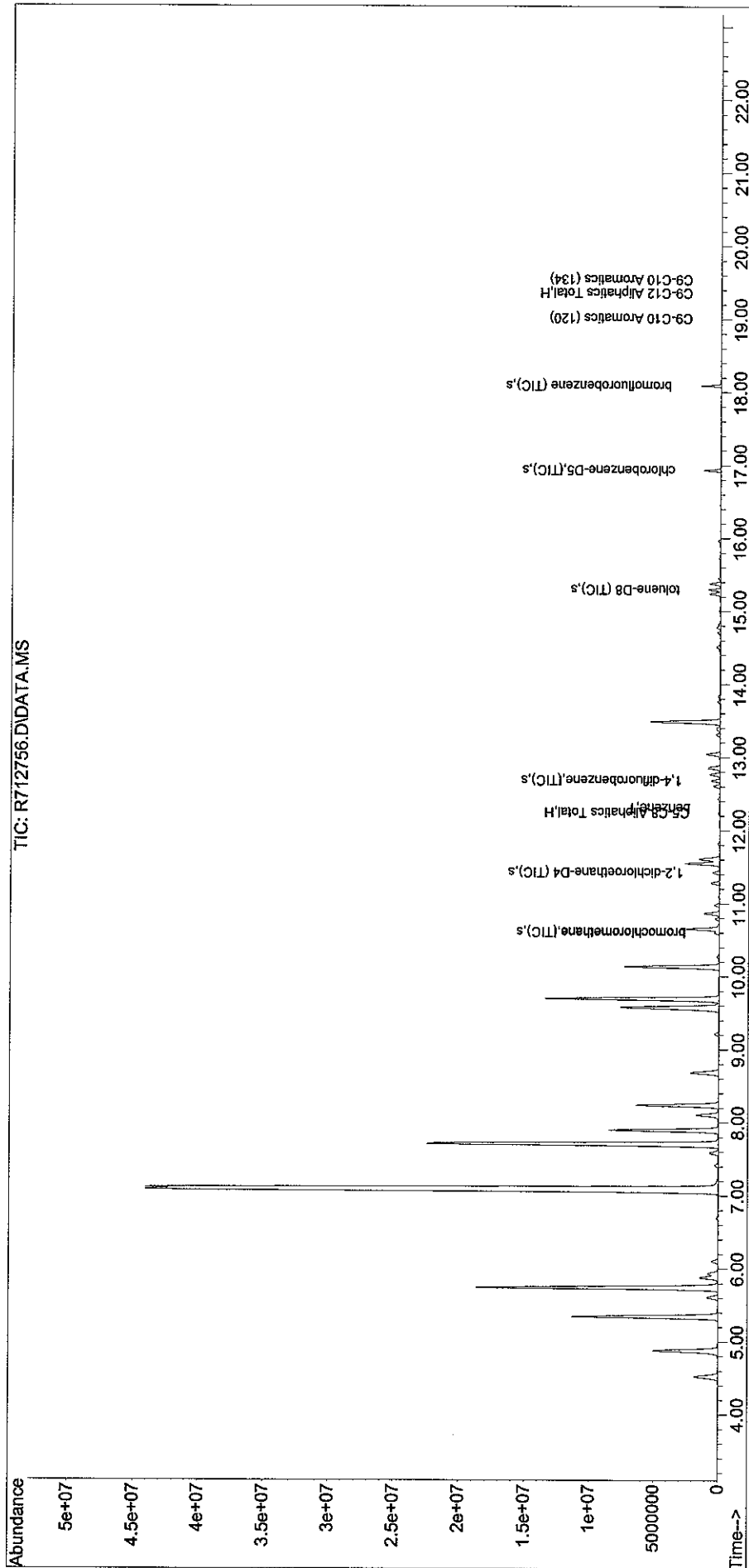
Quant Time: Sep 13 15:28:59 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\100909A\APH100907.M
Quant Title : APH Analysis
QLast Update : Tue Sep 07 16:21:34 2010
Response via : Initial Calibration



Sub List : APH_STD_M - . Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2010\100911A\
Data File : R712756.D
Acq On : 12 Sep 2010 3:50 am
Operator : AIRLAB7:aj
Sample : L1013912-04d,3,0.1166,250
Misc : wg431975
ALS Vial : 16 Sample Multiplier: 1

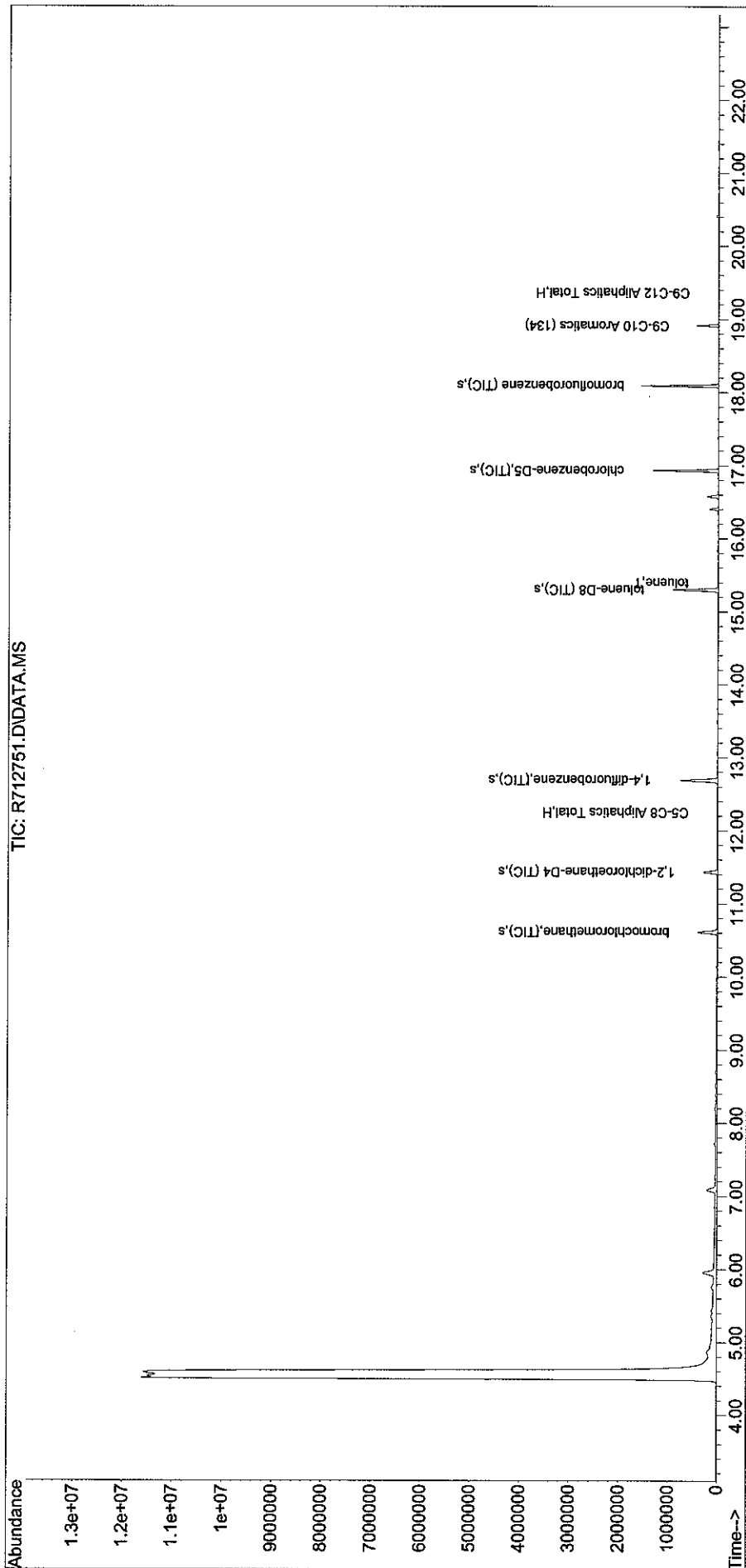
Quant Time: Sep 13 15:29:52 2010
Quant Method : O:\Forensics\Data\Airlab7\2010\100909A\APH100907.M
Quant Title : APH Analysis
QLast Update : Tue Sep 07 16:21:34 2010
Response via : Initial Calibration



Sub List : APH_STD_M - . Report (QT Reviewed)

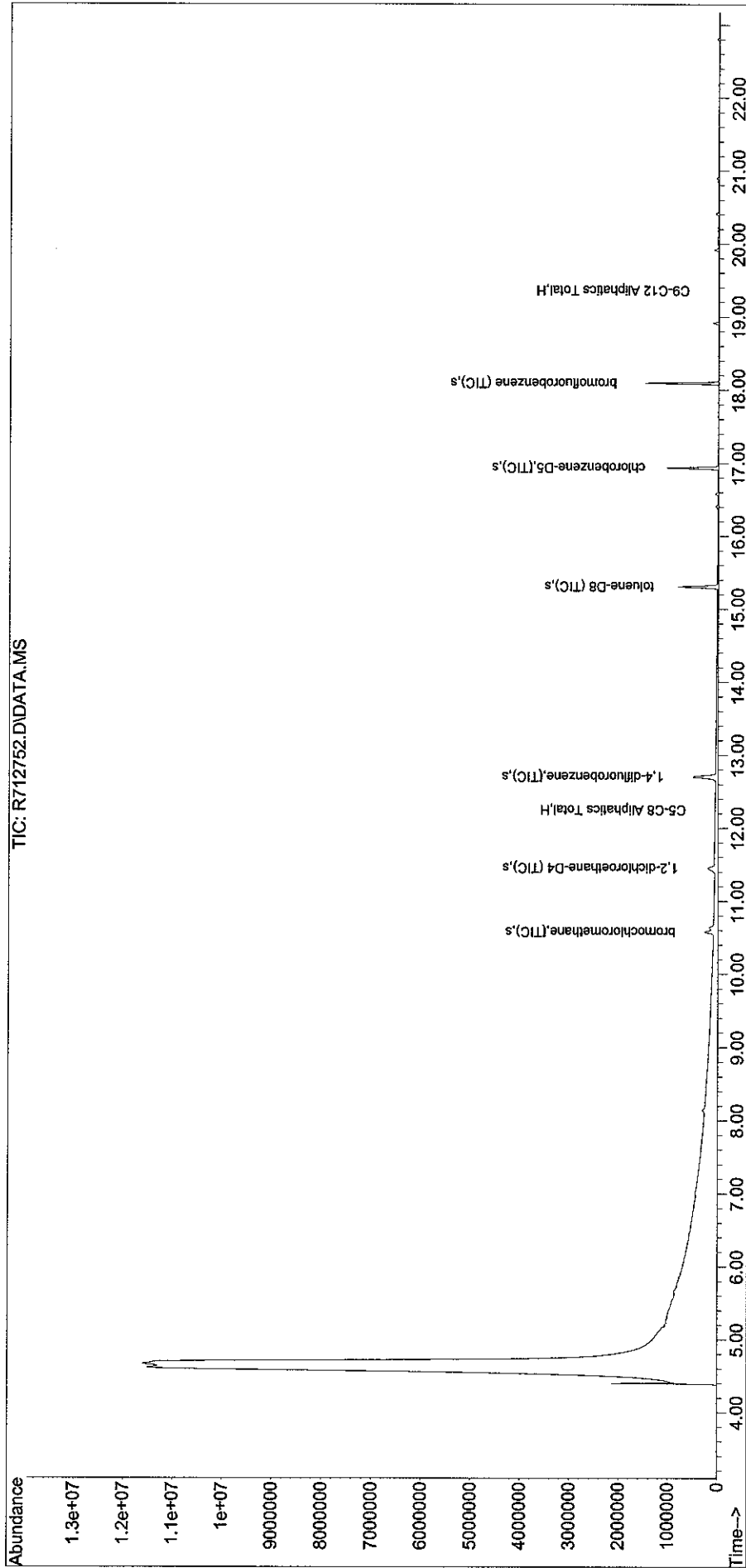
Data Path : O:\Forensics\Data\AirLab7\2010\100911A\
Data File : R712751.D
Acq On : 12 Sep 2010 1:01 am
Operator : AIRLAB7:aj
Sample : 11013912-05,3,250,250
Misc : wg431975
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 13 15:24:04 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\100909A\APH100907.M
Quant Title : APH Analysis
QLast Update : Tue Sep 07 16:21:34 2010
Response via : Initial Calibration



Data Path : O:\Forensics\Data\AirLab7\2010\100911A\
Data File : R712752.D
Acq On : 12 Sep 2010 1:37 am
Operator : AIRLAB7:aj
Sample : I1013912-06,3,250,250
Misc : wg431975
ALS Vial : 12 Sample Multiplier: 1

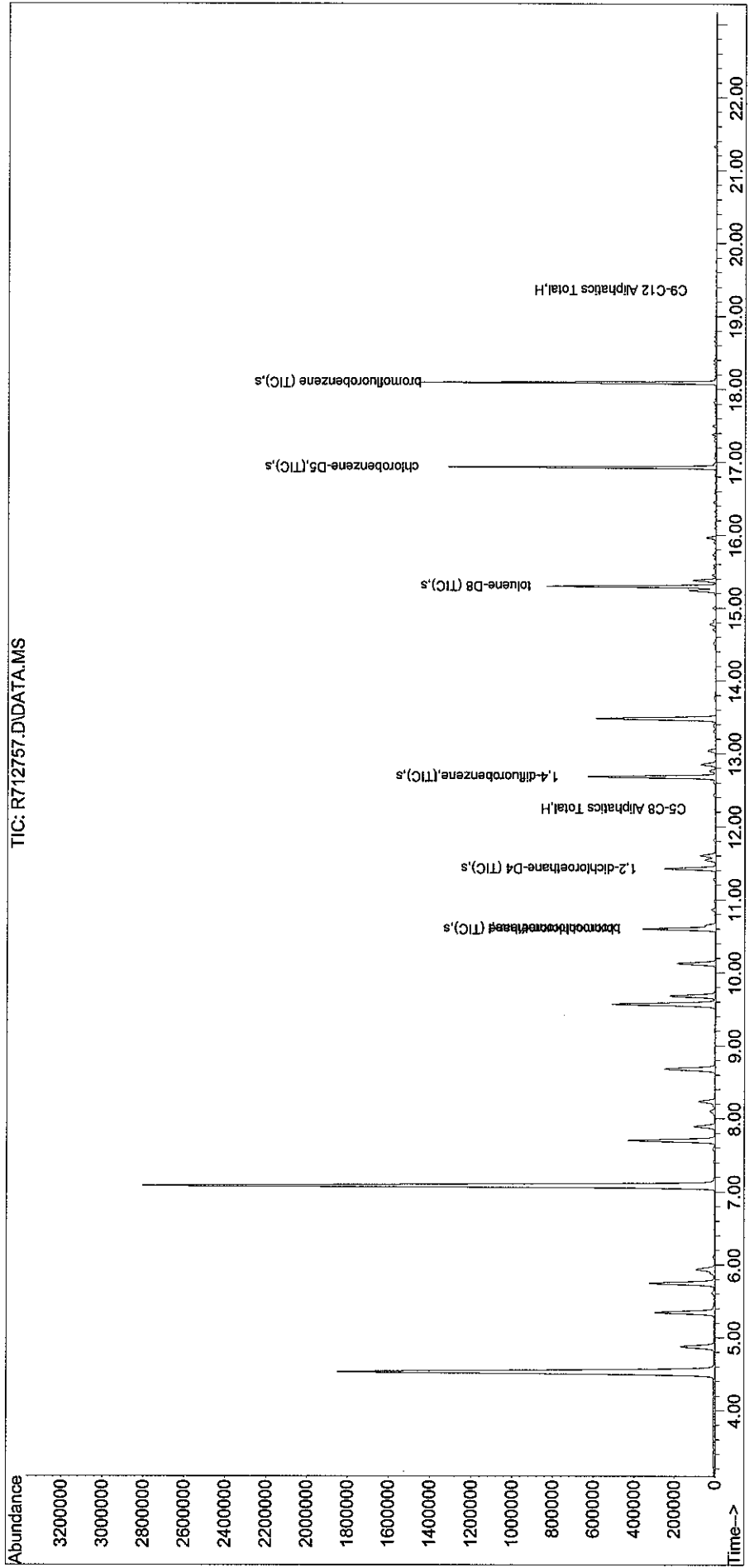
Quant Time: Sep 13 15:25:43 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\100909A\APH100907.M
Quant Title : APH Analysis
QLast Update : Tue Sep 07 16:21:34 2010
Response via : Initial Calibration



Sub List : APH_STD_M - . Report (QT Reviewed)

Data Path : O:\Forensics\Data\AirLab7\2010\100911A\
Data File : R712757.D
Acq On : 12 Sep 2010 4:24 am
Operator : AIRLAB7:aj
Sample : 11013912-07d,3,0.1130,250
Misc : wg431975
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 15:30:44 2010
Quant Method : O:\Forensics\Data\AirLab7\2010\100909A\APH100907.M
Quant Title : APH Analysis
QLast Update : Tue Sep 07 16:21:34 2010
Response via : Initial Calibration





ANALYTICAL REPORT

Lab Number:	L1100113
Client:	Maine DEP-Div. of Technical Services Division of Technical Services 312 Canco Road Portland, ME 04103
ATTN:	Peter Eremita
Phone:	(207) 592-0592
Project Name:	CFI- WASHINGTON AVE.
Project Number:	1047-3
Report Date:	01/19/11

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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: CFI- WASHINGTON AVE.
Project Number: 1047-3

Lab Number: L1100113
Report Date: 01/19/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1100113-01	SG-5	PORTLAND, ME	12/30/10 09:17
L1100113-02	SG-7	PORTLAND, ME	12/30/10 08:52
L1100113-03	SG-12	PORTLAND, ME	12/30/10 09:56
L1100113-04	SG-13	PORTLAND, ME	12/30/10 09:34
L1100113-05	SG-15	PORTLAND, ME	12/30/10 08:37
L1100113-06	CAN 451	PORTLAND, ME	
L1100113-07	CAN 164	PORTLAND, ME	

Project Name: CFI- WASHINGTON AVE.

Lab Number: L1100113

Project Number: 1047-3

Report Date: 01/19/11

MADEP MCP Response Action Analytical Report Certification

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

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	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: CFI- WASHINGTON AVE.
Project Number: 1047-3

Lab Number: L1100113
Report Date: 01/19/11

Case Narrative

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

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

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

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

MCP Related Narratives

Canisters were released from the laboratory on December 15, 2010.

The canister certification data is provided as an addendum.

L1100113-01 The RPD of the pre- and post-flow controller calibration check (58% RPD) was outside acceptable limits (< or = 20% RPD).

L1100113-02 The RPD of the pre- and post-flow controller calibration check (22% RPD) was outside acceptable limits (< or = 20% RPD).

Volatile Organics in Air

L1100113-03 and -04 have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Project Name: CFI- WASHINGTON AVE.
Project Number: 1047-3

Lab Number: L1100113
Report Date: 01/19/11

Case Narrative (continued)

Fixed Gas

L1100113-01 through -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

L1100113-01 through 05 and WG451548-5 Duplicate: 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: 01/19/11

AIR

Project Name: CFI- WASHINGTON AVE.**Lab Number:** L1100113**Project Number:** 1047-3**Report Date:** 01/19/11**SAMPLE RESULTS**

Lab ID: L1100113-01
 Client ID: SG-5
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 01/08/11 18:05
 Analyst: RY

Date Collected: 12/30/10 09:17
 Date Received: 01/05/11
 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	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	1.51	0.200	--	10.2	1.36	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	75		60-140
Bromochloromethane	83		60-140
chlorobenzene-d5	78		60-140



Project Name: CFI- WASHINGTON AVE.**Lab Number:** L1100113**Project Number:** 1047-3**Report Date:** 01/19/11**SAMPLE RESULTS**

Lab ID: L1100113-02
 Client ID: SG-7
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 01/08/11 19:20
 Analyst: RY

Date Collected: 12/30/10 08:52
 Date Received: 01/05/11
 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	ND	0.200	--	ND	1.09	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	79		60-140
Bromochloromethane	78		60-140
chlorobenzene-d5	76		60-140



Project Name: CFI- WASHINGTON AVE.**Lab Number:** L1100113**Project Number:** 1047-3**Report Date:** 01/19/11**SAMPLE RESULTS**

Lab ID: L1100113-03 D
 Client ID: SG-12
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 01/10/11 18:49
 Analyst: BS

Date Collected: 12/30/10 09:56
 Date Received: 01/05/11
 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	0.400	--	ND	1.02	--		2
1,1-Dichloroethene	ND	0.400	--	ND	1.58	--		2
trans-1,2-Dichloroethene	ND	0.400	--	ND	1.58	--		2
1,1-Dichloroethane	ND	0.400	--	ND	1.62	--		2
cis-1,2-Dichloroethene	ND	0.400	--	ND	1.58	--		2
1,2-Dichloroethane	ND	0.400	--	ND	1.62	--		2
1,1,1-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Trichloroethene	ND	0.400	--	ND	2.15	--		2
1,2-Dibromoethane	ND	0.400	--	ND	3.07	--		2
Tetrachloroethene	ND	0.400	--	ND	2.71	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	108		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	111		60-140



Project Name: CFI- WASHINGTON AVE.**Lab Number:** L1100113**Project Number:** 1047-3**Report Date:** 01/19/11**SAMPLE RESULTS**

Lab ID: L1100113-04 D
 Client ID: SG-13
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 01/10/11 19:26
 Analyst: BS

Date Collected: 12/30/10 09:34
 Date Received: 01/05/11
 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	0.400	--	ND	1.02	--		2
1,1-Dichloroethene	ND	0.400	--	ND	1.58	--		2
trans-1,2-Dichloroethene	ND	0.400	--	ND	1.58	--		2
1,1-Dichloroethane	ND	0.400	--	ND	1.62	--		2
cis-1,2-Dichloroethene	ND	0.400	--	ND	1.58	--		2
1,2-Dichloroethane	ND	0.400	--	ND	1.62	--		2
1,1,1-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Trichloroethene	ND	0.400	--	ND	2.15	--		2
1,2-Dibromoethane	ND	0.400	--	ND	3.07	--		2
Tetrachloroethene	ND	0.400	--	ND	2.71	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	101		60-140



Project Name: CFI- WASHINGTON AVE.**Lab Number:** L1100113**Project Number:** 1047-3**Report Date:** 01/19/11**SAMPLE RESULTS**

Lab ID: L1100113-05
 Client ID: SG-15
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 01/08/11 21:14
 Analyst: RY

Date Collected: 12/30/10 08:37
 Date Received: 01/05/11
 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	ND	0.200	--	ND	1.09	--		1
Trichloroethene	0.418	0.200	--	2.24	1.07	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.280	0.200	--	1.90	1.36	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	72		60-140
Bromochloromethane	74		60-140
chlorobenzene-d5	82		60-140



Project Name: CFI- WASHINGTON AVE.

Lab Number: L1100113

Project Number: 1047-3

Report Date: 01/19/11

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/08/11 14:40

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 Batch: WG450777-4								
Propylene	ND	0.500	--	ND	0.860	--		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: CFI- WASHINGTON AVE.

Lab Number: L1100113

Project Number: 1047-3

Report Date: 01/19/11

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/08/11 14:40

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 Batch: WG450777-4								
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: CFI- WASHINGTON AVE.

Lab Number: L1100113

Project Number: 1047-3

Report Date: 01/19/11

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/08/11 14:40

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 Batch: WG450777-4								
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: CFI- WASHINGTON AVE.

Lab Number: L1100113

Project Number: 1047-3

Report Date: 01/19/11

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/10/11 18:13

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: WG451055-4								
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
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
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
2-Butanone	ND	0.200	--	ND	0.589	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Chloroform	ND	0.200	--	ND	0.976	--		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



Project Name: CFI- WASHINGTON AVE.

Lab Number: L1100113

Project Number: 1047-3

Report Date: 01/19/11

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/10/11 18:13

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: WG451055-4								
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
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
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
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



Project Name: CFI- WASHINGTON AVE.

Lab Number: L1100113

Project Number: 1047-3

Report Date: 01/19/11

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/10/11 18:13

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: WG451055-4								
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

Lab Control Sample Analysis

Batch Quality Control

Project Name: CFI- WASHINGTON AVE.

