Atlantic Richfield Company
(a BP affiliated company)

P.O. Box 1257
San Ramon, CA 94583
Phone: (925) 275-3801
Fax: (925) 275-3815

August 2, 2007

Re: Soil Gas Investigation Report and Closure Request
Former Atlantic Richfield Company Station #5387
20200 Hesperian Boulevard
Hayward, CA
ACEH Case No. RO0000174

"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct."

Submitted by:

Paul Supple
Environmental Business Manger

Broadbent & Associates, Inc.
1324 Mangrove Ave., Suite 212
Chico, CA 95926
Voice (530) 566-1400
Fax (530) 566-1401

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

August 2, 2007 Project No. 06-02-628

Atlantic Richfield Company
P.O. Box 1257
San Ramon, California 94583
Submitted via ENFOS

Attn.: Mr. Paul Supple

Re: Soil Gas Investigation Report and Closure Request, Former Atlantic Richfield Company (a BP affiliated company) Station #5387, 20200 Hesperian Boulevard, Hayward, California. ACEH Case No. RO0000174.

Dear Mr. Supple:

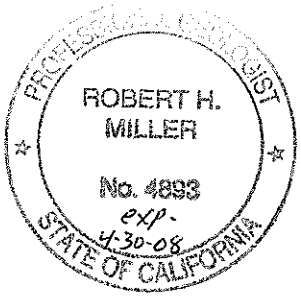
Broadbent & Associates, Inc. (BAI) is pleased to submit this Soil Gas Investigation Report and Closure Request for Station #5387 (herein referred to as Station #5387) located at 20200 Hesperian Boulevard, Hayward, California (Property).

Should you have any questions concerning this Report, please due not hesitate to contact us at (530) 566-1400.

Sincerely,
BROADBENT & ASSOCIATES, INC.

Matthew G. Herrick, P.G.
Project Hydrogeologist

Robert H. Miller, P.G., C.HG.
Principal Hydrogeologist



cc: Mr. Steven Plunkett, Alameda County Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA, 94502 (Submitted via ACEH ftp Site)
Mr. Chris Panaitescu, Thrifty Oil Co., 13116 Imperial Hwy, Santa Fe Springs, CA 90760
Mr. Bobby Lu, Atlantic Richfield Company, 6 Centerpointe Drive, La Palma, CA 90623
Geotracker

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Appendix B: GeoTracker Upload Confirmation

1.0 Introduction

The soil gas investigation was completed to move the site to closure. The Property is currently a non-operational gas station used as a parking lot for a neighboring business and located in an area of mixed commercial and residential use. The property consists of a relatively flat asphalt and concrete covered lot at an elevation of approximately 40 feet above mean sea level. A site location map is provided in Drawing 1.

An initial soil gas investigation was completed by URS in December 2004 and case closure was requested in the URS March 2, 2005 *Soil Gas Investigation Report*. Upon review of the *Soil Gas Investigation Report,* the Alameda County Environmental Health (ACEH) issued an email dated August 23, 2006 stating that they were concerned with data presented in the report. Specifically, the ACEH was concerned with the elevated soil gas concentrations detected in deeper samples and the validity of the soil gas data based on significant discrepancies in duplicate sample concentrations. It was determined that the best course of action to move the site to closure would be to complete the soil gas investigation again.

Soil gas investigation work activities were conducted in accordance with the BAI April 10, 2007 *Soil Gas Investigation Work Plan* and the BAI May 31, 2007 email revising the work plan requirements. The ACEH approved the work activities in their May 2, 2007 letter and their emails dated May 15, 2007 and May 31, 2007.

1.1 Site History

Groundwater Technology Inc. (GTI) drilled four exploratory soil borings (SB-1 through SB-4) and installed three ground-water monitoring wells (MW-1 through MW-3) in August 1986. Between October 1991 and March 1993, GeoStrategies Inc. (GSI) installed three on-site ground-water monitoring wells (A-4 through A-6), four off-site ground-water monitor wells (A-7 through A-10), two ground-water recovery wells (AR-1 and AR-2), one dual air-sparge/vapor extraction well (AS-1), one air sparge well (AS-2), and three vapor extraction wells (AV-1 through AV-3).

Quarterly ground-water monitoring and sampling commenced at Station #5387 in December 1991. A site map with well locations is provided in Drawing 2.

In October 1992, GSI completed step-drawdown and constant rate aquifer tests to determine the feasibility of ground-water extraction and treatment as an interim remedial option. Air-sparge and vapor extraction tests were performed in March and August 1993 to determine the feasibility of air-sparge/vapor extraction as an interim remedial option.

In late 1993 and early 1994 a soil and ground-water remediation system was constructed on the Property. During construction of the remediation system, GSI installed seven additional air-sparge wells (AS-3 through AS-9) and one additional vapor extraction well (AV-4).

In December 1998 a leak was observed from the impact valve of dispenser No. 8. In June 2000, Delta Environmental Consultants, Inc (Delta) completed a hand auger soil boring (HA-1) beneath dispenser No. 8 to a total depth of approximately 13 feet below land surface (bls). Based on the analytical results from soil samples collected from the boring, Delta concluded that the soil beneath dispenser No. 8 was not significantly impacted.

In May/June 2001 Delta completed a well survey within a one mile radius of the site. The results of the survey indicated that no water wells, deeper drinking water aquifers, surface water or other sensitive receptors were likely impacted by the residual petroleum hydrocarbon concentrations that remained at Station #5387. Results of the well survey are included in the URS September 28, 2004 *Active Soil Gas Investigation Work Plan.*

In February 2002 Delta collected soil samples associated with the removal of four underground storage tanks (USTs), product distribution lines, and product dispenser islands (summarized in the March 1, 2002 Delta *Tank Basin, Product Line and Dispenser Island Sampling Results*).

In November 2002 URS completed a 120 hour Dual Phase Extraction (DPE) test from extraction points MW-2, AR-2, and EP-1 (summarized in the April 2, 2003 URS *Results of a Dual Phase Extraction Test*). URS stated that test results showed limited success with DPE in wells MW-2 and AR-1. In December 2003 URS injected hydrogen peroxide in wells AR-1, AR-2, MW-1, MW-2, and A-7. URS concluded that the hydrogen peroxide injection remedial activities did not have a uniform effect on hydrocarbon concentrations in injection wells and the natural attenuation parameters did not exhibit conclusive trends.

Following the peroxide injection remedial activities, URS submitted the June 3, 2004 *Request for Site Closure Status*. The report included a conceptual site model, a quantification of potential risks, and an evaluation of the six criteria for closure as a low-risk ground-water case as listed in the California Regional Water Quality Control Board - San Francisco Region (SFRWQCB) Interim Guidance Document (December 8, 1995). Upon review of the closure request, the ACEH requested that a soil gas investigation be completed on the property based on the presence of petroleum hydrocarbon concentrations detected in influent air samples collected from the dual phase extraction test conducted in 2002. Accordingly, the initial soil gas investigation discussed in the opening paragraphs above was completed.

2.0 Scope of Work

Ten soil gas sample borings (RSG-1 through RSG-10) were installed at a distance of approximately two to three feet from the initial soil gas boring locations completed in 2004. Soil gas borings were installed at the following locations:

- Adjacent to well locations MW-2, AR-2, EP-1, MW-1 and AR-1;
- Adjacent and downgradient of the former UST complex and pump island locations; and
- To the north-northeast and upgradient direction from the UST complex and pump island locations.

These locations provide information for soil gas through a majority of the Property. The soil gas sample locations are presented in Drawing 3.

3.0 Project Setup

In accordance with the current contract with Atlantic Richfield Company, Stratus Environmental, Inc. (Stratus) executed the field work associated with this soil gas investigation (i.e., drilling, gauging, and sampling). Stratus obtained a soil boring permit from the Alameda County Public Works Agency, Water Resources Section prior to initiation of field work. Upon completion of field work Stratus

provided a soil gas sampling data package which included field data sheets, soil gas sampling data table, soil gas sampling calculations, soil boring permit, and chain of custody documentation and certified laboratory analytical results. The Stratus soil gas sampling data package is provided in Appendix A.

4.0 Soil Gas Investigation

4.1 Subsurface Investigation

The soil gas investigation was completed in accordance with guidelines published by the California Regional Water Quality Control Board - Los Angeles Region (LARWQCB) in the February 25, 1997 *Interim Guidance For Active Soil Gas Investigation* and the Department of Toxic Substances Control (DTSC) and the LARWQCB in the January 28, 2003 *Advisory – Active Soil Gas Investigations*. In accordance with the 2003 guidance document, soil gas sampling should not be performed during or immediately after a rainfall event of 0.5 inches or more. No rainfall occurred in the 24 hours prior to commencement of the soil gas sampling activities or during collection of soil gas samples.

As stated above, the soil gas boring locations were relatively close (a distance of two to three feet) from the soil gas boring locations installed in 2004. The locations were installed at least five feet from existing wells to minimize possible dilution caused by drawing surface air through a nearby screened well casing and/or filter pack. Due to safety concerns and the presence of underground utilities, boreholes were cleared with a hand auger to two feet below land surface (bls). Drilling using the direct push method began at two feet bls and proceeded to the target sample depth.

The near surface soils on the Property generally consist of clays extending to depths of approximately three to eight feet below land surface (bls). The clays are underlain by silts and sandy silts extending to depths of 13 to 28 feet bls that are interbedded with occasional clay lenses. The silts grade into sands and gravels at depths greater than 20 feet bls. Ground water is present at approximately 8 to 13 feet bls with the ground-water flow direction toward the west.

A shallow soil gas sample was collected at each location from the less permeable clay layer and a deeper soil gas sample was collected from each location in the more permeable silts and sandy silt layer. With the exception the shallow soil gas sample collected from RSG-10 at 5.5 feet bls, all shallow samples were collected at a depth of 5 feet bls. The deeper soil gas samples were collected at depths ranging from 7 to 10 feet bls.

The borings were advanced using a direct push method. The soil gas sampling probe was pushed to the target depth and the sampling line tubing was installed with a vapor tight valve.
Hydrated bentonite was then placed in the annular space between the drive rod and the maximum hand augered borehole diameter form the surface to 2 feet bls.

4.2 Soil Gas Sampling

A 1-liter Summa® canister was collected at each sample location for analysis by an off-site laboratory. The Summa® canisters were shipped to Severn Trent Laboratory (STL) in Los Angeles, California under high vacuum, leak checked, and batch certified to be free of contaminants.

The initial canister vacuum was measured before use and was approximately 30 inches of mercury (Hg). No canisters were used with initial vacuum of less than 28 inches of Hg. A purge canister

was used to purge a minimum of three volumes (sampling point and tubing) prior to sample collection. Swagelok fittings were used to connect canisters to the tubing. Once the purge canister was connected to the tubing, the sample train was checked for leaks by applying a vacuum for a minimum of 10 minutes. To pass the leak test the pressure in the canister can not drop. All samples passed the 10 minute leak test. Once the leak test was complete, the in-line valve was opened and purging began. Upon completion of purging, the in-line valve was closed and the sample canister was connected to the tubing. The in-line valve was then opened and the sample collected. The sample flow rate did not exceed 200 mL/minute as measured by a flow regulator. Samples were collected until the pressure in the canisters reached approximately 5 inches Hg or 30 minutes had elapsed. PID measurements were also collected from each sample point following sample collection. A summary of the soil gas sampling details discussed in this paragraph are provided in the Stratus soil gas sampling data package included in Appendix A.

A leak test was performed as a further check to make sure significant ambient air was not leaking into the sample train. Prior to sample collection, the leak test compound isopropanol was applied and temporarily secured at locations where ambient air might possibly enter the sampling system including sample system connections, the surface bentonite seal, and the top of the drill rod. The leak test compound isopropanol was included in the laboratory analysis.

A single duplicate sample was collected per field day of work from areas likely to have been impacted by petroleum hydrocarbons. The duplicate samples serve as a means to validate the sample collection methods and laboratory analytical data. Soil gas samples were not chilled.

4.3 Ambient Air Sampling

One ambient air sample was collected at a random on-site location using a Summa® canister and submitted to STL in Los Angeles for analysis to compare soil gas analytical results with ambient air results.

4.4 Laboratory Analysis

Soil gas samples were submitted to STL in Los Angeles and analyzed for gasoline range organics (GRO), benzene, toluene, ethylbenzene, and xylenes (BTEX), and fuel additives methyl tertiary butyl ether (MTBE), ethyl tertiary butyl ether (ETBE), di-isopropyl ether (DIPE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and ethanol by EPA method TO-15. Soil gas samples were also analyzed for oxygen (O_2), carbon dioxide (CO_2), methane, and the leak check compound isopropanol.

Soil matrix samples were collected during the 2004 soil gas investigation and analyzed for physical properties (i.e., specific gravity, soil moisture, hydraulic conductivity, porosity, and grain size distribution) and were therefore not collected for analysis during this investigation.

4.5 Decontamination Procedures

The drive rods, screens, and other reusable components were properly decontaminated to minimize the potential for cross contamination between temporary soil gas sampling points. As outlined in the DTSC and LARWQCB January 28, 2003 Advisory – Active Soil Gas Investigation, these methods include three-stage wash and rinse (i.e., wash equipment with a non-phosphate detergent, rinse with potable water, and a final rinse with distilled water) and/or steam cleaning.

5.0 Results of Investigation

A summary of soil gas sample analytical results is provided in Table 1. A summary of soil gas sample fuel additives analytical results is provided in Table 2. A review of the analytical results from both tables is summarized as follows:

5.1 Shallow Soil Gas Samples

- Ethylbenzene was detected in RSG-10-5.5 at 11 $\mu g/m^3$.
- Total xylenes were detected in RSG-10-5.5 at 39 $\mu g/m^3$.
- TBA was detected in RSG-3-5 and RSG-10-5.5 at 51 $\mu g/m^3$ and 57 $\mu g/m^3$, respectively.
- The duplicate soil gas sample RSG-6-5D was below laboratory detection limits for all analytes which was in agreement with the soil gas sample RSG-6-5.
- The leak detect compound isopropanol was not detected in any of the shallow soil gas samples.

5.2 Deeper Soil Gas Samples

- Toluene was detected in RSG-5-8.5 at 10 $\mu g/m^3$.
- Total xylenes were detected in RSG-5-8.5 at 12 $\mu g/m^3$.
- MTBE was detected in RSG-5-8.5 at 10 $\mu g/m^3$.
- TBA was detected in RSG-3-7, RSG-5-8.5, RSG-6-9.5, RSG-9-10, and RSG-10-10 at concentrations ranging from 37 $\mu g/m^3$ (RSG-9-10) to 72 $\mu g/m^3$ (RSG-6-9.5).
- Both duplicate soil gas samples RSG-2-8.5D and RSG-3-7D were below laboratory detection limits for all analytes. Soil gas sample RSG-2-8.5 was in agreement with the duplicate sample and below laboratory detection limits for all analytes. Aside from the low concentration of TBA detected in RSG-3-7 at 54 $\mu g/m^3$, all other analytes were below laboratory detection limits and in agreement with the duplicate sample.
- The leak detect compound isopropanol was not detected in any of the deeper soil gas samples.

5.3 Ambient Air Sample

- No analytes were detected in the ambient air sample collected on the Property.

6.0 Summary and Recommendations

Soil gas analytical results showed the presence of low concentrations of petroleum hydrocarbons at shallow sample locations RSG-3 and RSG-10 and deeper sample locations RSG-3, RSG-5, RSG-6, RSG-9, and RSG-10. However, all detected concentrations are significantly (orders of magnitude) below the Environmental Screening Levels (ESLs) that were proposed in the April 10, 2007 *Soil Gas Investigation Work Plan*. The proposed ESL's are included in Table 1 as a reference.

Site closure was initially requested in the URS June 3, 2004 *Request for Site Closure* which included a conceptual site model, a quantification of potential risks, and an evaluation of the six criteria for closure as a listed in the SFRWQCB Interim Guidance Document (December 8, 1995). Site closure was again requested in the URS March 2, 2005 *Soil Gas Investigation Report*. The results of the soil gas investigation summarized in this report and the data presented in the June 3, 2004 and the March 2, 2005

reports support regulatory closure of the site. Accordingly, it is recommended that regulatory case closure be granted at the site.

7.0 Closure

This report has been prepared for the exclusive use of Atlantic Richfield Company. Findings presented in this report are based upon: observations of Stratus Environmental, Inc. field personnel and/or their subcontractor(s) (see Appendix A), the points investigated, and results of laboratory tests performed by Severn Trent Laboratory, in Los Angeles, California. Services were performed in accordance with the generally accepted standard of practice at the time this report was written. No warranty, expressed or implied, is intended. It is possible that variations in the soil, soil gas, or ground-water conditions could exist beyond the points explored in this investigation. Also, changes in site conditions could occur at some time in the future due to variations in rainfall, temperature, regional water usage, or other factors.

References:

Broadbent & Associates, Inc. April 10, 2007. Soil *Gas Investigation Work Plan.*

California Regional Water Quality Control Board, Los Angeles Region. February 25, 1997. *Interim Guidance for Active Soil Gas Investigation.*

Delta Environmental Consultants, Inc. March 1, 2002. *Tank Basin, Product Line and Dispenser Island Sampling Results.*

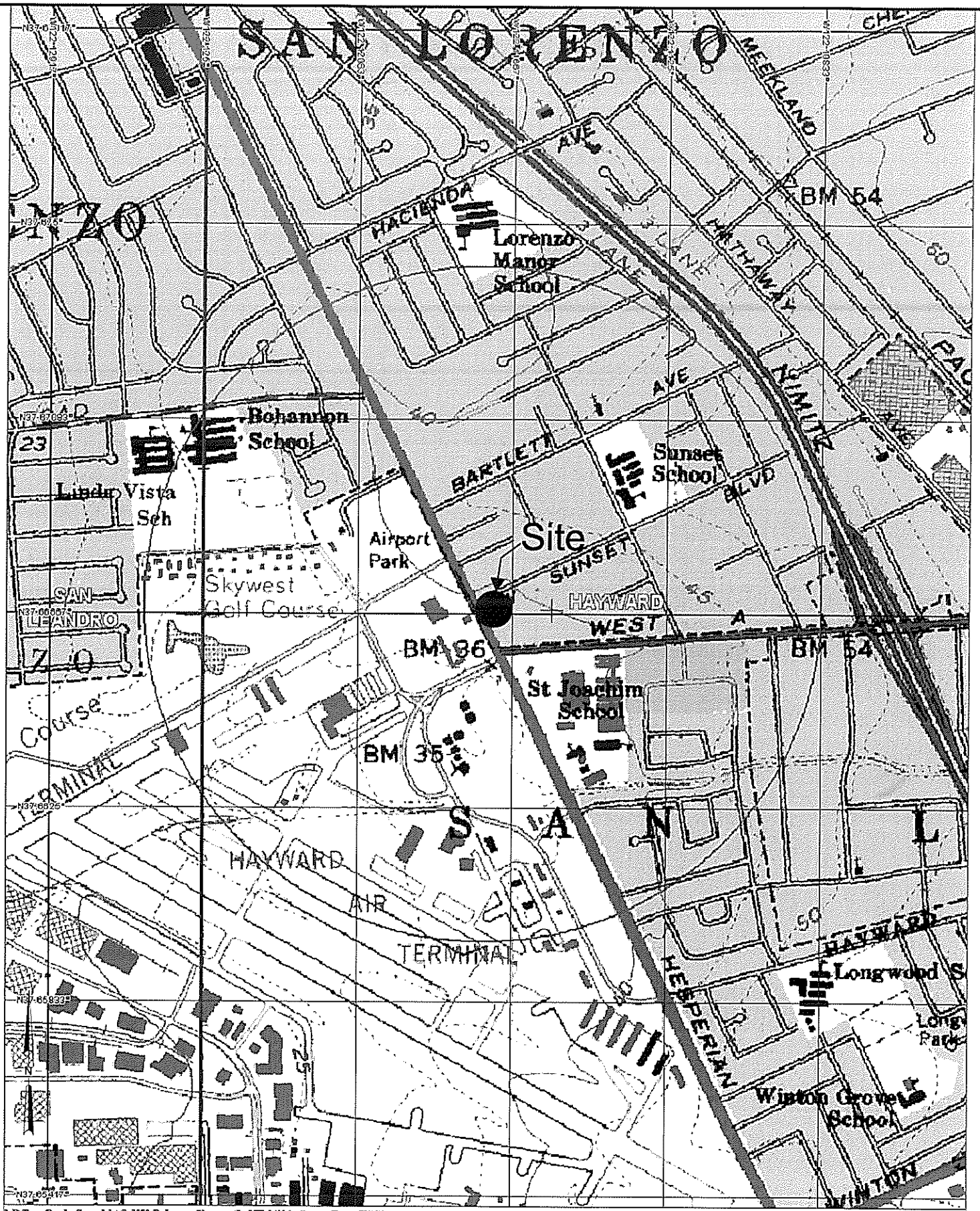
Department of Toxic Substances Control and California Regional Water Quality Control Board, Los Angeles Region. January 28, 2003. *Advisory – Active Soil Gas Investigations.*

