



Atlantic Richfield Company
(a BP affiliated company)

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14 September 2007

Re: Soil and Ground-Water Investigation Report
Atlantic Richfield Company Station #2162
15135 Hesperian Boulevard
San Leandro, California
ACEH Case #RO0000190

RECEIVED

3:30 pm, Sep 18, 2007

Alameda County
Environmental Health



"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 Manager

**SOIL & GROUND-WATER
INVESTIGATION REPORT**
Atlantic Richfield Company Station #2162
15135 Hesperian Boulevard
San Leandro, California

Prepared for:

Mr. Paul Supple
Environmental Business Manager
Atlantic Richfield Company
P.O. Box 1257
San Ramon, California 94583

Prepared by:

BROADBENT & ASSOCIATES, INC.
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14 September 2007

Project No. 06-08-620

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14 September 2007

Project No. 06-08-620

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

Attn.: Mr. Paul Supple

Re: Soil & Ground-Water Investigation Report, Atlantic Richfield Company Station #2162,
15135 Hesperian Boulevard, San Leandro, California; ACEH Case # RO0000190

Dear Mr. Supple:

Broadbent & Associates, Inc. (BAI) is pleased to submit this *Soil & Ground-Water Investigation Report* for Atlantic Richfield Company Station #2162 (herein referred to as Station #2162) located at 15135 Hesperian Boulevard, San Leandro, California (Site). This report presents a description of field activities conducted and results obtained from drilling soil and ground-water borings in five areas on the Site. This work was conducted in accordance with the *Work Plan for Onsite Soil and Ground-Water Investigation* (BAI, 15 May 2007), as approved by Alameda County Environmental Health Services (ACEH) in their letter dated 29 May 2007.

Should you have questions or require additional information, please do not hesitate to contact us at (530) 566-1400.

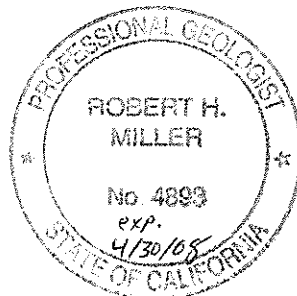
Sincerely,
BROADBENT & ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read 'Thomas A. Venus'.

Thomas A. Venus, P.E.
Senior Engineer

A handwritten signature in black ink, appearing to read 'Robert H. Miller'.

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



Enclosures

cc: Mr. Stephen Plunkett, ACEH (Submitted via ACEH ftp Site)
Mr. Karl Busche, City of San Leandro Environmental Services Division (Electronic copy
uploaded to GeoTracker)

SOIL & GROUND-WATER INVESTIGATION REPORT

Atlantic Richfield Company Station #2162
15135 Hesperian Boulevard
San Leandro, California

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APPENDICES

Appendix A	Stratus Site Assessment Field Data Package (Includes Field Data Sheets, Boring Logs, Site Plan with Field Modifications, Well Permit, and Laboratory Analytical Report with Chain-of-Custody Documentation)
Appendix B	Geologic Cross-Sections
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SOIL & GROUND-WATER INVESTIGATION REPORT

Atlantic Richfield Company Station #2162

15135 Hesperian Boulevard

San Leandro, California

1.0 INTRODUCTION

On behalf of the Atlantic Richfield Company, RM – a BP affiliated company, Broadbent & Associates, Inc. (BAI) has prepared this Soil & Ground-Water Investigation Report for additional soil and ground-water characterization at the Atlantic Richfield Company Station #2162, located at 15135 Hesperian Boulevard, San Leandro, California (Site). This soil and ground-water investigation was completed to further evaluate the presence of petroleum hydrocarbons contamination immediately down gradient of the UST pit and waste oil tank pit and along the southern Site boundary between monitoring wells MW-3 and MW-4, as requested by Alameda County Environmental Health (ACEH). Investigation activities were conducted in accordance with the BAI *Work Plan for Onsite Soil and Ground-Water Investigation* dated 15 May 2007, as approved by ACEH in their letter dated 29 May 2007. This report includes discussions on the Site Background, Site Geology and Hydrogeology, Field Activities Performed, Results of Investigation, and Conclusions and Recommendations.

2.0 SITE BACKGROUND

The Site is an active ARCO-brand gasoline retail station that consists of a station building, four 10,000-gallon, double-wall fiberglass underground storage tanks (USTs), and eight pump dispensers on four dispenser islands. The Site is located on the west side of Hesperian Boulevard south of Ruth Court in Oakland, California (Figure 1). The land use in the immediate vicinity of the Site is commercial. The Site is predominantly covered with concrete and asphalt.

A UST leak was reported in September of 1991. The USTs were removed and replaced with four, double-wall fiberglass, 10,000 gallon tanks in late 1991/early 1992. Approximately 100 cubic yards (approximately 130 tons) of contaminated soil and approximately 50,000 gallons of water from the UST excavation were removed during these activities. A limited soil vapor performance test was reportedly completed in late 1991 to determine if Soil Vapor Extraction (SVE) was feasible at the Site. Results of the test using vapor wells VW-1 and VW-2 in the southern portion of the Site showed that SVE was not an effective remediation technique due to an insufficient radius of influence by the SVE test system. Periodic ground-water monitoring at the Site began in 1992, when four monitoring wells were installed.

Product lines and dispensers were again replaced with upgrades in January 2003. Approximately 140 cubic yards (183 tons) of soil were excavated and removed from the Site during this upgrade of the product lines and dispensers. Of the soil samples collected during the upgrade, sample S-L4-3.5 yielded a Total Petroleum Hydrocarbons as Gasoline (TPH-g) concentration of 200 milligrams per kilogram (mg/kg), toluene concentration of 2.1 mg/kg, Ethylbenzene concentration of 1.4 mg/kg, and a total xylenes concentration of 1.5 mg/kg. Sample S-L1-3.5 yielded a benzene concentration of 0.072 mg/kg. Samples S-L3-3.5, S-L1-3.5, and S-D5-3 yielded concentrations of methyl tertiary butyl ether (MTBE) of 0.55 mg/kg, 0.14 mg/kg, and 0.093 mg/kg, respectively.

Ground water at the Site has been monitored periodically since 1992 through a network of four monitoring wells: Wells MW-1 and MW-2 are adjacent to the USTs; Wells MW-3 and MW-4 are located downgradient near the southern boundary of the Site (Figure 2). Historic water level elevations have yielded potentiometric ground-water flow directions mostly consistent to the southwest at hydraulic gradients ranging from 0.002 ft/ft to 0.013 ft/ft. Concentrations of TPH-g/Gasoline-Range Organics (GRO) have been non-detect and/or below the Environmental Screening Level (ESL) of 100 micrograms per liter ($\mu\text{g/l}$) for ground water that is a current or potential drinking water resource since July 2002. The maximum TPH-g/GRO concentration was detected in well MW-2 at a concentration of 2,100 $\mu\text{g/L}$ in October 1999. Concentrations of benzene, toluene, Ethylbenzene, and total xylenes (BTEX) have been non-detect and/or below the ESLs since December 2000. The maximum benzene concentration in ground-water at the Site was detected in well MW-3 at a concentration of 12 $\mu\text{g/L}$ in May 1996. Maximum concentrations for toluene, Ethylbenzene, and xylenes were 3.2 $\mu\text{g/L}$ (MW-3, 6/23/1999), 45 $\mu\text{g/L}$ (MW-2, 2/26/1996), and 28 $\mu\text{g/L}$ (MW-2, 2/26/1996), respectively. The wells have shown a decreasing trend in MTBE concentrations since 1996. MTBE has not been detected in well MW-1 since July 2002 or well MW-2 since 2000. The maximum MTBE concentration was detected in well MW-3 at a concentration of 1,900 $\mu\text{g/L}$ in June 1997. Concentrations in MW-3 have shown a decreasing trend from June 1997 to 4.3 $\mu\text{g/L}$ in July 2006. The MTBE concentration in well MW-4 has shown a decreasing trend from July 2002 to non-detect since August 2005. Results of periodic ground-water monitoring and sampling since 2000 are summarized in Table 1 and Table 2. Historic ground-water flow direction and gradient calculations since 2000 are summarized in Table 3.

A Request for Case Closure was prepared on 4 June 2004 by URS Corporation. That request stated that the six criteria for closure of a low-risk ground-water site were met by the conditions found at Station #2162. The following criteria have been exemplified by the ground-water monitoring trends and remediation activities performed onsite: 1) The leak has been stopped and ongoing sources, including free product, have been removed or remediated; 2) The Site has been adequately characterized; 3) The dissolved hydrocarbon plume is not migrating; 4) No water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted; 5) The Site presents no significant threat to human health; and 6) The Site presents no significant risk to the environment.