Project Number: 1047-3

Lab Number: L1100113

Report Date: 01/19/11

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 Batch: WG450777-3								
Chlorodifluoromethane	82		-		70-130	-		
Propylene	74		-		70-130	-		
Propane	84		-		70-130	-		
Dichlorodifluoromethane	88		-		70-130	-		
Chloromethane	86		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	89		-		70-130	-		
Methanol	96		-		70-130	-		
Vinyl chloride	87		-		70-130	-		
1,3-Butadiene	85		-		70-130	-		
Butane	80		-		70-130	-		
Bromomethane	83		-		70-130	-		
Chloroethane	87		-		70-130	-		
Ethyl Alcohol	97		-		70-130	-		
Dichlorofluoromethane	79		-		70-130	-		
Vinyl bromide	82		-		70-130	-		
Acrolein	83		-		70-130	-		
Acetone	99		-		70-130	-		
Acetonitrile	90		-		70-130	-		
Trichlorofluoromethane	94		-		70-130	-		
iso-Propyl Alcohol	63	Q	-		70-130	-		
Acrylonitrile	87		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CFI- WASHINGTON AVE.

Project Number: 1047-3

Lab Number: L1100113

Report Date: 01/19/11

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 Batch: WG450777-3								
Pentane	87		-		70-130	-		
Ethyl ether	98		-		70-130	-		
1,1-Dichloroethene	96		-		70-130	-		
tert-Butyl Alcohol	51	Q	-		70-130	-		
Methylene chloride	102		-		70-130	-		
3-Chloropropene	92		-		70-130	-		
Carbon disulfide	79		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	93		-		70-130	-		
trans-1,2-Dichloroethene	94		-		70-130	-		
1,1-Dichloroethane	98		-		70-130	-		
Methyl tert butyl ether	86		-		70-130	-		
Vinyl acetate	119		-		70-130	-		
2-Butanone	88		-		70-130	-		
cis-1,2-Dichloroethene	86		-		70-130	-		
Ethyl Acetate	82		-		70-130	-		
Chloroform	89		-		70-130	-		
Tetrahydrofuran	74		-		70-130	-		
2,2-Dichloropropane	85		-		70-130	-		
1,2-Dichloroethane	88		-		70-130	-		
n-Hexane	90		-		70-130	-		
Isopropyl Ether	88		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CFI- WASHINGTON AVE.

Project Number: 1047-3

Lab Number: L1100113

Report Date: 01/19/11

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 Batch: WG450777-3								
Ethyl-Tert-Butyl-Ether	84		-		70-130	-		
1,1,1-Trichloroethane	100		-		70-130	-		
1,1-Dichloropropene	87		-		70-130	-		
Benzene	88		-		70-130	-		
Carbon tetrachloride	102		-		70-130	-		
Cyclohexane	85		-		70-130	-		
Tertiary-Amyl Methyl Ether	80		-		70-130	-		
Dibromomethane	88		-		70-130	-		
1,2-Dichloropropane	91		-		70-130	-		
Bromodichloromethane	96		-		70-130	-		
1,4-Dioxane	88		-		70-130	-		
Trichloroethene	88		-		70-130	-		
2,2,4-Trimethylpentane	92		-		70-130	-		
Heptane	87		-		70-130	-		
2,4,4-Trimethyl-1-Pentene	80		-		70-130	-		
cis-1,3-Dichloropropene	95		-		70-130	-		
4-Methyl-2-pentanone	97		-		70-130	-		
2,4,4-Trimethyl-2-Pentene	93		-		70-130	-		
trans-1,3-Dichloropropene	84		-		70-130	-		
1,1,2-Trichloroethane	98		-		70-130	-		
Toluene	87		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CFI- WASHINGTON AVE.

Project Number: 1047-3

Lab Number: L1100113

Report Date: 01/19/11

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 Batch: WG450777-3								
1,3-Dichloropropane	85		-		70-130	-		
2-Hexanone	89		-		70-130	-		
Dibromochloromethane	86		-		70-130	-		
1,2-Dibromoethane	86		-		70-130	-		
Butyl Acetate	87		-		70-130	-		
Octane	80		-		70-130	-		
Tetrachloroethene	85		-		70-130	-		
1,1,1,2-Tetrachloroethane	85		-		70-130	-		
Chlorobenzene	84		-		70-130	-		
Ethylbenzene	83		-		70-130	-		
p/m-Xylene	86		-		70-130	-		
Bromoform	86		-		70-130	-		
Styrene	82		-		70-130	-		
1,1,2,2-Tetrachloroethane	87		-		70-130	-		
o-Xylene	94		-		70-130	-		
1,2,3-Trichloropropane	75		-		70-130	-		
Nonane (C9)	88		-		70-130	-		
Isopropylbenzene	84		-		70-130	-		
Bromobenzene	87		-		70-130	-		
o-Chlorotoluene	80		-		70-130	-		
n-Propylbenzene	81		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CFI- WASHINGTON AVE.

Project Number: 1047-3

Lab Number: L1100113

Report Date: 01/19/11

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 Batch: WG450777-3								
p-Chlorotoluene	82		-		70-130	-		
4-Ethyltoluene	80		-		70-130	-		
1,3,5-Trimethylbenzene	85		-		70-130	-		
tert-Butylbenzene	81		-		70-130	-		
1,2,4-Trimethylbenzene	88		-		70-130	-		
Decane (C10)	80		-		70-130	-		
Benzyl chloride	81		-		70-130	-		
1,3-Dichlorobenzene	87		-		70-130	-		
1,4-Dichlorobenzene	85		-		70-130	-		
sec-Butylbenzene	82		-		70-130	-		
p-Isopropyltoluene	76		-		70-130	-		
1,2-Dichlorobenzene	84		-		70-130	-		
n-Butylbenzene	87		-		70-130	-		
1,2-Dibromo-3-chloropropane	89		-		70-130	-		
Undecane	87		-		70-130	-		
Dodecane (C12)	75		-		70-130	-		
1,2,4-Trichlorobenzene	81		-		70-130	-		
Naphthalene	68	Q	-		70-130	-		
1,2,3-Trichlorobenzene	73		-		70-130	-		
Hexachlorobutadiene	102		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CFI- WASHINGTON AVE.

Project Number: 1047-3

Lab Number: L1100113

Report Date: 01/19/11

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: WG451055-3								
Dichlorodifluoromethane	98		-		70-130	-		
Chloromethane	96		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	83		-		70-130	-		
Vinyl chloride	97		-		70-130	-		
1,3-Butadiene	101		-		70-130	-		
Bromomethane	96		-		70-130	-		
Chloroethane	97		-		70-130	-		
Vinyl bromide	100		-		70-130	-		
Acetone	90		-		70-130	-		
Trichlorofluoromethane	102		-		70-130	-		
1,1-Dichloroethene	100		-		70-130	-		
tert-Butyl Alcohol	111		-		70-130	-		
Methylene chloride	90		-		70-130	-		
3-Chloropropene	100		-		70-130	-		
Carbon disulfide	94		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	101		-		70-130	-		
trans-1,2-Dichloroethene	96		-		70-130	-		
1,1-Dichloroethane	96		-		70-130	-		
Methyl tert butyl ether	106		-		70-130	-		
2-Butanone	114		-		70-130	-		
cis-1,2-Dichloroethene	99		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CFI- WASHINGTON AVE.

Project Number: 1047-3

Lab Number: L1100113

Report Date: 01/19/11

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: WG451055-3								
Chloroform	99		-		70-130	-		
1,2-Dichloroethane	108		-		70-130	-		
n-Hexane	86		-		70-130	-		
1,1,1-Trichloroethane	113		-		70-130	-		
Benzene	104		-		70-130	-		
Carbon tetrachloride	112		-		70-130	-		
Cyclohexane	103		-		70-130	-		
1,2-Dichloropropane	95		-		70-130	-		
Bromodichloromethane	98		-		70-130	-		
Trichloroethene	100		-		70-130	-		
2,2,4-Trimethylpentane	98		-		70-130	-		
Heptane	91		-		70-130	-		
cis-1,3-Dichloropropene	104		-		70-130	-		
4-Methyl-2-pentanone	121		-		70-130	-		
trans-1,3-Dichloropropene	90		-		70-130	-		
1,1,2-Trichloroethane	94		-		70-130	-		
Toluene	99		-		70-130	-		
Dibromochloromethane	110		-		70-130	-		
1,2-Dibromoethane	104		-		70-130	-		
Tetrachloroethene	105		-		70-130	-		
Chlorobenzene	101		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CFI- WASHINGTON AVE.

Project Number: 1047-3

Lab Number: L1100113

Report Date: 01/19/11

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: WG451055-3								
Ethylbenzene	102		-		70-130	-		
p/m-Xylene	103		-		70-130	-		
Bromoform	111		-		70-130	-		
Styrene	110		-		70-130	-		
1,1,2,2-Tetrachloroethane	114		-		70-130	-		
o-Xylene	106		-		70-130	-		
o-Chlorotoluene	107		-		70-130	-		
4-Ethyltoluene	116		-		70-130	-		
1,3,5-Trimethylbenzene	120		-		70-130	-		
1,2,4-Trimethylbenzene	132	Q	-		70-130	-		
1,3-Dichlorobenzene	116		-		70-130	-		
1,4-Dichlorobenzene	117		-		70-130	-		
1,2-Dichlorobenzene	121		-		70-130	-		
1,2,4-Trichlorobenzene	135	Q	-		70-130	-		
Hexachlorobutadiene	147	Q	-		70-130	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: CFI- WASHINGTON AVE.

Project Number: 1047-3

Lab Number: L1100113

Report Date: 01/19/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-02,05 QC Batch ID: WG450777-5 QC Sample: L1100113-01 Client ID: SG-5						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	1.51	1.43	ppbV	5		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: CFI- WASHINGTON AVE.

Project Number: 1047-3

Lab Number: L1100113

Report Date: 01/19/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 03-04 QC Batch ID: WG451055-5 QC Sample: L1100384-01 Client ID: DUP Sample					
Dichlorodifluoromethane	0.490	0.470	ppbV	4	25
Chloromethane	ND	ND	ppbV	NC	25
Freon-114	ND	ND	ppbV	NC	25
Vinyl chloride	ND	ND	ppbV	NC	25
1,3-Butadiene	ND	ND	ppbV	NC	25
Bromomethane	ND	ND	ppbV	NC	25
Chloroethane	ND	ND	ppbV	NC	25
Vinyl bromide	ND	ND	ppbV	NC	25
Acetone	2.04	1.85	ppbV	10	25
Trichlorofluoromethane	0.288	0.283	ppbV	2	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
Methylene chloride	ND	ND	ppbV	NC	25
3-Chloropropene	ND	ND	ppbV	NC	25
Carbon disulfide	ND	ND	ppbV	NC	25
Freon-113	ND	ND	ppbV	NC	25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
1,1-Dichloroethane	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
2-Butanone	ND	ND	ppbV	NC	25

Lab Duplicate Analysis

Batch Quality Control

Project Name: CFI- WASHINGTON AVE.

Project Number: 1047-3

Lab Number: L1100113

Report Date: 01/19/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 03-04 QC Batch ID: WG451055-5 QC Sample: L1100384-01 Client ID: DUP Sample					
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
Chloroform	2.13	2.06	ppbV	3	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
n-Hexane	ND	ND	ppbV	NC	25
1,1,1-Trichloroethane	0.299	0.274	ppbV	9	25
Benzene	ND	ND	ppbV	NC	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Cyclohexane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	0.273	0.276	ppbV	1	25
Trichloroethene	3.60	3.46	ppbV	4	25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC	25
Heptane	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	0.269	0.266	ppbV	1	25
Dibromochloromethane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis

Batch Quality Control

Project Name: CFI- WASHINGTON AVE.

Project Number: 1047-3

Lab Number: L1100113

Report Date: 01/19/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 03-04 QC Batch ID: WG451055-5 QC Sample: L1100384-01 Client ID: DUP Sample					
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	0.474	0.457	ppbV	4	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
4-Ethyltoluene	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	0.461	0.463	ppbV	0	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: CFI- WASHINGTON AVE.

Project Number: 1047-3

Lab Number: L1100113

Report Date: 01/19/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 03-04 QC Batch ID: WG451055-5 QC Sample: L1100384-01 Client ID: DUP Sample					

Project Name: CFI- WASHINGTON AVE.**Lab Number:** L1100113**Project Number:** 1047-3**Report Date:** 01/19/11**SAMPLE RESULTS**

Lab ID: L1100113-01 D
Client ID: SG-5
Sample Location: PORTLAND, ME
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 01/14/11 14:33
Analyst: RY

Date Collected: 12/30/10 09:17
Date Received: 01/05/11
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	7.27		%	2.32	--	2.322
Carbon Dioxide	7.89		%	0.232	--	2.322
Methane	ND		%	0.232	--	2.322

Project Name: CFI- WASHINGTON AVE.**Lab Number:** L1100113**Project Number:** 1047-3**Report Date:** 01/19/11**SAMPLE RESULTS**

Lab ID: L1100113-02 D
Client ID: SG-7
Sample Location: PORTLAND, ME
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 01/14/11 15:12
Analyst: RY

Date Collected: 12/30/10 08:52
Date Received: 01/05/11
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	14.8		%	1.94	--	1.942
Carbon Dioxide	2.93		%	0.194	--	1.942
Methane	ND		%	0.194	--	1.942

Project Name: CFI- WASHINGTON AVE.**Lab Number:** L1100113**Project Number:** 1047-3**Report Date:** 01/19/11**SAMPLE RESULTS**

Lab ID: L1100113-03 D
Client ID: SG-12
Sample Location: PORTLAND, ME
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 01/14/11 15:51
Analyst: RY

Date Collected: 12/30/10 09:56
Date Received: 01/05/11
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	8.26		%	2.62	--	2.623
Carbon Dioxide	6.27		%	0.262	--	2.623
Methane	ND		%	0.262	--	2.623

Project Name: CFI- WASHINGTON AVE.**Lab Number:** L1100113**Project Number:** 1047-3**Report Date:** 01/19/11**SAMPLE RESULTS**

Lab ID: L1100113-04 D
Client ID: SG-13
Sample Location: PORTLAND, ME
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 01/14/11 16:30
Analyst: RY

Date Collected: 12/30/10 09:34
Date Received: 01/05/11
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	5.31		%	1.44	--	1.443
Carbon Dioxide	5.74		%	0.144	--	1.443
Methane	ND		%	0.144	--	1.443

Project Name: CFI- WASHINGTON AVE.**Lab Number:** L1100113**Project Number:** 1047-3**Report Date:** 01/19/11**SAMPLE RESULTS**

Lab ID: L1100113-05 D
Client ID: SG-15
Sample Location: PORTLAND, ME
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 01/14/11 17:10
Analyst: RY

Date Collected: 12/30/10 08:37
Date Received: 01/05/11
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	17.1		%	1.77	--	1.772
Carbon Dioxide	1.17		%	0.177	--	1.772
Methane	ND		%	0.177	--	1.772

Project Name: CFI- WASHINGTON AVE.**Lab Number:** L1100113**Project Number:** 1047-3**Report Date:** 01/19/11**Method Blank Analysis
Batch Quality Control**

Analytical Method: 51,3C

Analytical Date: 01/14/11 14:10

Analyst: RY

Parameter	Result	Qualifier	Units	RL	MDL
Fixed Gases by GC - Mansfield Lab for sample(s): 01-05 Batch: WG451547-2					
Oxygen	ND		%	1.00	--
Carbon Dioxide	ND		%	0.100	--
Methane	ND		%	0.100	--

Lab Control Sample Analysis

Batch Quality Control

Project Name: CFI- WASHINGTON AVE.

Project Number: 1047-3

Lab Number: L1100113

Report Date: 01/19/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-05 Batch: WG451547-1								
Oxygen	99		-		80-120	-		
Carbon Dioxide	108		-		80-120	-		
Methane	105		-		80-120	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: CFI- WASHINGTON AVE.

Project Number: 1047-3

Lab Number: L1100113

Report Date: 01/19/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG451547-3 QC Sample: L1100113-01 Client ID: SG-5						
Oxygen	7.27	7.02	%	3		5
Carbon Dioxide	7.89	8.11	%	3		5
Methane	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG451547-4 QC Sample: L1100113-02 Client ID: SG-7						
Oxygen	14.8	14.6	%	1		5
Carbon Dioxide	2.93	2.93	%	0		5
Methane	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG451547-5 QC Sample: L1100113-03 Client ID: SG-12						
Oxygen	8.26	8.27	%	0		5
Carbon Dioxide	6.27	6.27	%	0		5
Methane	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG451547-6 QC Sample: L1100113-04 Client ID: SG-13						
Oxygen	5.31	5.15	%	3		5
Carbon Dioxide	5.74	5.82	%	1		5
Methane	ND	ND	%	NC		5

Lab Duplicate Analysis

Batch Quality Control

Project Name: CFI- WASHINGTON AVE.

Project Number: 1047-3

Lab Number: L1100113

Report Date: 01/19/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG451547-7 QC Sample: L1100113-05 Client ID: SG-15					
Oxygen	17.1	17.1	%	0	5
Carbon Dioxide	1.17	1.17	%	0	5
Methane	ND	ND	%	NC	5

Project Name: CFI- WASHINGTON AVE.**Lab Number:** L1100113**Project Number:** 1047-3**Report Date:** 01/19/11**SAMPLE RESULTS**

Lab ID: L1100113-01 D
 Client ID: SG-5
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 01/14/11 12:32
 Analyst: RY

Date Collected: 12/30/10 09:17
 Date Received: 01/05/11
 Field Prep: Not Specified

Quality Control Information

Sample Type: 200 ml/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	4.6	--	2.3
Methyl tert butyl ether	ND		ug/m3	4.6	--	2.3
Benzene	ND		ug/m3	4.6	--	2.3
Toluene	ND		ug/m3	4.6	--	2.3
C5-C8 Aliphatics, Adjusted	28		ug/m3	28	--	2.3
Ethylbenzene	ND		ug/m3	4.6	--	2.3
p/m-Xylene	ND		ug/m3	9.2	--	2.3
o-Xylene	ND		ug/m3	4.6	--	2.3
Naphthalene	ND		ug/m3	4.6	--	2.3
C9-C12 Aliphatics, Adjusted	ND		ug/m3	32	--	2.3
C9-C10 Aromatics Total	ND		ug/m3	23	--	2.3

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	135		50-200
Bromochloromethane	102		50-200
Chlorobenzene-d5	97		50-200

Project Name: CFI- WASHINGTON AVE.**Lab Number:** L1100113**Project Number:** 1047-3**Report Date:** 01/19/11**SAMPLE RESULTS**

Lab ID: L1100113-02 D
 Client ID: SG-7
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 01/14/11 13:09
 Analyst: RY

Date Collected: 12/30/10 08:52
 Date Received: 01/05/11
 Field Prep: Not Specified

Quality Control Information

Sample Type: 200 ml/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	3.8	--	1.9
Methyl tert butyl ether	ND		ug/m3	3.8	--	1.9
Benzene	ND		ug/m3	3.8	--	1.9
Toluene	ND		ug/m3	3.8	--	1.9
C5-C8 Aliphatics, Adjusted	ND		ug/m3	23	--	1.9
Ethylbenzene	ND		ug/m3	3.8	--	1.9
p/m-Xylene	ND		ug/m3	7.6	--	1.9
o-Xylene	ND		ug/m3	3.8	--	1.9
Naphthalene	ND		ug/m3	3.8	--	1.9
C9-C12 Aliphatics, Adjusted	ND		ug/m3	27	--	1.9
C9-C10 Aromatics Total	ND		ug/m3	19	--	1.9

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	136		50-200
Bromochloromethane	98		50-200
Chlorobenzene-d5	98		50-200

Project Name: CFI- WASHINGTON AVE.

Lab Number: L1100113

Project Number: 1047-3

Report Date: 01/19/11

SAMPLE RESULTS

Lab ID: L1100113-03 D
 Client ID: SG-12
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 01/14/11 13:47
 Analyst: RY

Date Collected: 12/30/10 09:56
 Date Received: 01/05/11
 Field Prep: Not Specified

Quality Control Information

Sample Type: 200 ml/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	5.2	--	2.6
Methyl tert butyl ether	ND		ug/m3	5.2	--	2.6
Benzene	ND		ug/m3	5.2	--	2.6
Toluene	ND		ug/m3	5.2	--	2.6
C5-C8 Aliphatics, Adjusted	110		ug/m3	31	--	2.6
Ethylbenzene	ND		ug/m3	5.2	--	2.6
p/m-Xylene	ND		ug/m3	10	--	2.6
o-Xylene	ND		ug/m3	5.2	--	2.6
Naphthalene	ND		ug/m3	5.2	--	2.6
C9-C12 Aliphatics, Adjusted	44		ug/m3	36	--	2.6
C9-C10 Aromatics Total	ND		ug/m3	26	--	2.6

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	123		50-200
Bromochloromethane	90		50-200
Chlorobenzene-d5	90		50-200

Project Name: CFI- WASHINGTON AVE.**Lab Number:** L1100113**Project Number:** 1047-3**Report Date:** 01/19/11**SAMPLE RESULTS**

Lab ID: L1100113-04 D
 Client ID: SG-13
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 01/14/11 14:25
 Analyst: RY

Date Collected: 12/30/10 09:34
 Date Received: 01/05/11
 Field Prep: Not Specified

Quality Control Information

Sample Type: 200 ml/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	2.8	--	1.4
Methyl tert butyl ether	ND		ug/m3	2.8	--	1.4
Benzene	ND		ug/m3	2.8	--	1.4
Toluene	26		ug/m3	2.8	--	1.4
C5-C8 Aliphatics, Adjusted	70		ug/m3	17	--	1.4
Ethylbenzene	10		ug/m3	2.8	--	1.4
p/m-Xylene	46		ug/m3	5.6	--	1.4
o-Xylene	23		ug/m3	2.8	--	1.4
Naphthalene	ND		ug/m3	2.8	--	1.4
C9-C12 Aliphatics, Adjusted	28		ug/m3	20	--	1.4
C9-C10 Aromatics Total	210		ug/m3	14	--	1.4

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	127		50-200
Bromochloromethane	97		50-200
Chlorobenzene-d5	93		50-200

Project Name: CFI- WASHINGTON AVE.**Lab Number:** L1100113**Project Number:** 1047-3**Report Date:** 01/19/11**SAMPLE RESULTS**

Lab ID: L1100113-05 D
 Client ID: SG-15
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 01/14/11 15:40
 Analyst: RY

Date Collected: 12/30/10 08:37
 Date Received: 01/05/11
 Field Prep: Not Specified

Quality Control Information

Sample Type: 200 ml/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	3.6	--	1.8
Methyl tert butyl ether	ND		ug/m3	3.6	--	1.8
Benzene	6.3		ug/m3	3.6	--	1.8
Toluene	58		ug/m3	3.6	--	1.8
C5-C8 Aliphatics, Adjusted	110		ug/m3	22	--	1.8
Ethylbenzene	ND		ug/m3	3.6	--	1.8
p/m-Xylene	ND		ug/m3	7.2	--	1.8
o-Xylene	ND		ug/m3	3.6	--	1.8
Naphthalene	ND		ug/m3	3.6	--	1.8
C9-C12 Aliphatics, Adjusted	52		ug/m3	25	--	1.8
C9-C10 Aromatics Total	ND		ug/m3	18	--	1.8

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	124		50-200
Bromochloromethane	94		50-200
Chlorobenzene-d5	96		50-200

Project Name: CFI- WASHINGTON AVE.

Lab Number: L1100113

Project Number: 1047-3

Report Date: 01/19/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 96,APH

Analytical Date: 01/14/11 10:28

Analyst: RY

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbons in Air - Mansfield Lab for sample(s): 01-05 Batch: WG451548-4					
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: CFI- WASHINGTON AVE.

Project Number: 1047-3

Lab Number: L1100113

Report Date: 01/19/11

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01-05 Batch: WG451548-3								
1,3-Butadiene	89		-		70-130	-		
Methyl tert butyl ether	109		-		70-130	-		
Benzene	111		-		70-130	-		
Toluene	125		-		70-130	-		
C5-C8 Aliphatics, Adjusted	112		-		70-130	-		
Ethylbenzene	120		-		70-130	-		
p/m-Xylene	121		-		70-130	-		
o-Xylene	123		-		70-130	-		
Naphthalene	126		-		50-150	-		
C9-C12 Aliphatics, Adjusted	122		-		70-130	-		
C9-C10 Aromatics Total	116		-		70-130	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: CFI- WASHINGTON AVE.

Project Number: 1047-3

Lab Number: L1100113

Report Date: 01/19/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG451548-5 QC Sample: L1100113-04 Client ID: SG-13						
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	26	26	ug/m3	0		30
C5-C8 Aliphatics, Adjusted	70	74	ug/m3	6		30
Ethylbenzene	10	10	ug/m3	0		30
p/m-Xylene	46	46	ug/m3	0		30
o-Xylene	23	23	ug/m3	0		30
Naphthalene	ND	ND	ug/m3	NC		30
C9-C12 Aliphatics, Adjusted	28	32	ug/m3	13		30
C9-C10 Aromatics Total	210	210	ug/m3	0		30

Project Name: CFI- WASHINGTON AVE.