URS. April 2, 2003. *Results of a Dual Phase Extraction Test.*

URS. June 3, 2004. *Request for Site Closure Status.*

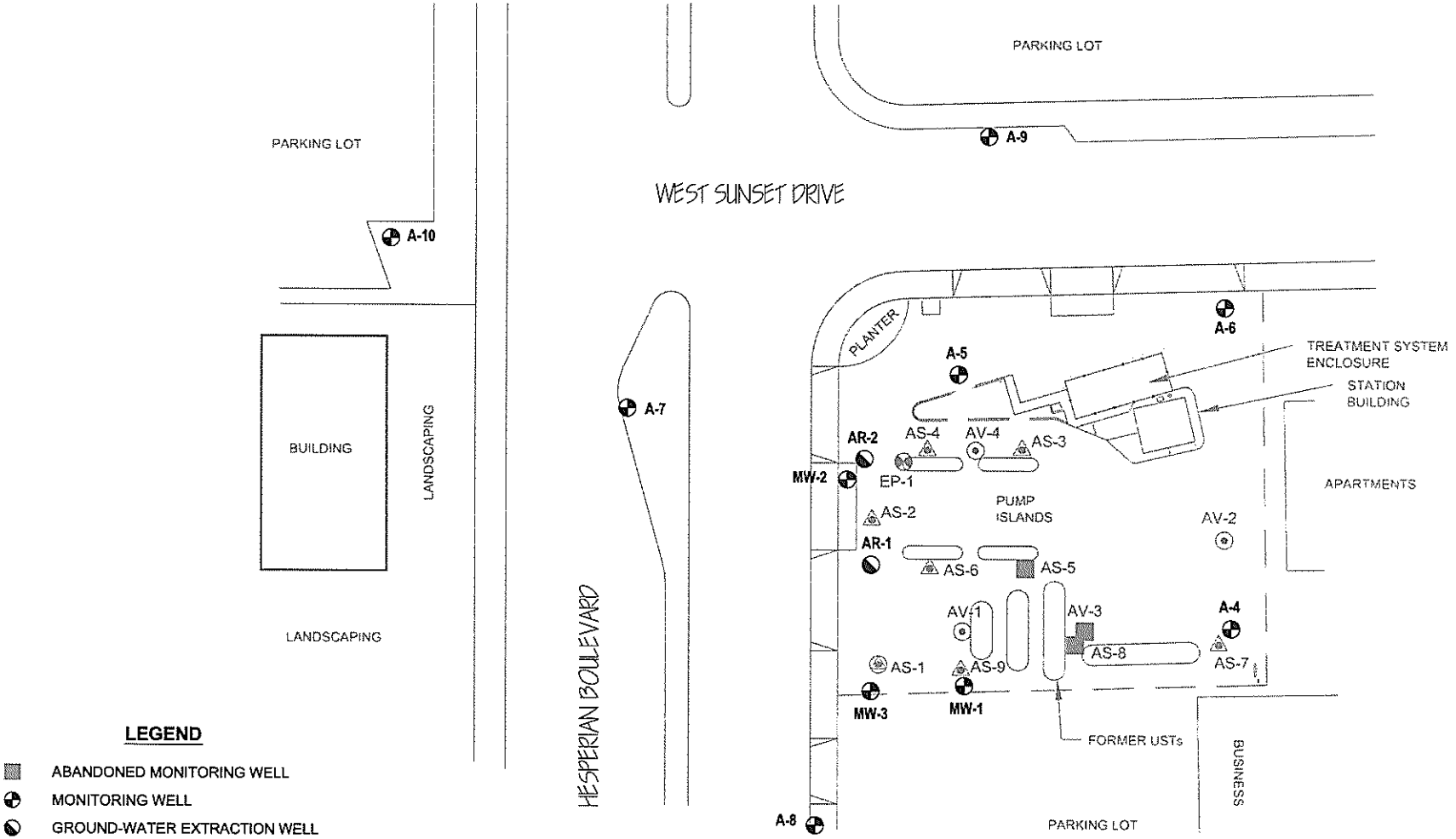
URS. September 28, 2004. *Active Soil Gas Investigation Work Plan.*

URS. March 2, 2005. *Soil Gas Investigation Report.*



3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS 350 ft Scale: 1 : 12,000 Detail: 14-1 Datum: NAD27

BROADBENT & ASSOCIATES, INC. ENGINEERING, WATER RESOURCES & ENVIRONMENTAL 1324 Mangrove Ave. Suite 212, Chico, California 95926 Project No.: 06-02-628 Date: 3/15/2007	Station #5387 20200 Hesperian Boulevard Hayward, California	Site Location Map	Drawing 1



LEGEND

- ABANDONED MONITORING WELL
- MONITORING WELL
- GROUND-WATER EXTRACTION WELL
- AIR SPARGE WELL
- DUAL AIR SPARGE/SOIL VAPOR EXTRACTION WELL
- EXTRACTION POINT

NOTE: SITE MAP ADAPTED FROM IT CORPORATION FIGURES.
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

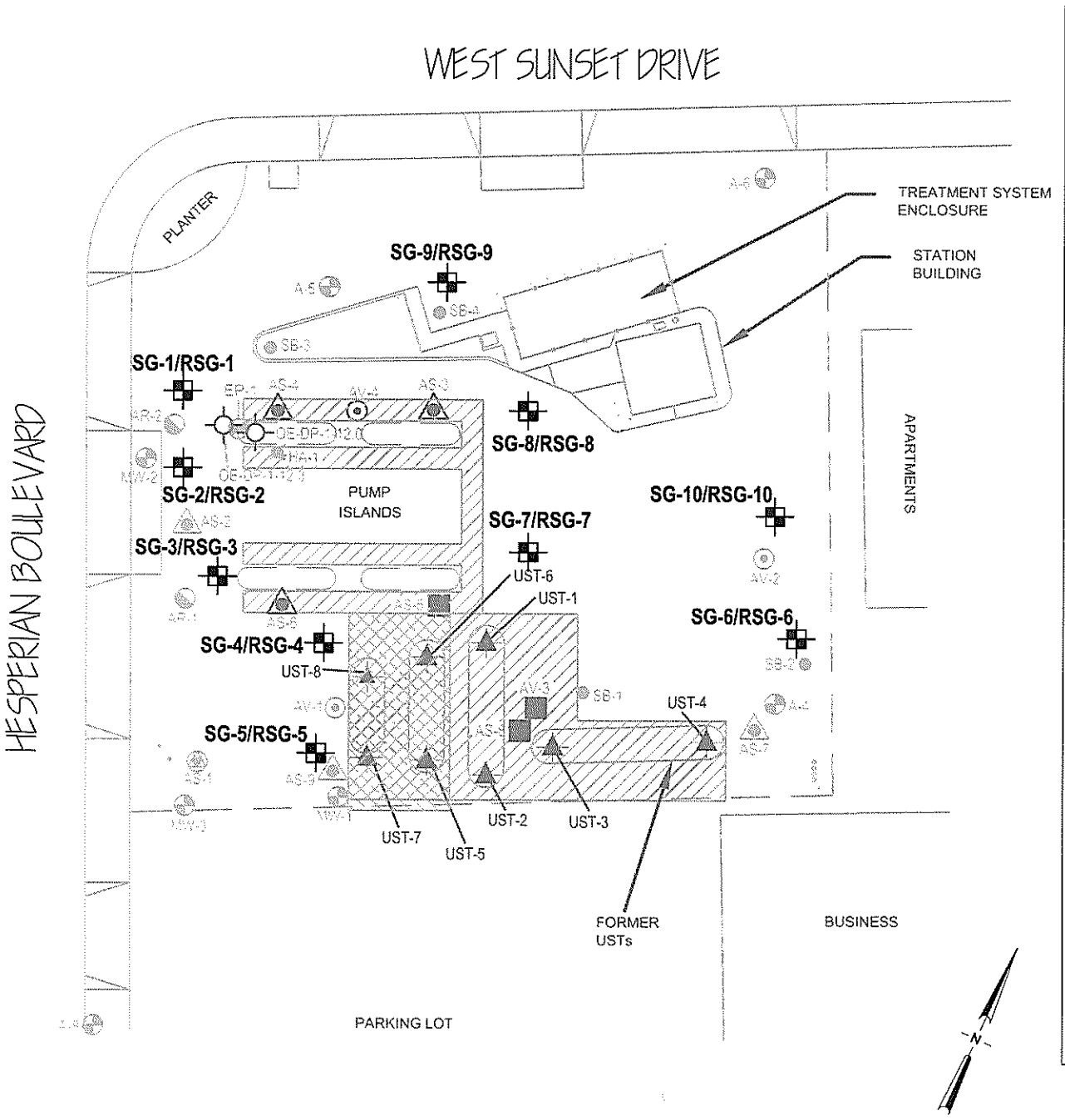
0 50 100
SCALE (ft)

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
1324 Mangrove Ave. Suite 212, Chico, California, 95926
Project No.: 06-02-628 Date: 7/25/07

Former Station #5387
20200 Hesperian Boulevard
Hayward, California

Site Map with Well Locations

Drawing
2



LEGEND

- SOIL GAS SAMPLE LOCATION 2004 / SAMPLE LOCATION 2007
- ABANDONED MONITORING WELL
- MONITORING WELL
- GROUND-WATER EXTRACTION WELL
- SOIL VAPOR EXTRACTION WELL
- AIR SPARGE WELL
- DUAL AIR SPARGE/SOIL VAPOR EXTRACTION WELL
- AIR SPARGE WELL (DELTA ENVIRONMENTAL, 2000)
- SOIL BORING LOCATION
- EXTRACTION POINT
- OVER-EXCAVATION SOIL SAMPLE (DELTA ENVIRONMENTAL, 2002)
- TANK BASIN SOIL SAMPLE (DELTA ENVIRONMENTAL, 2002)
- AREA OF OVER-EXCAVATION DURING REPLACEMENT OF TANKS/PRODUCT LINES/DISPENSER PUMPS (DELTA ENVIRONMENTAL, 2002)
- AREA OF SOIL EXCAVATION DURING REPLACEMENT OF TANKS/PRODUCT LINES/DISPENSER PUMPS (DELTA ENVIRONMENTAL, 2002)

NOTES: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES.
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

0 30 60
SCALE (ft)

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
1324 Mangrove Ave. Suite 212, Chico, California 95926
Project No.: 06-02-628 Date: 7/23/2007

Station #5387
20200 Hesperian Boulevard
Hayward, California

Site Map with Historical Sample Locations and Soil Gas Sample Locations

Drawing 3

Table 1. Summary of Soil Gas Sample Analytical Data
Station#5387, Hayward, California

Soil Gas Sample Identification	Date Sampled	Sample Depth (ft bls)	Benzene[1] (µg/m^3)	Toluene[1] (µg/m^3)	Ethyl-benzene[1] (µg/m^3)	Total Xylenes[1] (µg/m^3)	Gasoline Range Organics* (µg/m^3)	MTBE[1] (µg/m^3)	Isopropanol[2] (ug/m^3)	Carbon Dioxide %(v/v)	Methane %(v/v)	Oxygen %(v/v)
RSG-1-5	06/13/07	5.0	<7.7	<9.0	<10	<10	<7,300	<8.6	<28	**0.079**	**0.00036**	**39**
RSG-1-7	06/13/07	7.0	<7.9	<9.3	<11	<11	<7,300	<8.9	<29	**0.35**	<0.00036	**21**
RSG-2-5	06/13/07	5.0	<12	<14	<17	<17	<10,000	<14	<45	**0.28**	<0.00050	**21**
RSG-2-8.5	06/13/07	8.5	<8.2	<9.6	<11	<11	<8,000	<9.2	<30	**0.12**	**0.00044**	**22**
RSG-2-8.5D	06/13/07	8.5	<8.7	<10	<12	<12	<8,600	<9.8	<32	**0.12**	**0.00044**	**21**
RSG-3-5	6/12/2007	5.0	<8.1	<9.4	<11	<11	<7,200	<9.1	<30	**0.061**	<0.00035	**21**
RSG-3-7	6/12/2007	7.0	<8.6	<10	<12	<12	<7,500	<9.6	<32	**0.075**	<0.00037	**22**
RSG-3-7D	6/12/2007	7.0	<11	<12	<14	<14	<7,400	<12	<39	**0.078**	**0.00036**	**37**
RSG-4-5	6/12/2007	5.0	<7.2	<8.5	<9.8	<9.8	<6,800	<8.1	<27	**5.6**	**0.00058**	**5.5**
RSG-4-8.5	6/12/2007	8.5	<7.6	<8.8	<10	<10	<7,300	<8.5	<28	**6.8**	<0.00035	**2.6**
RSG-5-5	6/12/2007	5.0	<6.5	<7.6	<8.8	<8.8	<8,100	<7.3	<24	**0.067**	<0.00039	**22**
RSG-5-8.5	6/12/2007	8.5	<7.3	**10**	<9.9	**12**	<7,700	**10**	<27	**0.25**	<0.00037	**21**
RSG-6-5	6/11/2007	5.0	<9.5	<11	<13	<13	<8,000	<11	<35	**0.055**	<0.00039	**22**
RSG-6-5D	6/11/2007	5.0	<8.5	<10	<12	<12	<8,100	<9.6	<31	**0.053**	<0.00040	**21**
RSG-6-9.5	6/11/2007	9.5	<7.2	<8.5	<9.8	<9.8	<7,900	<8.1	<27	**0.32**	<0.00039	**21**
RSG-7-5	6/12/2007	5.0	<6.4	<7.5	<8.7	<8.7	<8,600	<7.2	<24	**0.074**	<0.00042	**22**
RSG-7-10	6/12/2007	10.0	<6.4	<7.5	<8.7	<8.7	<8,000	<7.2	<24	**0.087**	<0.00039	**42**

Table 1. Summary of Soil Gas Sample Analytical Data
Station#5387, Hayward, California

Soil Gas Sample Identification	Date Sampled	Sample Depth (ft bls)	Benzene[1] ($\mu g/m^3$)	Toluene[1] ($\mu g/m^3$)	Ethyl-benzene[1] ($\mu g/m^3$)	Total Xylenes[1] ($\mu g/m^3$)	Gasoline Range Organics* ($\mu g/m^3$)	MTBE[1] ($\mu g/m^3$)	Isopropanol[2] (ug/m^3)	Carbon Dioxide %(v/v)	Methane %(v/v)	Oxygen %(v/v)
RSG-8-5	6/11/2007	5.0	<12	<14	<17	<17	<8,300	<14	<45	**0.056**	<0.00041	**22**
RSG-8-9	6/11/2007	9.0	<7.9	<9.3	<11	<11	<8,600	<8.9	<29	**2.2**	**0.00044**	**16**
RSG-9-5	6/11/2007	5.0	<7.0	<8.2	<9.5	<9.5	<7,800	<7.8	<26	**0.052**	<0.00038	**22**
RSG-9-10	6/11/2007	10.0	<7.2	<8.4	<9.7	<9.7	<7,800	<8.1	<26	**3.2**	<0.00038	**18**
RSG-10-5.5	6/11/2007	5.5	<6.4	<7.5	**11**	**39**	<7,300	<7.2	<24	**0.071**	**0.00045**	**22**
RSG-10-10	6/11/2007	10.0	<7.2	<8.5	<9.8	<9.8	<8,300	<8.1	<27	**0.059**	<0.00040	**22**
Ambient Air	6/11/2007	---	<11	<13	<16	<16	<12,000	<13	<42	**0.042**	<0.00057	**22**
Environmental Screening Levels[3]			850	630,000	4,200,000	1,500,000	260,000	94,000	---	---	---	---

Notes:

* = Gasoline Range Organics (C4-C12)

[1] = Laboratory qualifier DH: Reporting limits elevated due to insufficient sample quantity

[2] = Isopropanol was used as the leak detection compound during the soil gas sampling

[3] = As proposed in the April 10, 2007 *Soil Gas Investigation Work Plan*

MTBE = Methyl tert-butyl ether

< = Not detected at or above specified laboratory reporting limit

$\mu g/m^3$ = Micrograms per cubic meter

Bold = detected above the laboratory reporting limit

Duplicate Soil Gas Sample

Table 2. Summary of Soil Gas Sample Fuel Additives Analytical Data
Station#5387, Hayward, California

Soil Gas Sample Identification	Date Sampled	Sample Depth (ft bls)	ETBE[1] ($\mu g/m^3$)	DIPE[1] ($\mu g/m^3$)	TAME[1] ($\mu g/m^3$)	TBA[1] ($\mu g/m^3$)	Ethanol ($\mu g/m^3$)	MTBE[1] ($\mu g/m^3$)
RSG-1-5	06/13/07	5.0	<10	<10	<10	<36	<90	<8.6
RSG-1-7	06/13/07	7.0	<10	<10	<10	<38	<93	<8.9
RSG-2-5	06/13/07	5.0	<16	<16	<16	<58	<140	<14
RSG-2-8.5	06/13/07	8.5	<11	<11	<11	<39	<96	<9.2
RSG-2-8.5D	06/13/07	8.5	<11	<11	<11	<41	<100	<9.8
RSG-3-5	6/12/2007	5.0	<11	<11	<11	**51**	<94	<9.1
RSG-3-7	6/12/2007	7.0	<11	<11	<11	**54**	<100	<9.6
RSG-3-7D	6/12/2007	7.0	<14	<14	<14	<50	<120	<12
RSG-4-5	6/12/2007	5.0	<9.4	<9.4	<9.4	<34	<85	<8.1
RSG-4-8.5	6/12/2007	8.5	<9.8	<9.8	<9.8	<36	<88	<8.5
RSG-5-5	6/12/2007	5.0	<8.4	<8.4	<8.4	<31	<76	<7.3
RSG-5-8.5	6/12/2007	8.5	<9.5	<9.5	<9.5	**43**	<86	**10**
RSG-6-5	6/11/2007	5.0	<12	<12	<12	<45	<110	<11
RSG-6-5D	6/11/2007	5.0	<11	<11	<11	<40	<100	<9.6
RSG-6-9.5	6/11/2007	9.5	<9.4	<9.4	<9.4	**72**	<85	<8.1
RSG-7-5	6/12/2007	5.0	<8.3	<8.3	<8.3	<30	<75	<7.2
RSG-7-10	6/12/2007	10.0	<8.3	<8.3	<8.3	<30	<75	<7.2
RSG-8-5	6/11/2007	5.0	<16	<16	<16	<58	<140	<14
RSG-8-9	6/11/2007	9.0	<10	<10	<10	<38	<93	<8.9
RSG-9-5	6/11/2007	5.0	<9.1	<9.1	<9.1	<33	<82	<7.8
RSG-9-10	6/11/2007	10.0	<9.3	<9.3	<9.3	**37**	<84	<8.1
RSG-10-5.5	6/11/2007	5.5	<8.3	<8.3	<8.3	**57**	<75	<7.2
RSG-10-10	6/11/2007	10.0	<9.4	<9.4	<9.4	**40**	<85	<8.1
Ambient Air	6/11/2007	---	<15	<15	<15	<54	<130	<13

Notes:

[1] = Laboratory qualifier DH: Reporting limits elevated due to insufficient sample quantity

< = Not detected at or above specified laboratory reporting limit

ETBE = Tert-butyl ethyl ether

DIPE = Diisopropyl ether

TAME = Tert-amyl methyl ether

TBA = tert-Butyl alcohol

MTBE = Methyl tert-butyl ether

$\mu g/m^3$ = Micrograms per cubic meter

Bold = detected above the laboratory reporting limit

= Duplicate Soil Gas Sample

Appendix A:

Stratus Environmental, Inc. Soil Gas Investigation Data Package (Includes Field Data Sheets, Soil Gas Sampling Data Table (Table 1), Soil Gas Sampling Calculations, and Laboratory Report and Chain of Custody Documentation)

STRATUS
ENVIRONMENTAL, INC.

3330 Cameron Park Drive, Ste 550
Cameron Park, California 95682
(530) 676-6004 ~ Fax: (530) 676-6005

July 10, 2007
Project No. E5387-01

Mr. Matt Herrick
Broadbent & Associates, Inc.
2000 Kirman Avenue
Reno, NV 89502

Re: Soil Gas Sampling Data Package, Former Arco Service Station No. 5387, located at 20200 Hesperian Boulevard, Hayward, California (Sampling activities performed June 11-13, 2007)

General Information

Data Submittal Prepared / Reviewed by: Collin Fischer / Scott Bittinger
Phone Number: (530) 676-2062
On-Site Supplier Representative: Scott Bittinger
Date: May 30, 2007
Arrival: 07:20 *Departure:* 08:35
Weather Conditions: Clear
Unusual Field Conditions: None
Scope of Work Performed: Safety meeting. Mark boring locations and locate underground utilities. Discussed work with occupant of property.
Variations from Work Scope: None noted

On-Site Supplier Representative: Allan Dudding
Date: June 8, 2007
Arrival: 07:30 *Departure:* 07:45
Weather Conditions: Clear
Unusual Field Conditions: None
Scope of Work Performed: Check for USA utility markings.
Variations from Work Scope: None noted

On-Site Supplier Representative: Collin Fischer
Date: June 11, 2007
Arrival: 08:00 *Departure:* 17:00
Weather Conditions: Sunny and Clear
Unusual Field Conditions: None

Scope of Work Performed: Safety meeting. Collect shallow and deep soil gas samples at 4 locations onsite (RSG-6, RSG-8, RSG-9 and RSG-10) using the direct push method and summa canisters. See attached table for exact depths. 1 ambient air sample was taken as well as a sample duplicate of RSG-6.
Variations from Work Scope: None noted

On-Site Supplier Representative: Collin Fischer
Date: June 12, 2007
Arrival: 06:50 *Departure:* 15:45
Weather Conditions: Sunny and Clear
Unusual Field Conditions: None
Scope of Work Performed: Safety meeting. Collect shallow and deep soil gas samples at 4 locations onsite (RSG-3, RSG-4, RSG-5 and RSG-7) using the direct push method and summa canisters. A sample duplicate was taken of RSG-3.

On-Site Supplier Representative: Collin Fischer
Date: June 13, 2007
Arrival: 07:30 *Departure:* 12:30
Weather Conditions: Sunny and Clear
Unusual Field Conditions: None
Scope of Work Performed: Safety meeting. Collect shallow and deep soil gas samples at 2 locations onsite (RSG-1 and RSG-2) using the direct push method and summa canisters. A sample duplicate was taken of RSG-2.

Chemical Analyses: Soil gas samples were submitted to lab for chemical analysis.

Waste Disposal: No waste material was left onsite.

This submittal presents the tabulation of data collected in association with collections of soil gas samples. The attachments include field data sheets, Soil Gas Sampling Data Table (Table 1), Soil Gas Sampling Calculations, Chain of Custody documentation, and certified analytical results. The information is being provided to BP-ARCO's Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does not include data interpretation or conclusions or recommendations. Any questions concerning this submittal should be addressed to the Preparer/Reviewer identified above.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Scott Bittinger

Scott G. Bittinger, P.G.
Senior Geologist

Attachments:

- Field Data Sheets
- Soil Gas Sampling Data Table (Table 1)
- Soil Gas Sampling Calculations
- Chain of Custody Documentation
- Certified Analytical Results

CC: Mr. Paul Supple, BP/ARCO

Former Arco Station 5387, Hayward 5-30-07

Onsite 7:20 to mark borings & locate underground utilities.
Site is currently used as a parking lot for airport Home Appliance, located immediately South of the site 20286 Hesperian Blvd.

Cruz Brothers locator arrives at 7:25
Cloudy, 55°/60°
I spoke with Carol Clark, store manager of Airport Appliance. She indicated that beginning June 13 or 14, they will be placing fence around the property prior to a "parking lot sale".
I told her that we would work around their needs.

Approximately 3 drilling locations on concrete.

Cruz Bros. unable to locate PVC pipe that leads from select wells to remediation compound

Offsite 8:35

Scott Battey
Strahs Environmental, Inc.

06/11/07
Sunny
Clear

ARCO ~~[illegible]~~ 5387

0530 left office
0600 arrive
0615 safety meeting
0845 start on RSG-9-5'
0910 Bentonite in.
0927 leak test start, 0937 finish passed
0943 Purge start 5 mins 200ml/min 1000ml => 1L (.54 calculated) [above: 1048 stop]
0950 sampling start -30 mm/hg 0955 sample stop -5 mm/hg

→ GW in @ => 11'6"

1015 Bentonite in RSG-9-10' 1020 Steven Plunket arrives ACEH
1046 leak test start 1056 finish
1043 Purge start 5 mins 200ml/min = 1000ml => 1L (.67 calculated)
1102 sample start 1102 -28 finish 1108 -5
1115 -> Matt [illegible] arrives from [illegible]. See attached for details on the rest of the samples.
1200 Purge start 5 min 200ml/min 1000ml = 1L
1305 move to RSG-6
1415 move to RSG-8
1641 Done on RSG-8, clean up.
1700 offsite

* 10 minute leak test performed on sample [illegible] locations, shallow & deep.