3.0 SITE GEOLOGY AND HYDROGEOLOGY

According to the *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report* (California Regional Water Quality Control Board – San Francisco Bay Region/SFRWQCB, June 1999), the Site is located within the San Leandro Sub-Area, near the northern boundary of the San Lorenzo Sub-Area, in the East Bay Plain of the San Francisco Basin. These Sub-Areas share the same hydrogeologic characteristics, yet are separated by the junction of the surface trace between the San Leandro and San Lorenzo alluvial fans. These Sub-Areas consist primarily of alluvial fan sediments with the distinction of the Yerba Buena Mud extending west into the San Leandro and San Lorenzo Sub-Areas, unlike the northern Sub-Areas. The Yerba Buena Mud forms a major aquitard between the shallow and deep aquifers throughout much of

southwestern area of the East Bay Plain. The San Leandro and San Lorenzo Sub-Areas alluvial fans are finer grained and produce less groundwater than the Niles Cone basin to the south.

Throughout most of the Alameda County portion of the East Bay Plain, from Hayward north to Albany, water level contours show that the general direction of ground water flow is from east to west or from the Hayward Fault to the San Francisco Bay. Ground-water flow direction generally correlates to topography. Flow direction and velocity are also influenced by buried stream channels that typically are oriented in an east-west direction. In the southern end of the study area however, near the San Lorenzo Sub-Area, the direction of flow may not be this simple. According to information presented in *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report*, the small set of water level measurements available seemed to show that the ground water in the upper aquifers may be flowing south, with the deeper aquifers, the Alameda Formation, moving north. The nearest surface water drainage is the Estudillo Canal, located approximately 1,100 feet southeast of the Site. The Estudillo Canal's overall general flow direction is from east to west; however, specific flow directions of the canal vary to the southwest near the Site, eventually turning to the west-northwest prior to entering the San Francisco Bay via the San Leandro Flood Control Channel.

The Site elevation is approximately 33 feet above mean sea level. The water table fluctuates seasonally with recorded static depths to water in monitor wells at the Site ranging between a historic minimum depth below ground surface (bgs) of 7.10 ft (MW-3 on 4/14/2005) and maximum of 10.08 feet bgs (MW-4 on 10/9/2002). Historically, depth-to-water measurements have typically ranged between 7.0 and 9.5 feet bgs (Table 1). Ground-water flow direction during the third quarter 2006 monitoring event on 31 July 2006 was to the south-southwest at a gradient of 0.003 ft/ft (Figure 2). Historic ground-water flow directions and gradients for the Site are summarized in Table 3. Based on this information, the local ground-water flow direction is to the southwest which is consistent with the surface topography and assumed flow direction, west towards San Francisco Bay.

According to the *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report*, the majority of East Bay Plain Cities (except the City of Hayward) do not have "any plans to develop local ground-water resources for drinking water purposes, because of existing or potential saltwater intrusion, contamination, or poor or limited quantity." The SFRWQCB's basin plan denotes existing beneficial uses of municipal and domestic supply (MUN), industrial process supply (PROC), industrial service supply (IND), and agricultural supply (AGR) for the East Bay Plain ground-water basin.

Geologic data derived from on-site borings indicate unconsolidated sediments consisting of interbedded silts and silty clay from one to nine ft bgs. A sand and gravel unit underlies these silts and silty clays. A silt unit encountered at 13 ft bgs underlies the sand and gravel unit. Soil boring logs are provided in Appendix A. Copies of geologic cross-sections for the Site are provided in Appendix B.

4.0 FIELD ACTIVITIES PERFORMED

The soil and ground-water investigation was completed to characterize the present state of petroleum hydrocarbon impacted soil and ground-water onsite. On the 16th and 17th of July

2007, Stratus Environmental, Inc. (Stratus) advanced a total of five soil borings to evaluate the extent of petroleum hydrocarbon impacted soil and ground water onsite. Soil and ground-water samples were collected from each boring for laboratory analysis. The soil boring locations from this July 2007 investigation are shown in Figure 2.

4.1 Preliminary Field Activities

Prior to initiating field activities, Stratus obtained the necessary well drilling permit from the Alameda County Public Works Agency (See Appendix A), prepared a Site health and safety plan specific to the work scope; and cleared the Site for subsurface utilities. The utility clearance included notifying Underground Service Alert (USA) of the work a minimum of 48 hours prior to initiating the field investigation, and additionally securing the services of a private utility locating company to confirm the absence of underground utilities at each boring location. Boreholes were physically cleared to a minimum of five feet below ground surface (bgs) using an air knife rig. At boring CB-2 a three-quarter inch metal pipe was encountered at 18 inches bgs. Consequently, boring CB-2 was moved 18 inches southeast and found to be clear.

4.2 Soil Boring Advancement

On the 16th and 17th of July 2007, Stratus field personnel observed Resonant Sonic International Drilling (RSI) of Woodland, California advance a total of five soil borings. Each boring was physically cleared to a minimum depth of five feet bgs using an air knife. RSI utilized a direct-push drill rig to reach a maximum depth of 16 feet at each boring location.

A Stratus field geologist classified the soils according to the Unified Soil Classification System (USCS) and examined the soils using visual and manual methods for parameters including odor, staining, color, grain size, and moisture content. Soil samples were collected for analysis from each of the five borings at depths of 7.5 to 8 ft. bgs, 11.5 to 12 ft. bgs and 15.5 to 16 ft. bgs, with the exception of boring CB2, where no soil sample was collected between 7.5 to 8 ft. bgs. Each sample was retained in sampling tubes, covered at each end with Teflon sheeting, capped with plastic end caps, labeled, and placed into an ice-filled cooler for preservation.

4.3 Ground-Water Sampling

Ground-water samples were collected from the five borings to determine the presence of hydrocarbon contamination immediately down gradient of the UST pit, in the vicinity of the waste oil tank pit, and along the southern Site boundary between monitoring wells MW-3 and MW-4. Ground water was encountered between 10 and 11 feet at each boring. A temporary well screen was placed into each boring after ground water was encountered. Water samples were subsequently collected utilizing a disposable bailer. The samples were collected in appropriately preserved containers and placed into an ice-filled cooler for preservation.

4.4 Investigation-Derived Residuals Management

Residual solids and liquids generated during the Site investigation activities were stored temporarily onsite in Department of Transportation-approved 55-gallon drums pending

analytical results and profiling. Following characterization and profiling, Belshire Environmental Services was scheduled to transport the investigation-derived residuals to an RM-approved facility for treatment or disposal.

5.0 RESULTS OF INVESTIGATION

5.1 Soil Analytical Results

Soil samples were shipped to TestAmerica Analytical Testing Corporation (Morgan Hill), a California State-certified laboratory, under chain-of-custody protocol. Samples were analyzed for GRO (hydrocarbon chain lengths between C4-C12) by LUFT GCMS methodology; diesel range organics (DRO, hydrocarbon chain lengths between C10-C36) by EPA Method 8015B-SVOA; and for benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tert-butyl ether (MTBE), ethyl tert-butyl ether (ETBE), tert-Amyl methyl ether (TAME), Di-isopropyl ether (DIPE), 1,2-Dichloroethane (1,2-DCA), 1,2-Dibromoethane (EDB), tert-Butyl alcohol (TBA), and ethanol using EPA Method 8260B; and for total solids using method SM2540B. The reporting limits for sample CB5 11.5'-12' were raised due to high hydrocarbon background. Each sample that was found to contain concentrations of DRO above the laboratory reporting limit was in the requested fuel range but did not resemble the reference chromatogram for diesel fuel. No other significant irregularities were encountered during laboratory analysis of the soil samples. A copy of the laboratory analytical report, including chain-of-custody documentation, is provided in Appendix A. The laboratory analytical results are tabulated in Table 4 and summarized below:

- GRO was detected above laboratory reporting limits in five of the 14 soil samples collected at concentrations ranging from 0.65 mg/kg (CB3 7.5'-8') to 1,100 mg/kg (CB5 11.5'-12');
- DRO was detected above laboratory reporting limits in 11 of the 14 soil samples collected at concentrations ranging from 1.6 mg/kg (CB3 15.5'-16') to 1,300 mg/kg (CB2 11.5'-12');
- Total Xylenes were detected above laboratory reporting limits in soil sample CB2 11.5'-12' at a concentration of 0.0071 mg/kg; and
- MTBE was detected above laboratory reporting limits soil sample CB3 7.5'-8' at a concentration of 0.0063 mg/kg.

The remaining analytes were not detected above their respective reporting limits in the 14 soil samples collected.