Serial_No:01191116:23

Lab Number: L1100113

Project Number: 1047-3

Report Date: 01/19/11

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
L1100113-01	SG-5	0423	#16 AMB		-	-	200	110	58
L1100113-01	SG-5	529	2.7L Can	L1019883	-29.2	-3.1	-	-	-
L1100113-02	SG-7	0308	#90 SV		-	-	200	250	22
L1100113-02	SG-7	177	2.7L Can	L1019883	-29.3	-2.6	-	-	-
L1100113-03	SG-12	0332	#90 SV		-	-	200	200	0
L1100113-03	SG-12	509	2.7L Can	L1019983	-29.3	-3.3	-	-	-
L1100113-04	SG-13	0367	#90 SV		-	-	200	212	6
L1100113-04	SG-13	473	2.7L Can	L1019883	-29.3	-2.9	-	-	-
L1100113-05	SG-15	0223	#90 SV		-	-	200	197	2
L1100113-05	SG-15	366	2.7L Can	L1019883	-28.0	-0.7	-	-	-



Air Volatiles Can Certification

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1019883**Project Number:** CANISTER QC BAT**Report Date:** 01/19/11**Air Canister Certification Results**

Lab ID: L1019883-01
 Client ID: CAN 393 SHELF 3
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 12/15/10 18:16
 Analyst: BS

Date Collected: 12/13/10 00:00
 Date Received: 12/13/10
 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:** L1019883**Project Number:** CANISTER QC BAT**Report Date:** 01/19/11**Air Canister Certification Results**

Lab ID: L1019883-01

Date Collected: 12/13/10 00:00

Client ID: CAN 393 SHELF 3

Date Received: 12/13/10

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:** L1019883**Project Number:** CANISTER QC BAT**Report Date:** 01/19/11**Air Canister Certification Results**

Lab ID: L1019883-01

Date Collected: 12/13/10 00:00

Client ID: CAN 393 SHELF 3

Date Received: 12/13/10

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:** L1019883**Project Number:** CANISTER QC BAT**Report Date:** 01/19/11**Air Canister Certification Results**

Lab ID: L1019883-01

Date Collected: 12/13/10 00:00

Client ID: CAN 393 SHELF 3

Date Received: 12/13/10

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:** L1019883**Project Number:** CANISTER QC BAT**Report Date:** 01/19/11**Air Canister Certification Results**

Lab ID: L1019883-01

Date Collected: 12/13/10 00:00

Client ID: CAN 393 SHELF 3

Date Received: 12/13/10

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	85		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	101		60-140



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1019983**Project Number:** CANISTER QC BAT**Report Date:** 01/19/11**Air Canister Certification Results**

Lab ID: L1019983-01
 Client ID: CAN 263 SHELF 2
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 12/16/10 15:10
 Analyst: RY

Date Collected: 12/14/10 00:00
 Date Received: 12/14/10
 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:** L1019983**Project Number:** CANISTER QC BAT**Report Date:** 01/19/11**Air Canister Certification Results**

Lab ID: L1019983-01

Date Collected: 12/14/10 00:00

Client ID: CAN 263 SHELF 2

Date Received: 12/14/10

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:** L1019983**Project Number:** CANISTER QC BAT**Report Date:** 01/19/11**Air Canister Certification Results**

Lab ID: L1019983-01

Date Collected: 12/14/10 00:00

Client ID: CAN 263 SHELF 2

Date Received: 12/14/10

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:** L1019983**Project Number:** CANISTER QC BAT**Report Date:** 01/19/11**Air Canister Certification Results**

Lab ID: L1019983-01

Date Collected: 12/14/10 00:00

Client ID: CAN 263 SHELF 2

Date Received: 12/14/10

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:** L1019983**Project Number:** CANISTER QC BAT**Report Date:** 01/19/11**Air Canister Certification Results**

Lab ID: L1019983-01

Date Collected: 12/14/10 00:00

Client ID: CAN 263 SHELF 2

Date Received: 12/14/10

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	107		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	92		60-140



AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1019883**Project Number:** CANISTER QC BAT**Report Date:** 01/19/11**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1019883-01
Client ID: CAN 393 SHELF 3
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 12/16/10 14:34
Analyst: RY

Date Collected: 12/13/10 00:00
Date Received: 12/13/10
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:** L1019983**Project Number:** CANISTER QC BAT**Report Date:** 01/19/11**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1019983-01
Client ID: CAN 263 SHELF 2
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 12/16/10 15:10
Analyst: RY

Date Collected: 12/14/10 00:00
Date Received: 12/14/10
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: CFI- WASHINGTON AVE.**Lab Number:** L1100113**Project Number:** 1047-3**Report Date:** 01/19/11**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal**Cooler**

N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1100113-01A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1100113-02A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1100113-03A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1100113-04A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1100113-05A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1100113-06A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	CLEAN-FEE()
L1100113-07A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name: CFI- WASHINGTON AVE.
Project Number: 1047-3

Lab Number: L1100113
Report Date: 01/19/11

GLOSSARY

Acronyms

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

Terms

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- 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: CFI- WASHINGTON AVE.
Project Number: 1047-3

Lab Number: L1100113
Report Date: 01/19/11

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: CFI- WASHINGTON AVE.
Project Number: 1047-3

Lab Number: L1100113
Report Date: 01/19/11

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.



CHAIN OF CUSTODY

AIR ANALYSIS

PAGE 1 OF 1

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

Client Information

Client: **MEDEL Pete Eremita**
Address: **312 Lance Rd Portland, ME**
Phone: **207-822-6306**
Fax: **Pete M. Eremita @ Mine.Gov**
Email:

Project Information

Project Name: **CFI Washington Ave**
Project Location: **Portland, ME**
Project #: **1047-3**
Project Manager: **Eremita/Rescott**
ALPHA Quote #:
Turn-Around Time

These samples have been previously analyzed by Alpha

Date Due: Time:

Other Project Specific Requirements/Comments: **See Attached**

Date Rec'd in Lab:

Report Information - Data Deliverables

FAX
 RADEX
Criteria Checker:
Other Formats:
 EMAIL (standard pdf report)
 Additional Deliverables:
Report to: **Dana, M. McKenzie @ Mine.Gov**
Client:

ALPHA Job #: **L1100113**

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program Criteria

ANALYSIS

TO-14A by TO-15
TO-15 (+ 9 Chl600 & EDB)
TO-15 SIM
APH
FIXED GASES O₂, CO₂, CH₄
TO-13A
TO-4 / TO-10

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	Vacuum						
L1100113-1	SG-5	12-30-10	963	917	-28	SV	SB	27L	329	0438	X
2	SG-7		845	852	-28	SV	SB	27L	177	308	X
3	SG-12		945	956	-28	SV	SB	27L	509	332	X
4	SG-13		925	934	-28	SV	SB	27L	473	367	X
5	SG-15		826	837	-28	SV	SB	27L	360	223	X

*SAMPLE MATRIX CODES

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

Container Type

Relinquished By:

Received By:

Date/Time:

[Signature]
11/3/11 0900
E08X

[Signature]
11/5/11 1015

11/5/11 1015

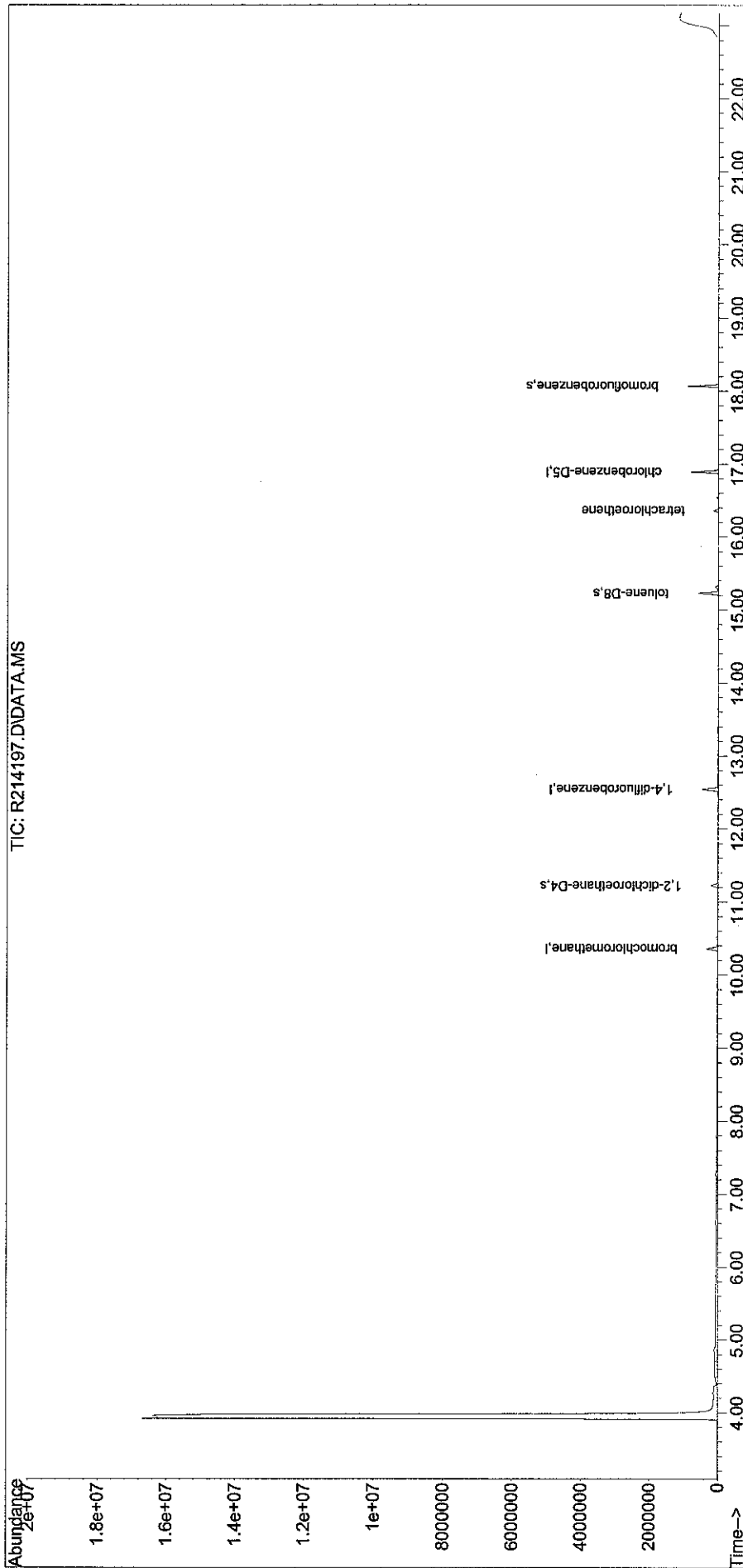
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

TO-15

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

Data Path : O:\Forensics\Data\AIR2\2011\110108t\
Data File : R214197.D
Acq On : 8 Jan 2011 6:05 pm
Operator : AIRPIANO2:BS
Sample : L1100113-01,3,250,250
Misc : WG450777,ICAL5425
ALS Vial : 8 Sample Multiplier: 1

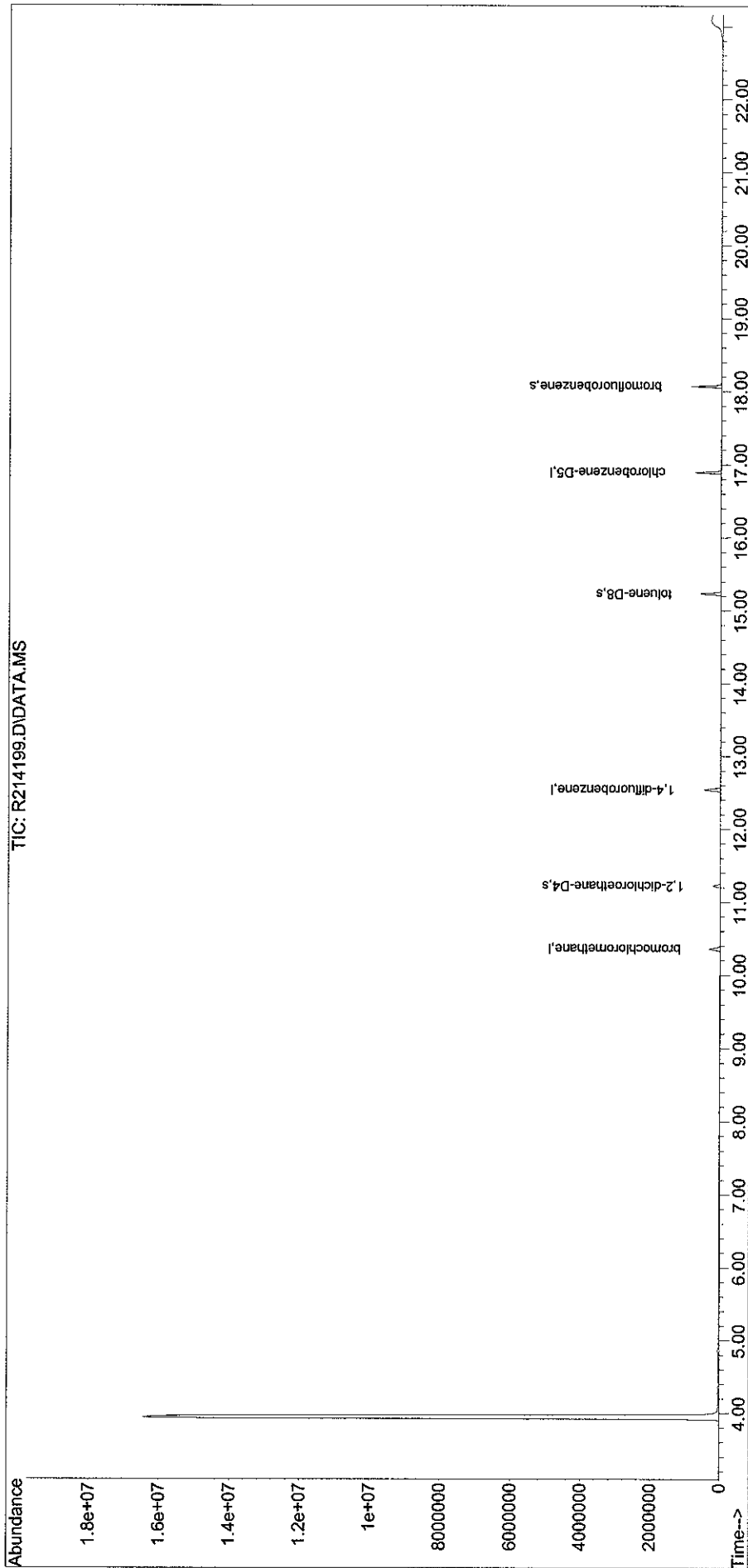
Quant Time: Jan 09 01:54:02 2011
Quant Method : O:\Forensics\Data\AIR2\2011\110108t\TALL101018.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Oct 19 12:41:21 2010
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\AIR2\2011\110108t\
Data File : R214199.D
Acq On : 8 Jan 2011 7:20 pm
Operator : AIRPIANO2:BS
Sample : L1100113-02,3,250,250
Misc : WG450777,ICAL5425
ALS Vial : 9 Sample Multiplier: 1

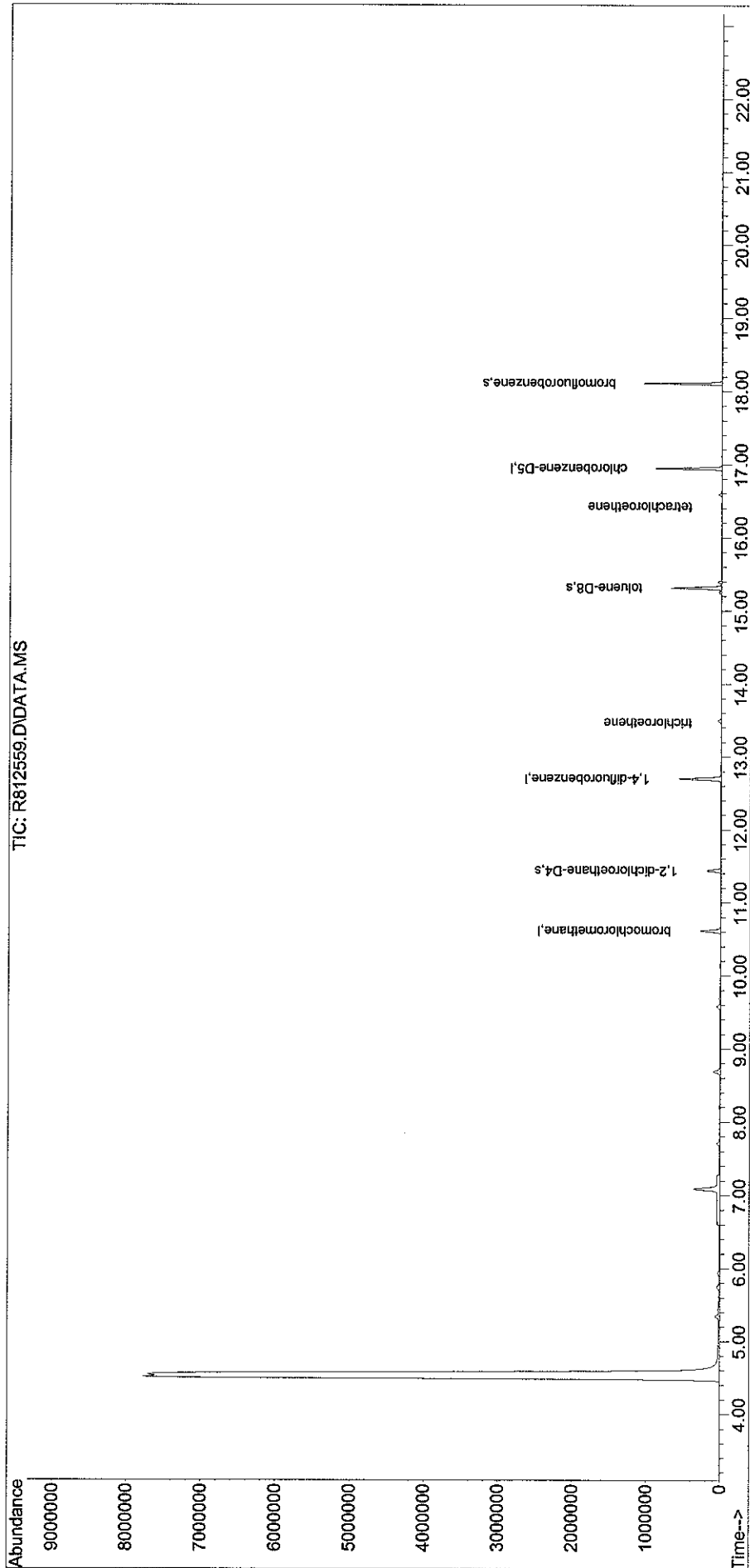
Quant Time: Jan 09 01:54:44 2011
Quant Method : O:\Forensics\Data\AIR2\2011\110108t\TALL101018.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Oct 19 12:41:21 2010
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\AirLab8\2011\110110T\
Data File : R812559.D
Acq On : 10 Jan 2011 6:49 pm
Operator : AIRLAB8:BS
Sample : L1100113-03D,3,125,250
Misc : WG451055,ICAL5567
ALS Vial : 5 Sample Multiplier: 1

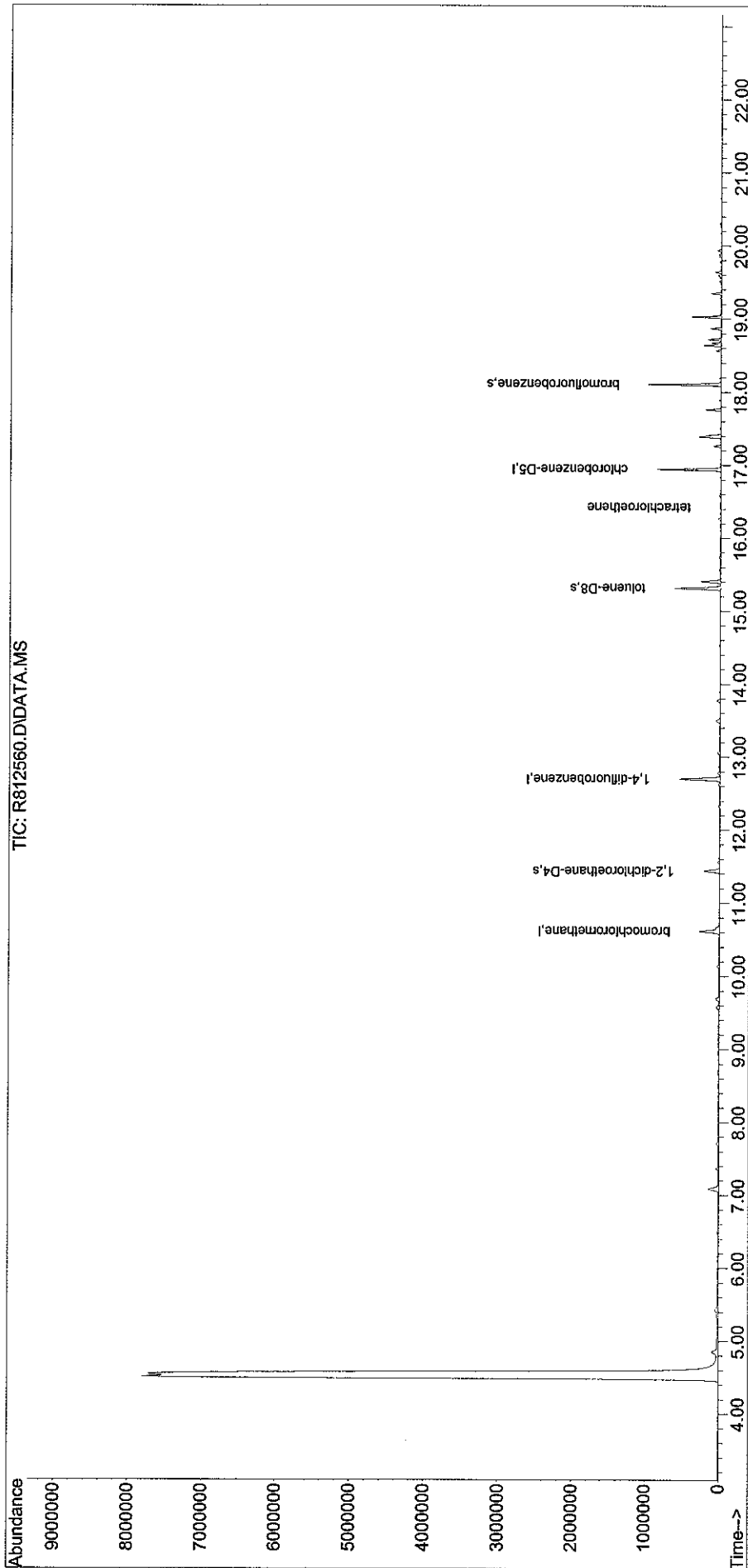
Quant Time: Jan 11 11:15:07 2011
Quant Method : O:\Forensics\Data\AirLab8\2011\110110T\TALL101230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jan 05 11:31:55 2011
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\AirLab8\2011\110110T\
Data File : R812560.D
Acq On : 10 Jan 2011 7:26 pm
Operator : AIRLAB8:BS
Sample : L1100113-04D,3,125,250
Misc : WG451055,ICAL5567
ALS Vial : 6 Sample Multiplier: 1