Colin Fiscalon
[signature]
Stratus Env. Inc.

06/12/07

Sunny
Clear

ARCO 5387

AMBIENT AIR SAMPLING UPWIND OF RSG-6 ON 06/11/07 225-290

0545 -> LEAK HOUSE

0650 -> ONSITE, CALL FROM CONCRETE CUTTER, SHOULD BE THERE SHORTLY

0700 -> CONCRETE CUTTER ARRIVES, DEL SECO DIAMOND CORE & SAW.

STEVE

0715 AFTER SAFETY MEETING, WAIT FOR GREGG FOR SNOW FENCE, SETS UP ON MEANTIME

0730 GREGG BRINGS TRAILER, DEL SECO STARTS

0815 START PUSHING ON RSG-7, DEL SECO IS FINISHING UP.

(5' & 10')

- BENTONITE SET FOR 20 MINUTES
- 10 MINUTE LEAK TEST ON SAMPLE TRAIN
- PER ALL TUBES.

0840 DEL SECO OFFSITE

0945 MOVE TO RSG-5 (5' & 8.5')

1125 MOVE TO RSG-4 (5' & 8.5')

1321 MOVE TO RSG-3 (5' & 7' + 7' DUPLICATE)

1513 DONE W/ RSG-3, & CLEANUP; WILL DO RSG-2 & RSG-1 06/13/07

1545 OFFSITE

COLLIN FISCHER

08/13/07
Sunny
Calm

ALLO 5387

0630 LEFT HOUSE

0730 ONSITE, SAFETY MEETING

0802 START ON RSG-1

20 MINUTE BENTONITE SEAL
10 MINUTE LEAK TEST
FOR ALL HOLES

0940 START ON RSG-2, DUPLICATE TAKEN @ DEEP LOCATION
5' → 30 MINUTES ELAPSED, STOPPED W/ ~10 MM/HG
8.5' → WENT SMOOTHLY.

1130 → DONE W/ RSG-2, CLEAN UP.

1230 OFFSITE

COLLIN FISCHER

STRATUS ENVIRONMENTAL, INC.

Table 1
Soil Gas Sampling Data Table
Former Arco Service Station No. 5387
20200 Hesperian Boulevard, Hayward CA

Sample ID	Date	Depth (ft)	Purge start time	Purge stop time	Sample start time	Sample starting vacuum (mm/Hg)	Sample stop time	Sample ending vacuum (mm/Hg)	10 minute vacuum test	Sample canister number	PID
RSG-9-5	06/11/07	5	9:43	9:48	9:50	-30.00	9:55	-5.00	pass	1865D	0
RSG-9-10	06/11/07	10	10:56	11:01	11:02	-28.00	11:08	-5.00	pass	1855D	0
RSG-10-5.5	06/11/07	5.5	11:59	12:04	12:04	-29.00	12:11	-5.00	pass	1842D	0
RSG-10-10	06/11/07	10	12:48	12:53	12:53	-29.00	12:58	-5.00	pass	1873D	0
RSG-6-5	06/11/07	5	13:49	13:54	13:55	-29.00	14:03	-5.00	pass	1883D	0
RSG-6-5D	06/11/07	5	13:49	13:54	13:55	-29.00	14:03	-5.00	pass	1876D	0
RSG-6-9.5	06/11/07	9.5	14:36	14:41	14:41	-28.00	14:49	-5.00	pass	1866D	0
Ambient Air	06/11/07	N/A	N/A	N/A	N/A	-30.00	N/A	-5.00	pass	1850D	0
RSG-8-5	06/11/07	5	15:40	15:45	15:45	-30.00	15:49	-5.00	pass	1870D	0
RSG-8-9	06/11/07	9	16:18	16:23	16:23	-30.00	16:29	-5.00	pass	1869D	0
RSG-7-5	06/12/07	5	8:40	8:45	8:46	-30.00	8:52	-5.00	pass	1867D	0
RSG-7-10	06/12/07	10	9:25	9:30	9:31	-30.00	9:37	-5.00	pass	1845D	0
RSG-5-5	06/12/07	5	10:21	10:26	10:27	-30.00	10:32	-5.00	pass	1863D	0
RSG-5-8.5	06/12/07	8.5	10:59	11:04	11:04	-30.00	11:10	-5.00	pass	1880D	0
RSG-4-5	06/12/07	5	12:02	12:07	12:07	-30.00	12:12	-5.00	pass	1846D	0
RSG-4-8.5	06/12/07	8.5	12:46	12:55	12:55	-30.00	13:00	-5.00	pass	1844D	0
RSG-3-5	06/12/07	5	14:00	14:05	14:05	-29.00	14:10	-5.00	pass	1853D	0
RSG-3-7	06/12/07	7	14:41	14:46	14:46	-29.00	14:54	-5.00	pass	1879D	0
RSG-3-7D	06/12/07	7	14:41	14:46	14:46	-29.00	14:54	-5.00	pass	1849D	0
RSG-2-5	06/13/07	5	10:09	10:14	10:15	-29.50	10:45	-10.00	pass	1878D	0
RSG-2-8.5	06/13/07	8.5	11:09	11:14	11:17	-29.50	11:29	-5.00	pass	1874D	0
RSG-2-8.5D	06/13/07	8.5	11:09	11:14	11:17	-29.50	11:29	-5.00	pass	1848D	0
RSG-1-5	06/13/07	5	8:43	8:48	8:48	-29.50	8:53	-5.00	pass	1804D	0
RSG-1-7	06/13/07	7	9:16	9:21	9:23	-29.00	9:28	-5.00	pass	1852D	0

T:\Transfer\BP arco\5387\061807 soil gas sampling table

SOIL GAS SAMPLING CALCULATIONS

MATERIALS:

1.5" OF 2.5" PIPE ⇒ .125' OF .20833' PIPE

X' OF .25" TUBE ⇒ X' OF .02833' TUBE

EQUATION:

$V = \pi r^2 \cdot h$ $\quad$ $1\ FT^3 = 28.31685\ L$

CALCULATIONS:

* Both Shallow & Deep Samples have .125' of .20833' pipe

.20833 = circumference $\quad \frac{1}{2}(.20833) = .104165 = R$

$\pi(.104165)^2 \cdot (.125)' = .00426\ FT^3$

* X' FEET OF TUBING

.02083 = circumference $\quad \frac{1}{2}(.02083) = .014165 = R$

$\pi(.0104165)^2 \cdot X = (.000341) \cdot X'$

$(.000341) \cdot 5' = .001705\ FT^3 + .00426\ FT^3 = .005965\ FT^3$

$(.000341) \cdot 5.5' = .001875\ FT^3 + "\ " = .006135\ FT^3$

$(.000341) \cdot 10' = .00341\ FT^3 + "\ " = .00767\ FT^3$

$5' \Rightarrow [(.005965)3] \cdot 28.31685\ FT^3/L \Rightarrow .51$ LITERS

$5.5' \Rightarrow [(.006135)3] \cdot 28.31685\ FT^3/L \Rightarrow .52$ LITERS ← TO PURGE

$10' \Rightarrow [(.00767\ FT)3] \cdot 28.31685\ FT^3/L \Rightarrow .65$ LITERS

* TO BE SAFE ~1 LITER WAS PURGED FROM EACH LOCATION BY USING A 200 mL FLOW CONTROLLER & APPLYING A VACUUM FOR NO LESS THAN 5 MINUTES

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 05/22/2007 By jamesy

Permit Numbers: W2007-0636
Permits Valid from 06/11/2007 to 06/15/2007

Application Id:	1179784828622
Site Location:	20200 Hesperian Blvd, Hayward, CA
Project Start Date:	06/11/2007
City of Project Site:	Hayward
Completion Date:	06/15/2007
Applicant:	Stratus Environmental Inc. - Scott Bitlinger 3330 Cameron Park Dr #550, Cameron Park, CA 95682
Phone:	530-676-2061
Property Owner:	Thrifty Oil Co. 13116 Imperial Hwy, Santa Fe Springs,, CA 90700
Phone:	--
Client:	** same as Property Owner **

	Total Due:	$200.00
Receipt Number: WR2007-0226	**Total Amount Paid:**	$200.00
Payer Name : Stratus Environmental	Paid By: CHECK	**PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 10 Boreholes
Driller: Gregg - Lic #: 656407 - Method: DP

Work Total: $200.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2007-0636	05/22/2007	09/09/2007	10	2.50 in.	12.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours

prior to drilling.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

Atlantic Richfield Company
bp
A BP affiliated company

Chain of Custody Record 167722

Project Name: ARCO 5387
BP BU/AR Region/Enfos Segment: BP>Americas>West>Retail>North>5387
State or Lead Regulatory Agency:
Requested Due Date (mm/dd/yy):

On-site Time: 9 am		Temp: 70	
Off-site Time: 2 pm		Temp: 60	
Sky Conditions:			
Meteorological Events:			
Wind Speed:		Direction:	

Lab Name: STL Los Angeles	BP/AR Facility No.: 5387	Consultant/Contractor: Stratus Environmental
Address: 1721 South Grande Avenue	BP/AR Facility Address: 20200 Hesperian Blvd, Hayward	Address: 3330 Cameron Park Drive
Santa Ana, CA 92705	Site Lat/Long:	
Lab PM: Rich Files	California Global ID No.: T0600101368	Consultant/Contractor Project No.: E5387-01
Tele/Fax: 714-258-8610 Ext 225	Enfos Project No.: G0C52-0020	Consultant/Contractor PM: Jay Johnson
BP/AR EBM: Paul Supple	Provision or OOC (circle one)	Tele/Fax: 5306766080 / 5306766005
Address: 2010 Crow Canyon Place Suite 150	Phase/WBS: 01	Report Type & QC Level: Level 1 w/ EDF
San Ramon, CA	Sub Phase/Task: 03	E-mail EDD To: shayes@stratusinc.net
Tele/Fax: 925-275-3506	Cost Element: 01	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)

Lab Bottle Order No:

Item No.	Sample Description	Time	Date (07)	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air		Laboratory No.	No. of Containers	Preservative: Unpreserved	H_2SO_4	HNO_3	HCl	Methanol		GRO	BTEX	MTBE	ETBE	DIPE	TAME	TBA	Ethanol	1,2-DCA	1,2-EDB	Sample Point Lat/Long and Comments
1	ESG-1-5	848	06/12			X			1	X						X	X	X	X	X	X	X	X	X	X	
2	ESG-1-7	923	06/12			|			1	|						|	|	|	|	|	|	|	|	|	|	
3	ESG-2-5	1015	06/12			|			1	|						|	|	|	|	|	|	|	|	|	|	
4	ESG-2-8.5	1117	06/12			|			1	|						|	|	|	|	|	|	|	|	|	|	
5	ESG-3-5	1405	06/12			|			1	|						|	|	|	|	|	|	|	|	|	|	
6	ESG-3-7	1416	06/12			|			1	|						|	|	|	|	|	|	|	|	|	|	
7	ESG-3-7D	1416	06/12			|			1	|						|	|	|	|	|	|	|	|	|	|	
8	ESG-4-5	1207	06/12			|			1	|						|	|	|	|	|	|	|	|	|	|	
9	ESG-4-9.5	1253	06/12			|			1	|						|	|	|	|	|	|	|	|	|	|	
10	ESG-5-5	1327	06/12			↓			1	↓						|	|	|	|	|	|	|	|	|	|	

Sampler's Name: Collin Fischer	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Stratus	[signature]	06/12/07	1450			
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: ____°F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

Atlantic Richfield Company
bp
A BP affiliated company

Chain of Custody Record

167724

Page 2 of 2

Project Name: Arco 5997
BP BU/AR Region/Enfos Segment:
State or Lead Regulatory Agency:
Requested Due Date (mm/dd/yy):

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name:	BP/AR Facility No.: 5997	Consultant/Contractor:
Address:	BP/AR Facility Address:	Address:
	Site Lat/Long:	
Lab PM:	California Global ID No.:	Consultant/Contractor Project No.:
Tele/Fax:	Enfos Project No.:	Consultant/Contractor PM:
BP/AR EBM:	Provision or OOC (circle one)	Tele/Fax:
Address:	Phase/WBS:	Report Type & QC Level:
	Sub Phase/Task:	E-mail EDD To:
Tele/Fax:	Cost Element:	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: TPH-D	Requested Analysis: BTEX	Requested Analysis: MTBE	Requested Analysis: TPH-G	Requested Analysis: Oxygenates	Requested Analysis: Lead	Requested Analysis: Lead Scavengers	Requested Analysis: Ethanol	Sample Point Lat/Long and Comments
1	BSG-5-8.5	1144	04/11			X		1	X					X	X	X	X	X	X	X	X	X	X	
2	BSG-6-5	555	04/11					1														
3	BSG-6-5D	555	04/11					1														
4	BSG-6-9.5	1441	04/11					1														
5	BSG-7-5	946	04/12					1														
6	BSG-7-10	953	04/12					1														
7	BSG-8-5	1545	04/11					1														
8	BSG-8-9	1625	04/11					1														
9	BSG-9-5	1450	04/11					1														
10	BSG-9-10	1107	04/11					1														

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name:						
Sampler's Company:						
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: ____°F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

Consultant/Contractor

BP COC Rev. 5 10/11/2006

Atlantic Richfield Company
bp
A BP affiliated company

Chain of Custody Record

167721

Page 2 of 2

Project Name: AVCO 5287

BP BU/AR Region/Enfos Segment: [illegible]

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name:	BP/AR Facility No.: 5287	Consultant/Contractor:
Address:	BP/AR Facility Address:	Address:
	Site Lat/Long:	
Lab PM:	California Global ID No.:	Consultant/Contractor Project No.:
Tele/Fax:	Enfos Project No.:	Consultant/Contractor PM:
BP/AR EBM:	Provision or OOC (circle one)	Tele/Fax:
Address:	Phase/WBS:	Report Type & QC Level:
	Sub Phase/Task:	E-mail EDD To:
Tele/Fax:	Cost Element:	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis	Sample Point Lat/Long and Comments
1	ESG-10-5.5	[illegible]	4/11			X			X					X X X X X X X X X X	
2	ESG-10-10	[illegible]	4/11			X			X					X X X X X X X X X X	
3	ESG-2-8.5D	1117	4/13			X			X					X X X X X X X X X X	
4	04/11/07 AMBIENT		4/11			X			X					X X X X X X X X X X	
5														X X X X	
6															
7															
8															
9															
10															

Sampler's Name:	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date / Time
Sampler's Company:	[illegible]	4/13	1430		
Shipment Date:					
Shipment Method:					
Shipment Tracking No:					

Special Instructions:

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: ____°F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

Consultant/Contractor

BP COC Rev. 5 10/11/2006

SEVERN TRENT STL

June 26, 2007

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

STL LOT NUMBER: **E7F140452**

Jay Johnston
Stratus Environmental Inc
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682

Dear Jay Johnston,

This report contains the analytical results for the 39 samples received under chain of custody by STL Los Angeles on June 14, 2007. These samples are associated with your ARCO #5387 project.

STL Los Angeles certifies that the test results provided in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is 01118CA / E87652.

Any matrix related anomaly is footnoted within the report. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page.

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains 000134 pages.

If you have any questions, please feel free to call me at (714) 258-8610.

Sincerely,

Beth Riley
Project Manager

cc: Project File

CASE NARRATIVE

LOT NUMBER E7F140452

Nonconformance 05-0019881

Affected Samples:
E7F140452 (15): RSG-7-5
E7F140452 (16): RSG-7-10

Affected Methods:
TO-15

Details:
Due to a computer error and limited sample volume, the true sample volume trapped is not known for the two samples listed above. The sample volume used to calculate the results was estimated to have a dilution factor of one. The samples results are non-detected for all target analytes at this dilution. Data is reported as is.

SITE 5387

Atlantic Richfield Company

bp A BP affiliated company

Chain of Custody Record 167722

Page 1 of 3

Project Name: ARCO 5387

BP BU/AR Region/Enfos Segment: BP>Americas>West>Retail>Alameda>5387

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

E7F140452

On-site Time: 8 am	Temp: 70		
Off-site Time: 6 pm	Temp: 90		
Sky Conditions:			
Meteorological Events:			
Wind Speed:	Direction:		

Lab Name: STL Los Angeles	BP/AR Facility No.: 5387	Consultant/Contractor: Stratus Environmental
Address: 1721 South Grande Avenue	BP/AR Facility Address: 20200 Hesperian Blvd, Hayward	Address: 3330 Cameron Park Drive
Santa Ana, CA 92705	Site Lat/Long:	
Lab PM: Beth Riley	California Global ID No.: T0600101368	Consultant/Contractor Project No.: E5387-01
Tele/Fax: 714-258-8610 Ext 825	Enfos Project No.: G0C52-0020	Consultant/Contractor PM: Jay Johnson
BP/AR EBM: Paul Supple	Provision or OOC (circle one) — Provision circled	Tele/Fax: 530 676 6000 / 530 676 6005
Address: 2010 Crow Canyon Place, Suite 150	Phase/WBS: 01	Report Type & QC Level: Level 1 w/ EDF
San Ramon, CA.	Sub Phase/Task: 03	E-mail EDD To: Stratus@StratusInc.net
Tele/Fax: 925-275-3506	Cost Element: 01	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one) — Atlantic Richfield Co. circled

Lab Bottle Order No:

Item No.	Sample Description	Time	Date (07)	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	H_2SO_4	HNO_3	HCl	Methanol	GRO	BTEX	MTBE	ETBE	DIPE	TAME	TBA	Ethanol	O_2, CO_2, CH_4	Isopropanol (Leak Test)	Sample Point Lat/Long and Comments
1	RSG-1-5	0848	06/13/07			X		1	X					X	X	X	X	X	X	X	X	X	X	
2	RSG-1-7	0923	06/13			↓		1	↓					↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
3	RSG-2-5	1015	06/13					1																
4	RSG-2-8.5	1117	06/13					1																
5	RSG-3-5	1408	06/12					1																
6	RSG-3-7	1446	06/12					1																
7	RSG-3-7D	1446	06/12					1																
8	RSG-4-5	1207	06/12					1																
9	RSG-4-8.5	1255	06/12					1																
10	RSG-5-5	1027	06/12					1																

Sampler's Name: Collin Fischer	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Stratus	[signature]	06/13/07	1420	[signature]	6/14/07	10[illegible]
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: ____°F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

Laboratory

BP COC Rev. 5 10/11/2006

3

E7F140452

SITE 5387

Atlantic Richfield Company

bp A BP affiliated company

Chain of Custody Record 167724

Project Name: ARCO 5387
BP BU/AR Region/Enfos Segment: BP>Americas>West>Retail>Alameda>5387
State or Lead Regulatory Agency:
Requested Due Date (mm/dd/yy):

E7F140452

On-site Time: 8 am	Temp: 70
Off-site Time: 6pm	Temp: 90
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: STL Los Angeles	BP/AR Facility No.: 5387	Consultant/Contractor: Stratus Environmental
Address: 1721 South Grande Avenue	BP/AR Facility Address: 20200 Hesperian Blvd, Hayward	Address: 3330 Cameron Park Drive
Santa Ana, CA 92705	Site Lat/Long:	Cameron Park, CA.
Lab PM: Brian Ridley	California Global ID No.: T0600101368	Consultant/Contractor Project No.: E5387-01
Tele/Fax: 714 258-8610 Ext 225	Enfos Project No.: G0C52-0020	Consultant/Contractor PM: Jay Johnson
BP/AR EBM: Paul Supple	Provision or OOC (circle one)	Tele/Fax: 530676 6000 530676 6005
Address: 2010 Crow Canyon Place Suite 150	Phase/WBS: 01	Report Type & QC Level: Level I EDF
San Ramon, CA	Sub Phase/Task: 03	E-mail EDD To: [illegible]@stratusinc.net
Tele/Fax: 925-275-3506	Cost Element: 01	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)

Lab Bottle Order No:

Item No.	Sample Description	Time	Date (07)	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	H_2SO_4	HNO_3	HCl	Methanol	GRO	BTEX	MTBE	ETBE	DIPE	TAME	TBA	Ethanol	O_2, CO_2, CH_4	[illegible]	Sample Point Lat/Long and Comments
1	RSG-5-8.5	1104	06/12			X		1	X					X	X	X	X	X	X	X	X	X	X	
2	RSG-6-5	1335	06/11			↓		1	↓					↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
3	RSG-6-5D	1335	06/11			↓		1	↓					↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
4	RSG-6-9.5	1441	06/11			↓		1	↓					↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
5	RSG-7-5	0846	06/12			↓		1	↓					↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
6	RSG-7-10	0919	06/12			↓		1	↓					↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
7	RSG-8-5	1545	06/11			↓		1	↓					↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
8	RSG-8-9	1623	06/11			↓		1	↓					↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
9	RSG-9-5	0950	06/11			↓		1	↓					↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
10	RSG-9-10	1102	06/11			↓		1	↓					↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: Collin Fischer	[signature]	06/13/07	1420	[signature]	6/14/07	[illegible]
Sampler's Company: Stratus Environmental						
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: ____°F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

SITE 5387

Atlantic Richfield Company

bp A BP affiliated company

Chain of Custody Record 167721

Project Name: ARCO 5387

BP BU/AR Region/Enfos Segment: BP>Americas>West>Retail>Arco>5387

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

E7F140452

On-site	Time: 8 am	Temp: 76	
Off-site	Time: 6 pm	Temp: 90	
Sky Conditions:			
Meteorological Events:			
Wind Speed:		Direction:	

Lab Name: STL Los Angeles	BP/AR Facility No.: 5387	Consultant/Contractor: Stratus Environmental
Address: 1721 South Grand Avenue Santa Ana, CA. 92705	BP/AR Facility Address: 20200 Hesperian Blvd, Hayward	Address: 3330 Cameron Park Drive Cameron Park CA
	Site Lat/Long:	
Lab PM: Beth Riley	California Global ID No.: T0600101368	Consultant/Contractor Project No.: E5387
Tele/Fax: 714 258 8610 Ext: 25	Enfos Project No.: G0C5Z-0020	Consultant/Contractor PM: Jay Johnson
BP/AR EBM: Paul Supple	Provision or OOC (circle one) — Provision circled	Tele/Fax: 530 676 6000 530 676 6005
Address: 2010 Crow Canyon Place Suite 150 San Ramon, CA	Phase/WBS: 01	Report Type & QC Level: Level I w/ EDF
	Sub Phase/Task: 03	E-mail EDD To: Stratus@stratusinc.net
Tele/Fax: 925 275 3506	Cost Element: 01	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one) — Atlantic Richfield Co. circled

Lab Bottle Order No:

Item No.	Sample Description	Time	Date (07)	Soil/Solid	Water/Liquid	Air	Laboratory No.	No. of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	Methanol		GRO	BTEX	MTBE	ETBE	DIPE	TAME	TBA	Ethanol	O_2, CO_2, CH_4	Isopropanol	Sample Point Lat/Long and Comments
1	RSG-10-5.5	1204	06/11			X			X						X	X	X	X	X	X	X	X	X	X	
2	RSG-10-10	1253	06/11			X																			
3	RSG-2-8.5D	1417	06/13			X																			
4	06/11/07 Ambient Air		06/11			X																			
5																									
6																									
7																									
8																									
9																									
10																									

(Unpreserved and analysis marks for item 1 carried down through items 2–4 by vertical lines.)