5.2 Ground-Water Analytical Results

Ground-water samples were shipped to TestAmerica Analytical Testing Corporation (Morgan Hill), a California State-certified laboratory, under chain-of-custody protocol. Samples were analyzed for GRO (hydrocarbon chain lengths between C4-C12) by LUFT GCMS methodology; DRO (hydrocarbon chain lengths between C10-C36) by EPA Method 8015B-SVOA; and for

BTEX, MTBE, ETBE, TAME, DIPE, 1,2-DCA, EDB, TBA, and ethanol using EPA Method 8260B. Each sample that was found to contain concentrations of DRO above the laboratory reporting limit was in the requested fuel range but did not resemble the reference chromatogram for diesel fuel. No other significant irregularities were encountered during laboratory analysis of the ground-water samples. A copy of the laboratory analytical report, including chain-of-custody documentation, is provided in Appendix A. The laboratory analytical results are tabulated in Table 5 and summarized below:

- GRO was detected above laboratory reporting limits in three of the five ground-water samples collected at concentrations ranging from 490 µg/L (CB3-W and CB5-W) to 1,900 µg/L (CB2-W);
- DRO was detected above laboratory reporting limits in four of the five ground-water samples collected at concentrations ranging from 220 µg/L (CB4-W) to 2,000 µg/L (CB2-W);
- Benzene was detected above laboratory reporting limits in three of the five ground-water samples collected at concentrations ranging from 1.0 µg/L (CB4-W) to 12 µg/L (CB2-W);
- Ethylbenzene was detected above laboratory reporting limits in two of the five ground-water samples collected at concentrations of 0.92 µg/L (CB3-W) and 110 µg/L (CB2-W);
- Total Xylenes were detected above laboratory reporting limits in ground-water sample CB2-W at a concentration of 140 µg/L;
- MTBE was detected above laboratory reporting limits in three of the five ground-water samples collected at concentrations ranging from 0.82 µg/L (CB3-W) to 70 µg/L (CB5-W); and
- TAME was detected above laboratory reporting limits in ground-water sample CB5-W at a concentration of 3.9 µg/L.

The remaining analytes were not detected above their respective reporting limits in the five ground-water samples collected.

6.0 CONCLUSIONS

On behalf of the Atlantic Richfield Company, RM – a BP affiliated company, BAI prepared this Soil & Ground-Water Investigation Report following additional soil and ground-water characterization using direct-push technology at the Atlantic Richfield Company Station #2162, located at 15315 Hesperian Boulevard, San Leandro, California. Based on the findings produced by this investigation, BAI concludes that the general objectives of the investigation were met. Furthermore, BAI identifies the following specific conclusions:

- Elevated concentrations of GRO and DRO were detected in soil samples collected just below the ground-water table from borings CB2 and CB3 in the vicinity of the former waste oil tank – 400 mg/kg GRO in sample CB3 11.5'-12', and 1,300 mg/kg DRO in sample CB2 11.5'-12'.

- Elevated GRO was detected at a concentration of 1,100 mg/kg in soil sample CB5 11.5'-12' collected just below the water table along the southern boundary of the Site.
- Elevated concentrations of GRO and DRO were detected in ground-water samples CB2-W, and to a lesser significance CB3-W, collected in the vicinity of the former waste oil tank – GRO at 1,900 µg/L, DRO at 2,000 µg/L, benzene at 12 µg/L, ethylbenzene at 110 µg/L, total xylenes at 140 µg/L in sample CB2-W.
- GRO, DRO, and MTBE were detected in the ground-water sample CB5-W, along the southern boundary of the Site – GRO at 490 µg/L, DRO at 360 µg/L, and MTBE at 70 µg/L.
- Low concentrations of benzene in ground water (1.0 µg/L CB4-W to 12 µg/L in CB2-W) indicate that the hydrocarbon contamination plume is likely aged and degraded.
- The highest contaminant concentrations detected near the UST gallery in boring CB2 (GRO at 1,900 µg/L, benzene at 12 µg/L) appear to attenuate to lower concentrations in the down-gradient direction as exhibited in boring CB3 (GRO at 490 µg/L, benzene at 2.1 µg/L).

7.0 RECOMMENDATIONS

Based on the field investigation observations, analytical results obtained, and to further progress towards case closure, BAI recommends that a new monitoring well be constructed along the southern boundary of the Site in the approximate location of recently advanced boring CB5. This monitoring well should be constructed similar to existing monitoring wells MW-1, MW-2, MW-4 and MW-5. Specifically, this well should be constructed with a screen interval between approximately 8 ft – 16 ft bgs. This location would serve as a sentinel well to determine the repeatable presence or absence of elevated concentrations of petroleum hydrocarbons at the down-gradient boundary of the Site. Samples should be initially collected from this and the four other existing wells on the site, and analyzed for GRO (hydrocarbon chain lengths between C4-C12) by LUFT GCMS methodology; DRO (hydrocarbon chain lengths between C10-C36) by EPA Method 8015B-SVOA; and for BTEX, MTBE, ETBE, TAME, DIPE, 1,2-DCA, EDB, TBA, and ethanol using EPA Method 8260B.

8.0 CLOSURE

This document has been prepared for the exclusive use of Atlantic Richfield Company. The findings presented in this report are based upon the observations of Stratus field personnel, points of investigation and results of laboratory tests performed by Test America Analytical Testing Corporation (Morgan Hill, 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 or groundwater 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.

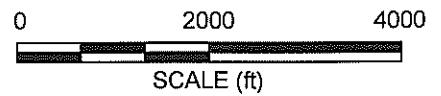
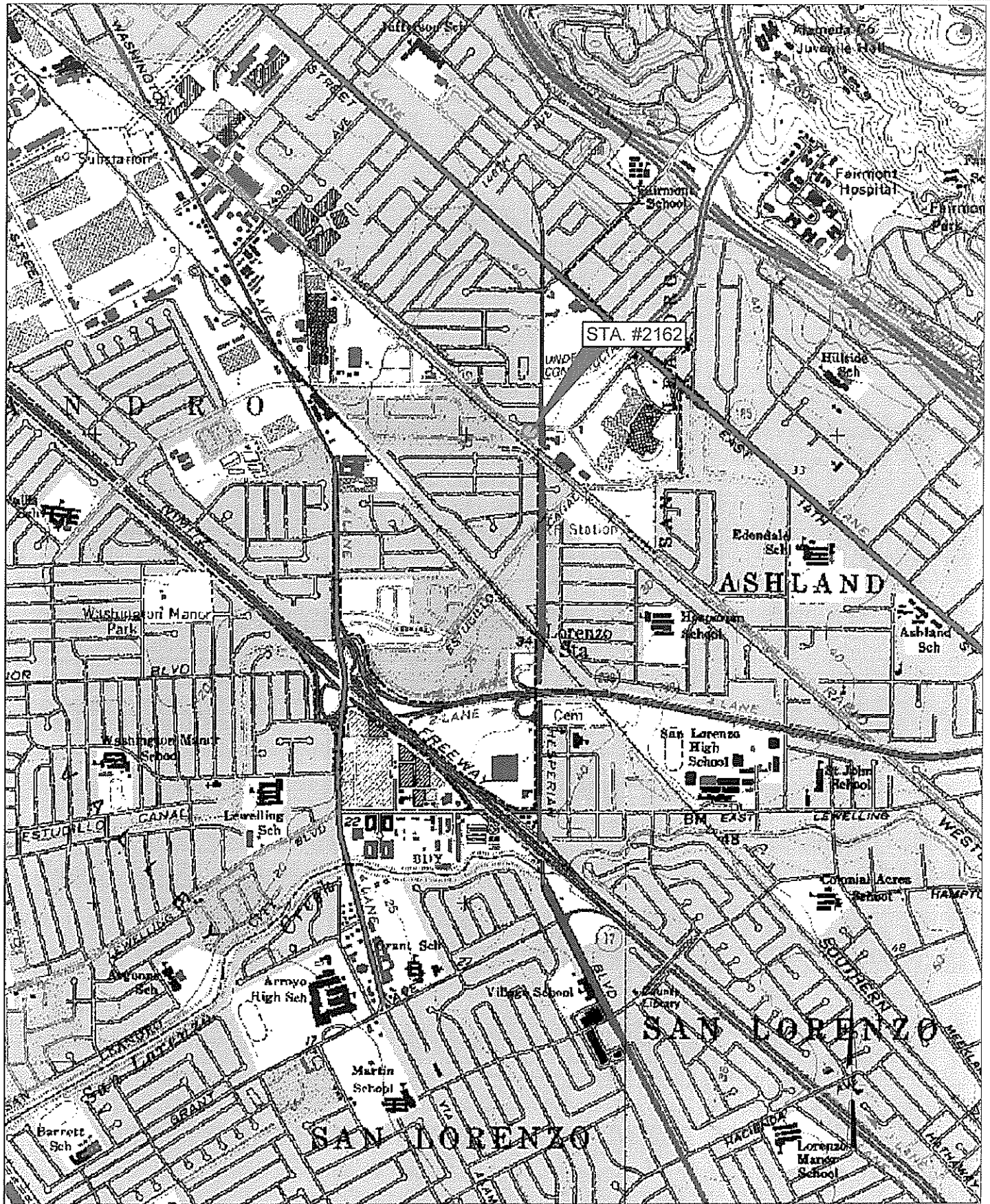
9.0 REFERENCES