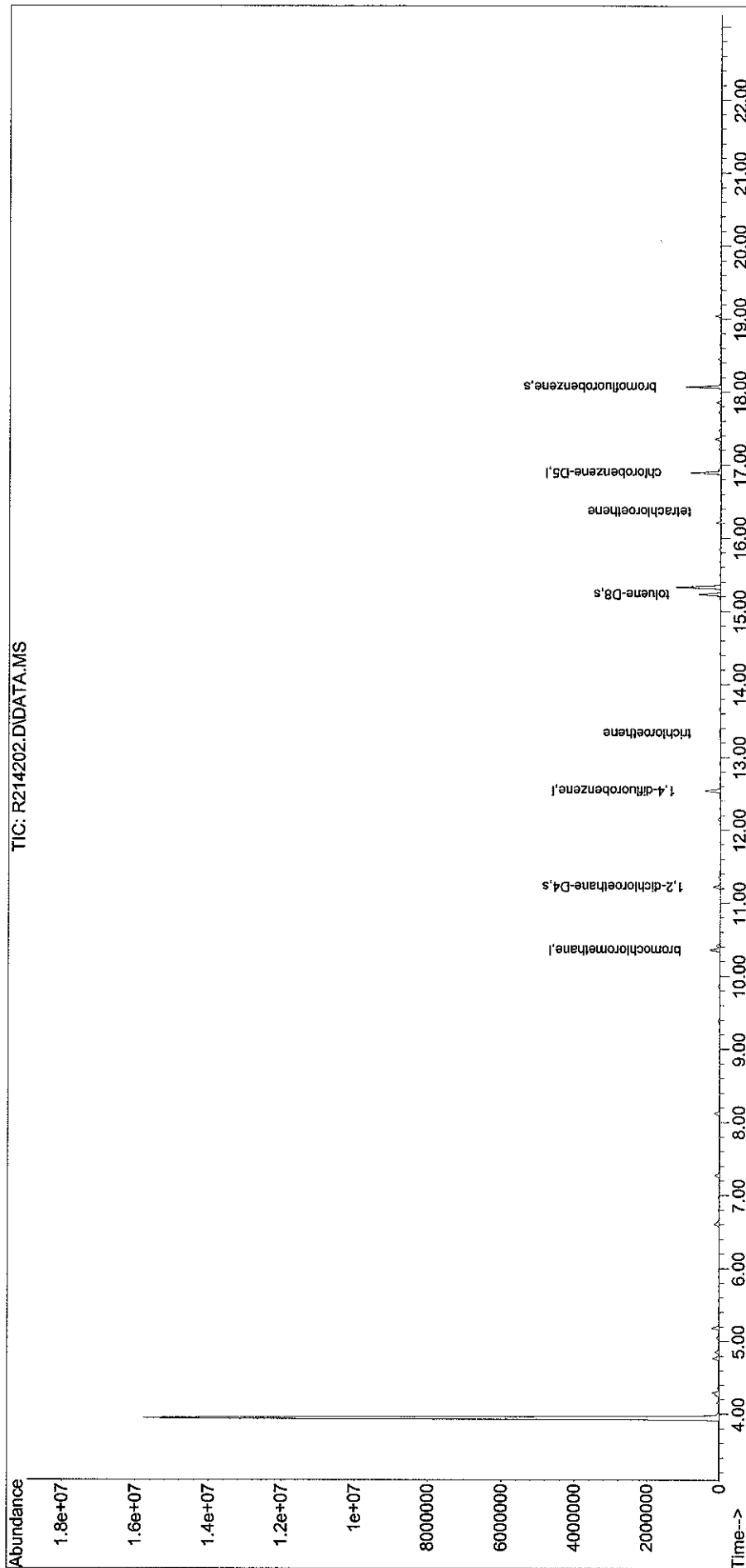
Quant Time: Jan 11 11:15:19 2011
Quant Method : O:\Forensics\Data\AirLab8\2011\110110T\TALL101230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jan 05 11:31:55 2011
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\AIR2\2011\110108t\
Data File : R214202.D
Acq On : 8 Jan 2011 9:14 pm
Operator : AIRPIANO2:BS
Sample : L1100113-05,3,250,250
Misc : WG450777,ICAL5425
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 09 01:55:45 2011
Quant Method : O:\Forensics\Data\AIR2\2011\110108t\TALL101018.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Oct 19 12:41:21 2010
Response via : Initial Calibration



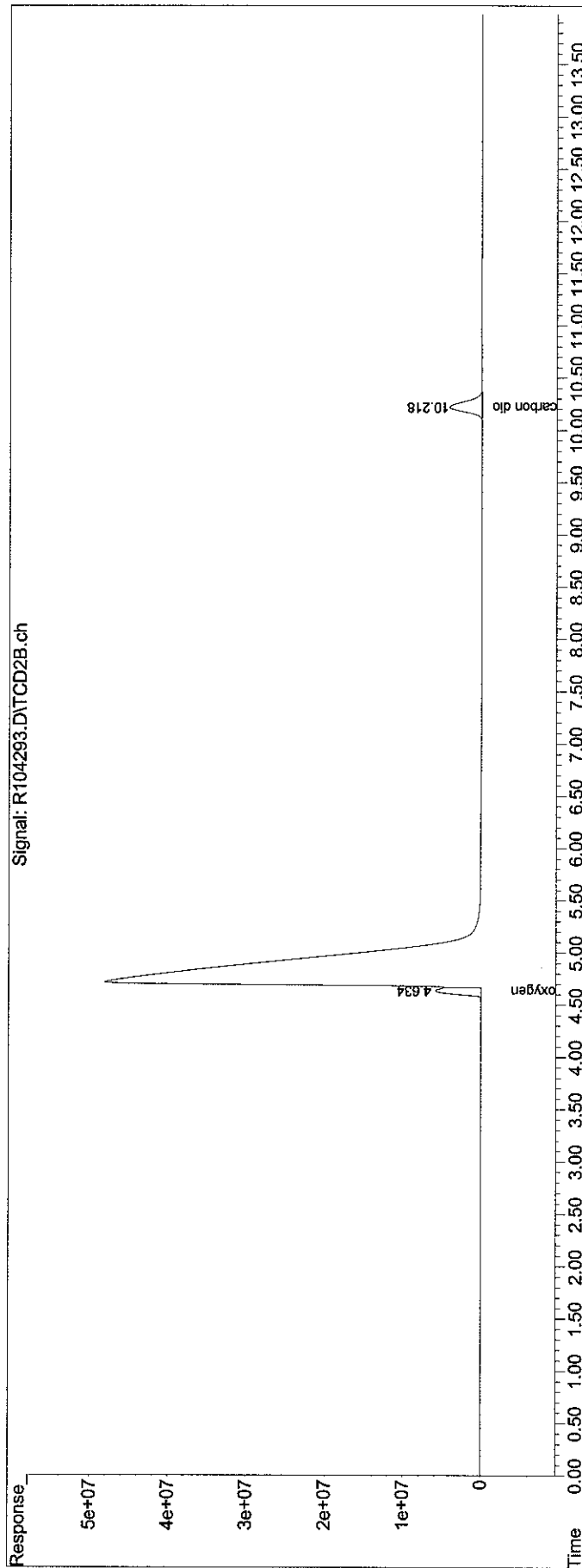
Fixed Gases

Sub List : CO2,O2,CH4 - .report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\110114fg\
Data File : R104293.D
Signal(s) : TCD2B.ch
Acq On : 14 Jan 2011 2:33 pm
Operator : airlab10:RY
Sample : 11100113-01d,4,0.4307,1
Misc : WG451547,ICAL5222
ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 16:00:11 2011
Quant Method : O:\Forensics\Data\airlab10\110114fg\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 :

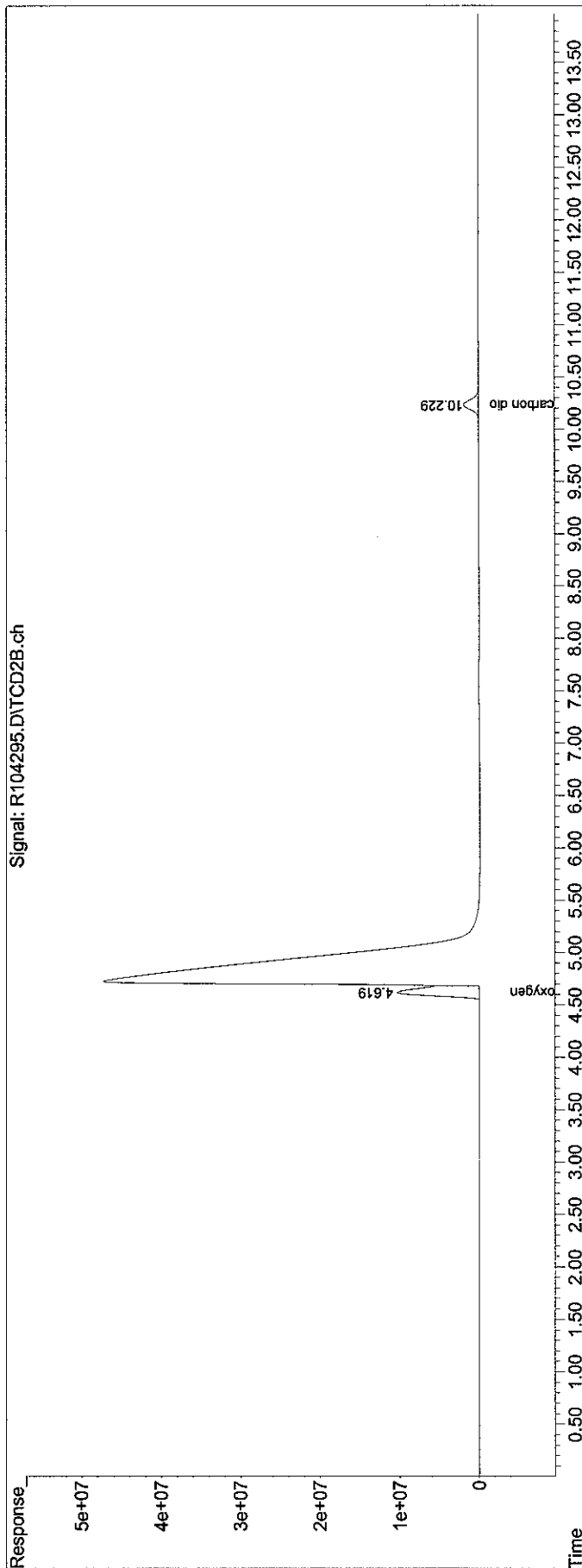


Sub List : CO2,O2,CH4 - .report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\110114fg\
Data File : R104295.D
Signal(s) : TCD2B.ch
Acq On : 14 Jan 2011 3:12 pm
Operator : airlab10:RY
Sample : 11100113-02d,4,0.5149,1
Misc : WG451547,ICAL5222
ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 16:01:36 2011
Quant Method : O:\Forensics\Data\airlab10\110114fg\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 :

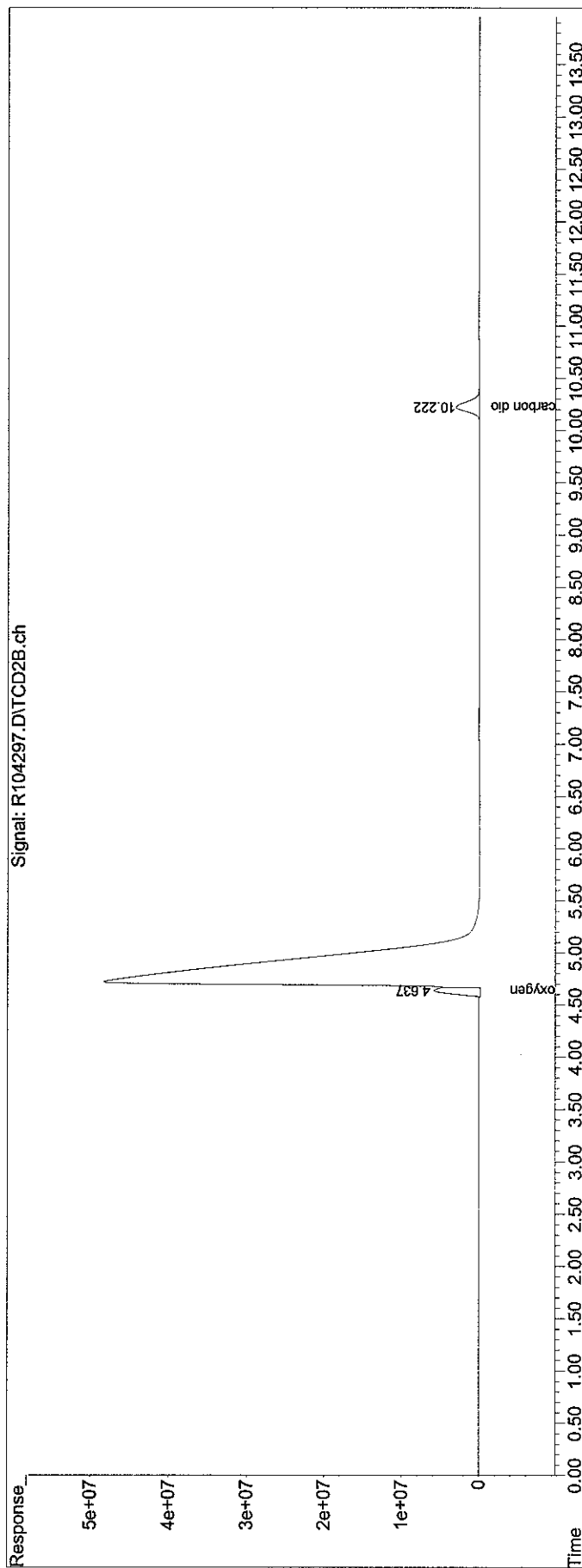


Sub List : CO2,O2,CH4 - .report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\110114fg\
 Data File : R104297.D
 Signal(s) : TCD2B.ch
 Acq On : 14 Jan 2011 3:51 pm
 Operator : airlab10:RY
 Sample : 11100113-03d,4,0.3812,1
 Misc : WG451547,ICAL5222
 ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 16:47:24 2011
 Quant Method : O:\Forensics\Data\airlab10\110114fg\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 :

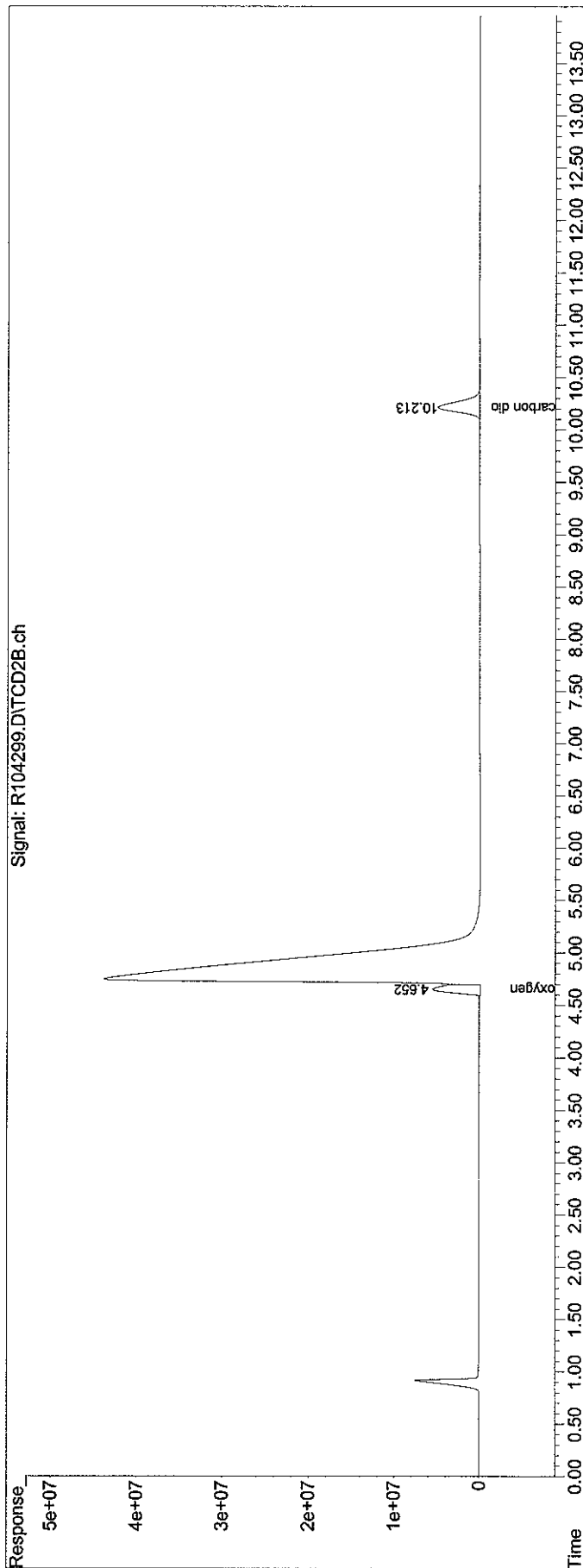


Sub List : CO2,O2,CH4 - .report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\110114fg\
Data File : R104299.D
Signal(s) : TCD2B.ch
Acq On : 14 Jan 2011 4:30 pm
Operator : airlab10:RY
Sample : 11100113-04d,4,0.6931,1
Misc : WG451547,ICAL5222
ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 16:48:59 2011
Quant Method : O:\Forensics\Data\airlab10\110114fg\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 :

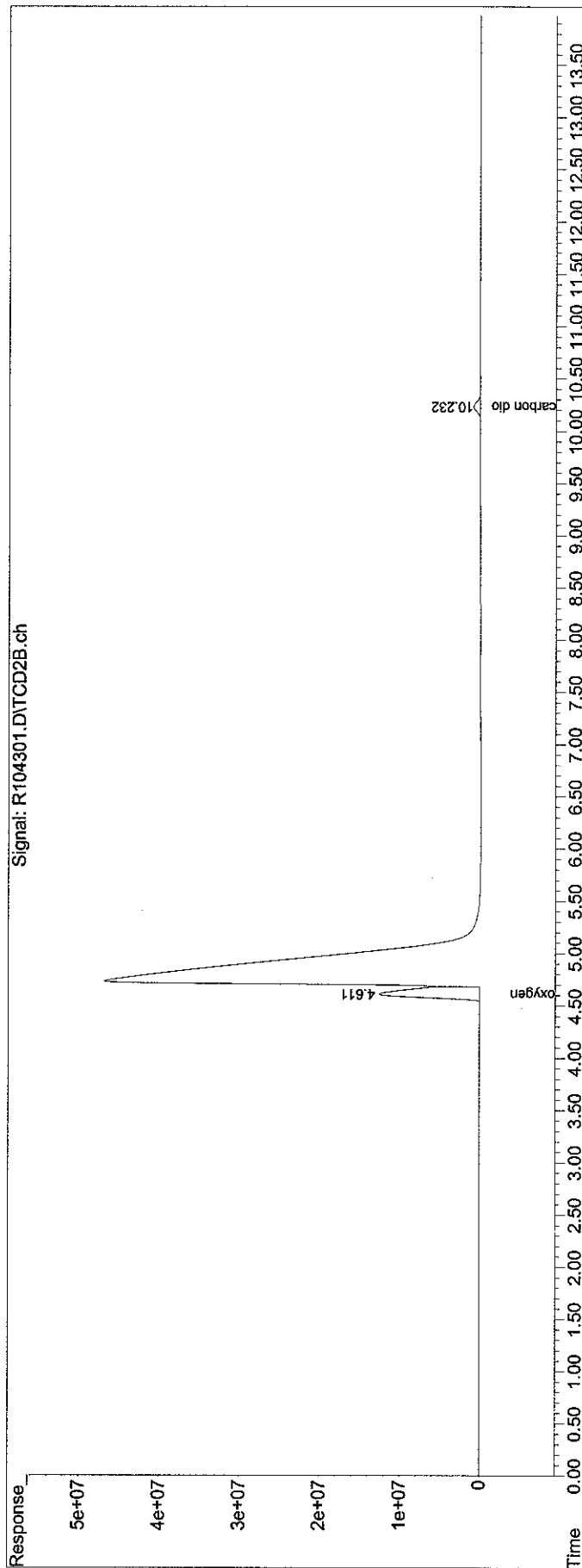


Sub List : CO2,O2,CH4 - .report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\110114fg\
Data File : R104301.D
Signal(s) : TCD2B.ch
Acq On : 14 Jan 2011 5:10 pm
Operator : airlab10:RY
Sample : 11100113-05d,4,0.5644,1
Misc : WG451547,ICAL5222
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 17:32:23 2011
Quant Method : O:\Forensics\Data\airlab10\110114fg\FG100730.M
Quant Title : Fixed Gas Analysis via Method 3C
QLast Update : Sat Oct 30 10:36:20 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

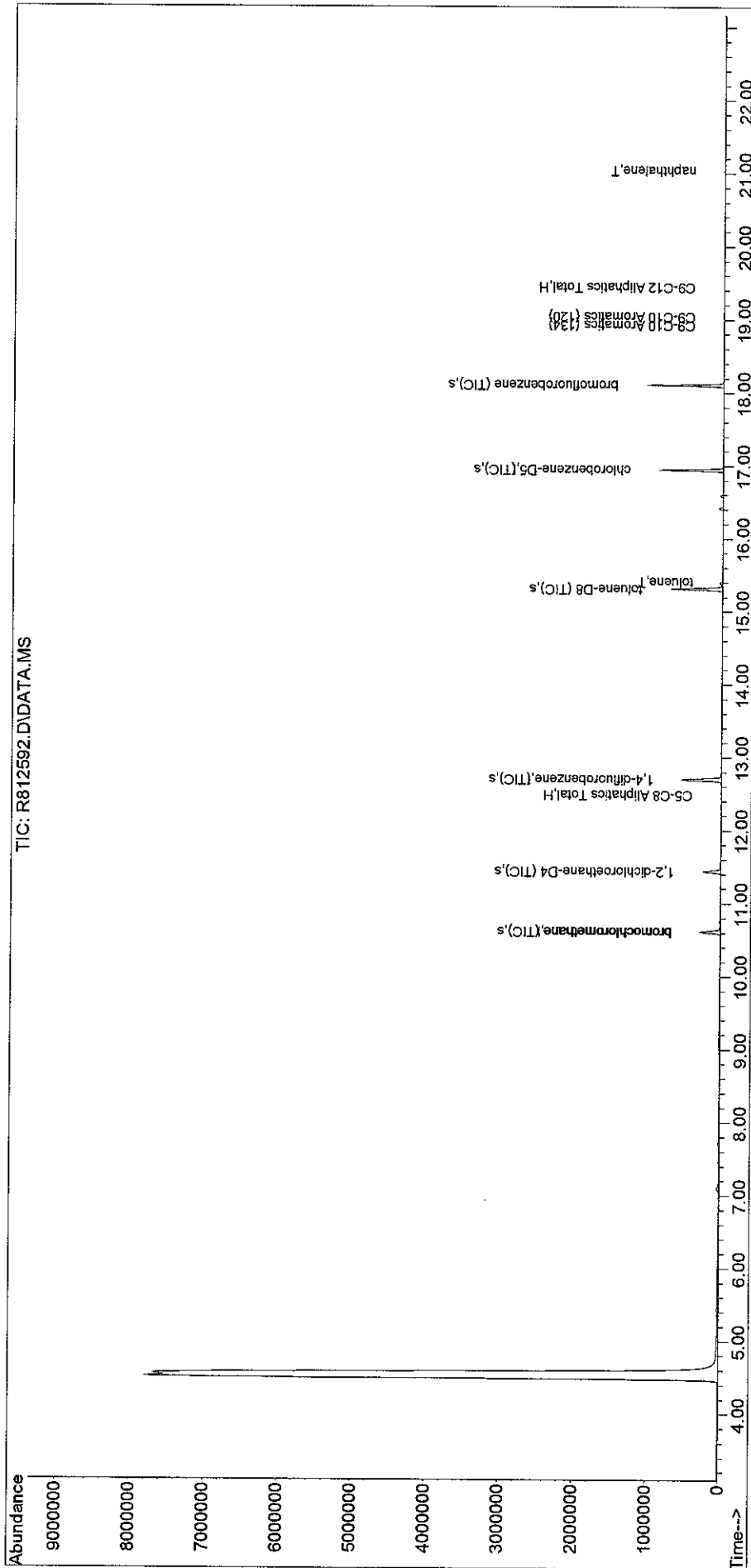


APH

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

Data Path : O:\Forensics\Data\AirLab8\2011\110113A\
Data File : R812592.D
Acq On : 14 Jan 2011 12:32 pm
Operator : AIRLAB:ry
Sample : 11100113-01D,3,107.6733,250
Misc : wg451548,ical5589
ALS Vial : 6 Sample Multiplier: 1