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: Cole Fisher Stratus	[signature]	06/13/07	1420	[signature]	6/14/07	100[illegible]
Sampler's Company:						
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: ____°F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

Laboratory

5

E7F140452

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1804D

DATE CLEANED: 6-4-07A ~~5-21-07B~~ ~~6-5-07A~~

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: HF001

Duration of comp. : — ~~hrs. / mins~~.

Flow setting: ~200.0 ml/min

Initials: KH

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KH
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	12.00	6/15/07	DA
FINAL PRESSURE (PSIA)	21.40	6/15/07	DA

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

2

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1852 D

DATE CLEANED: 6-4-07A ~~5-21-07B~~ ~~6-5-07A~~

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: HF 025

Duration of comp. : — ~~hrs. / mins~~.

Flow setting: ~200.0 ml/min

Initials: KA

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KA
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	15.49	6/15/07	DM
FINAL PRESSURE (PSIA)	20.61	6/15/07	DM

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

N:\CORDOCS\CANISTER FIELD DATA RECORD with VFR 042607.doc | REV. 2007-1A

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1878 D

DATE CLEANED: ~~6-1-07A~~ ~~5-21-07B~~ 6-5-07A

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: HF057

Duration of comp. : — ~~hrs. / mins~~.

Flow setting: ~200.0 ml/min

Initials: KA

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KA
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	8.44	6/14/07	DA
FINAL PRESSURE (PSIA)	21.33	6/15/07	DA

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

7

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1874D

DATE CLEANED: ~~6-1-07A~~ 5-21-07B ~~6-5-07A~~

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: HF039

Duration of comp. : — ~~hrs. / mins~~.

Flow setting: ~200.0 ml/min

Initials: KH

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KH
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	10.90	6/15/07	DB
FINAL PRESSURE (PSIA)	21.16	↓	↓

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1853D

DATE CLEANED: ~~6-4-07A~~ 5-21-07B ~~6-5-07A~~

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: HF072

Duration of comp. : ____ ~~hrs. / mins.~~

Flow setting: ~200.0 ml/min

Initials: KH

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KH
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	11.47	6/18/07	DB
FINAL PRESSURE (PSIA)	20.23	↓	↓

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1879D

DATE CLEANED: ~~6-4-07A~~ 5-21-07B ~~6-5-07A~~

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: ~~HF 078~~

Duration of comp. : — ~~hrs. / mins.~~

Flow setting: ~200.0 ml/min

Initials: KH

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KH
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	10.86	6/18/07	DA
FINAL PRESSURE (PSIA)	20.01	〃	〃

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1849 D

DATE CLEANED: ~~6-4-07A~~ 5-21-07B ~~6-5-07A~~

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: HF 107

Duration of comp. : — ~~hrs. / mins.~~

Flow setting: ~200.0 ml/min

Initials: KA

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KA
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	11.07	6/15/07	PJ
FINAL PRESSURE (PSIA)	20.00	↓	↓

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1846D

DATE CLEANED: ~~6-4-07A~~ 5-21-07B ~~6-5-07A~~

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: HF054

Duration of comp. : — ~~hrs. / mins.~~

Flow setting: ~200.0 ml/min

Initials: KH

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KH
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	12.66	6/15/07	DA
FINAL PRESSURE (PSIA)	20.88	↓	↓

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1844D

DATE CLEANED: ~~6-4-07A~~ 5-21-07B ~~6-5-07A~~

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: HF091

Duration of comp. : — ~~hrs. / mins.~~

Flow setting: ~200.0 ml/min

Initials: KA

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KA
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	11.39	6/18/07	pa
FINAL PRESSURE (PSIA)	20.11	↓	↓

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 863D

DATE CLEANED: ~~5-24-07A~~ 5-21-07B ~~6-5-07A~~

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: HF046

Duration of comp. : — ~~hrs. / mins~~.

Flow setting: ~200.0 ml/min

Initials: KH

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KH
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	12.18	6/15/07	JH
FINAL PRESSURE (PSIA)	24.02	↓	↓

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1880D

DATE CLEANED: ~~6-4-07A~~ 5-21-07B ~~6-5-07A~~

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: ~~HF 102~~

Duration of comp. : _____ ~~hrs. / mins.~~

Flow setting: ~200.0 ml/min

Initials: KH

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KH
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	11.74	6/15/07	RR
FINAL PRESSURE (PSIA)	22.00	↓	↓

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1883D

DATE CLEANED: 6-4-07A ~~5-21-07B~~ ~~6-5-07A~~

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: HF098

Duration of comp. : — ~~hrs. / mins.~~

Flow setting: ~200.0 ml/min

Initials: KH

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KH
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	12.06	6/15/07	DD
FINAL PRESSURE (PSIA)	23.43	6/15/07	DD

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

17

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1876D

DATE CLEANED: 6-4-07A ~~5-21-07B~~ ~~6-5-07A~~

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: HF033

Duration of comp. : — ~~hrs. / mins.~~

Flow setting: ~200.0 ml/min

Initials: KH

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KH
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	11.96	6/15/07	DF
FINAL PRESSURE (PSIA)	23.69	↓	↓

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1866 D

DATE CLEANED: 6-4-07A ~~5-21-07B~~ ~~6-5-07A~~

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: HF 106

Duration of comp. : — ~~hrs. / mins.~~

Flow setting: ~200.0 ml/min

Initials: KH

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KH
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	12.84	6/15/07	pr
FINAL PRESSURE (PSIA)	24.80	↓	↓

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1867D

DATE CLEANED: ~~6-1-07A~~ 5-21-07B ~~6-5-07A~~

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: ~~HF022~~

Duration of comp. : — ~~hrs. / mins.~~

Flow setting: ~200.0 ml/min

Initials: KH

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KH
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	11.91	6/15/07	DF
FINAL PRESSURE (PSIA)	24.86	"	"

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1845D

DATE CLEANED: ~~6-4-07A~~ 5-21-07B ~~6-5-07A~~

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: HF021

Duration of comp. : — ~~hrs. / mins~~.

Flow setting: ~200.0 ml/min

Initials: KH

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KH
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	12.88	6/15/07	MB
FINAL PRESSURE (PSIA)	25.02	6/15/07	MB

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 18701

DATE CLEANED: 6-4-07A ~~5-21-07B~~ ~~6-5-07A~~

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: HF 050

Duration of comp.: — ~~hrs. / mins~~.

Flow setting: ~200.0 ml/min

Initials: KH

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KH
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	11.93	6/15/07	DA
FINAL PRESSURE (PSIA)	24.22	↓	↓

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1869D

DATE CLEANED: 6-4-07A ~~5-21-07B~~ ~~6-5-07A~~

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: HF009

Duration of comp. : — ~~hrs. / mins.~~

Flow setting: ~200.0 ml/min

Initials: KH

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KH
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	11.95	6/15/07	M
FINAL PRESSURE (PSIA)	24.98	↓	↓

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1865D

DATE CLEANED: ~~6-4-07A~~ ~~5-21-07B~~ 6-5-07A

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: HF 111

Duration of comp. : — ~~hrs./mins~~.

Flow setting: ~200.0 ml/min

Initials: KA

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KA
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	12.33	6/15/07	PA
FINAL PRESSURE (PSIA)	23.50	↓	↓

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1855D

DATE CLEANED: ~~6-1-07A~~ 5-21-07B 6-5-07A

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: ~~HF~~ 023

Duration of comp. : — ~~hrs. / mins~~.

Flow setting: ~200.0 ml/min

Initials: KA

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KA
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	12.64	6/15/07	DS
FINAL PRESSURE (PSIA)	23.98	6/15/07	DS

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1842D

DATE CLEANED: 6-4-07A ~~5-21-07B~~ ~~[illegible]~~

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: HF081

Duration of comp. : — ~~hrs. / mins.~~

Flow setting: ~200.0 ml/min

Initials: KH

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KH
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	13.48	6/15/07	DF
FINAL PRESSURE (PSIA)	23.85	↓	↓

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

CL

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1873 D

DATE CLEANED: 6-4-07A ~~5-21-07B~~ ~~6-5-07A~~

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: HF 040

Duration of comp. : — ~~hrs./mins~~.

Flow setting: ~200.0 ml/min

Initials: KH

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KH
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	11.15	6/15/07	DS
FINAL PRESSURE (PSIA)	22.54	6/15/07	DS

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1848D

DATE CLEANED: ~~6-4-07A~~ 5-21-07B ~~6-5-07A~~

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: ~~HF080~~

Duration of comp. : — ~~hrs. / mins.~~

Flow setting: ~200.0 ml/min

Initials: KA

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KA
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	10.98	6/15/07	MB
FINAL PRESSURE (PSIA)	23.01	6/15/07	MB

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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STL

CANISTER FIELD DATA RECORD

CLIENT: STRATUS

CANISTER SERIAL #: 1850 D

DATE CLEANED: ~~6-4-07A~~ ~~5-21-07B~~ 6-5-07A

CLIENT SAMPLE #: _____

SITE LOCATION: _____

VFR ID: ~~HF~~ 074

Duration of comp. : — ~~hrs. / mins.~~

Flow setting: ~200.0 ml/min

Initials: KA

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	6/7/07	KA
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	7.42	6/15/07	JA
FINAL PRESSURE (PSIA)	21.07	↓	↓

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 MIN.	316-333
0.5 Hours	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

CANISTER QC CERTIFICATION

STL

Certification Type: TO-15-ML

Date Cleaned/Batch 052307A

Date of QC 5-30-07

Data File Number MB05301 (MSA)

Canister ID Numbers

*9339B	93092
A-214	93125
A-286	9418BB
063311	04179
93285	11342
93191	12274

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

AA
Reviewed By:

5/30/07
Date:

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STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC056\MSA_DD\chem\gcmsa.i\070530.B\MB05301.D
Lab Smp Id: BLANK Client Smp ID: 9339B
Inj Date : 30-MAY-2007 12:28
Operator : AA Inst ID: gcmsa.i
Smp Info : BLANK,9339B,,METHOD BLANK
Misc Info : 1,1,500,500,3,,BLANK,BLANK.SUB,0,
Comment :
Method : \\LAPC056\MSA_DD\CHEM\GCMSA.I\070530.B\TO14A.m
Meth Date : 30-May-2007 14:49 almagroa Quant Type: ISTD
Cal Date : 24-MAY-2007 10:54 Cal File: CC05242.D
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BLANK.SUB
Subtraction File: \\LAPC056\MSA_DD
Target Version: 4.00
Processing Host: LAPC056

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	500.000	CalVol
SmpVol	500.000	SmpVol

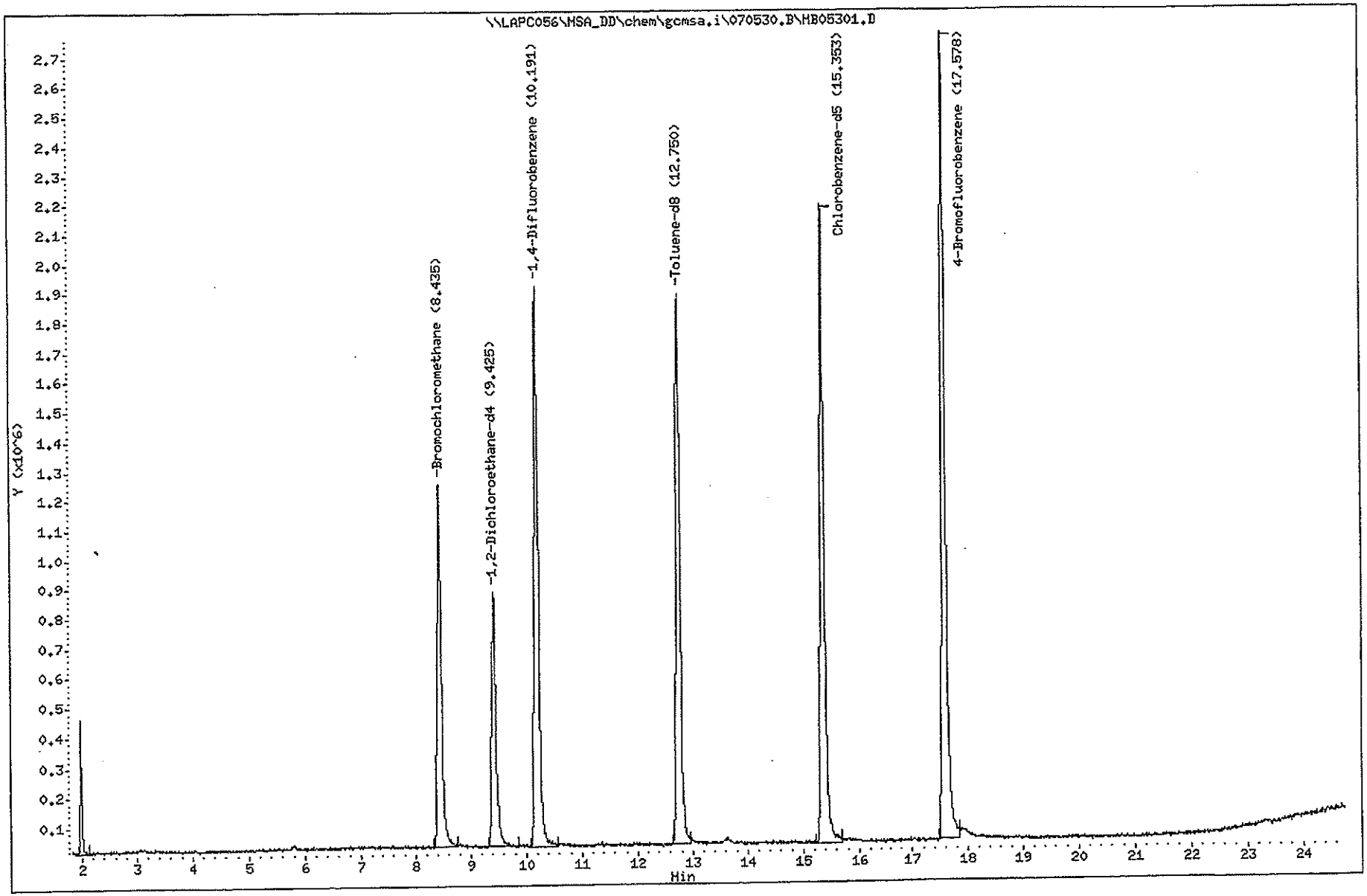
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
* 57 Bromochloromethane	49	8.434	8.474	(1.000)	1566097	50.0000	
$ 65 1,2-Dichloroethane-d4	65	9.425	9.440	(0.925)	1248770	59.4980	59.50
* 73 1,4-Difluorobenzene	114	10.191	10.222	(1.000)	4271608	50.0000	
$ 87 Toluene-d8	100	12.750	12.755	(1.251)	2220501	51.3367	51.34
* 100 Chlorobenzene-d5	117	15.353	15.375	(1.000)	3687534	50.0000	
$ 114 4-Bromofluorobenzene	95	17.578	17.575	(1.145)	3329952	49.5589	49.56

Data File: \\LAPC056\MSA_DD\chem\gcmsa.i\070530.B\MB05301.D
Date : 30-MAY-2007 12:28
Client ID: 9339B
Sample Info: BLANK,9339B,,METHOD BLANK

Column phase: J&W DB-624

Instrument: gcmsa.i

Operator: AA
Column diameter: 0.53



CANISTER QC CERTIFICATION

STL

Certification Type: TO-15 ML

Date Cleaned/Batch: 060407A

Date of QC: 6/6/07

Data File Number: MB060601 (MSA)

Canister ID Numbers

* 1852D	1873D
1869D	1856D
1882D	1804D
1870D	1842D
1876D	1857D
1866D	1883D

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

M
Reviewed By:

6/6/07
Date:

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STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC056\MSA_DD\CHEM\GCMSA.I\070606.B\MB06061.D
Lab Smp Id: BLANK Client Smp ID: 1852D
Inj Date : 06-JUN-2007 13:35
Operator : AA Inst ID: gcmsa.i
Smp Info : BLANK,1852D,,METHOD BLANK
Misc Info : 1,1,500,500,3,,BLANK,BLANK.SUB,0,
Comment :
Method : \\LAPC056\MSA_DD\CHEM\GCMSA.I\070606.B\TO14A.m
Meth Date : 06-Jun-2007 11:23 almagroa Quant Type: ISTD
Cal Date : 01-JUN-2007 21:42 Cal File: IC06024.D
Als bottle: 9 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BLANK.SUB
Subtraction File: \\LAPC056\MSA_DD
Target Version: 4.00
Processing Host: LAPC056

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	500.000	CalVol
SmpVol	500.000	SmpVol

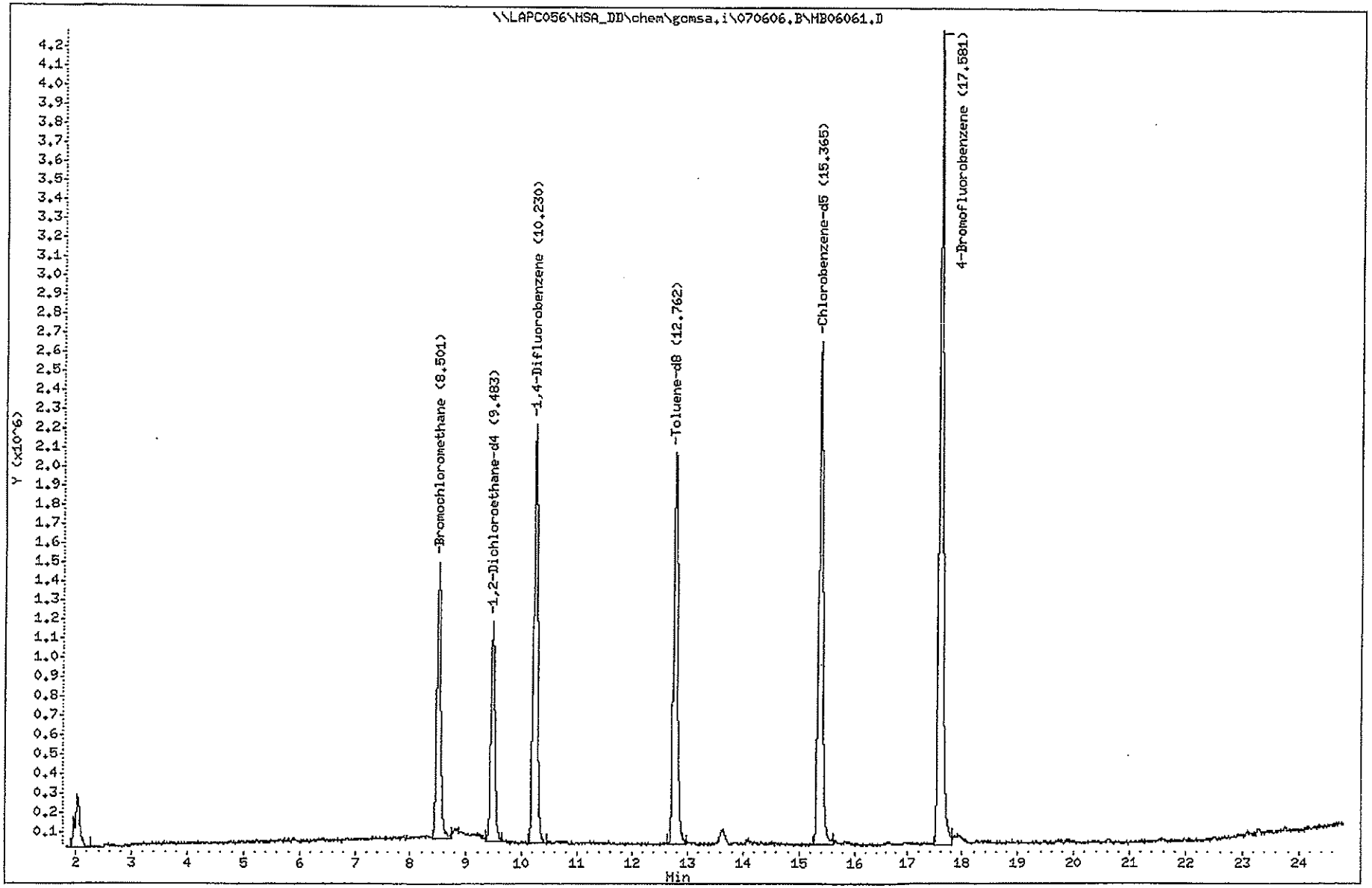
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
* 57 Bromochloromethane	49	8.501	8.478	(1.000)	1695871	50.0000	
$ 65 1,2-Dichloroethane-d4	65	9.482	9.469	(0.927)	1616460	54.1561	54.16
* 73 1,4-Difluorobenzene	114	10.230	10.235	(1.000)	4594964	50.0000	
$ 87 Toluene-d8	100	12.762	12.775	(1.247)	2383955	49.7466	49.75
* 100 Chlorobenzene-d5	117	15.365	15.397	(1.000)	4281860	50.0000	
$ 114 4-Bromofluorobenzene	95	17.581	17.613	(1.144)	4740446	49.2161	49.22

Data File: \\LAPC056\HSA_DD\chem\gcmsa.i\070606.B\MB06061.D
Date : 06-JUN-2007 13:35
Client ID: 1852D
Sample Info: BLANK,1852D,,METHOD BLANK

Column phase: J&W DB-624

Instrument: gcmsa.i

Operator: AA
Column diameter: 0.53



CANISTER QC CERTIFICATION

STL

Certification Type: TO-15 ML

Date Cleaned/Batch: 052107B

Date of QC: 5-22-07

Data File Number: MB05223 (MSB)

Canister ID Numbers

*1846D	1845D
1880D	1849D
1863D	1879D
1853D	~~1875D~~
1844D	1874D
1867D	1848D

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

Reviewed By: [signature]