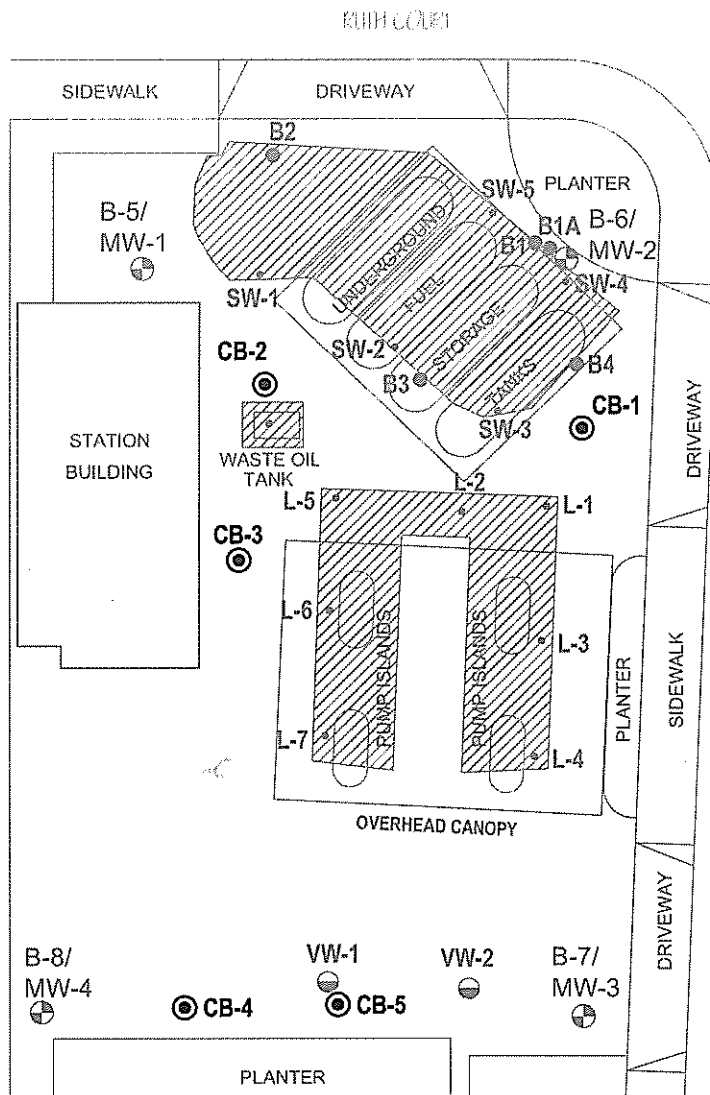
ACEH, 29 May 2007. *Fuel Leak Case No. RO0000190, ARCO #2162, 15135 Hesperian Boulevard, San Leandro, CA.* Submitted to Mr. Paul Supple for Atlantic Richfield, by Mr. Steven Plunkett.

BAI, 15 May 2007. *Work Plan for Onsite Soil and Ground-Water Investigation, Atlantic Richfield Company Station #2162, 15135 Hesperian Boulevard, (San Leandro), California; ACEH Case No. RO0000190.* Submitted to Mr. Steven Plunkett of ACEH on behalf of BP.

SFRWQCB, June 1999. *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report.*

URS, 4 June 2005. *Request for Case Closure, Atlantic Richfield Company Service Station #2162, 15135 Hesperian Boulevard, San Leandro, California.* Submitted to Ms. Eva Chu of ACEH on behalf of BP.





LEGEND

- CB-5** SOIL/GROUND-WATER BORING (STRATUS 2007)
- B-8/MW-4** MONITORING WELL RESNA (SEPTEMBER 1992)
- VW-2** SOIL VAPOR EXTRACTION WELL (ROUX ASSOCIATES, INC., 1991)
- B-4** SOIL BORING (ROUX ASSOCIATES, INC., 1991)
- SW-5** SIDEWALL SOIL SAMPLE
- L-7** PRODUCT LINE SAMPLE
- FORMER UNDERGROUND STORAGE TANK AND PRODUCT LINE EXCAVATIONS

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

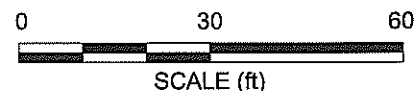
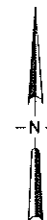


Table I. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

Station #2162, 15135 Hesperian Blvd., San Leandro, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-1															
6/20/2000	--		31.19	8.0	16.0	8.33	22.86	<50	<0.5	0.8	<0.5	<1.0	<10	--	--
9/29/2000	--		31.19	8.0	16.0	9.07	22.12	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
12/17/2000	--		31.19	8.0	16.0	8.69	22.5	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
3/23/2001	--		31.19	8.0	16.0	8.19	23.0	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
6/20/2001	--		31.19	8.0	16.0	8.97	22.22	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
9/22/2001	--		31.19	8.0	16.0	9.56	21.63	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
12/28/2001	--		31.19	8.0	16.0	8.4	22.79	<50	<0.5	<0.5	<0.5	0.63	<2.5	--	--
3/14/2002	--		31.19	8.0	16.0	8.05	23.14	<50	<0.5	<0.5	<0.5	<0.5	170	--	--
4/18/2002	--		31.19	8.0	16.0	8.27	22.92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
7/19/2002	NP		31.19	8.0	16.0	8.88	22.31	<50	<0.5	<0.5	<0.5	<0.5	11	1.0	8.2
10/09/02	NP	a	31.19	8.0	16.0	--	--	--	--	--	--	--	--	--	--
03/28/03	NP	a, c	31.19	8.0	16.0	--	--	--	--	--	--	--	--	--	--
4/7/2003	NP		31.19	8.0	16.0	8.28	22.91	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	6.9
7/9/2003	NP		31.19	8.0	16.0	8.62	22.57	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	7.2
10/08/2003	--	d, e	31.13	8.0	16.0	9.19	21.94	--	--	--	--	--	--	--	--
01/13/2004	--		31.13	8.0	16.0	8.35	22.78	--	--	--	--	--	--	--	--
04/05/2004	--		33.70	8.0	16.0	7.29	26.41	--	--	--	--	--	--	--	--
07/12/2004	NP		33.70	8.0	16.0	9.00	24.70	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.8	7.0
10/19/2004	--		33.70	8.0	16.0	9.47	24.23	--	--	--	--	--	--	--	--
01/11/2005	--		33.70	8.0	16.0	7.64	26.06	--	--	--	--	--	--	--	--
04/14/2005	--		33.70	8.0	16.0	7.35	26.35	--	--	--	--	--	--	--	--
08/01/2005	--		33.70	8.0	16.0	8.21	25.49	--	--	--	--	--	--	--	--
7/31/2006	--		33.70	8.0	16.0	8.10	25.6	--	--	--	--	--	--	--	--
MW-2															
6/20/2000	--		30.38	8.0	16.0	7.38	23.0	--	--	--	--	--	--	--	--
9/29/2000	--		30.38	8.0	16.0	8.08	22.3	266	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
12/17/2000	--		30.38	8.0	16.0	7.8	22.58	175	<0.5	<0.5	0.659	<0.5	<2.5	--	--
3/23/2001	--		30.38	8.0	16.0	7.23	23.15	351	<0.5	<0.5	0.912	<0.5	<2.5	--	--
6/20/2001	--		30.38	8.0	16.0	7.98	22.4	360	<0.5	<0.5	0.74	<0.5	<2.5	--	--
9/22/2001	--		30.38	8.0	16.0	8.55	21.83	190	<0.5	<0.5	<0.5	<0.5	<2.5	--	--