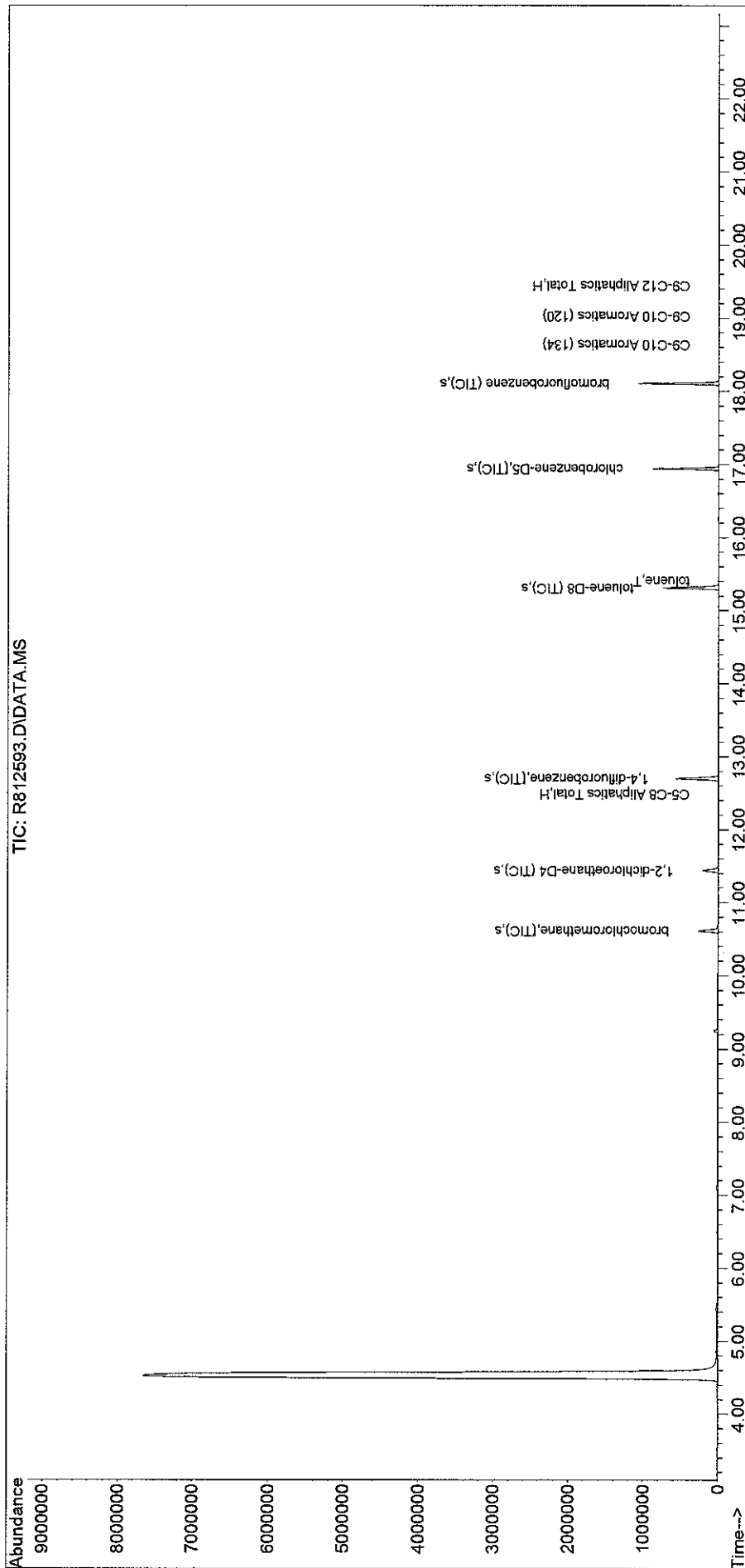
Quant Time: Jan 14 14:06:16 2011
Quant Method : O:\Forensics\Data\AirLab8\2011\110113A\APH110113.M
Quant Title : APH Analysis
QLast Update : Thu Jan 13 16:27:41 2011
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\AirLab8\2011\110113A\
Data File : R812593.D
Acq On : 14 Jan 2011 1:09 pm
Operator : AIRLAB:ry
Sample : 11100113-02D,3,128.7129,250
Misc : wg451548,ical5589
ALS Vial : 7 Sample Multiplier: 1

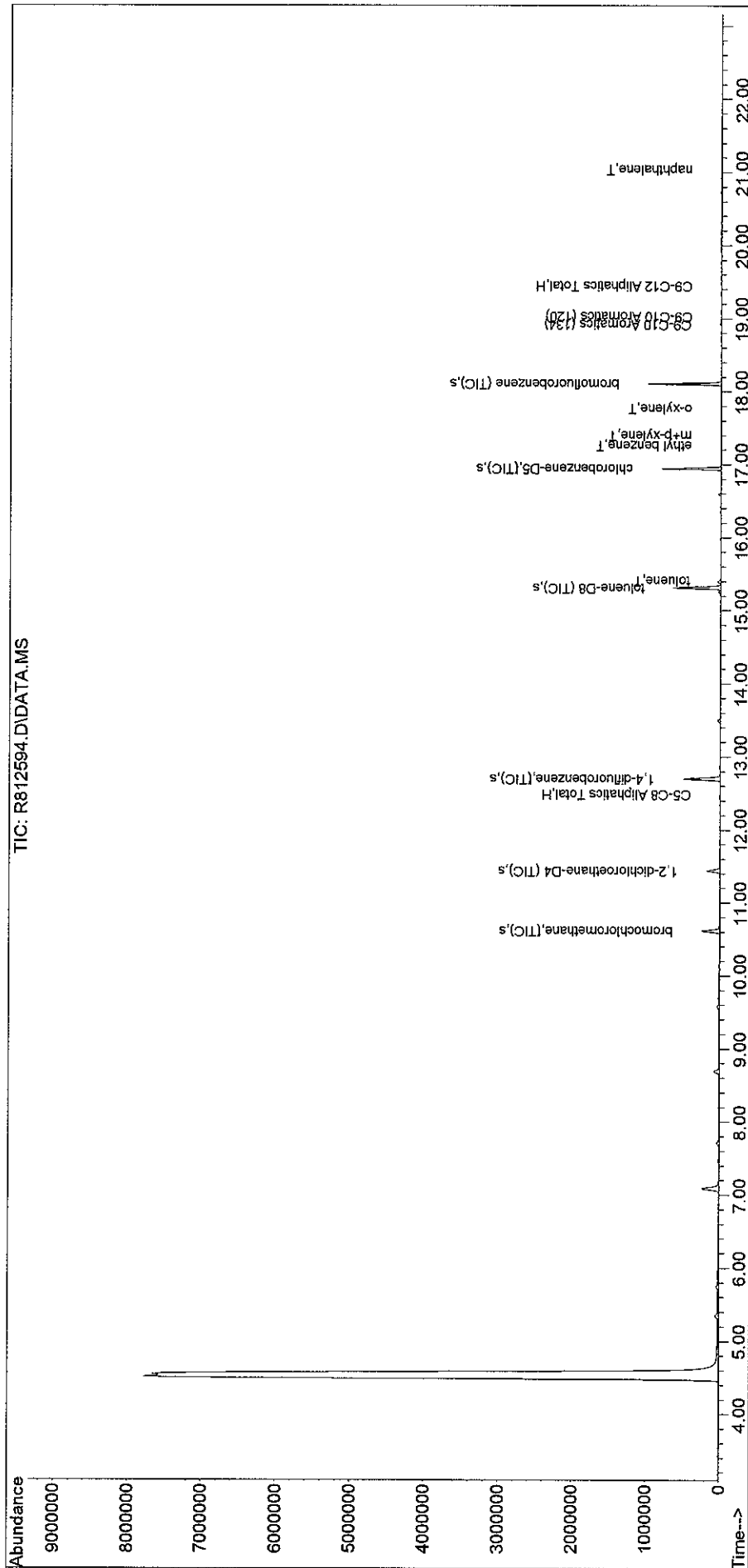
Quant Time: Jan 14 14:06:58 2011
Quant Method : O:\Forensics\Data\AirLab8\2011\110113A\APH110113.M
Quant Title : APH Analysis
QLast Update : Thu Jan 13 16:27:41 2011
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\AirLab8\2011\110113A\
Data File : R812594.D
Acq On : 14 Jan 2011 1:47 pm
Operator : AIRLAB8:ry
Sample : 11100113-03D,3,95.2970,250
Misc : wg451548,ical5589
ALS Vial : 8 Sample Multiplier: 1

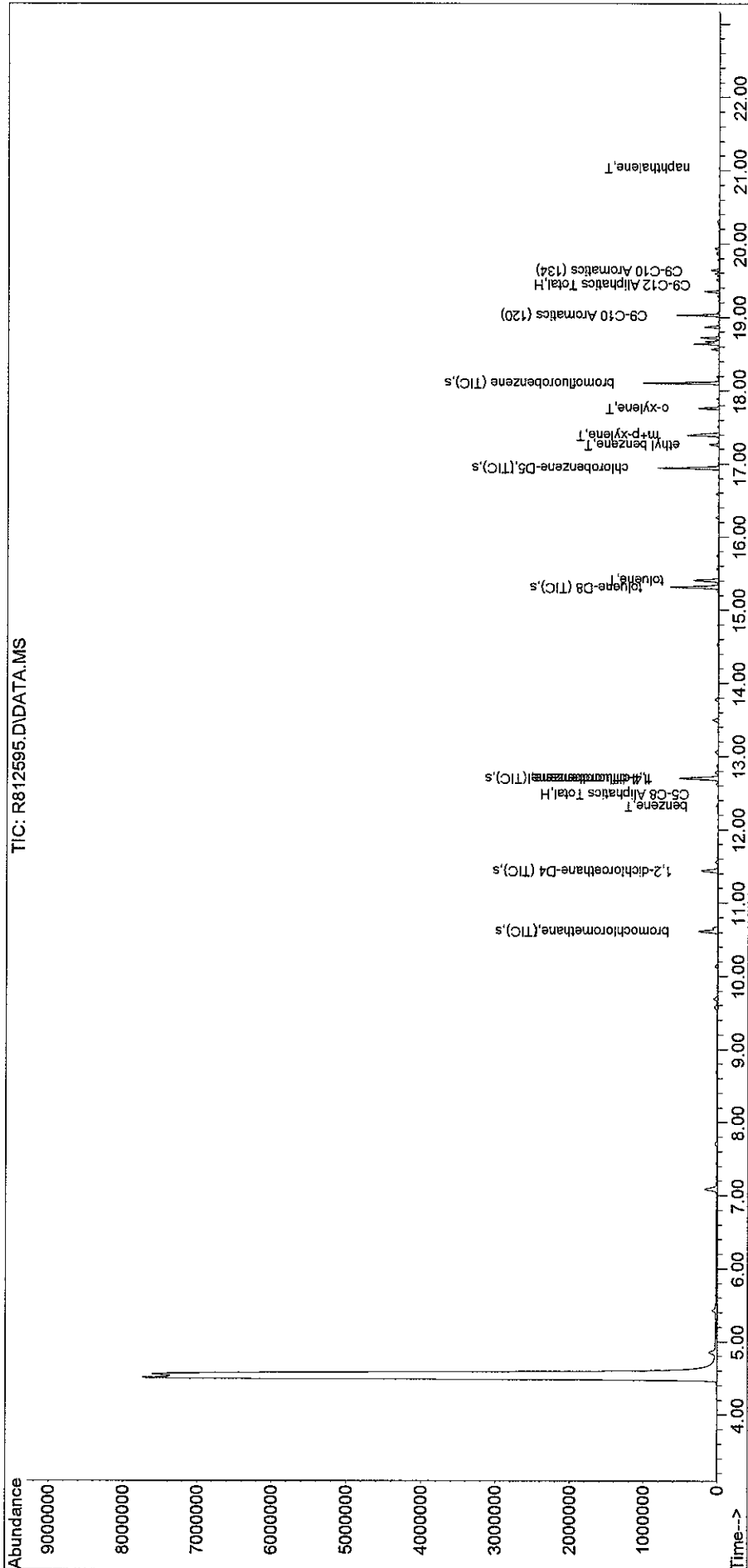
Quant Time: Jan 14 14:22:41 2011
Quant Method : O:\Forensics\Data\AirLab8\2011\110113A\APH110113.M
Quant Title : APH Analysis
QLast Update : Thu Jan 13 16:27:41 2011
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\AirLab8\2011\110113A\
Data File : R812595.D
Acq On : 14 Jan 2011 2:25 pm
Operator : AIRLAB:ry
Sample : 11100113-04D,3,173.2673,250
Misc : wg451548,ical5589
ALS Vial : 9 Sample Multiplier: 1

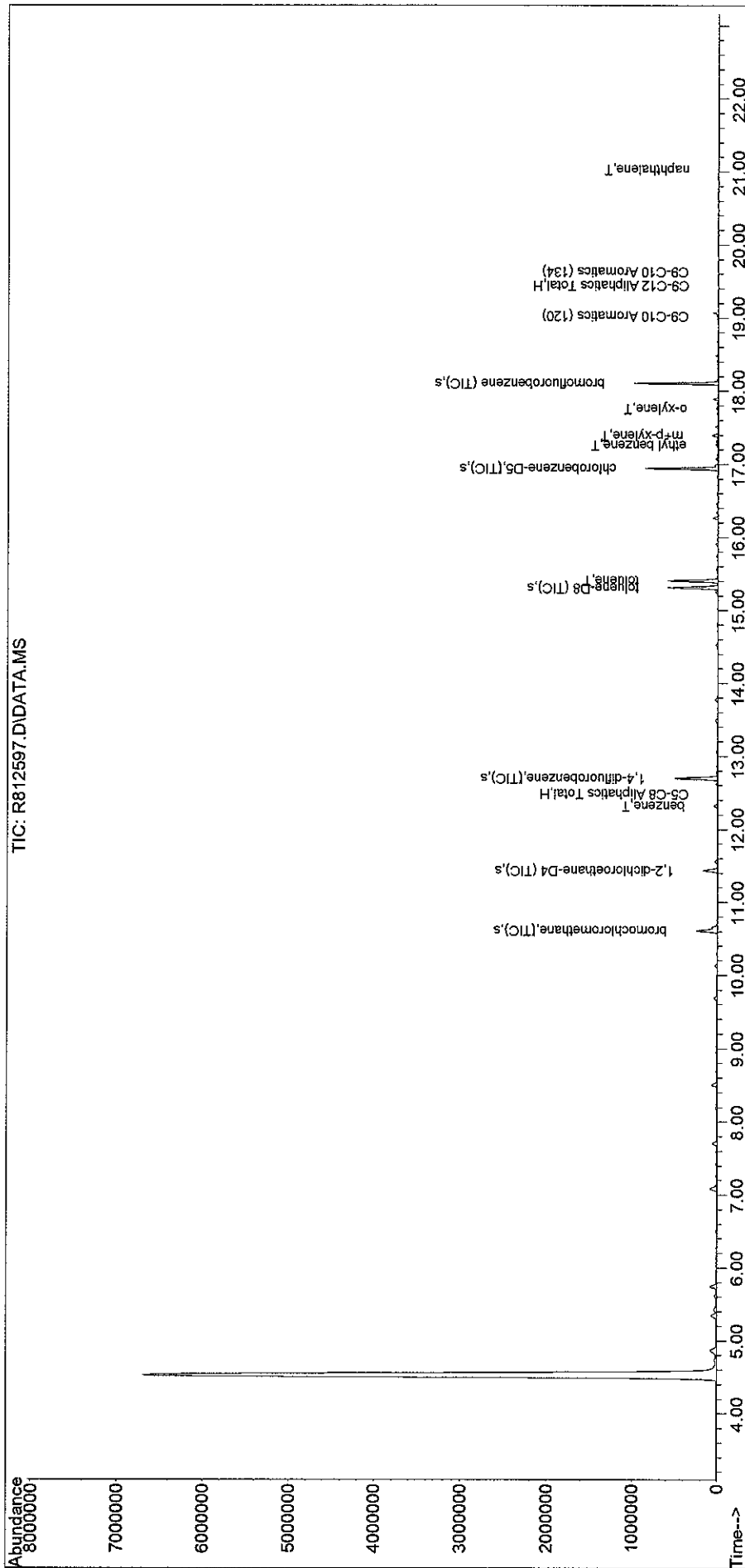
Quant Time: Jan 14 14:50:09 2011
Quant Method : O:\Forensics\Data\AirLab8\2011\110113A\APH110113.M
Quant Title : APH Analysis
QLast Update : Thu Jan 13 16:27:41 2011
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\AirLab8\2011\110113A\
Data File : R812597.D
Acq On : 14 Jan 2011 3:40 pm
Operator : AIRLAB8:ry
Sample : 11100113-05D,3,141.0891,250
Misc : wg451548,ical5589
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 14 16:23:06 2011
Quant Method : O:\Forensics\Data\AirLab8\2011\110113A\APH110113.M
Quant Title : APH Analysis
QLast Update : Thu Jan 13 16:27:41 2011
Response via : Initial Calibration





ANALYTICAL REPORT

Lab Number:	L1100508
Client:	Maine DEP-Div. of Technical Services Division of Technical Services 312 Canco Road Portland, ME 04103
ATTN:	Peter Eremita
Phone:	(207) 592-0592
Project Name:	CFI - WASHINGTON AVE
Project Number:	1042
Report Date:	01/28/11

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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: CFI - WASHINGTON AVE
Project Number: 1042

Lab Number: L1100508
Report Date: 01/28/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1100508-01	SG-19	PORTLAND, ME	01/10/11 11:07
L1100508-02	SG-8	PORTLAND, ME	01/10/11 12:10
L1100508-03	SG-3	PORTLAND, ME	01/10/11 11:47
L1100508-04	SG-11	PORTLAND, ME	01/10/11 11:27
L1100508-05	SG-1	PORTLAND, ME	01/10/11 10:50
L1100508-06	CAN 185	PORTLAND, ME	
L1100508-07	CAN 154	PORTLAND, ME	
L1100508-08	CAN 114	PORTLAND, ME	
L1100508-09	CAN 393	PORTLAND, ME	
L1100508-10	CAN 151	PORTLAND, ME	
L1100508-11	CAN 263	PORTLAND, ME	
L1100508-12	CAN 333	PORTLAND, ME	
L1100508-13	CAN 1747	PORTLAND, ME	

Project Name: CFI - WASHINGTON AVE

Lab Number: L1100508

Project Number: 1042

Report Date: 01/28/11

MADEP MCP Response Action Analytical Report Certification

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

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	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: CFI - WASHINGTON AVE
Project Number: 1042

Lab Number: L1100508
Report Date: 01/28/11

Case Narrative

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

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

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

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

MCP Related Narratives

Canisters were released from the laboratory on December 15, 2010.

The canister certification data is provided as an addendum.

Client requested that APH analysis also be performed.

Volatile Organics in Air

L1100508-01 through -05 and WG451826-5 Duplicate have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Petroleum Hydrocarbons in Air

L1100508-01 and -03 through -05 have elevated detection limits due to the dilution required by the elevated

Project Name: CFI - WASHINGTON AVE
Project Number: 1042

Lab Number: L1100508
Report Date: 01/28/11

Case Narrative (continued)

concentrations of non-target compounds in the sample.

Fixed Gas

L1100508-01 through -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.

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: 01/28/11

AIR

Project Name: CFI - WASHINGTON AVE**Lab Number:** L1100508**Project Number:** 1042**Report Date:** 01/28/11**SAMPLE RESULTS**

Lab ID: L1100508-01 D
 Client ID: SG-19
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 01/17/11 22:38
 Analyst: BS

Date Collected: 01/10/11 11:07
 Date Received: 01/13/11
 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	99		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	97		60-140



Project Name: CFI - WASHINGTON AVE**Lab Number:** L1100508**Project Number:** 1042**Report Date:** 01/28/11**SAMPLE RESULTS**

Lab ID: L1100508-02 D
 Client ID: SG-8
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 01/17/11 21:26
 Analyst: BS

Date Collected: 01/10/11 12:10
 Date Received: 01/13/11
 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	0.400	--	ND	1.02	--		2
1,1-Dichloroethene	ND	0.400	--	ND	1.58	--		2
trans-1,2-Dichloroethene	ND	0.400	--	ND	1.58	--		2
1,1-Dichloroethane	ND	0.400	--	ND	1.62	--		2
cis-1,2-Dichloroethene	ND	0.400	--	ND	1.58	--		2
1,2-Dichloroethane	ND	0.400	--	ND	1.62	--		2
1,1,1-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Trichloroethene	ND	0.400	--	ND	2.15	--		2
1,2-Dibromoethane	ND	0.400	--	ND	3.07	--		2
Tetrachloroethene	ND	0.400	--	ND	2.71	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	106		60-140



Project Name: CFI - WASHINGTON AVE**Lab Number:** L1100508**Project Number:** 1042**Report Date:** 01/28/11**SAMPLE RESULTS**

Lab ID: L1100508-03 D
 Client ID: SG-3
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 01/17/11 23:50
 Analyst: BS

Date Collected: 01/10/11 11:47
 Date Received: 01/13/11
 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	63.2	--	ND	162.	--		316.2
1,1-Dichloroethene	ND	63.2	--	ND	250.	--		316.2
trans-1,2-Dichloroethene	ND	63.2	--	ND	250.	--		316.2
1,1-Dichloroethane	ND	63.2	--	ND	256.	--		316.2
cis-1,2-Dichloroethene	ND	63.2	--	ND	250.	--		316.2
1,2-Dichloroethane	ND	63.2	--	ND	256.	--		316.2
1,1,1-Trichloroethane	ND	63.2	--	ND	345.	--		316.2
Trichloroethene	ND	63.2	--	ND	340.	--		316.2
1,2-Dibromoethane	ND	63.2	--	ND	486.	--		316.2
Tetrachloroethene	ND	63.2	--	ND	428.	--		316.2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	112		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	121		60-140



Project Name: CFI - WASHINGTON AVE**Lab Number:** L1100508**Project Number:** 1042**Report Date:** 01/28/11**SAMPLE RESULTS**

Lab ID: L1100508-04 D
 Client ID: SG-11
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 01/17/11 23:14
 Analyst: BS

Date Collected: 01/10/11 11:27
 Date Received: 01/13/11
 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	107		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	105		60-140



Project Name: CFI - WASHINGTON AVE**Lab Number:** L1100508**Project Number:** 1042**Report Date:** 01/28/11**SAMPLE RESULTS**

Lab ID: L1100508-05 D
 Client ID: SG-1
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 01/18/11 00:26
 Analyst: BS

Date Collected: 01/10/11 10:50
 Date Received: 01/13/11
 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	62.1	--	ND	159.	--		310.6
1,1-Dichloroethene	ND	62.1	--	ND	246.	--		310.6
trans-1,2-Dichloroethene	ND	62.1	--	ND	246.	--		310.6
1,1-Dichloroethane	ND	62.1	--	ND	251.	--		310.6
cis-1,2-Dichloroethene	ND	62.1	--	ND	246.	--		310.6
1,2-Dichloroethane	ND	62.1	--	ND	251.	--		310.6
1,1,1-Trichloroethane	ND	62.1	--	ND	339.	--		310.6
Trichloroethene	ND	62.1	--	ND	334.	--		310.6
1,2-Dibromoethane	ND	62.1	--	ND	477.	--		310.6
Tetrachloroethene	ND	62.1	--	ND	421.	--		310.6

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	121		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	134		60-140



Project Name: CFI - WASHINGTON AVE

Lab Number: L1100508

Project Number: 1042

Report Date: 01/28/11

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/17/11 18:58

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01-05 Batch: WG451826-4								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: CFI - WASHINGTON AVE

Project Number: 1042

Lab Number: L1100508

Report Date: 01/28/11

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-05 Batch: WG451826-3								
Vinyl chloride	95		-		70-130	-		
1,1-Dichloroethene	100		-		70-130	-		
trans-1,2-Dichloroethene	94		-		70-130	-		
1,1-Dichloroethane	96		-		70-130	-		
cis-1,2-Dichloroethene	98		-		70-130	-		
1,2-Dichloroethane	112		-		70-130	-		
1,1,1-Trichloroethane	112		-		70-130	-		
Trichloroethene	98		-		70-130	-		
1,2-Dibromoethane	105		-		70-130	-		
Tetrachloroethene	105		-		70-130	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: CFI - WASHINGTON AVE
Project Number: 1042

Lab Number: L1100508
Report Date: 01/28/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG451826-5 QC Sample: L1100508-02 Client ID: SG-8						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	ND	ND	ppbV	NC		25

Project Name: CFI - WASHINGTON AVE**Lab Number:** L1100508**Project Number:** 1042**Report Date:** 01/28/11**SAMPLE RESULTS**

Lab ID: L1100508-01 D
Client ID: SG-19
Sample Location: PORTLAND, ME
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 01/22/11 15:43
Analyst: RY

Date Collected: 01/10/11 11:07
Date Received: 01/13/11
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	ND		%	1.56	--	1.555
Carbon Dioxide	2.03		%	0.156	--	1.555
Methane	87.6		%	0.156	--	1.555

Project Name: CFI - WASHINGTON AVE**Lab Number:** L1100508**Project Number:** 1042**Report Date:** 01/28/11**SAMPLE RESULTS**

Lab ID: L1100508-02 D
Client ID: SG-8
Sample Location: PORTLAND, ME
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 01/22/11 16:21
Analyst: RY