Date: 5-23-07

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STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC065\MSB_DD\chem\gcmsb.i\070522.B\MB05223.D
Lab Smp Id: BLANK Client Smp ID: 1846D
Inj Date : 23-MAY-2007 15:06
Operator : AA Inst ID: gcmsb.i
Smp Info : BLANK,1846D,,SCREEN BLANK
Misc Info : 1,1,500,500,3,,BLANK,BLANK.sub,0,
Comment :
Method : \\LAPC065\MSB_DD\chem\gcmsb.i\070522.b\TO14A.m
Meth Date : 22-May-2007 16:30 kammererd Quant Type: ISTD
Cal Date : 10-MAY-2007 19:15 Cal File: IC05107.D
Als bottle: 16 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BLANK.sub
Target Version: 4.04
Processing Host: LAPC065

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	500.000	CalVol
SmpVol	500.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
* 57 Bromochloromethane	49	8.025	8.164	(1.000)	746654	50.0000	
$ 65 1,2-Dichloroethane-d4	65	9.072	9.166	(0.919)	723472	57.3209	57.32
* 73 1,4-Difluorobenzene	114	9.875	9.969	(1.000)	1510114	50.0000	
$ 87 Toluene-d8	100	12.502	12.560	(1.266)	778142	48.7693	48.77
* 100 Chlorobenzene-d5	117	15.164	15.195	(1.000)	1150591	50.0000	
$ 114 4-Bromofluorobenzene	95	17.412	17.443	(1.148)	1062407	37.4891	37.49(Q)

QC Flag Legend

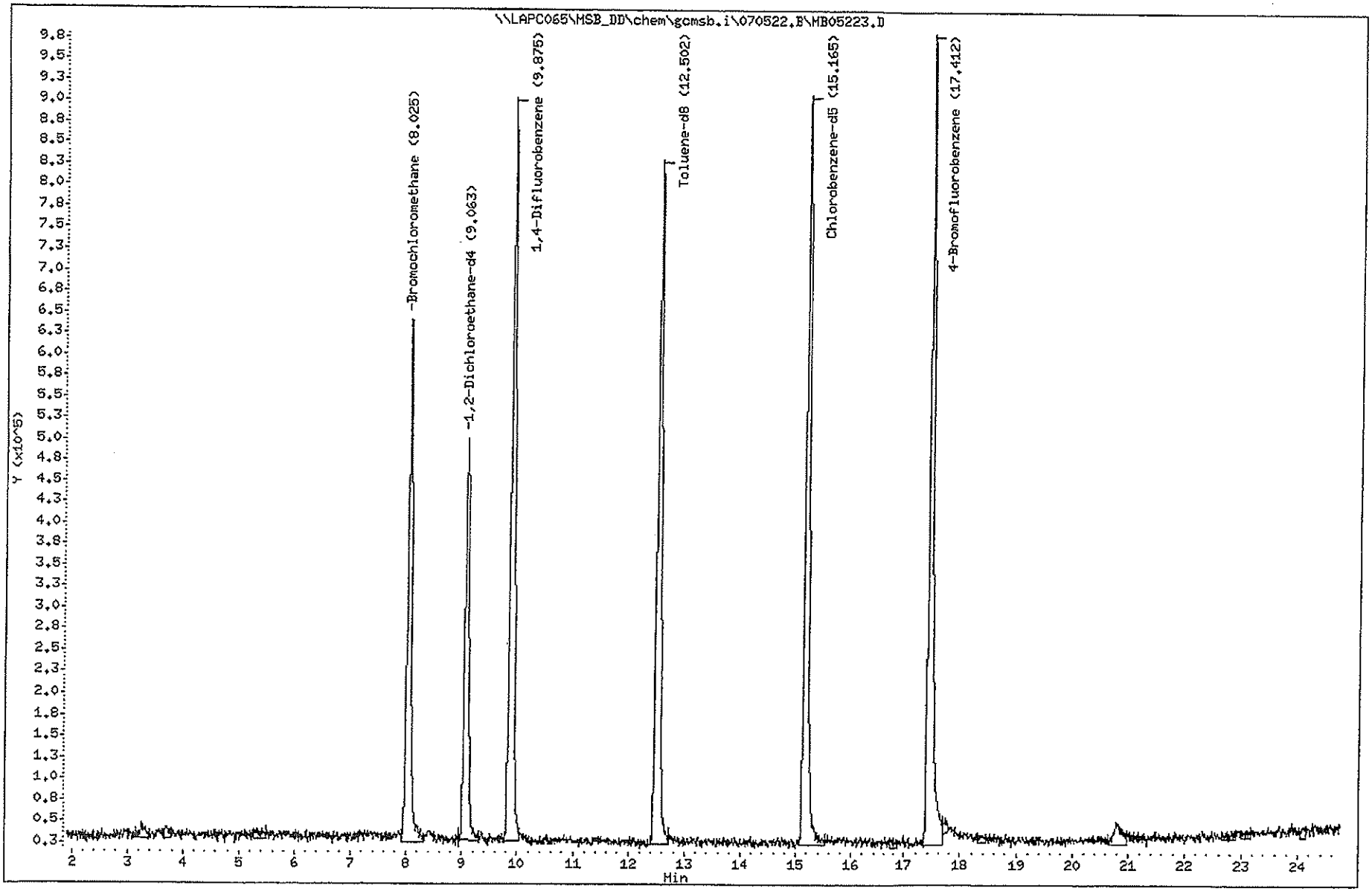
Q - Qualifier signal failed the ratio test.

Data File: \\LAPC065\MSB_DD\chem\gcmsb.i\070522.B\MB05223.D
Date : 23-MAY-2007 15:06
Client ID: 1846D
Sample Info: BLANK,1846D,,SCREEN BLANK

Column phase: J&W DB-624

Instrument: gcmsb.i

Operator: AA
Column diameter: 0.53



CANISTER QC CERTIFICATION

STL

Certification Type: TO-15 ML

Date Cleaned/Batch 060507A

Date of QC 6-6-07

Data File Number MB06062 (MSA)

Canister ID Numbers

* 1851D	1865D
1878D	1850D
1871D	1855D
1861D	12152
~~1877D~~	0109
1843D	9429B

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

AA
Reviewed By:

6-6-07
Date:

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STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC056\MSA_DD\CHEM\GCMSA.I\070606.B\MB06062.D
Lab Smp Id: BLANK Client Smp ID: 1851D
Inj Date : 06-JUN-2007 14:08
Operator : AA Inst ID: gcmsa.i
Smp Info : BLANK,1851D,,METHOD BLANK
Misc Info : 1,1,500,500,3,,BLANK,BLANK.SUB,0,
Comment :
Method : \\LAPC056\MSA_DD\CHEM\GCMSA.I\070606.B\TO14A.m
Meth Date : 06-Jun-2007 14:29 almagroa Quant Type: ISTD
Cal Date : 01-JUN-2007 21:42 Cal File: IC06024.D
Als bottle: 10 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BLANK.SUB
Subtraction File: \\LAPC056\MSA_DD
Target Version: 4.00
Processing Host: LAPC056

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	500.000	CalVol
SmpVol	500.000	SmpVol

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
* 57 Bromochloromethane	49	8.327	8.478	(1.000)	1783365	50.0000	
$ 65 1,2-Dichloroethane-d4	65	9.345	9.469	(0.923)	1558095	54.5300	54.53
70 tert-Amyl methyl ether (TAME)	73	10.129	9.725	(1.001)	49362	0.57663	0.5766(aQ)
* 73 1,4-Difluorobenzene	114	10.120	10.235	(1.000)	4398681	50.0000	
$ 87 Toluene-d8	100	12.714	12.775	(1.256)	2245286	48.9437	48.94
* 100 Chlorobenzene-d5	117	15.345	15.397	(1.000)	3898974	50.0000	
$ 114 4-Bromofluorobenzene	95	17.579	17.613	(1.146)	3995570	45.5564	45.56

ND
AM
6/6/07

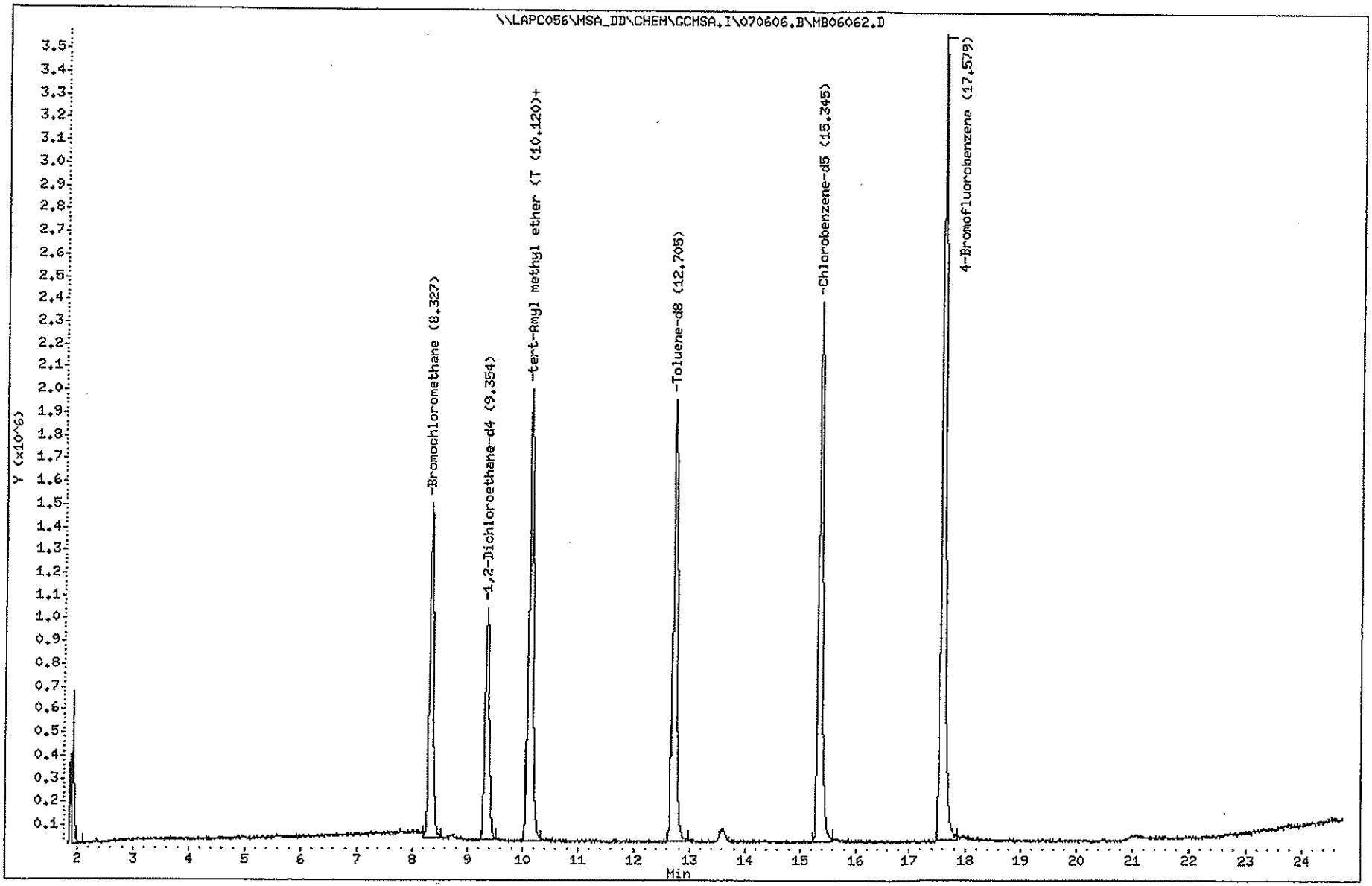
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\LAPC056\MSA_DD\CHEM\GCMSA.I\070606.B\MB06062.D
Date : 06-JUN-2007 14:08
Client ID: 1851D
Sample Info: BLANK,1851D,,METHOD BLANK

Instrument: gcmsa.i
Operator: AA
Column diameter: 0.53

Column phase: J&W DB-624



CANISTER QC CERTIFICATION

STL

Certification Type: TO-15 ML

Date Cleaned/Batch 052107C

Date of QC 5-23-07

Data File Number MB05234 (MSA)

Canister ID Numbers

*A-282	12633 ✓
0051	12214 ✓
93188	11282
92052	12879
A-188	02703
12585 ✓	04400

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

AA
Reviewed By:

5/24/07
Date:

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STL Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\LAPC056\MSA_DD\chem\gcmsa.i\070523.B\MB05234.D
Lab Smp Id: BLANK Client Smp ID: A-282
Inj Date : 23-MAY-2007 21:52
Operator : LY Inst ID: gcmsa.i
Smp Info : BLANK,A-282,,METHOD BLANK
Misc Info : 1,1,500,500,3,,BLANK,BLANK.SUB,0,
Comment :
Method : \\LAPC056\MSA_DD\chem\gcmsa.i\070523.B\TO14A.m
Meth Date : 24-May-2007 10:28 almagroa Quant Type: ISTD
Cal Date : 17-MAY-2007 23:48 Cal File: IC05178.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BLANK.SUB
Subtraction File: \\LAPC056\MSA_DD
Target Version: 4.00
Processing Host: LAPC056

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	500.000	CalVol
SmpVol	500.000	SmpVol

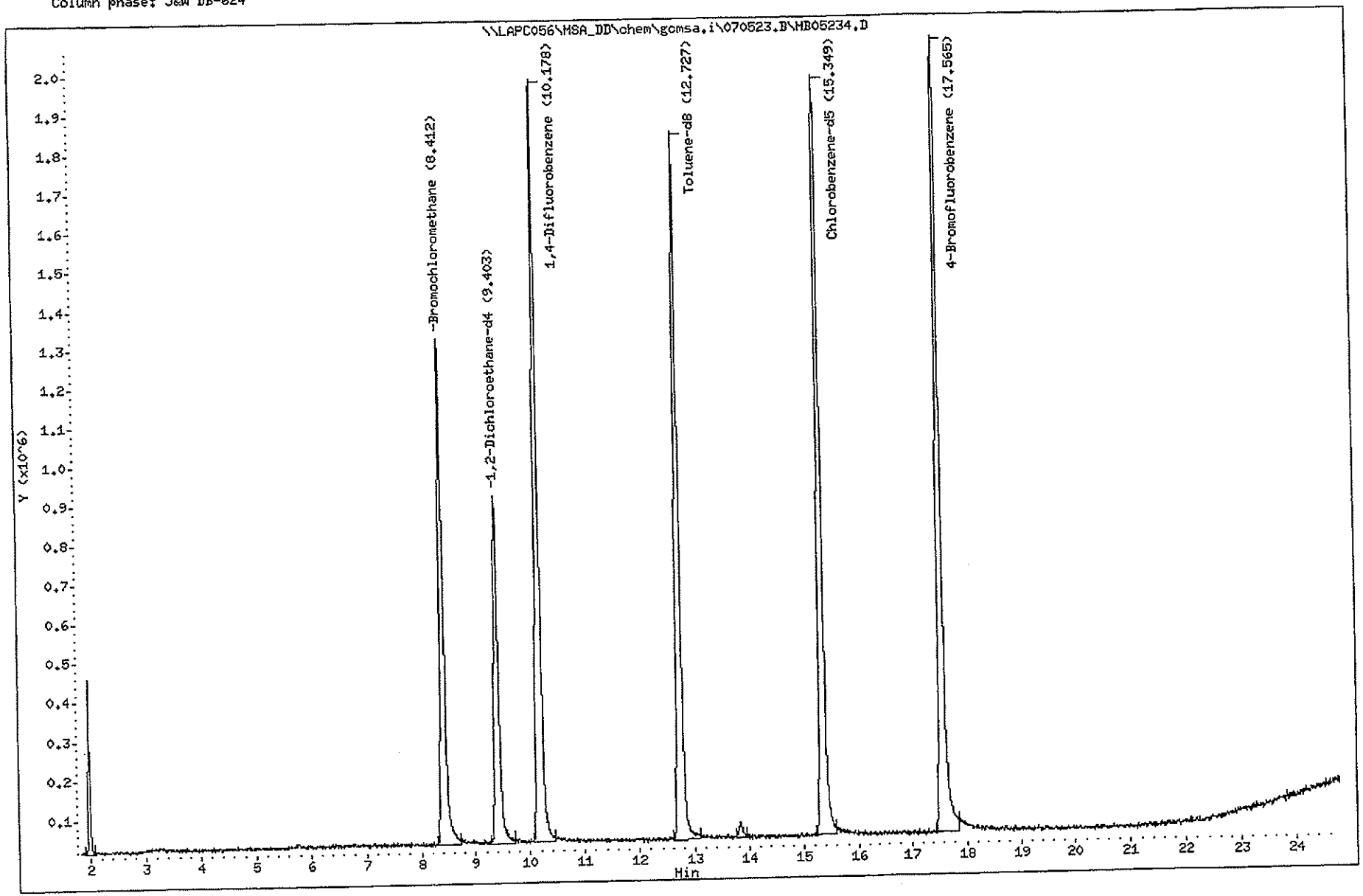
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
* 57 Bromochloromethane	49	8.403	8.438	(1.000)	1678861	50.0000	
$ 65 1,2-Dichloroethane-d4	65	9.412	9.429	(0.925)	1313813	60.0070	60.01
* 73 1,4-Difluorobenzene	114	10.178	10.194	(1.000)	4455978	50.0000	
$ 87 Toluene-d8	100	12.727	12.735	(1.250)	2155653	47.7754	47.78
* 100 Chlorobenzene-d5	117	15.349	15.347	(1.000)	3379913	50.0000	
$ 114 4-Bromofluorobenzene	95	17.565	17.572	(1.144)	2487705	40.3936	40.39

Data File: \\LAPC056\MSA_DD\chem\gcmsa.i\070523.B\MB05234.D
Date : 23-MAY-2007 21:52
Client ID: A-282
Sample Info: BLANK,A-282,,METHOD BLANK

Instrument: gcmsa.i

Operator: LY
Column diameter: 0.53

Column phase: J&W DB-624



Stratus Environmental Inc

Client Sample ID: RSG-1-5

GC/MS Volatiles

Lot-Sample #...: E7F140452-001	**Work Order #...:** J03DC1AE	**Matrix.....:** V	
Date Sampled...: 06/13/07	**Date Received..:** 06/14/07		
Prep Date.....: 06/21/07	**Analysis Date..:** 06/21/07		
Prep Batch #...: 7176516			
Dilution Factor: 1.2			
Analyst ID.....: 101605	**Instrument ID..:** MSA		
	Method.....: EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	7.7	ug/m3	3.1
tert-Butyl alcohol	ND DH	36	ug/m3	7.2
Diisopropyl ether	ND DH	10	ug/m3	2.0
Ethanol	ND DH	90	ug/m3	46
Tert-amyl methyl ether	ND DH	10	ug/m3	2.5
Tert-butyl ethyl ether	ND DH	10	ug/m3	2.0
Ethylbenzene	ND DH	10	ug/m3	5.2
Isopropanol	ND DH	28	ug/m3	11
Methyl tert-butyl ether (MTBE)	ND DH	8.6	ug/m3	2.2
Toluene	ND DH	9.0	ug/m3	2.3
m-Xylene & p-Xylene	ND DH	10	ug/m3	5.2
o-Xylene	ND DH	10	ug/m3	3.1
Xylenes (total)	ND DH	10	ug/m3	3.1

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-1-5

GC Volatiles

Lot-Sample #...:	E7F140452-001	Work Order #...:	J03DC1AG	Matrix.....:	V
Date Sampled...:	06/13/07	Date Received..:	06/14/07		
Prep Date.....:	06/21/07	Analysis Date..:	06/21/07		
Prep Batch #...:	7172583				
Dilution Factor:	1.78				
Analyst ID.....:	999995	Instrument ID..:	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	0.079	0.018	%(v/v)	0.0036
Carbon monoxide	ND	0.0018	%(v/v)	0.00053
Methane	0.00036	0.00036	%(v/v)	0.00011
Oxygen	39	0.36	%(v/v)	0.053

Stratus Environmental Inc

Client Sample ID: RSG-1-5

GC Volatiles

Lot-Sample #...:	E7F140452-001	Work Order #...:	J03DC1AF	Matrix.....:	V
Date Sampled...:	06/13/07	Date Received..:	06/14/07		
Prep Date.....:	06/18/07	Analysis Date..:	06/18/07		
Prep Batch #...:	7171390				
Dilution Factor:	1.78				
Analyst ID.....:	402431	Instrument ID..:	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	7300	ug/m3	2100

Stratus Environmental Inc

Client Sample ID: RSG-1-7

GC/MS Volatiles

Lot-Sample #...: E7F140452-002	**Work Order #...:** J03DF1AE	**Matrix.....:** V	
Date Sampled...: 06/13/07	**Date Received..:** 06/14/07		
Prep Date.....: 06/21/07	**Analysis Date..:** 06/21/07		
Prep Batch #...: 7176516			
Dilution Factor: 1.24			
Analyst ID.....: 101605	**Instrument ID..:** MSA		
	Method.....: EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	7.9	ug/m3	3.2
tert-Butyl alcohol	ND DH	38	ug/m3	7.4
Diisopropyl ether	ND DH	10	ug/m3	2.1
Ethanol	ND DH	93	ug/m3	47
Tert-amyl methyl ether	ND DH	10	ug/m3	2.6
Tert-butyl ethyl ether	ND DH	10	ug/m3	2.1
Ethylbenzene	ND DH	11	ug/m3	5.3
Isopropanol	ND DH	29	ug/m3	12
Methyl tert-butyl ether (MTBE)	ND DH	8.9	ug/m3	2.2
Toluene	ND DH	9.3	ug/m3	2.4
m-Xylene & p-Xylene	ND DH	11	ug/m3	5.3
o-Xylene	ND DH	11	ug/m3	3.2
Xylenes (total)	ND DH	11	ug/m3	3.2

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-1-7

GC Volatiles

Lot-Sample #...:	E7F140452-002	**Work Order #...:**	J03DF1AG	**Matrix.....:**	V
Date Sampled...:	06/13/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7172583				
Dilution Factor:	1.79				
Analyst ID.....:	999995	**Instrument ID..:**	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.35**	**0.018**	**%(v/v)**	**0.0036**
Carbon monoxide	ND	0.0018	%(v/v)	0.00054
Methane	ND	0.00036	%(v/v)	0.00011
Oxygen	**21**	**0.36**	**%(v/v)**	**0.054**

Stratus Environmental Inc

Client Sample ID: RSG-1-7

GC Volatiles

Lot-Sample #...:	E7F140452-002	**Work Order #...:**	J03DF1AF	**Matrix.....:**	V
Date Sampled...:	06/13/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/18/07	**Analysis Date..:**	06/18/07		
Prep Batch #...:	7171390				
Dilution Factor:	1.79				
Analyst ID.....:	402431	**Instrument ID..:**	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	7300	ug/m3	2100