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #2162, 15135 Hesperian Blvd., San Leandro, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE		
MW-2 Cont.															
12/28/2001	--		30.38	8.0	16.0	7.53	22.85	130	<0.5	0.93	<0.5	0.51	<2.5	--	--
3/14/2002	--		30.38	8.0	16.0	7.17	23.21	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
4/18/2002	--		30.38	8.0	16.0	7.31	23.07	74	<0.5	<0.5	<0.5	<0.5	--	--	--
7/19/2002	P		30.38	8.0	16.0	7.93	22.45	<50	<0.5	<0.5	<0.5	<0.5	<2.5	1.1	7.6
10/9/2002	P		30.38	8.0	16.0	8.55	21.83	<50	<0.5	<0.5	<0.5	<0.5	<2.5	0.7	7.3
03/28/03	P	c	30.38	8.0	16.0	7.3	23.08	<50	<0.50	0.83	<0.50	<0.50	<0.50	1.48	7.7
4/7/2003	P		30.38	8.0	16.0	7.36	23.02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	7.0
7/9/2003	P		30.38	8.0	16.0	7.71	22.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.5	7.6
10/08/2003	--		30.38	8.0	16.0	8.25	22.13	--	--	--	--	--	--	--	--
01/13/2004	--		30.38	8.0	16.0	7.55	22.83	--	--	--	--	--	--	--	--
04/05/2004	--		32.97	8.0	16.0	7.29	25.68	--	--	--	--	--	--	--	--
07/12/2004	NP		32.97	8.0	16.0	8.09	24.88	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	7.2
10/19/2004	--		32.97	8.0	16.0	8.29	24.68	--	--	--	--	--	--	--	--
01/11/2005	--		32.97	8.0	16.0	6.81	26.16	--	--	--	--	--	--	--	--
04/14/2005	--		32.97	8.0	16.0	6.69	26.28	--	--	--	--	--	--	--	--
08/01/2005	--		32.97	8.0	16.0	7.40	25.57	--	--	--	--	--	--	--	--
7/31/2006	--		32.97	8.0	16.0	7.22	25.75	--	--	--	--	--	--	--	--
MW-3															
6/20/2000	--		30.3	8.0	15.0	7.75	22.55	--	--	--	--	--	--	--	--
9/29/2000	--		30.3	8.0	15.0	8.46	21.84	<50	<0.5	<0.5	<0.5	<0.5	128	--	--
12/17/2000	--		30.3	8.0	15.0	8.01	22.29	<50	<0.5	<0.5	<0.5	<0.5	46.7	--	--
3/23/2001	--		30.3	8.0	15.0	7.7	22.6	<50	<0.5	<0.5	<0.5	<0.5	26.8	--	--
6/20/2001	--		30.3	8.0	15.0	8.23	22.07	<50	<0.5	<0.5	<0.5	<0.5	30	--	--
9/22/2001	--		30.3	8.0	15.0	8.89	21.41	<50	<0.5	<0.5	<0.5	<0.5	12	--	--
12/28/2001	--		30.3	8.0	15.0	7.83	22.47	<50	<0.5	<0.5	<0.5	<0.5	6.2	--	--
3/14/2002	--		30.3	8.0	15.0	7.48	22.82	<50	<0.5	<0.5	<0.5	<0.5	47	--	--
4/18/2002	--		30.3	8.0	15.0	7.62	22.68	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
7/19/2002	P	b (TPH-g)	30.3	8.0	15.0	8.23	22.07	100	<1.0	<1.0	<1.0	<1.0	330	0.9	7.6
10/9/2002	P		30.3	8.0	15.0	8.83	21.47	<50	<0.5	<0.5	<0.5	<0.5	61	0.5	7.4
03/28/03	P	c	30.3	8.0	15.0	7.85	22.45	52	<0.50	1.2	<0.50	<0.50	45	1.42	7.6

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

Station #2162, 15135 Hesperian Blvd., San Leandro, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)					DO (mg/L)	pH	
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes			MTBE
MW-3 Cont.															
4/7/2003	P		30.3	8.0	15.0	7.71	22.59	56	<0.50	<0.50	<0.50	<0.50	56	1.1	6.8
7/9/2003	P		30.3	8.0	15.0	8.0	22.3	<500	<5.0	<5.0	<5.0	<5.0	87	1.6	7.4
10/08/2003	P		30.30	8.0	15.0	8.59	21.71	<50	<0.50	<0.50	<0.50	<0.50	25	0.9	--
01/15/2004	P		30.30	8.0	15.0	7.90	22.40	<50	<0.50	<0.50	<0.50	<0.50	9.8	2.9	7.3
04/05/2004	P		32.89	8.0	15.0	7.61	25.28	<50	<0.50	<0.50	<0.50	<0.50	15	1.5	7.0
07/12/2004	P		32.89	8.0	15.0	8.45	24.44	<50	<0.50	<0.50	<0.50	<0.50	7.3	1.6	6.9
10/19/2004	P		32.89	8.0	15.0	8.95	23.94	<50	<0.50	<0.50	<0.50	<0.50	5.0	0.96	7.1
01/11/2005	P		32.89	8.0	15.0	7.27	25.62	<50	<0.50	<0.50	<0.50	<0.50	2.3	--	7.2
04/14/2005	P		32.89	8.0	15.0	7.10	25.79	<50	<0.50	<0.50	<0.50	1.5	5.6	2.0	7.2
08/01/2005	P		32.89	8.0	15.0	7.71	25.18	<50	<0.50	<0.50	<0.50	<0.50	5.2	1.18	7.0
7/31/2006	P		32.89	8.0	15.0	7.64	25.25	<50	<0.50	<0.50	<0.50	<0.50	4.3	--	6.8
MW-4															
6/20/2000	--		30.39	10.0	18.0	8.87	21.52	--	--	--	--	--	--	--	--
9/29/2000	--		30.39	10.0	18.0	9.61	20.78	<50	1.02	<0.5	<0.5	<0.5	12.2	--	--
12/17/2000	--		30.39	10.0	18.0	9.17	21.22	<50	<0.5	<0.5	<0.5	<0.5	5.81	--	--
3/23/2001	--		30.39	10.0	18.0	8.7	21.69	<50	<0.5	<0.5	<0.5	<0.5	3.04	--	--
6/20/2001	--		30.39	10.0	18.0	9.51	20.88	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
9/22/2001	--		30.39	10.0	18.0	10.06	20.33	<50	<0.5	<0.5	<0.5	<0.5	5.2	--	--
12/28/2001	--		30.39	10.0	18.0	8.86	21.53	<50	<0.5	<0.5	<0.5	<0.5	4.3	--	--
3/14/2002	--		30.39	10.0	18.0	8.52	21.87	<50	<0.5	<0.5	<0.5	<0.5	5.1	--	--
4/18/2002	--		30.39	10.0	18.0	8.76	21.63	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
7/19/2002	NP		30.39	10.0	18.0	9.39	21.00	<50	<0.5	<0.5	<0.5	<0.5	30	1.8	7.8
10/9/2002	NP		30.39	10.0	18.0	10.08	20.31	<50	<0.5	<0.5	<0.5	<0.5	28	1.0	8.0
03/28/03	NP	c	30.39	10.0	18.0	8.88	21.51	<50	<0.50	1.3	<0.50	<0.50	4.4	0.98	7.2
4/7/2003	NP		30.39	10.0	18.0	8.78	21.61	<50	<0.50	<0.50	<0.50	<0.50	14	1.1	7.0
7/9/2003	NP		30.39	10.0	18.0	9.14	21.25	<50	<0.50	<0.50	<0.50	<0.50	1.8	1.6	7.4
10/08/2003	NP		30.39	10.0	18.0	9.77	20.62	<50	<0.50	<0.50	<0.50	<0.50	3.1	2.6	6.4
01/15/2004	P		30.39	10.0	18.0	8.68	21.71	<50	1.4	0.84	<0.50	1.5	6.6	2.9	7.1
04/05/2004	NP		33.97	10.0	18.0	8.77	25.20	<50	<0.50	<0.50	<0.50	<0.50	1.3	1.2	7.0
07/12/2004	NP		33.97	10.0	18.0	9.46	24.51	<50	<0.50	<0.50	<0.50	<0.50	1.0	2.5	6.6

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

Station #2162, 15135 Hesperian Blvd., San Leandro, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE		
MW-4 Cont.															
10/19/2004	NP		33.97	10.0	18.0	9.91	24.06	<50	<0.50	<0.50	<0.50	<0.50	4.4	1.21	7.9
01/11/2005	P		33.97	10.0	18.0	7.80	26.17	59	2.0	<0.50	<0.50	<0.50	11	0.9	7.1
04/14/2005	NP		33.97	10.0	18.0	8.07	25.90	<50	<0.50	<0.50	<0.50	<0.50	0.64	2.8	7.4
08/01/2005	NP		33.97	10.0	18.0	8.58	25.39	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.48	5.7
7/31/2006	P		33.97	10.0	18.0	8.75	25.22	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	6.7

SYMBOLS AND ABBREVIATIONS:

--- = Not analyzed/applicable/measured/available
< = Not detected at or above laboratory reporting limit
DO = Dissolved oxygen
DTW = Depth to water in feet below ground surface
ft bgs = feet below ground surface
GRO = Gasoline Range Organics, range C4-C12
GWE = Groundwater elevation measured in feet above mean sea level
mg/L = Milligrams per liter
MTBE = Methyl tert butyl ether
NP = Well not purged prior to sampling
P = Well purged prior to sampling
TOC = Top of casing measured in feet above mean sea level
TPH-g = Total petroleum hydrocarbons as gasoline
ug/L = Micrograms per liter

FOOTNOTES:

a = Well not accessible - car parked over.
b = Hydrocarbon pattern is present in the requested fuel quantitation range but does not represent the pattern of the requested fuel
c =TPH-g, BTEX and MTBE analyzed by EPA method 8260 beginning on 1st Quarter 2003 sampling event (3/28/03)
d = Guaged with stinger in well
e = Well casing lowered 0.06 feet during well repairs on 9/17/2003

NOTES:

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPHg was changed to GRO. The resulting data may be impacted by the potential of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported.

Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12.

Well were surveyed to NAVD'88 datum by URS Corporation on February 23, 2004.

Values for DO and pH were obtained through field measurements.

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

Table 2. Summary of Fuel Additives Analytical Data
Station #2162, 15135 Hesperian Blvd., San Leandro, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-1									
4/7/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/9/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
07/12/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-2									
3/28/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
4/7/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/9/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
07/12/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-3									
3/28/2003	<100	<20	45	<0.50	<0.50	0.73	<0.50	<0.50	
4/7/2003	<100	<20	56	<0.50	<0.50	0.72	<0.50	<0.50	
7/9/2003	<1,000	<200	87	<5.0	<5.0	<5.0	<5.0	<5.0	
10/08/2003	<100	<20	25	<0.50	<0.50	<0.50	<0.50	<0.50	
01/15/2004	<100	<20	9.8	<0.50	<0.50	<0.50	<0.50	<0.50	a (TBA and EDB)
04/05/2004	<100	<20	15	<0.50	<0.50	<0.50	<0.50	<0.50	
07/12/2004	<100	<20	7.3	<0.50	<0.50	<0.50	<0.50	<0.50	
10/19/2004	<100	<20	5.0	<0.50	<0.50	<0.50	<0.50	<0.50	
01/11/2005	<100	<20	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	b
04/14/2005	<100	<20	5.6	<0.50	<0.50	<0.50	<0.50	<0.50	
08/01/2005	<100	<20	5.2	<0.50	<0.50	<0.50	<0.50	<0.50	b
7/31/2006	<300	<20	4.3	<0.50	<0.50	<0.50	<0.50	<0.50	c
MW-4									
3/28/2003	<100	<20	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	
4/7/2003	<100	<20	14	<0.50	<0.50	<0.50	<0.50	<0.50	
7/9/2003	<100	<20	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	
10/08/2003	<100	<20	3.1	<0.50	<0.50	<0.50	<0.50	<0.50	
01/15/2004	<100	<20	6.6	<0.50	<0.50	<0.50	<0.50	<0.50	a (TBA and EDB)
04/05/2004	<100	<20	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	
07/12/2004	<100	<20	1.0	<0.50	<0.50	<0.50	<0.50	<0.50	
10/19/2004	<100	<20	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data
Station #2162, 15135 Hesperian Blvd., San Leandro, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-4 Cont.									
01/11/2005	<100	<20	11	<0.50	<0.50	<0.50	<0.50	<0.50	b
04/14/2005	<100	<20	0.64	<0.50	<0.50	<0.50	<0.50	<0.50	
08/01/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
7/31/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	c

SYMBOLS AND ABBREVIATIONS:

< = Not detected at or above specified laboratory reporting limit

--- = Not analyzed/applicable/measured/available

1,2-DCA = 1,2-Dichloroethane

DIPE = Di-isopropyl ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = Tert-amyl methyl ether

TBA = Tert-butyl alcohol

ug/L = Micrograms per liter

FOOTNOTES:

a = The result was reported with a possible high bias due to the continuing calibration verification falling outside acceptance criteria.

b = The calibration verification for ethanol was within method limits but outside contract limits.

c = LCS rec. above meth. control limits. Analyte ND. Data not impacted.

NOTES:

All fuel oxygenate compounds analyzed using EPA Method 8260B

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

Table 3. Historical Ground-Water Flow Direction and Gradient
Station #2162, 15135 Hesperian Blvd., San Leandro, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
3/23/2001	Southwest	0.011
6/20/2001	Southwest	0.013
9/22/2001	Southwest	0.012
12/28/2001	Southwest	0.010
3/14/2002	Southwest	0.011
4/18/2002	Southwest	0.012
7/19/2002	Southwest	0.012
10/9/2002	Southwest	0.013
3/28/2003	Southwest	0.013
4/7/2003	Southwest	0.011
7/9/2003	Southwest	0.010
10/8/2003	Southwest	0.010
1/15/2004	Southwest	0.008
4/5/2004	South-Southwest	0.004
7/12/2004	South and Southwest	0.003 and 0.005
10/19/2004	Southwest	0.004
1/11/2005	Southwest (a) to Southeast (b)	0.005 to 0.004
4/14/2005	Southeast	0.004
8/1/2005	Southwest	0.002
7/31/2006	South-Southwest	0.003

FOOTNOTES:

a = Direction at underground storage tanks

b = Direction at dispensers

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

**Table 4 Summary of Depth-Discrete Soil Sampling Data
Atlantic Richfield Company Station No. 2162
15135 Hesperian Boulevard, San Leandro, California (ACEH Case No. RO0000190)**

Boring I.D.	Date	Laboratory Analytical Results (mg/kg)														% Total Solids
		GRO	DRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	DIPE	ETBE	TBA	TAME	Ethanol	EDB	1,2 DCA	
CB1-7.5'-8'	7/17/2007	<0.13	4.5	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.025	<0.0063	<0.13	<0.0063	<0.0063	79
CB1-11.5'-12'	7/17/2007	<0.12	<1.2	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.024	<0.0060	<0.12	<0.0060	<0.0060	83
CB1-15.5'-16'	7/17/2007	<0.13	<1.3	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.026	<0.0064	<0.13	<0.0064	<0.0064	78
CB2 11.5'-12'	7/17/2007	2.9	1,300	<0.0058	<0.0058	<0.0058	0.0071	<0.0058	<0.0058	<0.0058	<0.023	<0.0058	<0.12	<0.0058	<0.0058	87
CB2 15.5'-16'	7/17/2007	<0.13	2.3	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.025	<0.0063	<0.13	<0.0063	<0.0063	79
CB3 7.5'-8'	7/17/2007	0.65	2.2	<0.0061	<0.0061	<0.0061	<0.0061	0.0063	<0.0061	<0.0061	<0.024	<0.0061	<0.12	<0.0061	<0.0061	82
CB3 11.5'-12'	7/17/2007	400	12	<0.061	<0.061	<0.061	<0.061	<0.031	<0.031	<0.031	<6.1	<0.031	<12	<0.031	<0.031	82
CB3 15.5'-16'	7/17/2007	<0.13	1.6	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.025	<0.0063	<0.13	<0.0063	<0.0063	79
CB4 7.5'-8'	7/17/2007	<0.12	5.6	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.023	<0.0058	<0.12	<0.0058	<0.0058	87
CB4 11.5'-12'	7/17/2007	3.8	2.0	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.025	<0.0062	<0.12	<0.0062	<0.0062	81
CB4 15.5'-16'	7/17/2007	<0.13	1.8	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.026	<0.0064	<0.13	<0.0064	<0.0064	78
CB5 7.5'-8'	7/17/2007	<0.12	26	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.023	<0.0059	<0.12	<0.0059	<0.0059	85
CB5 11.5'-12'	7/17/2007	1,100	18	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<60	<0.30	<120	<0.30	<0.30	83
CB5 15.5'-16'	7/17/2007	<0.13	<1.3	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.026	<0.0065	<0.13	<0.0065	<0.0065	77

Bolded values indicate concentrations above laboratory detection limits

GRO = Gasoline Range Organics, C4-C12

MTBE = Methyl tert-butyl ether

ETBE = Ethyl tert-butyl ether

TAME = Tertiary amyl methyl ether

1,2 DCA = 1,2 Dichloroethane

DRO = Diesel Range Organics, C10-C36

DIPE = Di-isopropyl ether

TBA = Tertiary butyl alcohol

EDB = 1,2-Dibromoethane

**Table 5 Summary of Depth-Discrete Ground-Water Sampling Data
Atlantic Richfield Company Station No. 2162
15135 Hesperian Boulevard, San Leandro, California (ACEH Case No. RO0000190)**