Date Collected: 01/10/11 12:10
Date Received: 01/13/11
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	4.94		%	1.96	--	1.963
Carbon Dioxide	9.01		%	0.196	--	1.963
Methane	ND		%	0.196	--	1.963

Project Name: CFI - WASHINGTON AVE**Lab Number:** L1100508**Project Number:** 1042**Report Date:** 01/28/11**SAMPLE RESULTS**

Lab ID: L1100508-03 D
Client ID: SG-3
Sample Location: PORTLAND, ME
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 01/22/11 17:00
Analyst: RY

Date Collected: 01/10/11 11:47
Date Received: 01/13/11
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	ND		%	1.58	--	1.578
Carbon Dioxide	5.23		%	0.158	--	1.578
Methane	34.3		%	0.158	--	1.578

Project Name: CFI - WASHINGTON AVE**Lab Number:** L1100508**Project Number:** 1042**Report Date:** 01/28/11**SAMPLE RESULTS**

Lab ID: L1100508-04 D
Client ID: SG-11
Sample Location: PORTLAND, ME
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 01/22/11 17:39
Analyst: RY

Date Collected: 01/10/11 11:27
Date Received: 01/13/11
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	2.80		%	1.71	--	1.707
Carbon Dioxide	1.05		%	0.171	--	1.707
Methane	73.0		%	0.171	--	1.707

Project Name: CFI - WASHINGTON AVE**Lab Number:** L1100508**Project Number:** 1042**Report Date:** 01/28/11**SAMPLE RESULTS**

Lab ID: L1100508-05 D
Client ID: SG-1
Sample Location: PORTLAND, ME
Matrix: Soil_Vapor
Analytical Method: 51,3C
Analytical Date: 01/22/11 18:18
Analyst: RY

Date Collected: 01/10/11 10:50
Date Received: 01/13/11
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Oxygen	ND		%	1.55	--	1.55
Carbon Dioxide	3.71		%	0.155	--	1.55
Methane	59.0		%	0.155	--	1.55

Project Name: CFI - WASHINGTON AVE

Lab Number: L1100508

Project Number: 1042

Report Date: 01/28/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 51,3C

Analytical Date: 01/22/11 15:13

Analyst: RY

Parameter	Result	Qualifier	Units	RL	MDL
Fixed Gases by GC - Mansfield Lab for sample(s): 01-05 Batch: WG452486-2					
Oxygen	ND		%	1.00	--
Carbon Dioxide	ND		%	0.100	--
Methane	ND		%	0.100	--

Lab Control Sample Analysis Batch Quality Control

Project Name: CFI - WASHINGTON AVE
Project Number: 1042

Lab Number: L1100508
Report Date: 01/28/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-05 Batch: WG452486-1								
Oxygen	94		-		80-120	-		
Carbon Dioxide	108		-		80-120	-		
Methane	115		-		80-120	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: CFI - WASHINGTON AVE
Project Number: 1042

Lab Number: L1100508
Report Date: 01/28/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG452486-3 QC Sample: L1100508-01 Client ID: SG-19						
Oxygen	ND	ND	%	NC		5
Carbon Dioxide	2.03	2.04	%	0		5
Methane	87.6	87.9	%	0		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG452486-4 QC Sample: L1100508-02 Client ID: SG-8						
Oxygen	4.94	5.07	%	3		5
Carbon Dioxide	9.01	9.00	%	0		5
Methane	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG452486-5 QC Sample: L1100508-03 Client ID: SG-3						
Oxygen	ND	ND	%	NC		5
Carbon Dioxide	5.23	5.23	%	0		5
Methane	34.3	34.3	%	0		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG452486-6 QC Sample: L1100508-04 Client ID: SG-11						
Oxygen	2.80	2.93	%	5		5
Carbon Dioxide	1.05	1.04	%	1		5
Methane	73.0	72.8	%	0		5

Lab Duplicate Analysis

Batch Quality Control

Project Name: CFI - WASHINGTON AVE

Project Number: 1042

Lab Number: L1100508

Report Date: 01/28/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG452486-7 QC Sample: L1100508-05 Client ID: SG-1					
Oxygen	ND	ND	%	NC	5
Carbon Dioxide	3.71	3.71	%	0	5
Methane	59.0	59.0	%	0	5

Project Name: CFI - WASHINGTON AVE**Lab Number:** L1100508**Project Number:** 1042**Report Date:** 01/28/11**SAMPLE RESULTS**

Lab ID: L1100508-01 D
 Client ID: SG-19
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 01/17/11 22:38
 Analyst: BS

Date Collected: 01/10/11 11:07
 Date Received: 01/13/11
 Field Prep: Not Specified

Quality Control Information

Sample Type: 200 ml/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	43		ug/m3	20	--	10
Toluene	ND		ug/m3	20	--	10
C5-C8 Aliphatics, Adjusted	52000		ug/m3	120	--	10
Ethylbenzene	ND		ug/m3	20	--	10
p/m-Xylene	ND		ug/m3	40	--	10
o-Xylene	ND		ug/m3	20	--	10
Naphthalene	ND		ug/m3	20	--	10
C9-C12 Aliphatics, Adjusted	3700		ug/m3	140	--	10
C9-C10 Aromatics Total	420		ug/m3	100	--	10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	125		50-200
Bromochloromethane	96		50-200
Chlorobenzene-d5	83		50-200

Project Name: CFI - WASHINGTON AVE**Lab Number:** L1100508**Project Number:** 1042**Report Date:** 01/28/11**SAMPLE RESULTS**

Lab ID: L1100508-02 D
 Client ID: SG-8
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 01/17/11 21:26
 Analyst: BS

Date Collected: 01/10/11 12:10
 Date Received: 01/13/11
 Field Prep: Not Specified

Quality Control Information

Sample Type: 200 ml/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	ND		ug/m3	4.0	--	2
C5-C8 Aliphatics, Adjusted	ND		ug/m3	24	--	2
Ethylbenzene	ND		ug/m3	4.0	--	2
p/m-Xylene	ND		ug/m3	8.0	--	2
o-Xylene	ND		ug/m3	4.0	--	2
Naphthalene	ND		ug/m3	4.0	--	2
C9-C12 Aliphatics, Adjusted	ND		ug/m3	28	--	2
C9-C10 Aromatics Total	ND		ug/m3	20	--	2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	129		50-200
Bromochloromethane	94		50-200
Chlorobenzene-d5	95		50-200

Project Name: CFI - WASHINGTON AVE**Lab Number:** L1100508**Project Number:** 1042**Report Date:** 01/28/11**SAMPLE RESULTS**

Lab ID: L1100508-03 D
 Client ID: SG-3
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 01/17/11 23:50
 Analyst: BS

Date Collected: 01/10/11 11:47
 Date Received: 01/13/11
 Field Prep: Not Specified

Quality Control Information

Sample Type: 200 ml/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	640	--	320
Methyl tert butyl ether	ND		ug/m3	640	--	320
Benzene	6100		ug/m3	640	--	320
Toluene	ND		ug/m3	640	--	320
C5-C8 Aliphatics, Adjusted	5000000		ug/m3	3800	--	320
Ethylbenzene	ND		ug/m3	640	--	320
p/m-Xylene	ND		ug/m3	1300	--	320
o-Xylene	ND		ug/m3	640	--	320
Naphthalene	ND		ug/m3	640	--	320
C9-C12 Aliphatics, Adjusted	250000		ug/m3	4500	--	320
C9-C10 Aromatics Total	8100		ug/m3	3200	--	320

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	141		50-200
Bromochloromethane	104		50-200
Chlorobenzene-d5	96		50-200

Project Name: CFI - WASHINGTON AVE**Lab Number:** L1100508**Project Number:** 1042**Report Date:** 01/28/11**SAMPLE RESULTS**

Lab ID: L1100508-04 D
 Client ID: SG-11
 Sample Location: PORTLAND, ME
 Matrix: Soil_Vapor
 Analytical Method: 96,APH
 Analytical Date: 01/17/11 23:14
 Analyst: BS

Date Collected: 01/10/11 11:27
 Date Received: 01/13/11
 Field Prep: Not Specified

Quality Control Information

Sample Type: 200 ml/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	2900		ug/m3	20	--	10
Toluene	23		ug/m3	20	--	10
C5-C8 Aliphatics, Adjusted	41000		ug/m3	120	--	10
Ethylbenzene	ND		ug/m3	20	--	10
p/m-Xylene	62		ug/m3	40	--	10
o-Xylene	52		ug/m3	20	--	10
Naphthalene	ND		ug/m3	20	--	10
C9-C12 Aliphatics, Adjusted	6700		ug/m3	140	--	10
C9-C10 Aromatics Total	290		ug/m3	100	--	10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	136		50-200
Bromochloromethane	100		50-200
Chlorobenzene-d5	86		50-200

Project Name: CFI - WASHINGTON AVE
Project Number: 1042

Lab Number: L1100508
Report Date: 01/28/11

SAMPLE RESULTS

Lab ID: L1100508-05 D
Client ID: SG-1
Sample Location: PORTLAND, ME
Matrix: Soil_Vapor
Analytical Method: 96,APH
Analytical Date: 01/18/11 00:26
Analyst: BS

Date Collected: 01/10/11 10:50
Date Received: 01/13/11
Field Prep: Not Specified

Quality Control Information

Sample Type: 200 ml/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	620	--	310
Methyl tert butyl ether	ND		ug/m3	620	--	310
Benzene	20000		ug/m3	620	--	310
Toluene	ND		ug/m3	620	--	310
C5-C8 Aliphatics, Adjusted	4500000		ug/m3	3700	--	310
Ethylbenzene	3800		ug/m3	620	--	310
p/m-Xylene	ND		ug/m3	1200	--	310
o-Xylene	ND		ug/m3	620	--	310
Naphthalene	ND		ug/m3	620	--	310
C9-C12 Aliphatics, Adjusted	420000		ug/m3	4300	--	310
C9-C10 Aromatics Total	9300		ug/m3	3100	--	310

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	153		50-200
Bromochloromethane	112		50-200
Chlorobenzene-d5	120		50-200

Project Name: CFI - WASHINGTON AVE

Lab Number: L1100508

Project Number: 1042

Report Date: 01/28/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 96,APH

Analytical Date: 01/17/11 18:58

Analyst: BS

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbons in Air - Mansfield Lab for sample(s): 01-05 Batch: WG451825-4					
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: CFI - WASHINGTON AVE
Project Number: 1042

Lab Number: L1100508
Report Date: 01/28/11

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01-05 Batch: WG451825-3								
1,3-Butadiene	88		-		70-130	-		
Methyl tert butyl ether	96		-		70-130	-		
Benzene	107		-		70-130	-		
Toluene	87		-		70-130	-		
C5-C8 Aliphatics, Adjusted	88		-		70-130	-		
Ethylbenzene	113		-		70-130	-		
p/m-Xylene	114		-		70-130	-		
o-Xylene	114		-		70-130	-		
Naphthalene	121		-		50-150	-		
C9-C12 Aliphatics, Adjusted	105		-		70-130	-		
C9-C10 Aromatics Total	108		-		70-130	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: CFI - WASHINGTON AVE
Project Number: 1042

Lab Number: L1100508
Report Date: 01/28/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG451825-5 QC Sample: L1100508-02 Client ID: SG-8						
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	ND	ND	ug/m3	NC		30
C5-C8 Aliphatics, Adjusted	ND	ND	ug/m3	NC		30
Ethylbenzene	ND	ND	ug/m3	NC		30
p/m-Xylene	ND	ND	ug/m3	NC		30
o-Xylene	ND	ND	ug/m3	NC		30
Naphthalene	ND	ND	ug/m3	NC		30
C9-C12 Aliphatics, Adjusted	ND	ND	ug/m3	NC		30
C9-C10 Aromatics Total	ND	ND	ug/m3	NC		30

Project Name: CFI - WASHINGTON AVE

Serial_No:01281114:51

Lab Number: L1100508

Project Number: 1042

Report Date: 01/28/11

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
L1100508-01	SG-19	0010	#90 SV		-	-	200	208	4
L1100508-01	SG-19	552	2.7L Can	L1019883	-28.9	-2.9	-	-	-
L1100508-02	SG-8	0161	#90 SV		-	-	200	207	3
L1100508-02	SG-8	1724	2.7L Can	L1019883	-29.3	-3.8	-	-	-
L1100508-03	SG-3	0449	#90 SV		-	-	200	206	3
L1100508-03	SG-3	318	2.7L Can	L1019883	-29.2	-3.6	-	-	-
L1100508-04	SG-11	0330	#90 SV		-	-	200	205	2
L1100508-04	SG-11	247	2.7L Can	L1019883	-29.3	-3.9	-	-	-
L1100508-05	SG-1	0263	#90 SV		-	-	200	205	2
L1100508-05	SG-1	474	2.7L Can	L1019883	-29.3	-2.9	-	-	-



Air Volatiles Can Certification

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1019883**Project Number:** CANISTER QC BAT**Report Date:** 01/28/11**Air Canister Certification Results**

Lab ID: L1019883-01
 Client ID: CAN 393 SHELF 3
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 12/15/10 18:16
 Analyst: BS

Date Collected: 12/13/10 00:00
 Date Received: 12/13/10
 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:** L1019883**Project Number:** CANISTER QC BAT**Report Date:** 01/28/11**Air Canister Certification Results**

Lab ID: L1019883-01

Date Collected: 12/13/10 00:00

Client ID: CAN 393 SHELF 3

Date Received: 12/13/10

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:** L1019883**Project Number:** CANISTER QC BAT**Report Date:** 01/28/11**Air Canister Certification Results**

Lab ID: L1019883-01

Date Collected: 12/13/10 00:00

Client ID: CAN 393 SHELF 3

Date Received: 12/13/10

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:** L1019883**Project Number:** CANISTER QC BAT**Report Date:** 01/28/11**Air Canister Certification Results**

Lab ID: L1019883-01

Date Collected: 12/13/10 00:00

Client ID: CAN 393 SHELF 3

Date Received: 12/13/10

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:** L1019883**Project Number:** CANISTER QC BAT**Report Date:** 01/28/11**Air Canister Certification Results**

Lab ID: L1019883-01

Date Collected: 12/13/10 00:00

Client ID: CAN 393 SHELF 3

Date Received: 12/13/10

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	85		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	101		60-140



AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1019883**Project Number:** CANISTER QC BAT**Report Date:** 01/28/11**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1019883-01
Client ID: CAN 393 SHELF 3
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 12/16/10 14:34
Analyst: RY

Date Collected: 12/13/10 00:00
Date Received: 12/13/10
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: CFI - WASHINGTON AVE

Lab Number: L1100508

Project Number: 1042

Report Date: 01/28/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal**Cooler**

N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1100508-01A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1100508-02A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1100508-03A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1100508-04A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1100508-05A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	APH-10(30),FIXGAS(30),TO15-LL(30)
L1100508-06A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	CLEAN-FEE()
L1100508-07A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	CLEAN-FEE()
L1100508-08A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	CLEAN-FEE()
L1100508-09A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	CLEAN-FEE()
L1100508-10A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	CLEAN-FEE()
L1100508-11A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	CLEAN-FEE()
L1100508-12A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	CLEAN-FEE()
L1100508-13A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	CLEAN-FEE()

*Values in parentheses indicate holding time in days



Project Name: CFI - WASHINGTON AVE
Project Number: 1042

Lab Number: L1100508
Report Date: 01/28/11

GLOSSARY

Acronyms

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

Terms

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- 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

Report Format: Data Usability Report



Project Name: CFI - WASHINGTON AVE
Project Number: 1042

Lab Number: L1100508
Report Date: 01/28/11

Data Qualifiers

the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

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

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

Project Name: CFI - WASHINGTON AVE
Project Number: 1042

Lab Number: L1100508
Report Date: 01/28/11

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 ____ OF ____

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

Client Information

Client: **Pete Esposito MEDDP**
 Address: **312 Cance Rd Portland, ME**
 Phone: **207-822-6366**
 Fax:

Email: **Pete.M.Esposito@Maine.gov**

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

*** See Attached**

Project Information

Project Name: **CFI - Washington Ave**
 Project Location: **Portland ME**
 Project #: **1642**
 Project Manager: **Esposito/Prescott**
 ALPHA Quote #:
 Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

Date Rec'd in Lab:
 FAX
 EMAIL (standard pdf report)
 Other Formats:
 Criteria Checker: **RADEX**
 (Default based on Regulatory Criteria Indicated)
 Additional Deliverables:
 Report to: (if different than Project Manager)
Cherry
Diana M. McKenzie @ Mainepol

Billing Information

ALPHA Job #: **21100528**
 Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria
MEDDP	BWR	115

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	TO-14A by TO-15	TO-15 Chloro	TO-15 SIM	APH	FIXED GASES Chloro	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
		Date	Start Time	End Time	Initial Vacuum													
1	SG-19	1/10	1057	1107	-29	-3	SV	SB	27	652	10	K	K	K	K	K		
2	SG-8		1260	1210	-29	-5	SV	SB	27	1728	161	K	K	K	K	K		
3	SG-3		1137	1147	-29	-5				318	449	K	K	K	K	K		
4	SG-11		1117	1127	-29	-5				247	330	K	K	K	K	K		
5	SG-1		1040	1050	-29	-5				474	263	K	K	K	K	K		

*SAMPLE MATRIX CODES

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

Relinquished By:	Date/Time: 1/13/11 930	Received By:	Date/Time: 1/13/11 100
Container Type			

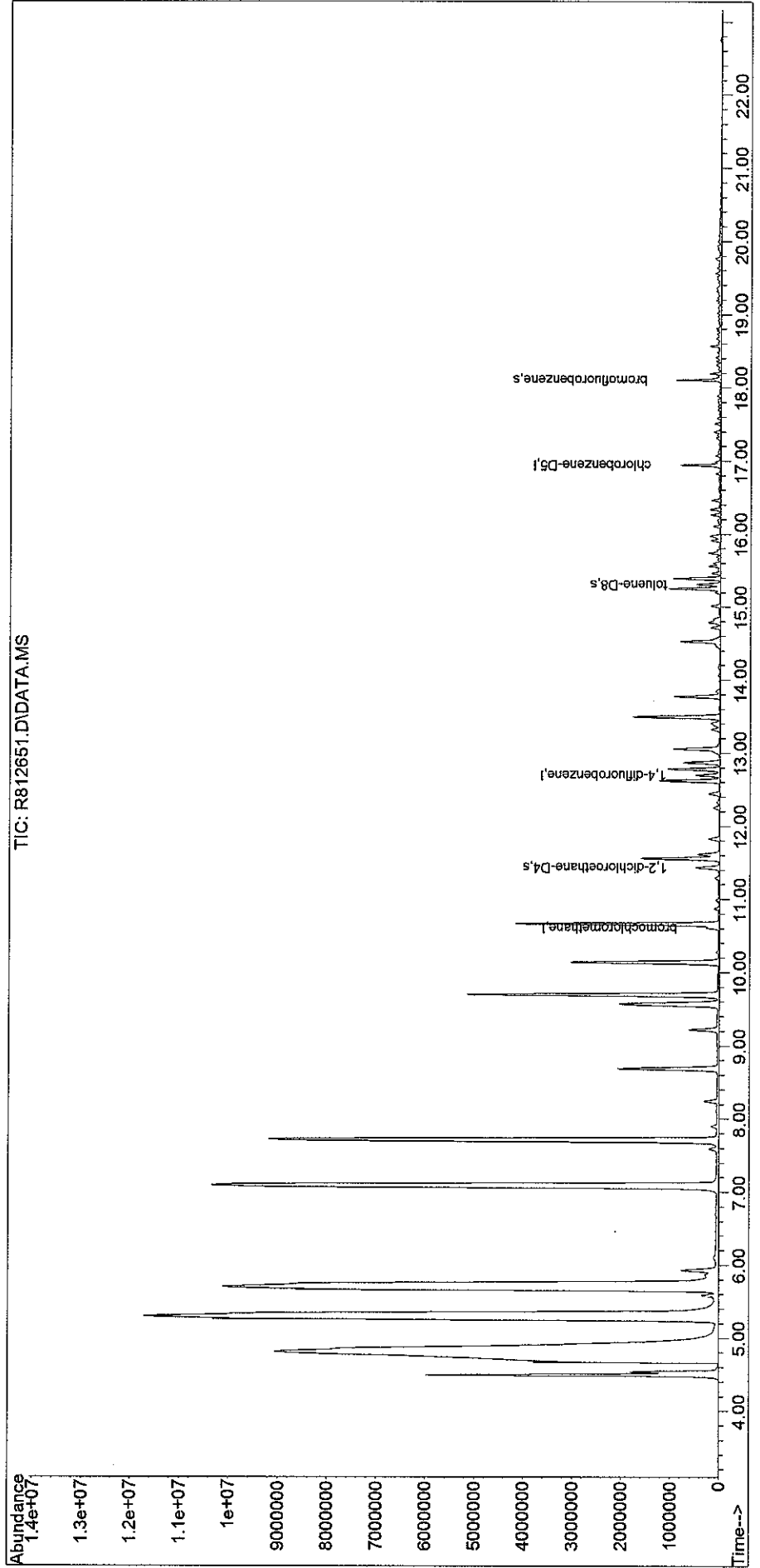
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

TO-15

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

Data Path : O:\Forensics\Data\AirLab8\2011\110117T\
Data File : R812651.D
Acq On : 17 Jan 2011 10:38 pm
Operator : AIRLAB8:BS
Sample : L1100508-01D,3,25,250
Misc : 25 ml
ALS Vial : 9 Sample Multiplier: 1

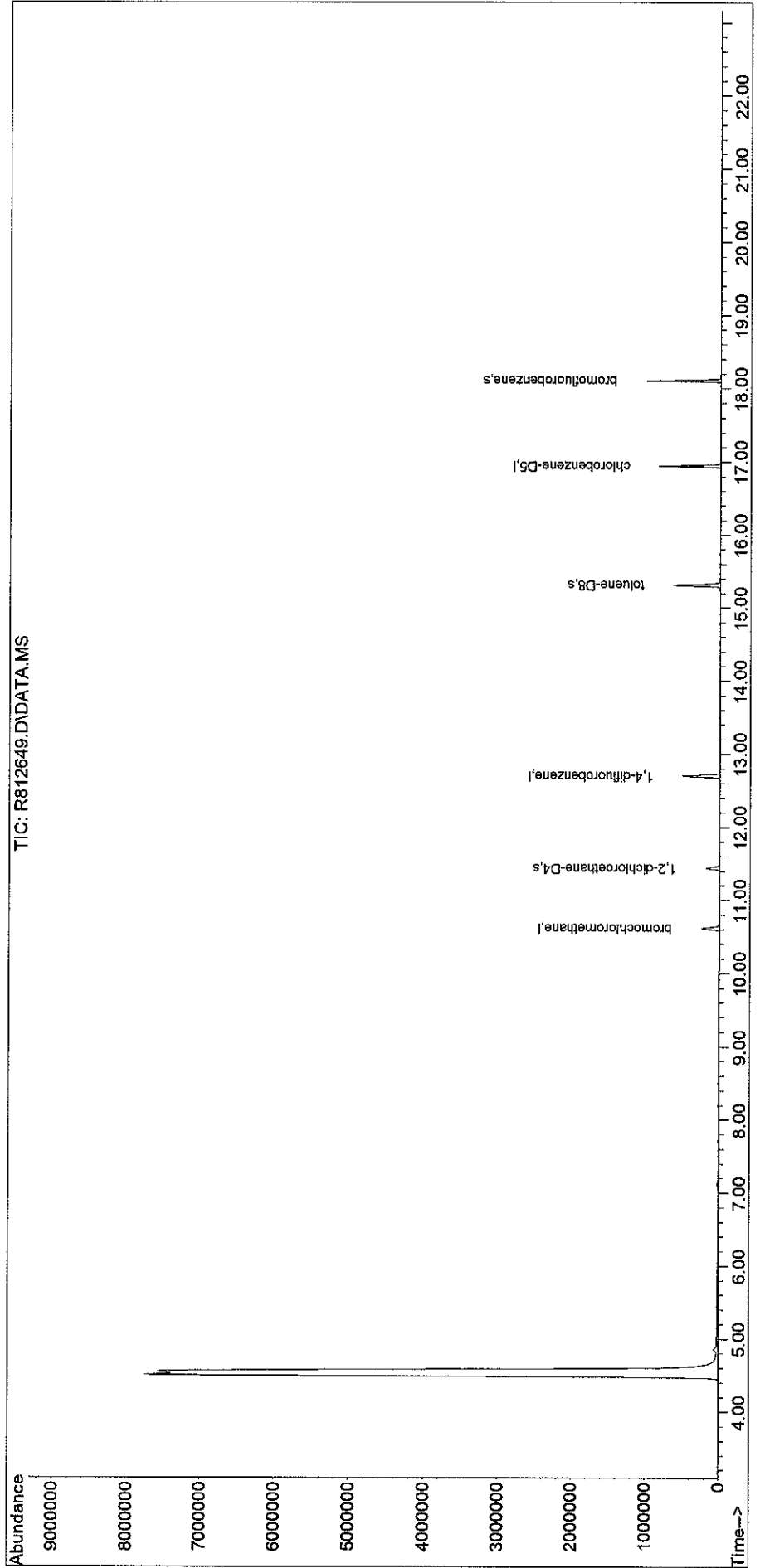
Quant Time: Jan 18 11:31:11 2011
Quant Method : O:\Forensics\Data\AirLab8\2011\110117T\TALL101230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jan 05 11:31:55 2011
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\AirLab8\2011\110117T\
Data File : R812649.D
Acq On : 17 Jan 2011 9:26 pm
Operator : AIRLAB8:BS
Sample : L1100508-02D,3,125,250
Misc : 125 ml
ALS Vial : 8 Sample Multiplier: 1