Stratus Environmental Inc

Client Sample ID: RSG-2-5

GC/MS Volatiles

Lot-Sample #...: E7F140452-003 **Work Order #...:** J03DH1AE **Matrix.....:** V
Date Sampled...: 06/13/07 **Date Received..:** 06/14/07
Prep Date.....: 06/21/07 **Analysis Date..:** 06/21/07
Prep Batch #...: 7176516
Dilution Factor: 1.92
Analyst ID.....: 101605 **Instrument ID..:** MSA
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	12	ug/m3	5.0
tert-Butyl alcohol	ND DH	58	ug/m3	12
Diisopropyl ether	ND DH	16	ug/m3	3.3
Ethanol	ND DH	140	ug/m3	73
Tert-amyl methyl ether	ND DH	16	ug/m3	4.0
Tert-butyl ethyl ether	ND DH	16	ug/m3	3.3
Ethylbenzene	ND DH	17	ug/m3	8.3
Isopropanol	ND DH	45	ug/m3	18
Methyl tert-butyl ether (MTBE)	ND DH	14	ug/m3	3.5
Toluene	ND DH	14	ug/m3	3.6
m-Xylene & p-Xylene	ND DH	17	ug/m3	8.3
o-Xylene	ND DH	17	ug/m3	5.0
Xylenes (total)	ND DH	17	ug/m3	5.0

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-2-5

GC Volatiles

Lot-Sample #...:	E7F140452-003	**Work Order #...:**	J03DH1AG	**Matrix.....:**	V
Date Sampled...:	06/13/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7172583				
Dilution Factor:	2.52				
Analyst ID.....:	999995	**Instrument ID..:**	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.28**	**0.025**	**%(v/v)**	**0.0050**
Carbon monoxide	ND	0.0025	%(v/v)	0.00076
Methane	ND	0.00050	%(v/v)	0.00015
Oxygen	**21**	**0.50**	**%(v/v)**	**0.076**

Stratus Environmental Inc

Client Sample ID: RSG-2-5

GC Volatiles

Lot-Sample #...:	E7F140452-003	**Work Order #...:**	J03DH1AF	**Matrix.....:**	V
Date Sampled...:	06/13/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/18/07	**Analysis Date..:**	06/18/07		
Prep Batch #...:	7171390				
Dilution Factor:	2.53				
Analyst ID.....:	402431	**Instrument ID..:**	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	10000	ug/m3	3000

Stratus Environmental Inc

Client Sample ID: RSG-2-8.5

GC/MS Volatiles

Lot-Sample #...:	E7F140452-004	**Work Order #...:**	J03DL1AE	**Matrix.....:**	V
Date Sampled...:	06/13/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7176516				
Dilution Factor:	1.28				
Analyst ID.....:	101605	**Instrument ID..:**	MSA		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	8.2	ug/m3	3.3
tert-Butyl alcohol	ND DH	39	ug/m3	7.7
Diisopropyl ether	ND DH	11	ug/m3	2.2
Ethanol	ND DH	96	ug/m3	49
Tert-amyl methyl ether	ND DH	11	ug/m3	2.7
Tert-butyl ethyl ether	ND DH	11	ug/m3	2.2
Ethylbenzene	ND DH	11	ug/m3	5.5
Isopropanol	ND DH	30	ug/m3	12
Methyl tert-butyl ether (MTBE)	ND DH	9.2	ug/m3	2.3
Toluene	ND DH	9.6	ug/m3	2.4
m-Xylene & p-Xylene	ND DH	11	ug/m3	5.5
o-Xylene	ND DH	11	ug/m3	3.3
Xylenes (total)	ND DH	11	ug/m3	3.3

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-2-8.5

GC Volatiles

Lot-Sample #...:	E7F140452-004	Work Order #...:	J03DL1AG	Matrix.....:	V
Date Sampled...:	06/13/07	Date Received..:	06/14/07		
Prep Date.....:	06/21/07	Analysis Date..:	06/21/07		
Prep Batch #...:	7172583				
Dilution Factor:	1.94				
Analyst ID.....:	999995	Instrument ID..:	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.12**	**0.019**	**%(v/v)**	**0.0039**
Carbon monoxide	ND	0.0019	%(v/v)	0.00058
Methane	**0.00044**	**0.00039**	**%(v/v)**	**0.00012**
Oxygen	**22**	**0.39**	**%(v/v)**	**0.058**

Stratus Environmental Inc

Client Sample ID: RSG-2-8.5

GC Volatiles

Lot-Sample #...:	E7F140452-004	Work Order #...:	J03DL1AF	Matrix.....:	V
Date Sampled...:	06/13/07	Date Received..:	06/14/07		
Prep Date.....:	06/18/07	Analysis Date..:	06/18/07		
Prep Batch #...:	7171390				
Dilution Factor:	1.94				
Analyst ID.....:	402431	Instrument ID..:	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	8000	ug/m3	2300

Stratus Environmental Inc

Client Sample ID: RSG-3-5

GC/MS Volatiles

Lot-Sample #...:	E7F140452-005	**Work Order #...:**	J03DN1AE	**Matrix.....:**	V
Date Sampled...:	06/12/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7176516				
Dilution Factor:	1.26				
Analyst ID.....:	101605	**Instrument ID..:**	MSA		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	8.1	ug/m3	3.3
tert-Butyl alcohol	**51 DH**	**38**	**ug/m3**	**7.6**
Diisopropyl ether	ND DH	11	ug/m3	2.1
Ethanol	ND DH	94	ug/m3	48
Tert-amyl methyl ether	ND DH	11	ug/m3	2.6
Tert-butyl ethyl ether	ND DH	11	ug/m3	2.1
Ethylbenzene	ND DH	11	ug/m3	5.4
Isopropanol	ND DH	30	ug/m3	12
Methyl tert-butyl ether (MTBE)	ND DH	9.1	ug/m3	2.3
Toluene	ND DH	9.4	ug/m3	2.4
m-Xylene & p-Xylene	ND DH	11	ug/m3	5.4
o-Xylene	ND DH	11	ug/m3	3.3
Xylenes (total)	ND DH	11	ug/m3	3.3

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-3-5

GC Volatiles

Lot-Sample #...:	E7F140452-005	**Work Order #...:**	J03DN1AG	**Matrix.....:**	V
Date Sampled...:	06/12/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7172583				
Dilution Factor:	1.76				
Analyst ID.....:	999995	**Instrument ID..:**	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.061**	**0.018**	**%(v/v)**	**0.0035**
Carbon monoxide	ND	0.0018	%(v/v)	0.00053
Methane	ND	0.00035	%(v/v)	0.00011
Oxygen	**21**	**0.35**	**%(v/v)**	**0.053**

Stratus Environmental Inc

Client Sample ID: RSG-3-5

GC Volatiles

Lot-Sample #...:	E7F140452-005	Work Order #...:	J03DN1AF	Matrix.....:	V
Date Sampled...:	06/12/07	Date Received..:	06/14/07		
Prep Date.....:	06/18/07	Analysis Date..:	06/18/07		
Prep Batch #...:	7171390				
Dilution Factor:	1.76				
Analyst ID.....:	402431	Instrument ID..:	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	7200	ug/m3	2100

Stratus Environmental Inc

Client Sample ID: RSG-3-7

GC/MS Volatiles

Lot-Sample #...:	E7F140452-006	**Work Order #...:**	J03DQ1AE	**Matrix.....:**	V
Date Sampled...:	06/12/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7176516				
Dilution Factor:	1.34				
Analyst ID.....:	101605	**Instrument ID..:**	MSA		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	8.6	ug/m3	3.5
tert-Butyl alcohol	**54 DH**	**41**	**ug/m3**	**8.0**
Diisopropyl ether	ND DH	11	ug/m3	2.3
Ethanol	ND DH	100	ug/m3	51
Tert-amyl methyl ether	ND DH	11	ug/m3	2.8
Tert-butyl ethyl ether	ND DH	11	ug/m3	2.3
Ethylbenzene	ND DH	12	ug/m3	5.8
Isopropanol	ND DH	32	ug/m3	13
Methyl tert-butyl ether (MTBE)	ND DH	9.6	ug/m3	2.4
Toluene	ND DH	10	ug/m3	2.5
m-Xylene & p-Xylene	ND DH	12	ug/m3	5.8
o-Xylene	ND DH	12	ug/m3	3.5
Xylenes (total)	ND DH	12	ug/m3	3.5

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-3-7

GC Volatiles

Lot-Sample #...:	E7F140452-006	**Work Order #...:**	J03DQ1AG	**Matrix.....:**	V
Date Sampled...:	06/12/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7172583				
Dilution Factor:	1.84				
Analyst ID.....:	999995	**Instrument ID..:**	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.075**	**0.018**	**%(v/v)**	**0.0037**
Carbon monoxide	ND	0.0018	%(v/v)	0.00055
Methane	ND	0.00037	%(v/v)	0.00011
Oxygen	**22**	**0.37**	**%(v/v)**	**0.055**

Stratus Environmental Inc

Client Sample ID: RSG-3-7

GC Volatiles

Lot-Sample #...:	E7F140452-006	Work Order #...:	J03DQ1AF	Matrix.....:	V
Date Sampled...:	06/12/07	Date Received..:	06/14/07		
Prep Date.....:	06/18/07	Analysis Date..:	06/18/07		
Prep Batch #...:	7171390				
Dilution Factor:	1.84				
Analyst ID.....:	402431	Instrument ID..:	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	7500	ug/m3	2200

Stratus Environmental Inc

Client Sample ID: RSG-3-7D

GC/MS Volatiles

Lot-Sample #...:	E7F140452-007	**Work Order #...:**	J03DT1AE	**Matrix.....:**	V
Date Sampled...:	06/12/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7176516				
Dilution Factor:	1.65				
Analyst ID.....:	101605	**Instrument ID..:**	MSA		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	11	ug/m3	4.3
tert-Butyl alcohol	ND DH	50	ug/m3	9.9
Diisopropyl ether	ND DH	14	ug/m3	2.8
Ethanol	ND DH	120	ug/m3	63
Tert-amyl methyl ether	ND DH	14	ug/m3	3.5
Tert-butyl ethyl ether	ND DH	14	ug/m3	2.8
Ethylbenzene	ND DH	14	ug/m3	7.1
Isopropanol	ND DH	39	ug/m3	16
Methyl tert-butyl ether (MTBE)	ND DH	12	ug/m3	3.0
Toluene	ND DH	12	ug/m3	3.1
m-Xylene & p-Xylene	ND DH	14	ug/m3	7.1
o-Xylene	ND DH	14	ug/m3	4.3
Xylenes (total)	ND DH	14	ug/m3	4.3

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-3-7D

GC Volatiles

Lot-Sample #...:	E7F140452-007	Work Order #...:	J03DT1AG	Matrix.....:	V
Date Sampled...:	06/12/07	Date Received..:	06/14/07		
Prep Date.....:	06/21/07	Analysis Date..:	06/21/07		
Prep Batch #...:	7172583				
Dilution Factor:	1.8				
Analyst ID.....:	999995	Instrument ID..:	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.078**	**0.018**	**%(v/v)**	**0.0036**
Carbon monoxide	ND	0.0018	%(v/v)	0.00054
Methane	**0.00036**	**0.00036**	**%(v/v)**	**0.00011**
Oxygen	**37**	**0.36**	**%(v/v)**	**0.054**

Stratus Environmental Inc

Client Sample ID: RSG-3-7D

GC Volatiles

Lot-Sample #...:	E7F140452-007	**Work Order #...:**	J03DT1AF	**Matrix.....:**	V
Date Sampled...:	06/12/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/18/07	**Analysis Date..:**	06/18/07		
Prep Batch #...:	7171390				
Dilution Factor:	1.81				
Analyst ID.....:	402431	**Instrument ID..:**	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	7400	ug/m3	2200

Stratus Environmental Inc

Client Sample ID: RSG-4-5

GC/MS Volatiles

Lot-Sample #...:	E7F140452-008	**Work Order #...:**	J03DW1AE	**Matrix.....:**	V
Date Sampled...:	06/12/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7176516				
Dilution Factor:	1.13				
Analyst ID.....:	101605	**Instrument ID..:**	MSA		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	7.2	ug/m3	2.9
tert-Butyl alcohol	ND DH	34	ug/m3	6.8
Diisopropyl ether	ND DH	9.4	ug/m3	1.9
Ethanol	ND DH	85	ug/m3	43
Tert-amyl methyl ether	ND DH	9.4	ug/m3	2.4
Tert-butyl ethyl ether	ND DH	9.4	ug/m3	1.9
Ethylbenzene	ND DH	9.8	ug/m3	4.9
Isopropanol	ND DH	27	ug/m3	11
Methyl tert-butyl ether (MTBE)	ND DH	8.1	ug/m3	2.0
Toluene	ND DH	8.5	ug/m3	2.1
m-Xylene & p-Xylene	ND DH	9.8	ug/m3	4.9
o-Xylene	ND DH	9.8	ug/m3	2.9
Xylenes (total)	ND DH	9.8	ug/m3	2.9

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-4-5

GC Volatiles

Lot-Sample #...:	E7F140452-008	**Work Order #...:**	J03DW1AG	**Matrix.....:**	V
Date Sampled...:	06/12/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7172583				
Dilution Factor:	1.62				
Analyst ID.....:	999995	**Instrument ID..:**	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**5.6**	**0.016**	**%(v/v)**	**0.0032**
Carbon monoxide	ND	0.0016	%(v/v)	0.00049
Methane	**0.00058**	**0.00032**	**%(v/v)**	**0.000097**
Oxygen	**5.5**	**0.32**	**%(v/v)**	**0.049**

Stratus Environmental Inc

Client Sample ID: RSG-4-5

GC Volatiles

Lot-Sample #...:	E7F140452-008	Work Order #...:	J03DW1AF	Matrix.....:	V
Date Sampled...:	06/12/07	Date Received..:	06/14/07		
Prep Date.....:	06/18/07	Analysis Date..:	06/18/07		
Prep Batch #...:	7171390				
Dilution Factor:	1.65				
Analyst ID.....:	402431	Instrument ID..:	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	6800	ug/m3	2000

Stratus Environmental Inc

Client Sample ID: RSG-4-8.5

GC/MS Volatiles

Lot-Sample #...: E7F140452-009 **Work Order #...:** J03D21AE **Matrix.....:** V
Date Sampled...: 06/12/07 **Date Received..:** 06/14/07
Prep Date.....: 06/21/07 **Analysis Date..:** 06/21/07
Prep Batch #...: 7176516
Dilution Factor: 1.18
Analyst ID.....: 101605 **Instrument ID..:** MSA
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	7.6	ug/m3	3.1
tert-Butyl alcohol	ND DH	36	ug/m3	7.1
Diisopropyl ether	ND DH	9.8	ug/m3	2.0
Ethanol	ND DH	88	ug/m3	45
Tert-amyl methyl ether	ND DH	9.8	ug/m3	2.5
Tert-butyl ethyl ether	ND DH	9.8	ug/m3	2.0
Ethylbenzene	ND DH	10	ug/m3	5.1
Isopropanol	ND DH	28	ug/m3	11
Methyl tert-butyl ether (MTBE)	ND DH	8.5	ug/m3	2.1
Toluene	ND DH	8.8	ug/m3	2.2
m-Xylene & p-Xylene	ND DH	10	ug/m3	5.1
o-Xylene	ND DH	10	ug/m3	3.1
Xylenes (total)	ND DH	10	ug/m3	3.1

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-4-8.5

GC Volatiles

Lot-Sample #...:	E7F140452-009	**Work Order #...:**	J03D21AG	**Matrix.....:**	V
Date Sampled...:	06/12/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7172583				
Dilution Factor:	1.76				
Analyst ID.....:	999995	**Instrument ID..:**	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**6.8**	**0.018**	**%(v/v)**	**0.0035**
Carbon monoxide	ND	0.0018	%(v/v)	0.00053
Methane	ND	0.00035	%(v/v)	0.00011
Oxygen	**2.6**	**0.35**	**%(v/v)**	**0.053**

Stratus Environmental Inc

Client Sample ID: RSG-4-8.5

GC Volatiles

Lot-Sample #...:	E7F140452-009	**Work Order #...:**	J03D21AF	**Matrix.....:**	V
Date Sampled...:	06/12/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/18/07	**Analysis Date..:**	06/18/07		
Prep Batch #...:	7171390				
Dilution Factor:	1.77				
Analyst ID.....:	402431	**Instrument ID..:**	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	7300	ug/m3	2100

Stratus Environmental Inc

Client Sample ID: RSG-5-5

GC/MS Volatiles

Lot-Sample #...:	E7F140452-010	**Work Order #...:**	J03D51AE	**Matrix.....:**	V
Date Sampled...:	06/12/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7176516				
Dilution Factor:	1.01				
Analyst ID.....:	101605	**Instrument ID..:**	MSA		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	6.5	ug/m3	2.6
tert-Butyl alcohol	ND DH	31	ug/m3	6.1
Diisopropyl ether	ND DH	8.4	ug/m3	1.7
Ethanol	ND DH	76	ug/m3	38
Tert-amyl methyl ether	ND DH	8.4	ug/m3	2.1
Tert-butyl ethyl ether	ND DH	8.4	ug/m3	1.7
Ethylbenzene	ND DH	8.8	ug/m3	4.3
Isopropanol	ND DH	24	ug/m3	9.6
Methyl tert-butyl ether (MTBE)	ND DH	7.3	ug/m3	1.8
Toluene	ND DH	7.6	ug/m3	1.9
m-Xylene & p-Xylene	ND DH	8.8	ug/m3	4.3
o-Xylene	ND DH	8.8	ug/m3	2.6
Xylenes (total)	ND DH	8.8	ug/m3	2.6

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-5-5

GC Volatiles

Lot-Sample #...:	E7F140452-010	**Work Order #...:**	J03D51AG	**Matrix.....:**	V
Date Sampled...:	06/12/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7172583				
Dilution Factor:	1.97				
Analyst ID.....:	999995	**Instrument ID..:**	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.067**	**0.020**	**%(v/v)**	**0.0039**
Carbon monoxide	ND	0.0020	%(v/v)	0.00059
Methane	ND	0.00039	%(v/v)	0.00012
Oxygen	**22**	**0.39**	**%(v/v)**	**0.059**

Stratus Environmental Inc

Client Sample ID: RSG-5-5

GC Volatiles

Lot-Sample #...:	E7F140452-010	**Work Order #...:**	J03D51AF	**Matrix.....:**	V
Date Sampled...:	06/12/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/18/07	**Analysis Date..:**	06/18/07		
Prep Batch #...:	7171390				
Dilution Factor:	1.97				
Analyst ID.....:	402431	**Instrument ID..:**	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	8100	ug/m3	2400

Stratus Environmental Inc

Client Sample ID: RSG-5-8.5

GC/MS Volatiles

Lot-Sample #...: E7F140452-011 Work Order #...: J03D81AE Matrix.....: V
Date Sampled...: 06/12/07 Date Received..: 06/14/07
Prep Date.....: 06/22/07 Analysis Date..: 06/22/07
Prep Batch #...: 7176516
Dilution Factor: 1.14
Analyst ID.....: 101605 Instrument ID..: MSA
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	7.3	ug/m3	3.0
tert-Butyl alcohol	**43 DH**	**34**	**ug/m3**	**6.8**
Diisopropyl ether	ND DH	9.5	ug/m3	1.9
Ethanol	ND DH	86	ug/m3	43
Tert-amyl methyl ether	ND DH	9.5	ug/m3	2.4
Tert-butyl ethyl ether	ND DH	9.5	ug/m3	1.9
Ethylbenzene	ND DH	9.9	ug/m3	4.9
Isopropanol	ND DH	27	ug/m3	11
Methyl tert-butyl ether (MTBE)	**10 DH**	**8.2**	**ug/m3**	**2.1**
Toluene	**10 DH**	**8.6**	**ug/m3**	**2.2**
m-Xylene & p-Xylene	**12 DH**	**9.9**	**ug/m3**	**4.9**
o-Xylene	ND DH	9.9	ug/m3	3.0
Xylenes (total)	**12 DH**	**9.9**	**ug/m3**	**3.0**

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-5-8.5

GC Volatiles

Lot-Sample #...:	E7F140452-011	**Work Order #...:**	J03D81AG	**Matrix.....:**	V
Date Sampled...:	06/12/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7172583				
Dilution Factor:	1.87				
Analyst ID.....:	999995	**Instrument ID..:**	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.25**	**0.019**	**%(v/v)**	**0.0037**
Carbon monoxide	ND	0.0019	%(v/v)	0.00056
Methane	ND	0.00037	%(v/v)	0.00011
Oxygen	**21**	**0.37**	**%(v/v)**	**0.056**

Stratus Environmental Inc

Client Sample ID: RSG-5-8.5

GC Volatiles

Lot-Sample #...:	E7F140452-011	Work Order #...:	J03D81AF	Matrix.....:	V
Date Sampled...:	06/12/07	Date Received..:	06/14/07		
Prep Date.....:	06/18/07	Analysis Date..:	06/18/07		
Prep Batch #...:	7171390				
Dilution Factor:	1.87				
Analyst ID.....:	402431	Instrument ID..:	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	7700	ug/m3	2200

Stratus Environmental Inc

Client Sample ID: RSG-6-5

GC/MS Volatiles

Lot-Sample #...: E7F140452-012	**Work Order #...:** J03D91AE	**Matrix.....:** V	
Date Sampled...: 06/11/07	**Date Received..:** 06/14/07		
Prep Date.....: 06/22/07	**Analysis Date..:** 06/22/07		
Prep Batch #...: 7176516			
Dilution Factor: 1.49			
Analyst ID.....: 101605	**Instrument ID..:** MSA		
	Method.....: EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	9.5	ug/m3	3.9
tert-Butyl alcohol	ND DH	45	ug/m3	8.9
Diisopropyl ether	ND DH	12	ug/m3	2.5
Ethanol	ND DH	110	ug/m3	57
Tert-amyl methyl ether	ND DH	12	ug/m3	3.1
Tert-butyl ethyl ether	ND DH	12	ug/m3	2.5
Ethylbenzene	ND DH	13	ug/m3	6.4
Isopropanol	ND DH	35	ug/m3	14
Methyl tert-butyl ether (MTBE)	ND DH	11	ug/m3	2.7
Toluene	ND DH	11	ug/m3	2.8
m-Xylene & p-Xylene	ND DH	13	ug/m3	6.4
o-Xylene	ND DH	13	ug/m3	3.9
Xylenes (total)	ND DH	13	ug/m3	3.9