Boring I.D.	Date	Laboratory Analytical Results (µg/l)													
		GRO	DRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	DIPE	ETBE	TBA	TAME	Ethanol	EDB	1,2 DCA
CB1-W	7/17/2007	<50	<47	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<300	<0.50	<0.50
CB2-W	7/17/2007	1,900	2,000	12	<2.5	110	140	<2.5	<2.5	<2.5	<100	<2.5	<1,500	<2.5	<2.5
CB3-W	7/17/2007	490	440	<0.50	<0.50	0.92	<0.50	0.82	<0.50	<0.50	<20	<0.50	<300	<0.50	<0.50
CB4-W	7/17/2007	<50	220	1.0	<0.50	<0.50	<0.50	20	<0.50	<0.50	<20	<0.50	<300	<0.50	<0.50
CB5-W	7/17/2007	490	360	2.1	<0.50	<0.50	<0.50	70	<0.50	<0.50	<20	3.9	<300	<0.50	<0.50

Bolded values indicate concentrations above laboratory detection limits

GRO = Gasoline Range Organics, C4-C12

MTBE = Methyl tert-butyl ether

ETBE = Ethyl tert-butyl ether

TAME = Tertiary amyl methyl ether

1,2 DCA = 1,2 Dichloroethane

DRO = Diesel Range Organics, C10-C36

DIPE = Di-isopropyl ether

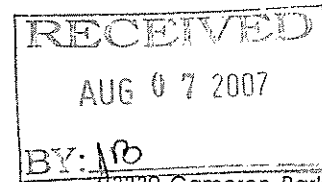
TBA = Tertiary butyl alcohol

EDB = 1,2-Dibromoethane

APPENDIX A

STRATUS SITE ASSESSMENT FIELD DATA PACKAGE

(Includes Field Data Sheets, Boring Logs, Site Plan with Field Modifications, Well Permit, and Laboratory Analytical Report with Chain-of-Custody Documentation)



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

August 3, 2007

Mr. Tom Venus
Broadbent & Associates, Inc.
1324 Mangrove Avenue
Chico, California 95926

Re: On-Site Soil and Ground-Water Investigation Data Package, ARCO Service Station No. 2162, located at 15135 Hesperian Boulevard, San Leandro, California (utility locating and assessment activities performed between May 30 and July 17, 2007)

General Information

Data Submittal Prepared / Reviewed by: Collin Fischer / Scott Bittinger
Phone Number: (530) 313-9965

Date: May 30, 2007 *Arrival:* 08:40 *Departure:* 09:45

On-Site Supplier Representative: Scott Bittinger

Scope of Work Performed: Health and safety meeting. Meet with manager of auto repair shop to discuss work and collect business card. Meet with utility locating contractor at site to clear boring locations. Borings were subsequently marked for USA clearance.

Variations from Work Scope: Proposed CB-2 boring location modified due to suspected nearby locations of product line and fuel UST's.

Weather Conditions: Cloudy, warm

Unusual Field Conditions: None noted

Date: July 11, 2007 *Arrival:* 18:00 *Departure:* 18:15

On-Site Supplier Representative: Scott Bittinger

Scope of Work Performed: Check work area for USA marks. Recall USA for remark of companies with no paint marks at site.

Variations from Work Scope: None noted

Weather Conditions: Sunny, warm

Unusual Field Conditions: None noted

Date: July 16, 2007 *Arrival:* 07:30 *Departure:* 15:00

On-Site Supplier Representative: Collin Fischer

Scope of Work Performed: Health and safety meeting. Set up and remove exclusion zones. Cored concrete at 6 drilling locations. Air knifed 5 boring locations (CB-1, CB-2, CB-3, CB-4 and CB-5) to five feet bgs..

Variations from Work Scope: Encountered a 3/4" metal pipe at 18" while clearing boring CB-2. Location moved 18" SE.

Weather Conditions: Overcast, warm
Unusual Field Conditions: None noted

Date: July 17, 2007 *Arrival:* 06:30 *Departure:* 13:15

On-Site Supplier Representative: Collin Fischer and Scott Bittinger

Scope of Work Performed: Health and safety meeting. Set up and remove exclusion zones. Completed 5 Direct-Push Borings to 16 feet bgs. (CB-1, CB-2, CB-3, CB-4 and CB-5) collecting soil and groundwater samples.

Variations from Work Scope: Borings completed to 16 feet bgs. Instead of 15 feet bgs.

Weather Conditions: Sunny, warm

Unusual Field Conditions: None noted

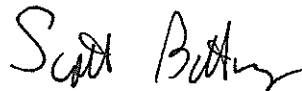
This submittal presents the tabulation of data collected in association with the completion of 5 Direct-Push borings. The attachments include field data sheets, boring logs, drilling permit, site plan, chain of custody documentation and certified analytical results. The information is being provided 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,

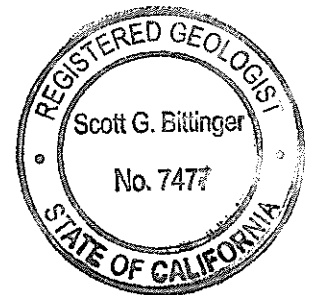
STRATUS ENVIRONMENTAL, INC.



Collin Fischer
Staff Geologist



Scott Bittinger, P.G.
Project Geologist



Attachments:

- Field Data Sheets
- Boring Logs
- Site Plan
- Drilling Permit
- Chain-of-Custody Documentation
- Certified Analytical Results

Cc: Paul Supple, BP/Arco

Arco 2162
San Leandro

5-30-07

Onsite 8:40 to locate utilities & mark borings.

Cloudy, 60°
Has meeting & talk to ~~man~~ store employees.
Site is a small gas station that has an auto repair shop.

Talk to manager about the work & collect card.

3 of the 5 borings will be on concrete

We will likely need a variance to complete CB-2.

Borehole will likely only be 7-8' from wash oil & fuel UST.

Can't tell exact boundary of UST complex because
entire north side of site is covered with concrete.
UST complex (fuel) is further west than illustrated on site plan.

Offsite 9:45.

Scott Bittner

Stark Environmental, Inc.

Arco 2162

7-11-07

Onsite 6:00 to check USA marks.

Re-called USA for re-make of Companies with no paint marks

Sunny, 70[°]F

offsite 6:15

Scott Bettay

States Environmental, Inc.

Field Data Sheet

Site: Acio 2162 Date: 7/16/07 OVERCAST WARM

Personnel on site: COLLIN FISCHER

Notes:

0720 onsite

0745 CSI onsite, safety meeting, site walk

0815 start work

1045 → ENCOUNTERED PIPE @ 18" CAN OFFICE, WRITER A NEARBY LIST
METAL, 1/4" DIAMETER @ CB-2

1102 → MOVE TO CB-3

1144 → PAUL SUPPLE ARRIVES onsite.

12:20 (ROB & PAUL LEAVE)

1145 → ROB MILLER FROM BROADBENT & ASSOCIATES ARRIVES onsite

1500 → CB-3, CB-4, CB-5, CB-1 CLEARED, MOVE BACK TO (CB-2)
→ ALL HOLES CLEARED TO 5', OFFSITE

↑
MOVED
18" SE

COLLIN FISCHER

STRATUS ENVIRONMENTAL

Field Data Sheet

Site: ARCO 2162

Date: 7/17/07 Sunny, warm

Personnel on site: COLLIN FISCHER, SCOTT BITTINGER

Notes:

0545 → left House

0630 → ONSITE, SCOTT ARRIVES ALSO

0650 → DRILLING AREA, SAFETY MEETING, START ON CB-3

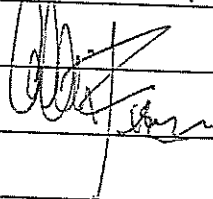
0820 → CB-3 DONE MOVE TO CB-2

0940 → CB-2 DONE MOVE TO CB-1

1045 → CB-1 DONE, MOVE TO CB-4 @ 1115

1300 → DONE W/ ALL REVERSE @ 1315

COLLIN FISCHER



STRATUS ENVIRONMENTAL, INC.