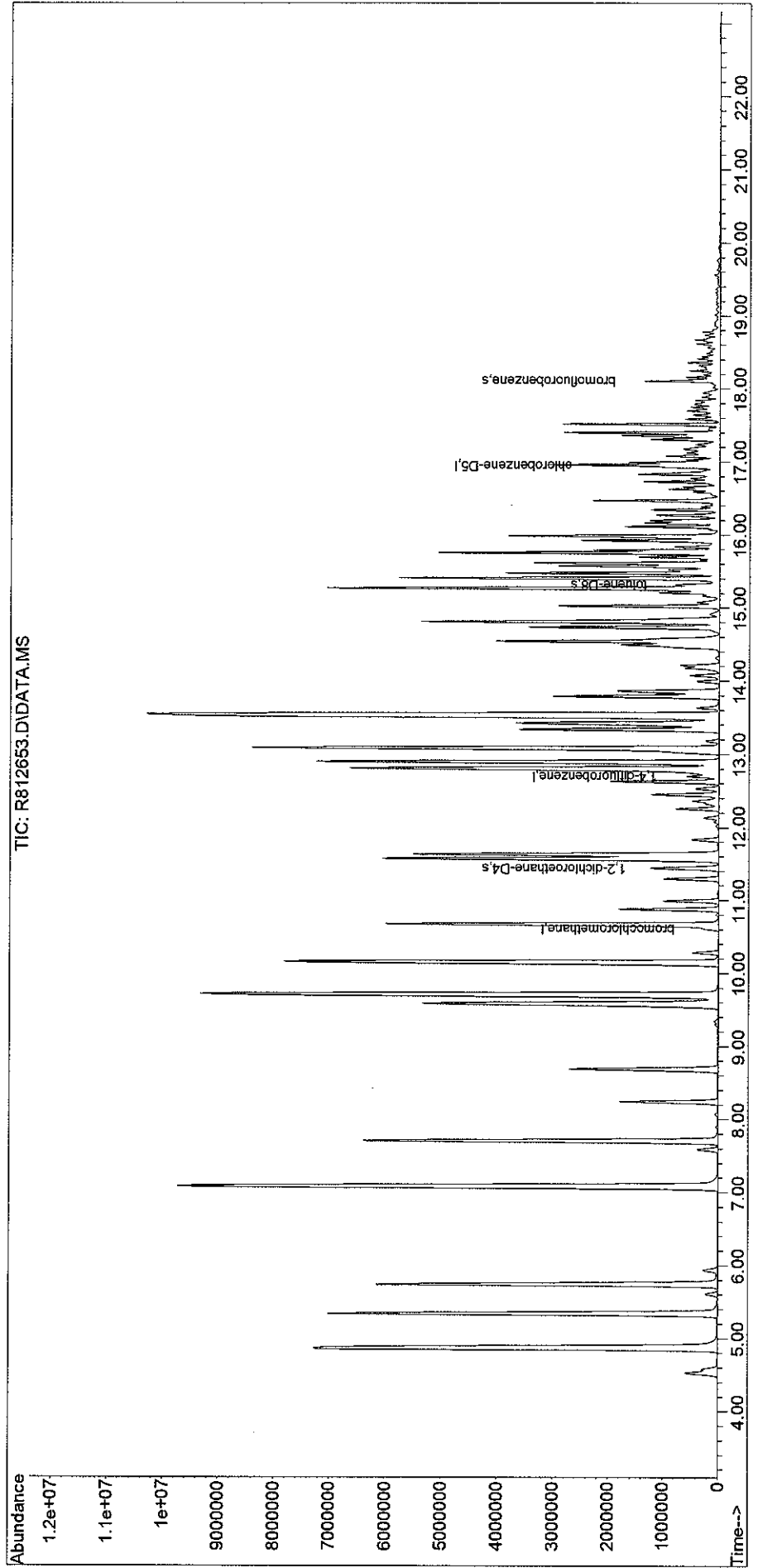
Quant Time: Jan 18 11:28:44 2011
Quant Method : O:\Forensics\Data\AirLab8\2011\110117T\TALL101230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jan 05 11:31:55 2011
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\AirLab8\2011\110117T\
Data File : R812653.D
Acq On : 17 Jan 2011 11:50 pm
Operator : AIRLAB8:BS
Sample : L1100508-03D,3,0.7905,250
Misc : 50 ml of can dilution
ALS Vial : 11 Sample Multiplier: 1

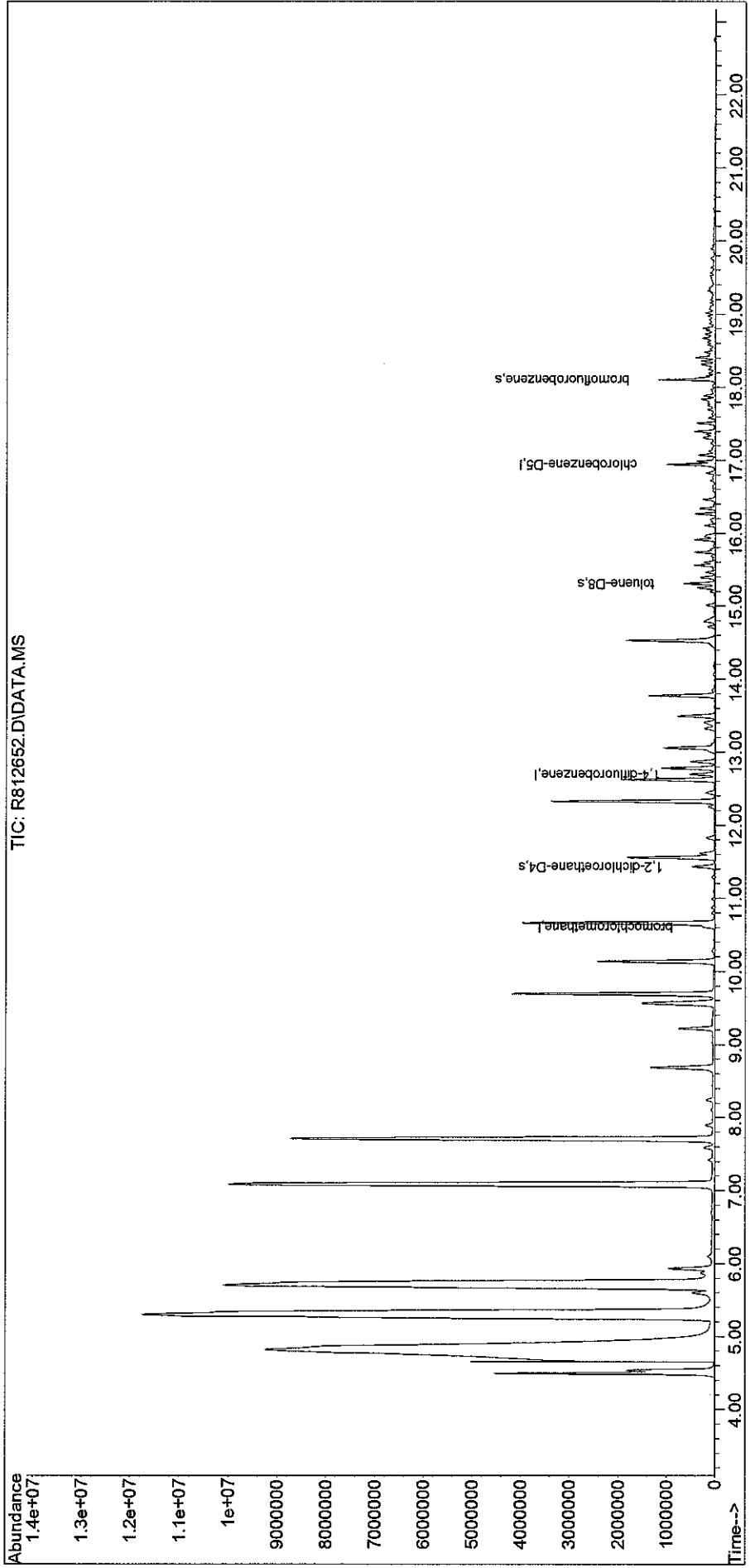
Quant Time: Jan 18 11:31:52 2011
Quant Method : O:\Forensics\Data\AirLab8\2011\110117T\FALL101230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jan 05 11:31:55 2011
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\AirLab8\2011\110117T\
Data File : R812652.D
Acq On : 17 Jan 2011 11:14 pm
Operator : AIRLAB8:BS
Sample : L1100508-04D,3,25,250
Misc : 25 ml
ALS Vial : 10 Sample Multiplier: 1

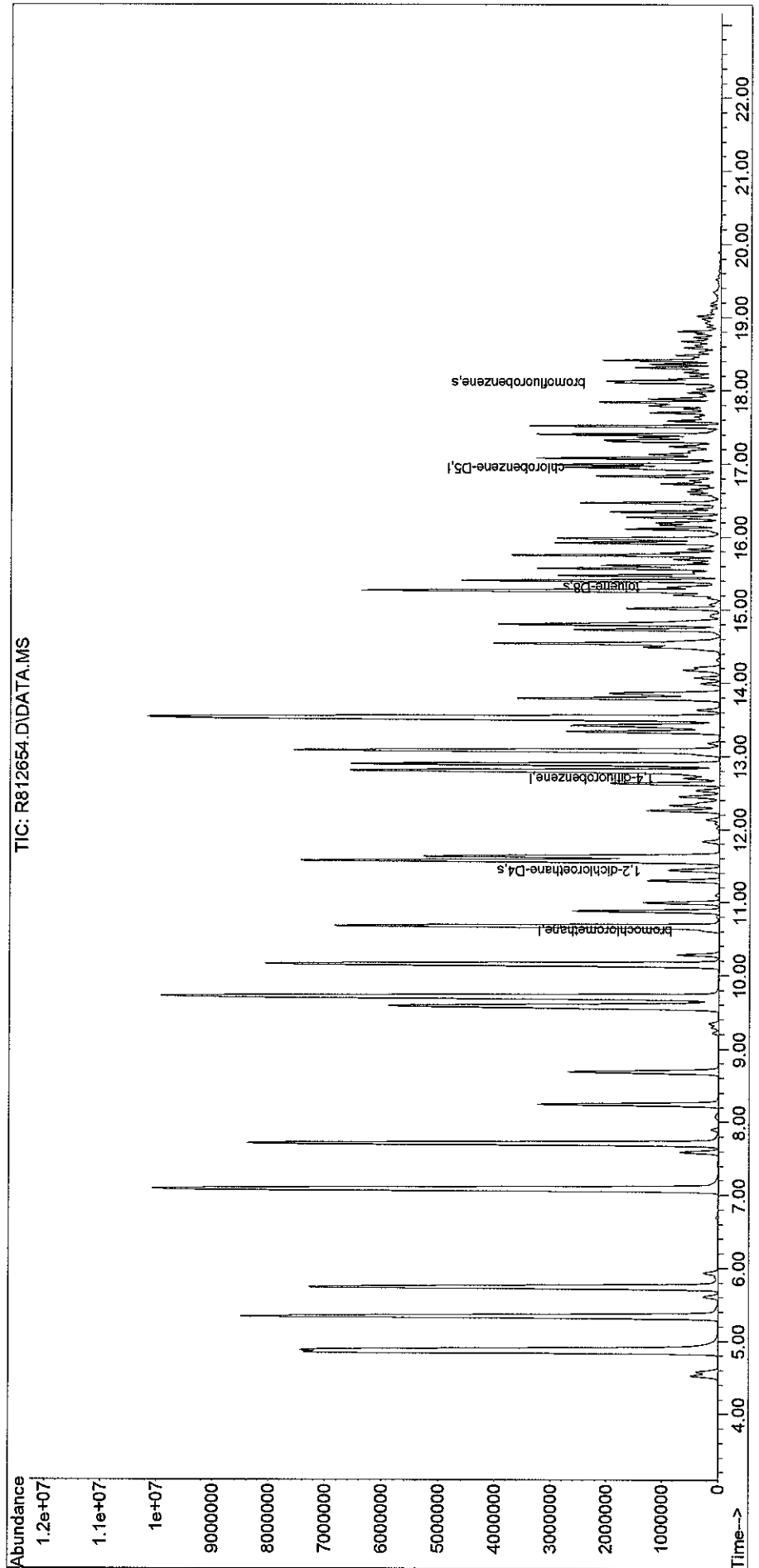
Quant Time: Jan 18 11:31:29 2011
Quant Method : O:\Forensics\Data\AirLab8\2011\110117T\TALL101230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jan 05 11:31:55 2011
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\AirLab8\2011\110117T\
Data File : R812654.D
Acq On : 18 Jan 2011 12:26 am
Operator : AIRLAB8:BS
Sample : L1100508-05D,3,0.8050,250
Misc : 50 ml of can dilution
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 18 11:32:29 2011
Quant Method : O:\Forensics\Data\AirLab8\2011\110117T\TALL101230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jan 05 11:31:55 2011
Response via : Initial Calibration



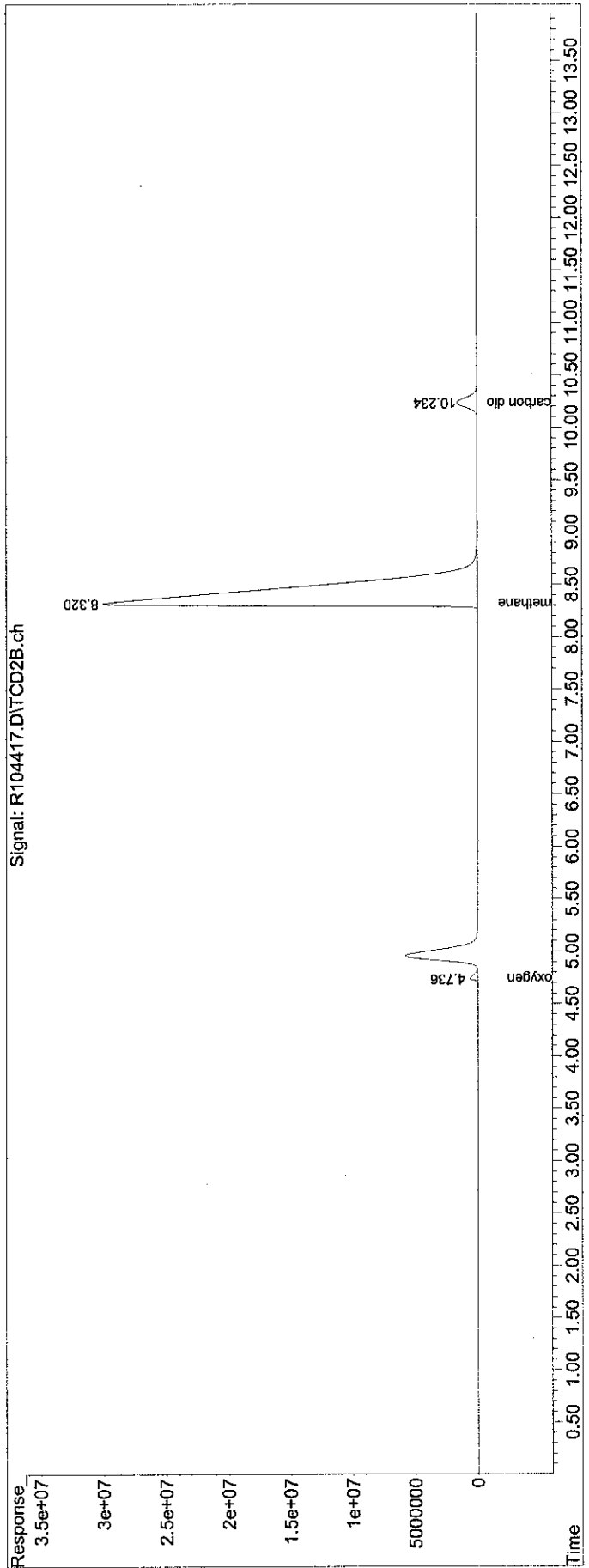
Fixed Gases

Sub List : CO2,O2,CH4 - .report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\110122fg\
 Data File : R104417.D
 Signal(s) : TCD2B.ch
 Acq On : 22 Jan 2011 3:43 pm
 Operator : airlab10:RY
 Sample : 11100508-01d,4,0.6429,1
 Misc : WG452486,ICAL5222
 ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 22 16:14:38 2011
 Quant Method : O:\Forensics\Data\airlab10\110122fg\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 :

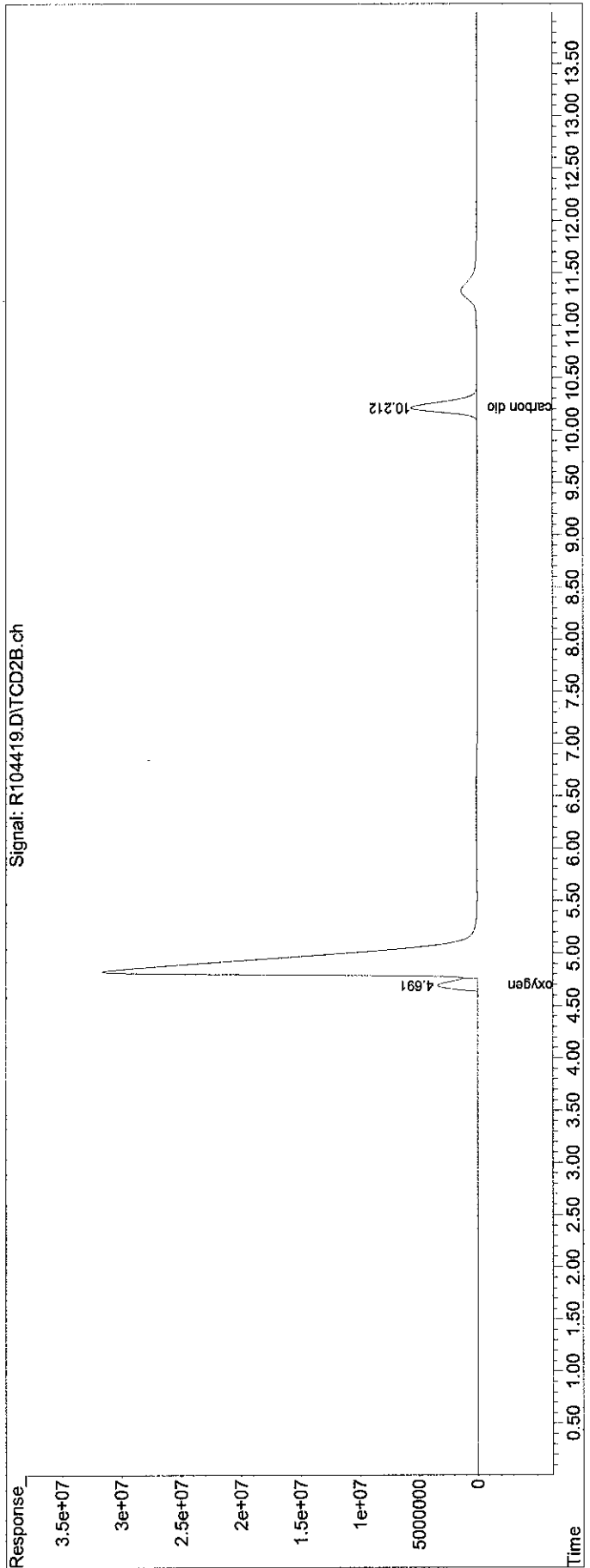


Sub List : CO2,O2,CH4 - .report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\110122fg\
Data File : R104419.D
Signal(s) : TCD2B.ch
Acq On : 22 Jan 2011 4:21 pm
Operator : airlab10:RY
Sample : 11100508-02d,4,0.5095,1
Misc : WG452486,ICAL5222
ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 22 17:15:19 2011
Quant Method : O:\Forensics\Data\airlab10\110122fg\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 :

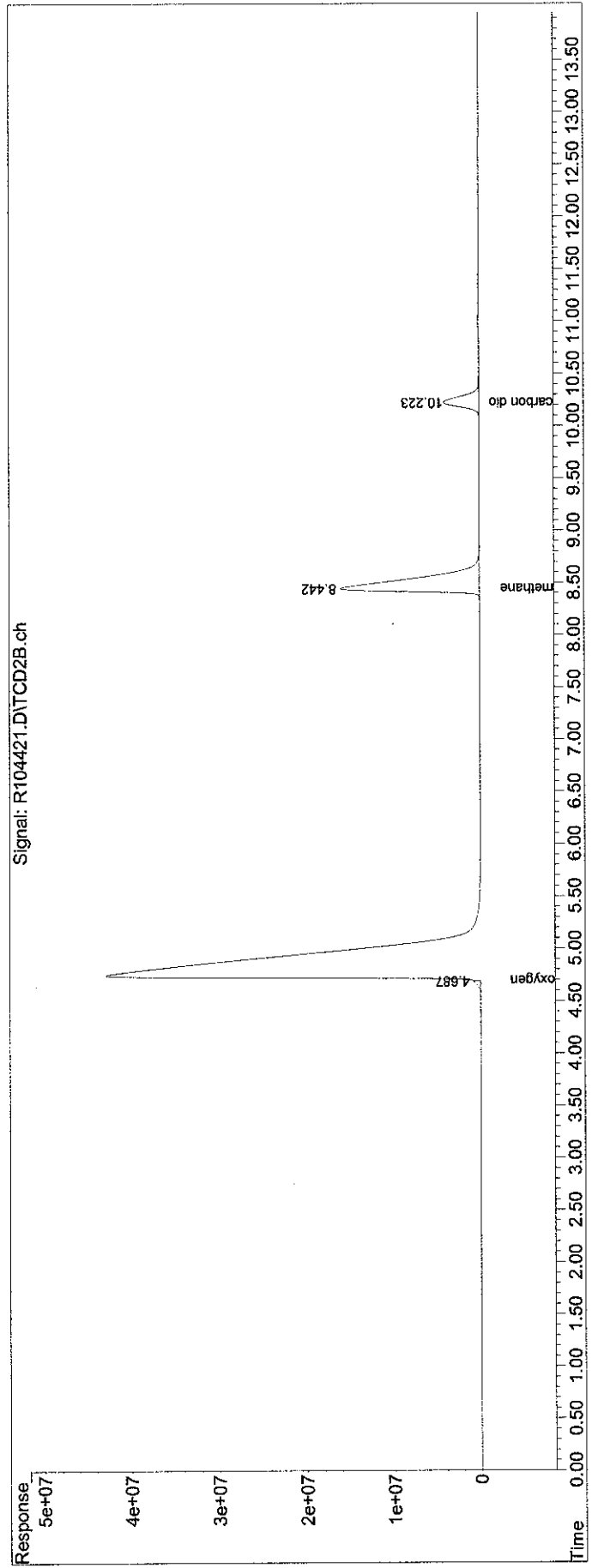


Sub List : CO2,O2,CH4 - .report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\110122fg\
 Data File : R104421.D
 Signal(s) : TCD2B.ch
 Acq On : 22 Jan 2011 5:00 pm
 Operator : airlab10:RY
 Sample : 11100508-03d,4,0.6337,1
 Misc : WG452486,ICAL5222
 ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 22 17:17:22 2011
 Quant Method : O:\Forensics\Data\airlab10\110122fg\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 :