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-6-5

GC Volatiles

Lot-Sample #...:	E7F140452-012	**Work Order #...:**	J03D91AG	**Matrix.....:**	V
Date Sampled...:	06/11/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7172583				
Dilution Factor:	1.94				
Analyst ID.....:	999995	**Instrument ID..:**	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.055**	**0.019**	**%(v/v)**	**0.0039**
Carbon monoxide	ND	0.0019	%(v/v)	0.00058
Methane	ND	0.00039	%(v/v)	0.00012
Oxygen	**22**	**0.39**	**%(v/v)**	**0.058**

Stratus Environmental Inc

Client Sample ID: RSG-6-5

GC Volatiles

Lot-Sample #...:	E7F140452-012	**Work Order #...:**	J03D91AF	**Matrix.....:**	V
Date Sampled...:	06/11/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/18/07	**Analysis Date..:**	06/18/07		
Prep Batch #...:	7171390				
Dilution Factor:	1.94				
Analyst ID.....:	402431	**Instrument ID..:**	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	8000	ug/m3	2300

Stratus Environmental Inc

Client Sample ID: RSG-6-5D

GC/MS Volatiles

Lot-Sample #...: E7F140452-013 **Work Order #...:** J03EA1AE **Matrix.....:** V
Date Sampled...: 06/11/07 **Date Received..:** 06/14/07
Prep Date.....: 06/22/07 **Analysis Date..:** 06/22/07
Prep Batch #...: 7176516
Dilution Factor: 1.33
Analyst ID.....: 101605 **Instrument ID..:** MSA
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	8.5	ug/m3	3.5
tert-Butyl alcohol	ND DH	40	ug/m3	8.0
Diisopropyl ether	ND DH	11	ug/m3	2.3
Ethanol	ND DH	100	ug/m3	51
Tert-amyl methyl ether	ND DH	11	ug/m3	2.8
Tert-butyl ethyl ether	ND DH	11	ug/m3	2.3
Ethylbenzene	ND DH	12	ug/m3	5.7
Isopropanol	ND DH	31	ug/m3	13
Methyl tert-butyl ether (MTBE)	ND DH	9.6	ug/m3	2.4
Toluene	ND DH	10	ug/m3	2.5
m-Xylene & p-Xylene	ND DH	12	ug/m3	5.7
o-Xylene	ND DH	12	ug/m3	3.5
Xylenes (total)	ND DH	12	ug/m3	3.5

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-6-5D

GC Volatiles

Lot-Sample #...:	E7F140452-013	**Work Order #...:**	J03EA1AG	**Matrix.....:**	V
Date Sampled...:	06/11/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7172583				
Dilution Factor:	1.98				
Analyst ID.....:	999995	**Instrument ID..:**	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.053**	**0.020**	**%(v/v)**	**0.0040**
Carbon monoxide	ND	0.0020	%(v/v)	0.00059
Methane	ND	0.00040	%(v/v)	0.00012
Oxygen	**21**	**0.40**	**%(v/v)**	**0.059**

Stratus Environmental Inc

Client Sample ID: RSG-6-5D

GC Volatiles

Lot-Sample #...:	E7F140452-013	Work Order #...:	J03EA1AF	Matrix.....:	V
Date Sampled...:	06/11/07	Date Received..:	06/14/07		
Prep Date.....:	06/18/07	Analysis Date..:	06/18/07		
Prep Batch #...:	7171390				
Dilution Factor:	1.98				
Analyst ID.....:	402431	Instrument ID..:	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	8100	ug/m3	2400

Stratus Environmental Inc

Client Sample ID: RSG-6-9.5

GC/MS Volatiles

Lot-Sample #...: E7F140452-014 Work Order #...: J03EC1AE Matrix.....: V
Date Sampled...: 06/11/07 Date Received..: 06/14/07
Prep Date.....: 06/22/07 Analysis Date..: 06/22/07
Prep Batch #...: 7176516
Dilution Factor: 1.13
Analyst ID.....: 101605 Instrument ID..: MSA
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	7.2	ug/m3	2.9
tert-Butyl alcohol	**72 DH**	**34**	**ug/m3**	**6.8**
Diisopropyl ether	ND DH	9.4	ug/m3	1.9
Ethanol	ND DH	85	ug/m3	43
Tert-amyl methyl ether	ND DH	9.4	ug/m3	2.4
Tert-butyl ethyl ether	ND DH	9.4	ug/m3	1.9
Ethylbenzene	ND DH	9.8	ug/m3	4.9
Isopropanol	ND DH	27	ug/m3	11
Methyl tert-butyl ether (MTBE)	ND DH	8.1	ug/m3	2.0
Toluene	ND	8.5	ug/m3	2.1
m-Xylene & p-Xylene	ND DH	9.8	ug/m3	4.9
o-Xylene	ND DH	9.8	ug/m3	2.9
Xylenes (total)	ND DH	9.8	ug/m3	2.9

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-6-9.5

GC Volatiles

Lot-Sample #...:	E7F140452-014	**Work Order #...:**	J03EC1AG	**Matrix.....:**	V
Date Sampled...:	06/11/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7172583				
Dilution Factor:	1.93				
Analyst ID.....:	999995	**Instrument ID..:**	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.32**	**0.019**	**%(v/v)**	**0.0039**
Carbon monoxide	ND	0.0019	%(v/v)	0.00058
Methane	ND	0.00039	%(v/v)	0.00012
Oxygen	**21**	**0.39**	**%(v/v)**	**0.058**

Stratus Environmental Inc

Client Sample ID: RSG-6-9.5

GC Volatiles

Lot-Sample #...:	E7F140452-014	**Work Order #...:**	J03EC1AF	**Matrix.....:**	V
Date Sampled...:	06/11/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/18/07	**Analysis Date..:**	06/18/07		
Prep Batch #...:	7171390				
Dilution Factor:	1.93				
Analyst ID.....:	402431	**Instrument ID..:**	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	7900	ug/m3	2300

Stratus Environmental Inc

Client Sample ID: RSG-7-5

GC/MS Volatiles

Lot-Sample #...: E7F140452-015	**Work Order #...:** J03ED1AE	**Matrix.....:** V	
Date Sampled...: 06/12/07	**Date Received..:** 06/14/07		
Prep Date.....: 06/22/07	**Analysis Date..:** 06/22/07		
Prep Batch #...: 7176516			
Dilution Factor: 1			
Analyst ID.....: 101605	**Instrument ID..:** MSA		
	Method.....: EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	6.4	ug/m3	2.6
tert-Butyl alcohol	ND DH	30	ug/m3	6.0
Diisopropyl ether	ND DH	8.3	ug/m3	1.7
Ethanol	ND DH	75	ug/m3	38
Tert-amyl methyl ether	ND DH	8.3	ug/m3	2.1
Tert-butyl ethyl ether	ND DH	8.3	ug/m3	1.7
Ethylbenzene	ND DH	8.7	ug/m3	4.3
Isopropanol	ND DH	24	ug/m3	9.5
Methyl tert-butyl ether (MTBE)	ND DH	7.2	ug/m3	1.8
Toluene	ND DH	7.5	ug/m3	1.9
m-Xylene & p-Xylene	ND DH	8.7	ug/m3	4.3
o-Xylene	ND DH	8.7	ug/m3	2.6
Xylenes (total)	ND DH	8.7	ug/m3	2.6

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-7-5

GC Volatiles

Lot-Sample #...:	E7F140452-015	**Work Order #...:**	J03ED1AG	**Matrix.....:**	V
Date Sampled...:	06/12/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7172583				
Dilution Factor:	2.08				
Analyst ID.....:	999995	**Instrument ID..:**	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.074**	**0.021**	**%(v/v)**	**0.0042**
Carbon monoxide	ND	0.0021	%(v/v)	0.00062
Methane	ND	0.00042	%(v/v)	0.00012
Oxygen	**22**	**0.42**	**%(v/v)**	**0.062**

Stratus Environmental Inc

Client Sample ID: RSG-7-5

GC Volatiles

Lot-Sample #...:	E7F140452-015	Work Order #...:	J03ED1AF	Matrix.....:	V
Date Sampled...:	06/12/07	Date Received..:	06/14/07		
Prep Date.....:	06/18/07	Analysis Date..:	06/18/07		
Prep Batch #...:	7171390				
Dilution Factor:	2.09				
Analyst ID.....:	402431	Instrument ID..:	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	8600	ug/m3	2500

Stratus Environmental Inc

Client Sample ID: RSG-7-10

GC/MS Volatiles

Lot-Sample #...:	E7F140452-016	**Work Order #...:**	J03EE1AE	**Matrix.....:**	V
Date Sampled...:	06/12/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/22/07	**Analysis Date..:**	06/22/07		
Prep Batch #...:	7176516				
Dilution Factor:	1				
Analyst ID.....:	101605	**Instrument ID..:**	MSA		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	6.4	ug/m3	2.6
tert-Butyl alcohol	ND DH	30	ug/m3	6.0
Diisopropyl ether	ND DH	8.3	ug/m3	1.7
Ethanol	ND DH	75	ug/m3	38
Tert-amyl methyl ether	ND DH	8.3	ug/m3	2.1
Tert-butyl ethyl ether	ND DH	8.3	ug/m3	1.7
Ethylbenzene	ND DH	8.7	ug/m3	4.3
Isopropanol	ND DH	24	ug/m3	9.5
Methyl tert-butyl ether (MTBE)	ND DH	7.2	ug/m3	1.8
Toluene	ND DH	7.5	ug/m3	1.9
m-Xylene & p-Xylene	ND DH	8.7	ug/m3	4.3
o-Xylene	ND DH	8.7	ug/m3	2.6
Xylenes (total)	ND DH	8.7	ug/m3	2.6

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-7-10

GC Volatiles

Lot-Sample #...:	E7F140452-016	**Work Order #...:**	J03EE1AG	**Matrix.....:**	V
Date Sampled...:	06/12/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7172583				
Dilution Factor:	1.94				
Analyst ID.....:	999995	**Instrument ID..:**	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.087**	**0.019**	**%(v/v)**	**0.0039**
Carbon monoxide	ND	0.0019	%(v/v)	0.00058
Methane	ND	0.00039	%(v/v)	0.00012
Oxygen	**42**	**0.39**	**%(v/v)**	**0.058**

Stratus Environmental Inc

Client Sample ID: RSG-7-10

GC Volatiles

Lot-Sample #...:	E7F140452-016	**Work Order #...:**	J03EE1AF	**Matrix.....:**	V
Date Sampled...:	06/12/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/18/07	**Analysis Date..:**	06/18/07		
Prep Batch #...:	7171390				
Dilution Factor:	1.94				
Analyst ID.....:	402431	**Instrument ID..:**	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	8000	ug/m3	2300

Stratus Environmental Inc

Client Sample ID: RSG-8-5

GC/MS Volatiles

Lot-Sample #...:	E7F140452-017	**Work Order #...:**	J03EF1AE	**Matrix.....:**	V
Date Sampled...:	06/11/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/25/07	**Analysis Date..:**	06/25/07		
Prep Batch #...:	7177292				
Dilution Factor:	1.92				
Analyst ID.....:	101605	**Instrument ID..:**	MSA		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	12	ug/m3	5.0
tert-Butyl alcohol	ND DH	58	ug/m3	12
Diisopropyl ether	ND DH	16	ug/m3	3.3
Ethanol	ND DH	140	ug/m3	73
Tert-amyl methyl ether	ND DH	16	ug/m3	4.0
Tert-butyl ethyl ether	ND DH	16	ug/m3	3.3
Ethylbenzene	ND DH	17	ug/m3	8.3
Isopropanol	ND DH	45	ug/m3	18
Methyl tert-butyl ether (MTBE)	ND DH	14	ug/m3	3.5
Toluene	ND DH	14	ug/m3	3.6
m-Xylene & p-Xylene	ND DH	17	ug/m3	8.3
o-Xylene	ND DH	17	ug/m3	5.0
Xylenes (total)	ND DH	17	ug/m3	5.0

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-8-5

GC Volatiles

Lot-Sample #...:	E7F140452-017	**Work Order #...:**	J03EF1AG	**Matrix.....:**	V
Date Sampled...:	06/11/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7172583				
Dilution Factor:	2.03				
Analyst ID.....:	999995	**Instrument ID..:**	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.056**	**0.020**	**%(v/v)**	**0.0041**
Carbon monoxide	ND	0.0020	%(v/v)	0.00061
Methane	ND	0.00041	%(v/v)	0.00012
Oxygen	**22**	**0.41**	**%(v/v)**	**0.061**

Stratus Environmental Inc

Client Sample ID: RSG-8-5

GC Volatiles

Lot-Sample #...:	E7F140452-017	Work Order #...:	J03EF1AF	Matrix.....:	V
Date Sampled...:	06/11/07	Date Received..:	06/14/07		
Prep Date.....:	06/18/07	Analysis Date..:	06/18/07		
Prep Batch #...:	7171390				
Dilution Factor:	2.03				
Analyst ID.....:	402431	Instrument ID..:	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	8300	ug/m3	2400

Stratus Environmental Inc

Client Sample ID: RSG-8-9

GC/MS Volatiles

Lot-Sample #...: E7F140452-018	**Work Order #...:** J03EG1AE	**Matrix.....:** V	
Date Sampled...: 06/11/07	**Date Received..:** 06/14/07		
Prep Date.....: 06/25/07	**Analysis Date..:** 06/25/07		
Prep Batch #...: 7177292			
Dilution Factor: 1.24			
Analyst ID.....: 101605	**Instrument ID..:** MSA		
	Method.....: EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	7.9	ug/m3	3.2
tert-Butyl alcohol	ND DH	38	ug/m3	7.4
Diisopropyl ether	ND DH	10	ug/m3	2.1
Ethanol	ND DH	93	ug/m3	47
Tert-amyl methyl ether	ND DH	10	ug/m3	2.6
Tert-butyl ethyl ether	ND DH	10	ug/m3	2.1
Ethylbenzene	ND DH	11	ug/m3	5.3
Isopropanol	ND DH	29	ug/m3	12
Methyl tert-butyl ether (MTBE)	ND DH	8.9	ug/m3	2.2
Toluene	ND DH	9.3	ug/m3	2.4
m-Xylene & p-Xylene	ND DH	11	ug/m3	5.3
o-Xylene	ND DH	11	ug/m3	3.2
Xylenes (total)	ND DH	11	ug/m3	3.2

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-8-9

GC Volatiles

Lot-Sample #...:	E7F140452-018	Work Order #...:	J03EG1AG	Matrix.....:	V
Date Sampled...:	06/11/07	Date Received..:	06/14/07		
Prep Date.....:	06/21/07	Analysis Date..:	06/21/07		
Prep Batch #...:	7172583				
Dilution Factor:	2.09				
Analyst ID.....:	999995	Instrument ID..:	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**2.2**	**0.021**	**%(v/v)**	**0.0042**
Carbon monoxide	ND	0.0021	%(v/v)	0.00063
Methane	**0.00044**	**0.00042**	**%(v/v)**	**0.00013**
Oxygen	**16**	**0.42**	**%(v/v)**	**0.063**

Stratus Environmental Inc

Client Sample ID: RSG-8-9

GC Volatiles

Lot-Sample #...:	E7F140452-018	Work Order #...:	J03EG1AF	Matrix.....: V
Date Sampled...:	06/11/07	Date Received..:	06/14/07	
Prep Date.....:	06/18/07	Analysis Date..:	06/18/07	
Prep Batch #...:	7171390			
Dilution Factor:	2.09			
Analyst ID.....:	402431	Instrument ID..:	GC6	
		Method.....:	EPA-2 TO-3	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	8600	ug/m3	2500

Stratus Environmental Inc

Client Sample ID: RSG-9-5

GC/MS Volatiles

Lot-Sample #...: E7F140452-019	**Work Order #...:** J03EH1AE	**Matrix.....:** V	
Date Sampled...: 06/11/07	**Date Received..:** 06/14/07		
Prep Date.....: 06/25/07	**Analysis Date..:** 06/25/07		
Prep Batch #...: 7177292			
Dilution Factor: 1.09			
Analyst ID.....: 101605	**Instrument ID..:** MSA		
	Method.....: EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	7.0	ug/m3	2.8
tert-Butyl alcohol	ND DH	33	ug/m3	6.5
Diisopropyl ether	ND DH	9.1	ug/m3	1.9
Ethanol	ND DH	82	ug/m3	41
Tert-amyl methyl ether	ND DH	9.1	ug/m3	2.3
Tert-butyl ethyl ether	ND DH	9.1	ug/m3	1.9
Ethylbenzene	ND DH	9.5	ug/m3	4.7
Isopropanol	ND DH	26	ug/m3	10
Methyl tert-butyl ether (MTBE)	ND DH	7.8	ug/m3	2.0
Toluene	ND DH	8.2	ug/m3	2.1
m-Xylene & p-Xylene	ND DH	9.5	ug/m3	4.7
o-Xylene	ND DH	9.5	ug/m3	2.8
Xylenes (total)	ND DH	9.5	ug/m3	2.8

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-9-5

GC Volatiles

Lot-Sample #...:	E7F140452-019	**Work Order #...:**	J03EH1AG	**Matrix.....:**	V
Date Sampled...:	06/11/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7172583				
Dilution Factor:	1.91				
Analyst ID.....:	999995	**Instrument ID..:**	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.052**	**0.019**	**%(v/v)**	**0.0038**
Carbon monoxide	ND	0.0019	%(v/v)	0.00057
Methane	ND	0.00038	%(v/v)	0.00011
Oxygen	**22**	**0.38**	**%(v/v)**	**0.057**

Stratus Environmental Inc

Client Sample ID: RSG-9-5

GC Volatiles

Lot-Sample #...:	E7F140452-019	**Work Order #...:**	J03EH1AF	**Matrix.....:**	V
Date Sampled...:	06/11/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/18/07	**Analysis Date..:**	06/18/07		
Prep Batch #...:	7171390				
Dilution Factor:	1.91				
Analyst ID.....:	402431	**Instrument ID..:**	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	7800	ug/m3	2300

Stratus Environmental Inc

Client Sample ID: RSG-9-10

GC/MS Volatiles

Lot-Sample #...:	E7F140452-020	**Work Order #...:**	J03EJ1AE	**Matrix.....:**	V
Date Sampled...:	06/11/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/25/07	**Analysis Date..:**	06/25/07		
Prep Batch #...:	7177292				
Dilution Factor:	1.12				
Analyst ID.....:	101605	**Instrument ID..:**	MSA		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	7.2	ug/m3	2.9
tert-Butyl alcohol	**37 DH**	**34**	**ug/m3**	**6.7**
Diisopropyl ether	ND DH	9.3	ug/m3	1.9
Ethanol	ND DH	84	ug/m3	43
Tert-amyl methyl ether	ND DH	9.3	ug/m3	2.4
Tert-butyl ethyl ether	ND DH	9.3	ug/m3	1.9
Ethylbenzene	ND DH	9.7	ug/m3	4.8
Isopropanol	ND DH	26	ug/m3	11
Methyl tert-butyl ether (MTBE)	ND DH	8.1	ug/m3	2.0
Toluene	ND DH	8.4	ug/m3	2.1
m-Xylene & p-Xylene	ND DH	9.7	ug/m3	4.8
o-Xylene	ND DH	9.7	ug/m3	2.9
Xylenes (total)	ND DH	9.7	ug/m3	2.9

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-9-10

GC Volatiles

Lot-Sample #...:	E7F140452-020	**Work Order #...:**	J03EJ1AG	**Matrix.....:**	V
Date Sampled...:	06/11/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7172583				
Dilution Factor:	1.9				
Analyst ID.....:	999995	**Instrument ID..:**	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**3.2**	**0.019**	**%(v/v)**	**0.0038**
Carbon monoxide	ND	0.0019	%(v/v)	0.00057
Methane	ND	0.00038	%(v/v)	0.00011
Oxygen	**18**	**0.38**	**%(v/v)**	**0.057**

Stratus Environmental Inc

Client Sample ID: RSG-9-10

GC Volatiles

Lot-Sample #...:	E7F140452-020	Work Order #...:	J03EJ1AF	Matrix.....:	V
Date Sampled...:	06/11/07	Date Received..:	06/14/07		
Prep Date.....:	06/18/07	Analysis Date..:	06/18/07		
Prep Batch #...:	7171390				
Dilution Factor:	1.9				
Analyst ID.....:	402431	Instrument ID..:	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	7800	ug/m3	2300

Stratus Environmental Inc

Client Sample ID: RSG-10-5.5

GC/MS Volatiles

Lot-Sample #...:	E7F140452-021	**Work Order #...:**	J03EK1AE	**Matrix.....:**	V
Date Sampled...:	06/11/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/25/07	**Analysis Date..:**	06/25/07		
Prep Batch #...:	7177292				
Dilution Factor:	1				
Analyst ID.....:	101605	**Instrument ID..:**	MSA		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	6.4	ug/m3	2.6
tert-Butyl alcohol	**57**	**30**	**ug/m3**	**6.0**
Diisopropyl ether	ND	8.3	ug/m3	1.7
Ethanol	ND	75	ug/m3	38
Tert-amyl methyl ether	ND	8.3	ug/m3	2.1
Tert-butyl ethyl ether	ND	8.3	ug/m3	1.7
Ethylbenzene	**11**	**8.7**	**ug/m3**	**4.3**
Isopropanol	ND	24	ug/m3	9.5
Methyl tert-butyl ether (MTBE)	ND	7.2	ug/m3	1.8
Toluene	ND	7.5	ug/m3	1.9
m-Xylene & p-Xylene	**28**	**8.7**	**ug/m3**	**4.3**
o-Xylene	**10**	**8.7**	**ug/m3**	**2.6**
Xylenes (total)	**39**	**8.7**	**ug/m3**	**2.6**

Stratus Environmental Inc

Client Sample ID: RSG-10-5.5

GC Volatiles

Lot-Sample #...:	E7F140452-021	**Work Order #...:**	J03EK1AG	**Matrix.....:**	V
Date Sampled...:	06/11/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7176233				
Dilution Factor:	1.76				
Analyst ID.....:	999995	**Instrument ID..:**	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.071**	**0.018**	**%(v/v)**	**0.0035**
Carbon monoxide	ND	0.0018	%(v/v)	0.00053
Methane	**0.00045**	**0.00035**	**%(v/v)**	**0.00011**
Oxygen	**22**	**0.35**	**%(v/v)**	**0.053**

Stratus Environmental Inc

Client Sample ID: RSG-10-5.5

GC Volatiles

Lot-Sample #...:	E7F140452-021	**Work Order #...:**	J03EK1AF	**Matrix.....:**	V
Date Sampled...:	06/11/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/18/07	**Analysis Date..:**	06/18/07		
Prep Batch #...:	7171391				
Dilution Factor:	1.77				
Analyst ID.....:	402431	**Instrument ID..:**	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	7300	ug/m3	2100