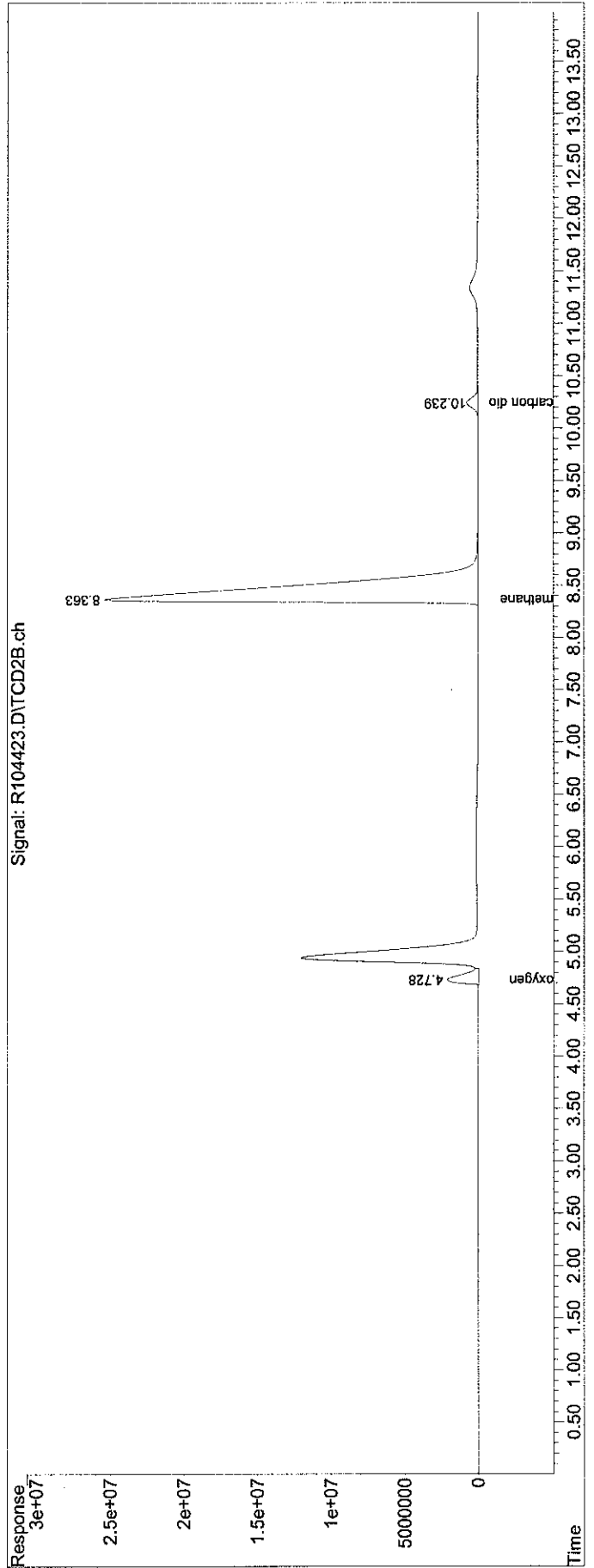


Sub List : CO2,O2,CH4 - .report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\110122fg\
Data File : R104423.D
Signal(s) : TCD2B.ch
Acq On : 22 Jan 2011 5:39 pm
Operator : airlab10:BS
Sample : 11100508-04d,4,0.5857,1
Misc : WG452486,ICAL5222
ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 24 16:04:57 2011
Quant Method : O:\Forensics\Data\airlab10\110122fg\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 :

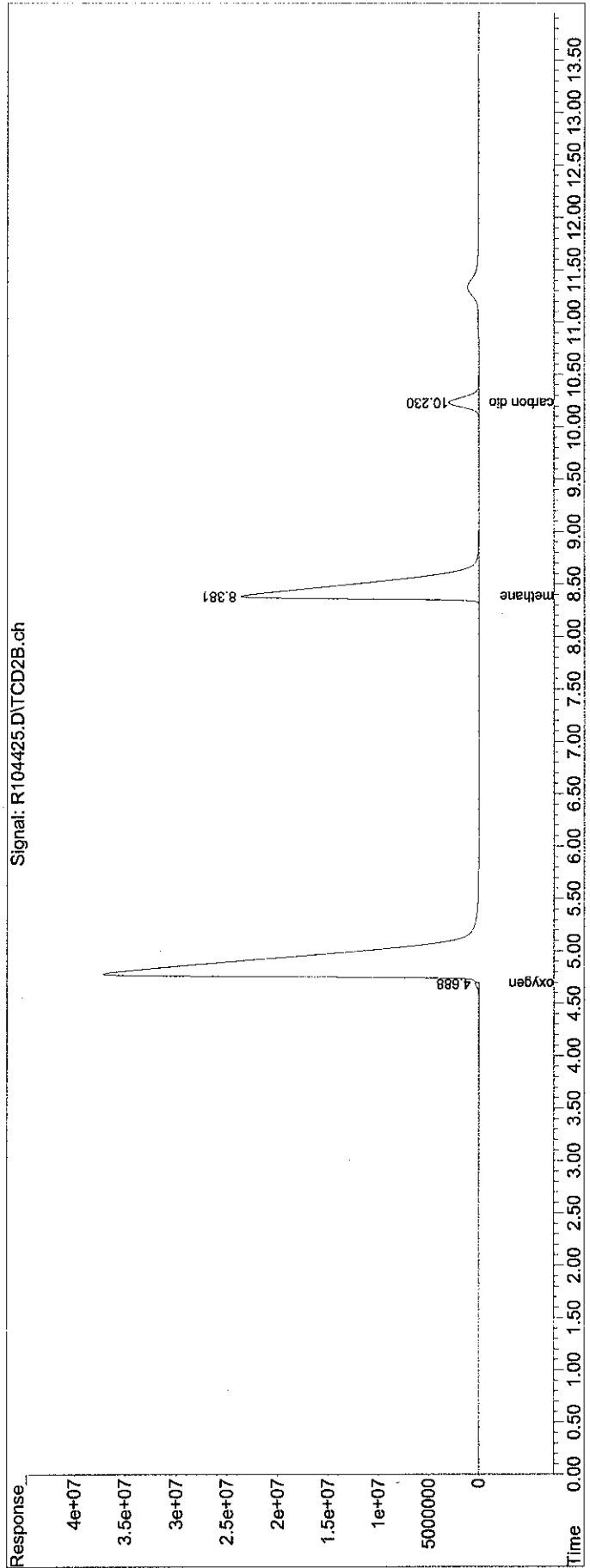


Sub List : CO2,O2,CH4 - .report (QT Reviewed)

Data Path : O:\Forensics\Data\airlab10\110122fg\
Data File : R104425.D
Signal(s) : TCD2B.ch
Acq On : 22 Jan 2011 6:18 pm
Operator : airlab10:BS
Sample : 11100508-05d,4,0.6453,1
Misc : WG452486,ICAL5222
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 24 16:06:10 2011
Quant Method : O:\Forensics\Data\airlab10\110122fg\FG100730.M
Quant Title : Fixed Gas Analysis via Method 3C
QLast Update : Sat Oct 30 10:36:20 2010
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

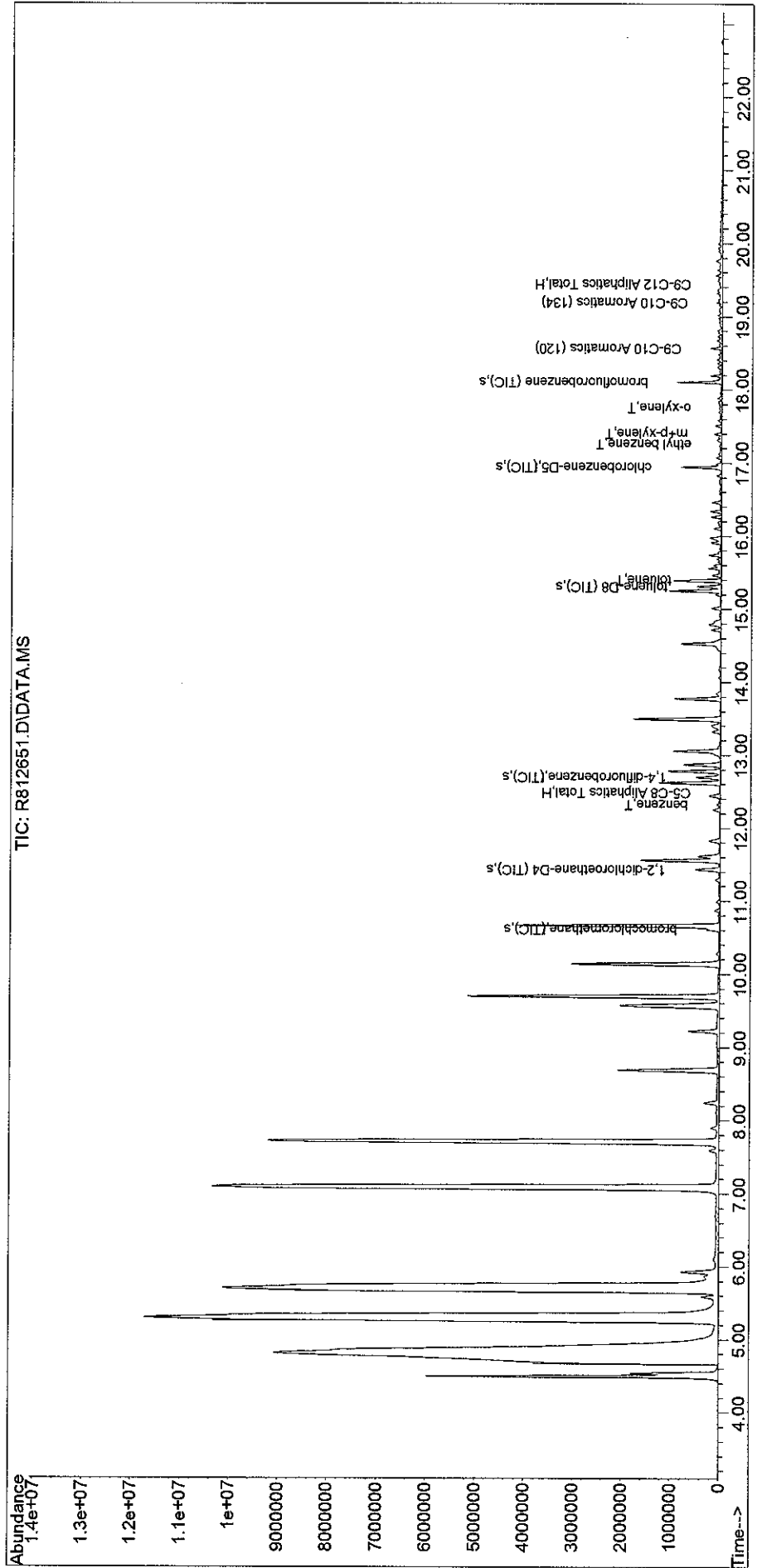


APH

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

Data Path : O:\Forensics\Data\AirLab8\2011\110117A\
Data File : R812651.D
Acq On : 17 Jan 2011 10:38 pm
Operator : AIRLAB8:BS
Sample : L1100508-01D,3,25,250
Misc : WG451825,ICAL5589
ALS Vial : 9 Sample Multiplier: 1

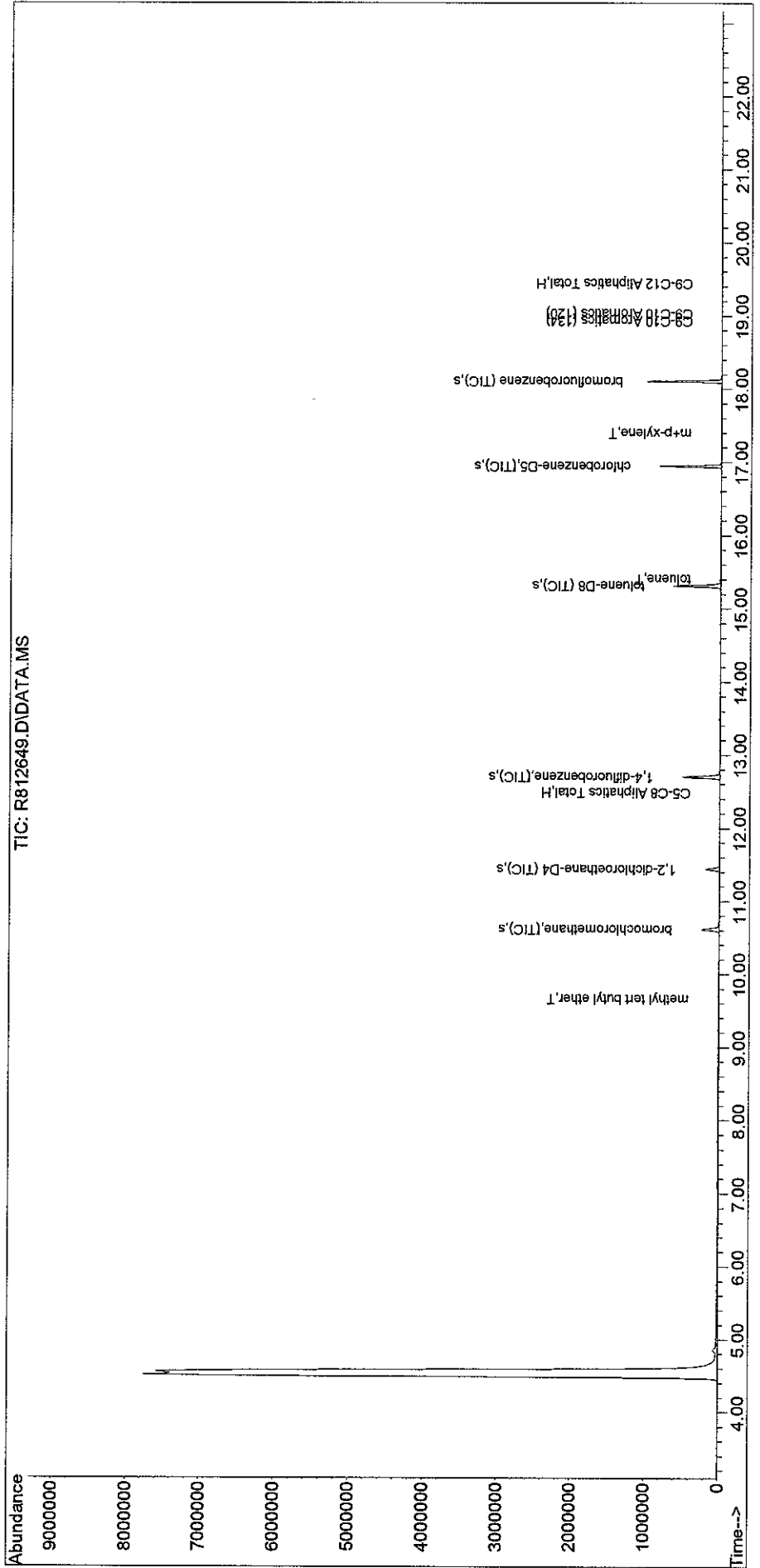
Quant Time: Jan 18 11:17:46 2011
Quant Method : O:\Forensics\Data\AirLab8\2011\110117A\APH110113.M
Quant Title : APH Analysis
Quant Update : Thu Jan 13 16:27:41 2011
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\AirLab8\2011\110117A\
Data File : R812649.D
Acq On : 17 Jan 2011 9:26 pm
Operator : AIRLAB8:BS
Sample : L1100508-02D,3,125,250
Misc : WG451825,ICAL5589
ALS Vial : 8 Sample Multiplier: 1

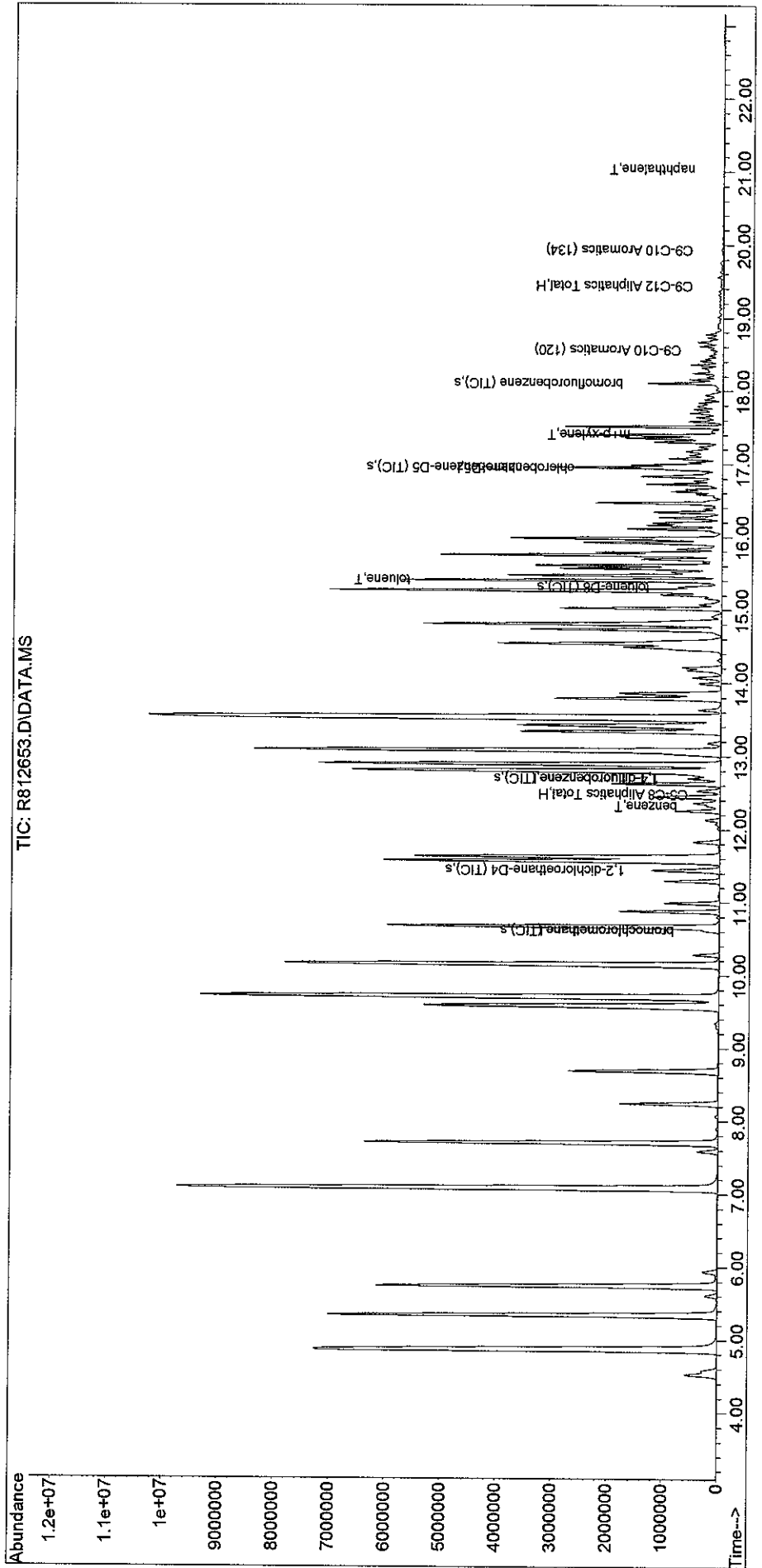
Quant Time: Jan 18 11:16:29 2011
Quant Method : O:\Forensics\Data\AirLab8\2011\110117A\APH110113.M
Quant Title : APH Analysis
QLast Update : Thu Jan 13 16:27:41 2011
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\AirLab8\2011\110117A\
Data File : R812653.D
Acq On : 17 Jan 2011 11:50 pm
Operator : AIRLAB8:BS
Sample : L1100508-03D,3,0.7905,250
Misc : WG451825,ICAL5589
ALS Vial : 11 Sample Multiplier: 1

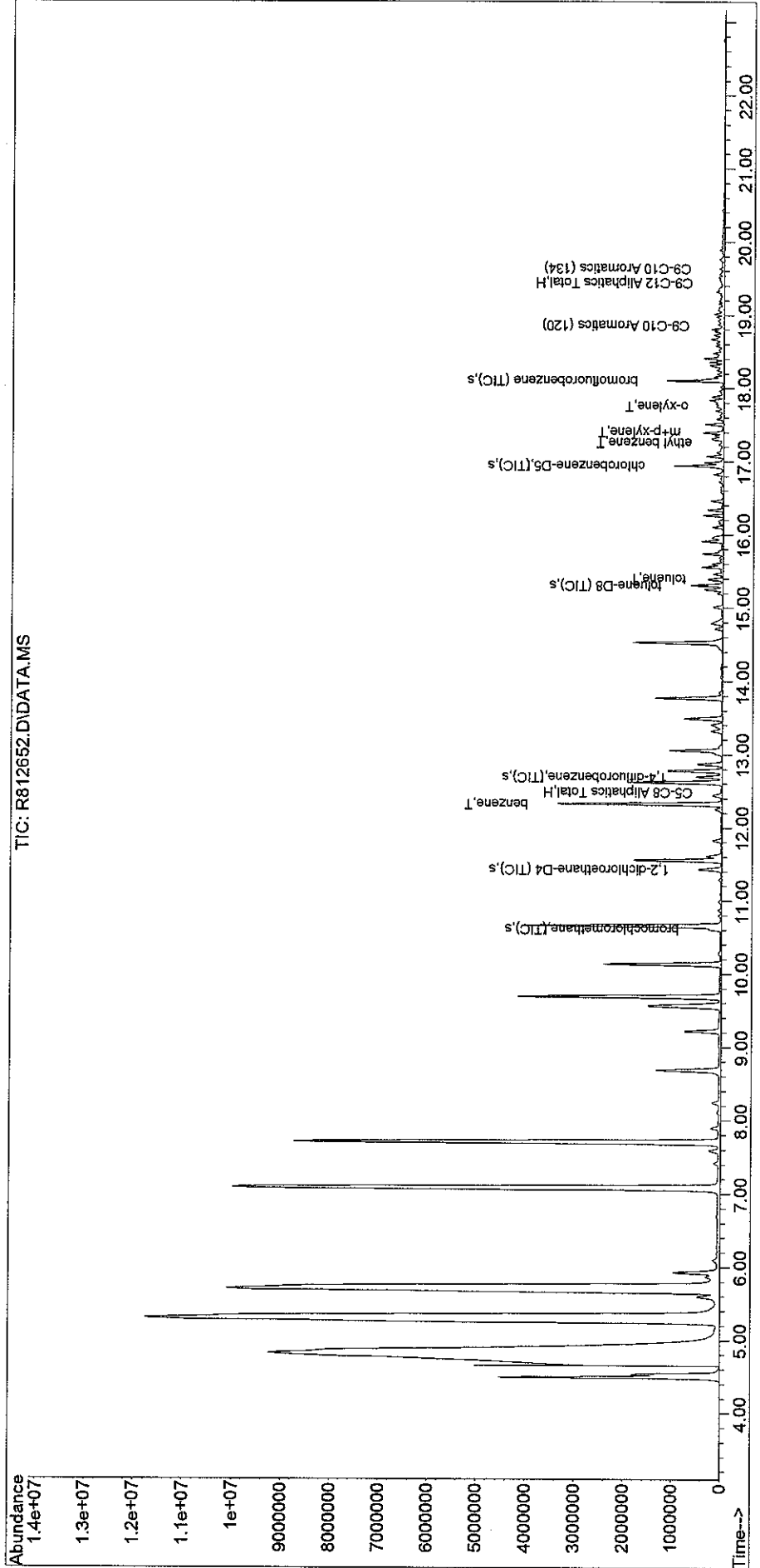
Quant Time: Jan 18 11:20:28 2011
Quant Method : O:\Forensics\Data\AirLab8\2011\110117A\APH110113.M
Quant Title : APH Analysis
QLast Update : Thu Jan 13 16:27:41 2011
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\AirLab8\2011\110117A\
Data File : R812652.D
Acq On : 17 Jan 2011 11:14 pm
Operator : AIRLAB8:BS
Sample : L1100508-04D,3,25,250
Misc : WG451825,ICAL5589
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 18 11:18:32 2011
Quant Method : O:\Forensics\Data\AirLab8\2011\110117A\APH110113.M
Quant Title : APH Analysis
QLast Update : Thu Jan 13 16:27:41 2011
Response via : Initial Calibration



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

Data Path : O:\Forensics\Data\Airlab8\2011\110117A\
Data File : R812654.D
Acq On : 18 Jan 2011 12:26 am
Operator : AIRLAB8:BS
Sample : L1100508-05D,3,0.8050,250
Misc : WG451825, ICA15589
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 18 11:21:44 2011
Quant Method : O:\Forensics\Data\Airlab8\2011\110117A\APH110113.M
Quant Title : APH Analysis
QLast Update : Thu Jan 13 16:27:41 2011
Response via : Initial Calibration