Stratus Environmental Inc

Client Sample ID: RSG-10-10

GC/MS Volatiles

Lot-Sample #...: E7F140452-022	**Work Order #...:** J03EL1AE	**Matrix.....:** V	
Date Sampled...: 06/11/07	**Date Received..:** 06/14/07		
Prep Date.....: 06/25/07	**Analysis Date..:** 06/25/07		
Prep Batch #...: 7177292			
Dilution Factor: 1.13			
Analyst ID.....: 101605	**Instrument ID..:** MSA		
	Method.....: EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	7.2	ug/m3	2.9
tert-Butyl alcohol	**40 DH**	**34**	**ug/m3**	**6.8**
Diisopropyl ether	ND DH	9.4	ug/m3	1.9
Ethanol	ND DH	85	ug/m3	43
Tert-amyl methyl ether	ND DH	9.4	ug/m3	2.4
Tert-butyl ethyl ether	ND DH	9.4	ug/m3	1.9
Ethylbenzene	ND DH	9.8	ug/m3	4.9
Isopropanol	ND DH	27	ug/m3	11
Methyl tert-butyl ether (MTBE)	ND DH	8.1	ug/m3	2.0
Toluene	ND DH	8.5	ug/m3	2.1
m-Xylene & p-Xylene	ND DH	9.8	ug/m3	4.9
o-Xylene	ND DH	9.8	ug/m3	2.9
Xylenes (total)	ND DH	9.8	ug/m3	2.9

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-10-10

GC Volatiles

Lot-Sample #...:	E7F140452-022	**Work Order #...:**	J03EL1AG	**Matrix.....:**	V
Date Sampled...:	06/11/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7176233				
Dilution Factor:	2.02				
Analyst ID.....:	999995	**Instrument ID..:**	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.059**	**0.020**	**%(v/v)**	**0.0040**
Carbon monoxide	ND	0.0020	%(v/v)	0.00061
Methane	ND	0.00040	%(v/v)	0.00012
Oxygen	**22**	**0.40**	**%(v/v)**	**0.061**

Stratus Environmental Inc

Client Sample ID: RSG-10-10

GC Volatiles

Lot-Sample #...:	E7F140452-022	**Work Order #...:**	J03EL1AF	**Matrix.....:**	V
Date Sampled...:	06/11/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/18/07	**Analysis Date..:**	06/18/07		
Prep Batch #...:	7171391				
Dilution Factor:	2.02				
Analyst ID.....:	402431	**Instrument ID..:**	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	8300	ug/m3	2400

Stratus Environmental Inc

Client Sample ID: RSG-2-8.5D

GC/MS Volatiles

Lot-Sample #...: E7F140452-023	**Work Order #...:** J03EN1AE	**Matrix.....:** V	
Date Sampled...: 06/13/07	**Date Received..:** 06/14/07		
Prep Date.....: 06/25/07	**Analysis Date..:** 06/25/07		
Prep Batch #...: 7177292			
Dilution Factor: 1.36			
Analyst ID.....: 101605	**Instrument ID..:** MSA		
	Method.....: EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	8.7	ug/m3	3.5
tert-Butyl alcohol	ND DH	41	ug/m3	8.2
Diisopropyl ether	ND DH	11	ug/m3	2.3
Ethanol	ND DH	100	ug/m3	52
Tert-amyl methyl ether	ND DH	11	ug/m3	2.9
Tert-butyl ethyl ether	ND DH	11	ug/m3	2.3
Ethylbenzene	ND DH	12	ug/m3	5.8
Isopropanol	ND DH	32	ug/m3	13
Methyl tert-butyl ether (MTBE)	ND DH	9.8	ug/m3	2.4
Toluene	ND DH	10	ug/m3	2.6
m-Xylene & p-Xylene	ND DH	12	ug/m3	5.8
o-Xylene	ND DH	12	ug/m3	3.5
Xylenes (total)	ND DH	12	ug/m3	3.5

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: RSG-2-8.5D

GC Volatiles

Lot-Sample #...:	E7F140452-023	**Work Order #...:**	J03EN1AG	**Matrix.....:**	V
Date Sampled...:	06/13/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7176233				
Dilution Factor:	2.09				
Analyst ID.....:	999995	**Instrument ID..:**	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.12**	**0.021**	**%(v/v)**	**0.0042**
Carbon monoxide	ND	0.0021	%(v/v)	0.00063
Methane	**0.00044**	**0.00042**	**%(v/v)**	**0.00013**
Oxygen	**21**	**0.42**	**%(v/v)**	**0.063**

Stratus Environmental Inc

Client Sample ID: RSG-2-8.5D

GC Volatiles

Lot-Sample #...:	E7F140452-023	**Work Order #...:**	J03EN1AF	**Matrix.....:**	V
Date Sampled...:	06/13/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/18/07	**Analysis Date..:**	06/18/07		
Prep Batch #...:	7171391				
Dilution Factor:	2.1				
Analyst ID.....:	402431	**Instrument ID..:**	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	8600	ug/m3	2500

Stratus Environmental Inc

Client Sample ID: 06/11/07 AMBIENT AIR

GC/MS Volatiles

Lot-Sample #...: E7F140452-024	**Work Order #...:** J03EQ1AE	**Matrix.....:** V	
Date Sampled...: 06/11/07	**Date Received..:** 06/14/07		
Prep Date.....: 06/25/07	**Analysis Date..:** 06/25/07		
Prep Batch #...: 7177292			
Dilution Factor: 1.79			
Analyst ID.....: 101605	**Instrument ID..:** MSA		
	Method.....: EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND DH	11	ug/m3	4.7
tert-Butyl alcohol	ND DH	54	ug/m3	11
Diisopropyl ether	ND DH	15	ug/m3	3.0
Ethanol	ND DH	130	ug/m3	68
Tert-amyl methyl ether	ND DH	15	ug/m3	3.8
Tert-butyl ethyl ether	ND DH	15	ug/m3	3.0
Ethylbenzene	ND DH	16	ug/m3	7.7
Isopropanol	ND DH	42	ug/m3	17
Methyl tert-butyl ether (MTBE)	ND DH	13	ug/m3	3.2
Toluene	ND DH	13	ug/m3	3.4
m-Xylene & p-Xylene	ND DH	16	ug/m3	7.7
o-Xylene	ND DH	16	ug/m3	4.7
Xylenes (total)	ND DH	16	ug/m3	4.7

NOTE(S):

DH Reporting limits elevated due to insufficient sample quantity.

Stratus Environmental Inc

Client Sample ID: 06/11/07 AMBIENT AIR

GC Volatiles

Lot-Sample #...:	E7F140452-024	**Work Order #...:**	J03EQ1AG	**Matrix.....:**	V
Date Sampled...:	06/11/07	**Date Received..:**	06/14/07		
Prep Date.....:	06/21/07	**Analysis Date..:**	06/21/07		
Prep Batch #...:	7176233				
Dilution Factor:	2.84				
Analyst ID.....:	999995	**Instrument ID..:**	GC8		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.042**	**0.028**	**%(v/v)**	**0.0057**
Carbon monoxide	ND	0.0028	%(v/v)	0.00085
Methane	ND	0.00057	%(v/v)	0.00017
Oxygen	**22**	**0.57**	**%(v/v)**	**0.085**

Stratus Environmental Inc

Client Sample ID: 06/11/07 AMBIENT AIR

GC Volatiles

Lot-Sample #...:	E7F140452-024	Work Order #...:	J03EQ1AF	Matrix.....:	V
Date Sampled...:	06/11/07	Date Received..:	06/14/07		
Prep Date.....:	06/18/07	Analysis Date..:	06/18/07		
Prep Batch #...:	7171391				
Dilution Factor:	2.84				
Analyst ID.....:	402431	Instrument ID..:	GC6		
		Method.....:	EPA-2 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	ND	12000	ug/m3	3400

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E7F140452
MB Lot-Sample #: M7F250000-516
Analysis Date..: 06/21/07
Dilution Factor: 1

Work Order #...: J1Q3T1AA
Prep Date.....: 06/21/07
Prep Batch #...: 7176516
Analyst ID.....: 101605

Matrix.....: AIR
Instrument ID..: MSA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	6.4	ug/m3	EPA-2 TO-15
tert-Butyl alcohol	ND	30	ug/m3	EPA-2 TO-15
Diisopropyl ether	ND	8.3	ug/m3	EPA-2 TO-15
Ethanol	ND	75	ug/m3	EPA-2 TO-15
Tert-amyl methyl ether	ND	8.3	ug/m3	EPA-2 TO-15
Tert-butyl ethyl ether	ND	8.3	ug/m3	EPA-2 TO-15
Ethylbenzene	ND	8.7	ug/m3	EPA-2 TO-15
Isopropanol	ND	24	ug/m3	EPA-2 TO-15
Methyl tert-butyl ether (MTBE)	ND	7.2	ug/m3	EPA-2 TO-15
Toluene	ND	7.5	ug/m3	EPA-2 TO-15
m-Xylene & p-Xylene	ND	8.7	ug/m3	EPA-2 TO-15
o-Xylene	ND	8.7	ug/m3	EPA-2 TO-15
Xylenes (total)	ND	8.7	ug/m3	EPA-2 TO-15

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E7F140452 Work Order #...: J1R5A1AA Matrix.....: AIR
MB Lot-Sample #: M7F260000-292

Prep Date.....: 06/25/07 Instrument ID..: MSA
Analysis Date..: 06/25/07 Prep Batch #...: 7177292
Dilution Factor: 1

Analyst ID.....: 101605

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	6.4	ug/m3	EPA-2 TO-15
tert-Butyl alcohol	ND	30	ug/m3	EPA-2 TO-15
Diisopropyl ether	ND	8.3	ug/m3	EPA-2 TO-15
Ethanol	ND	75	ug/m3	EPA-2 TO-15
Tert-amyl methyl ether	ND	8.3	ug/m3	EPA-2 TO-15
Tert-butyl ethyl ether	ND	8.3	ug/m3	EPA-2 TO-15
Ethylbenzene	ND	8.7	ug/m3	EPA-2 TO-15
Isopropanol	ND	24	ug/m3	EPA-2 TO-15
Methyl tert-butyl ether (MTBE)	ND	7.2	ug/m3	EPA-2 TO-15
Toluene	ND	7.5	ug/m3	EPA-2 TO-15
m-Xylene & p-Xylene	ND	8.7	ug/m3	EPA-2 TO-15
o-Xylene	ND	8.7	ug/m3	EPA-2 TO-15
Xylenes (total)	ND	8.7	ug/m3	EPA-2 TO-15

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E7F140452
MB Lot-Sample #: M7F210000-583
Work Order #...: J1P6N1AA
Matrix.....: AIR
Prep Date.....: 06/21/07
Instrument ID..: GC8
Analysis Date..: 06/21/07
Prep Batch #...: 7172583
Dilution Factor: 1
Analyst ID.....: 999995

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon dioxide	ND	0.010	%(v/v)	ASTM D1946
Carbon monoxide	ND	0.0010	%(v/v)	ASTM D1946
Methane	ND	0.00020	%(v/v)	ASTM D1946
Oxygen	ND	0.20	%(v/v)	ASTM D1946

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E7F140452
MB Lot-Sample #: M7F250000-233
Analysis Date..: 06/21/07
Dilution Factor: 1

Work Order #...: J1P841AA
Prep Date.....: 06/21/07
Prep Batch #...: 7176233
Analyst ID.....: 999995

Matrix.....: AIR
Instrument ID..: GC8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon dioxide	ND	0.010	%(v/v)	ASTM D1946
Carbon monoxide	ND	0.0010	%(v/v)	ASTM D1946
Methane	ND	0.00020	%(v/v)	ASTM D1946
Oxygen	ND	0.20	%(v/v)	ASTM D1946

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E7F140452
MB Lot-Sample #: M7F200000-390
Analysis Date..: 06/18/07
Dilution Factor: 1

Work Order #...: J1D661AA
Prep Date.....: 06/18/07
Prep Batch #...: 7171390
Analyst ID.....: 402431

Matrix.....: AIR
Instrument ID..: GC6

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
GRO (C4 - C12)	ND	4100	ug/m3	EPA-2 TO-3

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E7F140452
Work Order #...: J1ER21AA
Matrix.....: AIR
MB Lot-Sample #: M7F200000-391
Prep Date.....: 06/18/07
Instrument ID..: GC6
Analysis Date..: 06/18/07
Prep Batch #...: 7171391
Dilution Factor: 1
Analyst ID.....: 402431

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
GRO (C4 - C12)	ND	4100	ug/m3	EPA-2 TO-3

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E7F140452 Work Order #...: J1Q3T1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M7F250000-516 J1Q3T1AD-LCSD
Prep Date.....: 06/21/07 Analysis Date..: 06/21/07
Prep Batch #...: 7176516
Dilution Factor: 1 Instrument ID..: MSA
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	86	(70 - 130)			EPA-2 TO-15
	89	(70 - 130)	2.8	(0-25)	EPA-2 TO-15
Toluene	91	(75 - 125)			EPA-2 TO-15
	90	(75 - 125)	1.5	(0-25)	EPA-2 TO-15
m-Xylene & p-Xylene	88	(70 - 130)			EPA-2 TO-15
	89	(70 - 130)	2.2	(0-25)	EPA-2 TO-15
o-Xylene	81	(70 - 130)			EPA-2 TO-15
	83	(70 - 130)	2.5	(0-25)	EPA-2 TO-15

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E7F140452 Work Order #...: J1Q3T1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M7F250000-516 J1Q3T1AD-LCSD
Prep Date.....: 06/21/07 Analysis Date..: 06/21/07
Prep Batch #...: 7176516
Dilution Factor: 1 Instrument ID..: MSA
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	159	138	ug/m3	86		EPA-2 TO-15
	159	142	ug/m3	89	2.8	EPA-2 TO-15
Toluene	188	172	ug/m3	91		EPA-2 TO-15
	188	169	ug/m3	90	1.5	EPA-2 TO-15
m-Xylene & p-Xylene	433	379	ug/m3	88		EPA-2 TO-15
	433	388	ug/m3	89	2.2	EPA-2 TO-15
o-Xylene	217	176	ug/m3	81		EPA-2 TO-15
	217	181	ug/m3	83	2.5	EPA-2 TO-15

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E7F140452 Work Order #...: J1R5A1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M7F260000-292 J1R5A1AD-LCSD
Prep Date.....: 06/25/07 Analysis Date..: 06/25/07
Prep Batch #...: 7177292
Dilution Factor: 1 Instrument ID..: MSA
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	87	(70 - 130)			EPA-2 TO-15
	84	(70 - 130)	2.8	(0-25)	EPA-2 TO-15
Toluene	91	(75 - 125)			EPA-2 TO-15
	90	(75 - 125)	0.35	(0-25)	EPA-2 TO-15
m-Xylene & p-Xylene	92	(70 - 130)			EPA-2 TO-15
	91	(70 - 130)	1.1	(0-25)	EPA-2 TO-15
o-Xylene	87	(70 - 130)			EPA-2 TO-15
	85	(70 - 130)	2.4	(0-25)	EPA-2 TO-15

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E7F140452 Work Order #...: J1R5A1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M7F260000-292 J1R5A1AD-LCSD
Prep Date.....: 06/25/07 Analysis Date..: 06/25/07
Prep Batch #...: 7177292
Dilution Factor: 1 Instrument ID..: MSA
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	159	138	ug/m3	87		EPA-2 TO-15
	159	134	ug/m3	84	2.8	EPA-2 TO-15
Toluene	188	171	ug/m3	91		EPA-2 TO-15
	188	170	ug/m3	90	0.35	EPA-2 TO-15
m-Xylene & p-Xylene	433	396	ug/m3	92		EPA-2 TO-15
	433	392	ug/m3	91	1.1	EPA-2 TO-15
o-Xylene	217	189	ug/m3	87		EPA-2 TO-15
	217	185	ug/m3	85	2.4	EPA-2 TO-15

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E7F140452 Work Order #...: J1P6N1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M7F210000-583 J1P6N1AD-LCSD
Prep Date.....: 06/21/07 Analysis Date..: 06/21/07
Prep Batch #...: 7172583
Dilution Factor: 1 Instrument ID..: GC8
Analyst ID.....: 999995

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Carbon dioxide	98	(75 - 125)			ASTM D1946
	98	(75 - 125)	0.12	(0-20)	ASTM D1946
Methane	105	(75 - 135)			ASTM D1946
	105	(75 - 135)	0.050	(0-20)	ASTM D1946
Carbon monoxide	109	(70 - 130)			ASTM D1946
	109	(70 - 130)	0.090	(0-30)	ASTM D1946
Oxygen	100	(70 - 130)			ASTM D1946
	100	(70 - 130)	0.090	(0-30)	ASTM D1946

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E7F140452 Work Order #...: J1P6N1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M7F210000-583 J1P6N1AD-LCSD
Prep Date.....: 06/21/07 Analysis Date..: 06/21/07
Prep Batch #...: 7172583
Dilution Factor: 1 Instrument ID..: GC8
Analyst ID.....: 999995

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	1.00	0.978	%(v/v)	98		ASTM D1946
	1.00	0.977	%(v/v)	98	0.12	ASTM D1946
Methane	0.0500	0.0526	%(v/v)	105		ASTM D1946
	0.0500	0.0526	%(v/v)	105	0.050	ASTM D1946
Carbon monoxide	0.0500	0.0544	%(v/v)	109		ASTM D1946
	0.0500	0.0545	%(v/v)	109	0.090	ASTM D1946
Oxygen	5.00	5.01	%(v/v)	100		ASTM D1946
	5.00	5.01	%(v/v)	100	0.090	ASTM D1946

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E7F140452 Work Order #...: J1P841AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M7F250000-233 J1P841AD-LCSD
Prep Date.....: 06/21/07 Analysis Date..: 06/21/07
Prep Batch #...: 7176233
Dilution Factor: 1 Instrument ID..: GC8
Analyst ID.....: 999995

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Carbon dioxide	99	(75 - 125)			ASTM D1946
	98	(75 - 125)	0.90	(0-20)	ASTM D1946
Methane	105	(75 - 135)			ASTM D1946
	105	(75 - 135)	0.11	(0-20)	ASTM D1946
Carbon monoxide	109	(70 - 130)			ASTM D1946
	109	(70 - 130)	0.19	(0-30)	ASTM D1946
Oxygen	101	(70 - 130)			ASTM D1946
	100	(70 - 130)	0.11	(0-30)	ASTM D1946

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E7F140452 Work Order #...: J1P841AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M7F250000-233 J1P841AD-LCSD
Prep Date.....: 06/21/07 Analysis Date..: 06/21/07
Prep Batch #...: 7176233
Dilution Factor: 1 Instrument ID..: GC8
Analyst ID.....: 999995

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	1.00	0.988	%(v/v)	99		ASTM D1946
	1.00	0.979	%(v/v)	98	0.90	ASTM D1946
Methane	0.0500	0.0525	%(v/v)	105		ASTM D1946
	0.0500	0.0525	%(v/v)	105	0.11	ASTM D1946
Carbon monoxide	0.0500	0.0546	%(v/v)	109		ASTM D1946
	0.0500	0.0545	%(v/v)	109	0.19	ASTM D1946
Oxygen	5.00	5.03	%(v/v)	101		ASTM D1946
	5.00	5.02	%(v/v)	100	0.11	ASTM D1946

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E7F140452 Work Order #...: J1D661AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M7F200000-390 J1D661AD-LCSD
Prep Date.....: 06/18/07 Analysis Date..: 06/18/07
Prep Batch #...: 7171390
Dilution Factor: 1 Instrument ID..: GC6
Analyst ID.....: 402431

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
GRO (C4 - C12)	112 LW	(80 - 130)			EPA-2 TO-3
	112 LW	(80 - 130)	0.65	(0-20)	EPA-2 TO-3

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LW Quantitated against gasoline.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E7F140452 Work Order #...: J1D661AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M7F200000-390 J1D661AD-LCSD
Prep Date.....: 06/18/07 Analysis Date..: 06/18/07
Prep Batch #...: 7171390
Dilution Factor: 1 Instrument ID..: GC6
Analyst ID.....: 402431

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
GRO (C4 - C12)	122000	137000	LWug/m3	112		EPA-2 TO-3
	122000	137000	LWug/m3	112	0.65	EPA-2 TO-3

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LW Quantitated against gasoline.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E7F140452 Work Order #...: J1ER21AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M7F200000-391 J1ER21AD-LCSD
Prep Date.....: 06/18/07 Analysis Date..: 06/18/07
Prep Batch #...: 7171391
Dilution Factor: 1 Instrument ID..: GC6
Analyst ID.....: 402431

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
GRO (C4 - C12)	113 LW	(80 - 130)			EPA-2 TO-3
	114 LW	(80 - 130)	0.66	(0-20)	EPA-2 TO-3

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LW Quantitated against gasoline.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E7F140452 Work Order #...: J1ER21AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M7F200000-391 J1ER21AD-LCSD
Prep Date.....: 06/18/07 Analysis Date..: 06/18/07
Prep Batch #...: 7171391
Dilution Factor: 1 Instrument ID..: GC6
Analyst ID.....: 402431

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
GRO (C4 - C12)	122000	139000	LWug/m3	113		EPA-2 TO-3
	122000	140000	LWug/m3	114	0.66	EPA-2 TO-3

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LW Quantitated against gasoline.

Appendix B

GeoTracker Upload Confirmation

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

Your EDF file has been successfully uploaded!

Confirmation Number: 1056754469
Date/Time of Submittal: 8/1/2007 9:01:02 AM
Facility Global ID: T0600101368
Facility Name: ARCO #5387 / THRIFTY OIL #52
Submittal Title: Soil Gas Investigation
Submittal Type: Other/Miscellaneous Report

Click here to view the detections report for this upload.

ARCO #5387 / THRIFTY OIL #52 20200 HESPERIAN HAYWARD, CA 94541	**Regional Board - Case #: 01-1481** SAN FRANCISCO BAY RWQCB (REGION 2) **Local Agency (lead agency) - Case #: RO0000174** ALAMEDA COUNTY LOP - **(SP)**

CONF #	TITLE	QUARTER
1056754469	Soil Gas Investigation	Q2 2007

SUBMITTED BY	SUBMIT DATE	STATUS
Broadbent & Associates, Inc.	8/1/2007	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	11
# FIELD POINTS WITH DETECTIONS	11
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
SAMPLE MATRIX TYPES	VAPOR

METHOD QA/QC REPORT

METHODS USED	D1946,ETO15,ETO3
TESTED FOR REQUIRED ANALYTES?	Y
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	n/a
- MATRIX SPIKE	n/a
- MATRIX SPIKE DUPLICATE	n/a
- BLANK SPIKE	n/a
- SURROGATE SPIKE	n/a

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0