SOIL BORING LOG

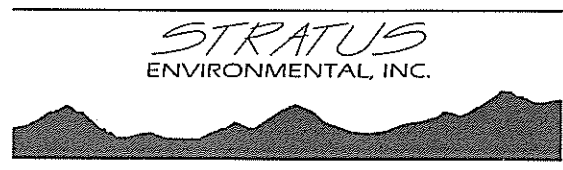
Boring No. CB-1

Sheet: 1 of 1

Client	ARCO Station 2162	Date	July 17, 2007
Address	15135 Hesperian Boulevard San Leandro, CA	Drilling Co.	RSI rig type: Direct Push
Project No.	E2162-01	Driller	Jose Velasco
Logged By:	Collin Fischer	Method	Direct Push Hole Diameter: 2 inches
Well Pack	sand: N/A bent.: N/A grout: N/A	Sampler:	Continuous Casing
Well Construction	Casing Material: N/A Casing Diameter: N/A	Screen Interval: N/A	Screen Slot Size: N/A
Depth to GW:	▽ first encountered = 10 feet	static = N/A	

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						1	Air Knife Fill		
						2			
						3			
						4			
						5	CL	Silty Clay, CL, (5Y 2.5/1), black, dry, non plastic, hard, 85% clay 15% silt.	
						6			
						7	SM	Silty Sand with Clay, SM, (2.5Y 4/3), olive brown, moist, fine grained medium dense, 70 % sand 20% silt 10% clay.	
S	CB-1 7.5'-8'	N/A	0954	80%		8	CL	Silty Clay, CL, (2.5Y 4/3), olive brown, moist, medium plasticity, hard 80% clay 20% silt	
						9			
						10	▽	Silty Sand trace Clay, SM, (5Y 3/2), dark olive grey, wet medium-fine grained, soft, 70% sand 30% silt trace clay	
						11	SM		
S	CB-1 11.5'-12'	N/A	0956	100%		12		Silty Sand with Gravel, SM, (2.5Y 4/3), olive brown, wet medium-fine grained sand, medium grained gravel, dense 60% sand 30 % silt 10% gravel.	
						13			
						14	CL	Silty Clay, (2.5Y 4/3), olive brown, wet, low plasticity, soft, 80% clay 20% silt.	
						15			
S	CB-1 15.5'-16'	N/A	0958	100%		16			
						17			
						18			
						19			
						20			

Comments: Continuously sampled starting at 5 feet bgs.



SOIL BORING LOG

Boring No. CB-2

Sheet: 1 of 1

Client	ARCO Station 2162	Date	July 17, 2007
Address	15135 Hesperian Boulevard San Leandro, CA	Drilling Co.	RSI rig type: Direct Push
Project No.	E2162-01	Driller	Jose Velasco
Logged By:	Collin Fischer	Method	Direct Push Hole Diameter: 2 inches
Well Pack	sand: N/A bent.: N/A grout: N/A	Sampler:	Continuous Casing
Well Construction	Casing Material: N/A	Screen Interval:	N/A
	Casing Diameter: N/A.	Screen Slot Size:	N/A
Depth to GW:	▽ first encountered = 10 feet	▽ static =	N/A

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						1	Air Knife Fill		
						2			
						3			
						4			
						5		No Recovery	
S	CB-2 7.5'-8'	N/A	N/A	0%		8	SM	Silty Sand with Clay, SM, (5Y 2.5/2), black, moist, coarse grained, dense 80% sand 15% silt 5% clay.	
						9			
						10			
						11	CL	Clay with Silt, CL, (5Y 3/1), very dark grey, moist, medium plasticity, firm hydrocarbon staining, hydrocarbon odor, 95% clay 5% silt.	
S	CB-2 11.5'-12'	N/A	0836	80%		12	SM	Silty Sand with Clay, SM, (5Y 4/1), dark grey, wet, medium-fine grained medium dense, hydrocarbon odor, 60% sand 35% silt 5% clay.	
						13			
						14			
						15			
S	CB-2 15.5'-16'	N/A	0839	80%		16	ML	Clayey Silt, ML, (2.5Y 4/2), dark grayish brown, wet, non plastic, soft 60% silt 40% clay.	
						17			
						18			
						19			
						20			

Comments: Continuously sampled starting at 5 feet bgs.



SOIL BORING LOG

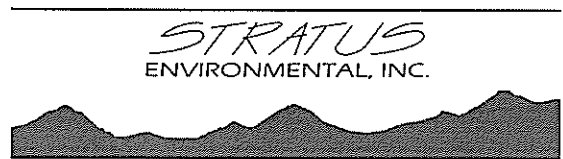
Boring No. CB-3

Sheet: 1 of 1

Client	ARCO Station 2162	Date	July 17, 2007
Address	15135 Hesperian Boulevard San Leandro, CA	Drilling Co.	RSI rig type: Direct Push
Project No.	E2162-01	Driller	Jose Velasco
Logged By:	Collin Fischer	Method	Direct Push Hole Diameter: 2 inches
Well Pack	sand: N/A bent.: N/A grout: N/A	Sampler:	Continuous Casing
Well Construction	Casing Material: N/A	Screen Interval: N/A	
	Casing Diameter: N/A.	Screen Slot Size: N/A	
Depth to GW:	▽ first encountered = 11 feet	▽ static = N/A	

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)	
			Time	Recov.						
						1	Air Knife Fill			
						2				
						3				
						4				
						5				
						6	ML	Clayey Silt with Sand, ML, (5Y 3/2), dark olive grey, dry, low plasticity stiff, 70% silt 20% clay 10% sand.		
S	CB-3 7.5'-8'	N/A	0730	50%		7				
						8				
						9	CL	Clay trace Silt, CL, (5Y 4/1), dark grey, moist, medium plasticity, stiff hydrocarbon staining, hydrocarbon odor, 97% clay 3% silt.		
						10				
						11				
S	CB-3 11.5'-12'	N/A	0736	100%		12	SM	Silty sand trace Clay, SM, (5Y 3/2), dark olive grey, wet, medium-fine grained medium dense, hydrocarbon odor, hydrocarbon staining 80% sand 17% silt 3% clay		
						13				
						14				
						15				
S	CB-3 15.5'-16'	N/A	0738	100%		16		Silty Sand with Clay, SM, (5Y 4/4), dark yellowish brown, moist medium-fine grained, medium dense, 70% sand 20% silt 10% clay.		
						17				
						18				
						19				
						20				

Comments: Continuously sampled starting at 5 feet bgs.



SOIL BORING LOG

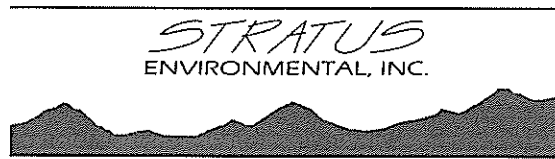
Boring No. CB-4

Sheet: 1 of 1

Client	ARCO Station 2162	Date	July 17, 2007
Address	15135 Hesperian Boulevard San Leandro, CA	Drilling Co.	RSI rig type: Direct Push
Project No.	E2162-01	Driller	Jose Velasco
Logged By:	Collin Fischer	Method	Direct Push Hole Diameter: 2 inches
Well Pack	sand: N/A bent.: N/A grout: N/A	Sampler:	Continuous Casing
Well Construction	Casing Material: N/A	Screen Interval: N/A	
	Casing Diameter: N/A.	Screen Slot Size: N/A	
Depth to GW:	▽ first encountered = 11 feet	▽ static = N/A	

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						1	Air Knife Fill		
						2			
						3			
						4			
						5			
						6			
						7		Silty Clay, CL, (10YR 3/4), dark yellowish brown, dry, low plasticity stiff, 65% clay 35% silt	
S	CB-4 7.5'-8'	N/A	1122	70%		8	CL		
						9			
						10			
						11	▽	Clay with Silt, CL, (10YR 3/3), dark brown, dry, high plasticity, stiff 90% clay 10% silt	
S	CB-4 11.5'-12'	N/A	1124	75%		12	SM	Silty Sand with clay, SM, (2.5Y 3/2), very dark grayish brown, wet fine grained, medium dense, hydrocarbon staining, hydrocarbon odor 60% sand 30% silt 10% clay.	
						13			
						14			
						15		Sand with Silt, Gravel and Clay, SM, (5Y 3/2), dark olive grey, wet medium grained, loose, hydrocarbon staining, hydrocarbon odor 70% sand 10% silt 7.5% gravel 7.5% clay	
S	CB-4 15.5'-16'	N/A	1127	90%		16	CL	Clay, CL, (2.5Y 4/4), olive brown, moist, high plasticity, hard hydrocarbon staining, slight hydrocarbon odor, 100% clay	
						17			
						18			
						19			
						20			

Comments: Continuously sampled starting at 5 feet bgs.



SOIL BORING LOG

Boring No. CB-4

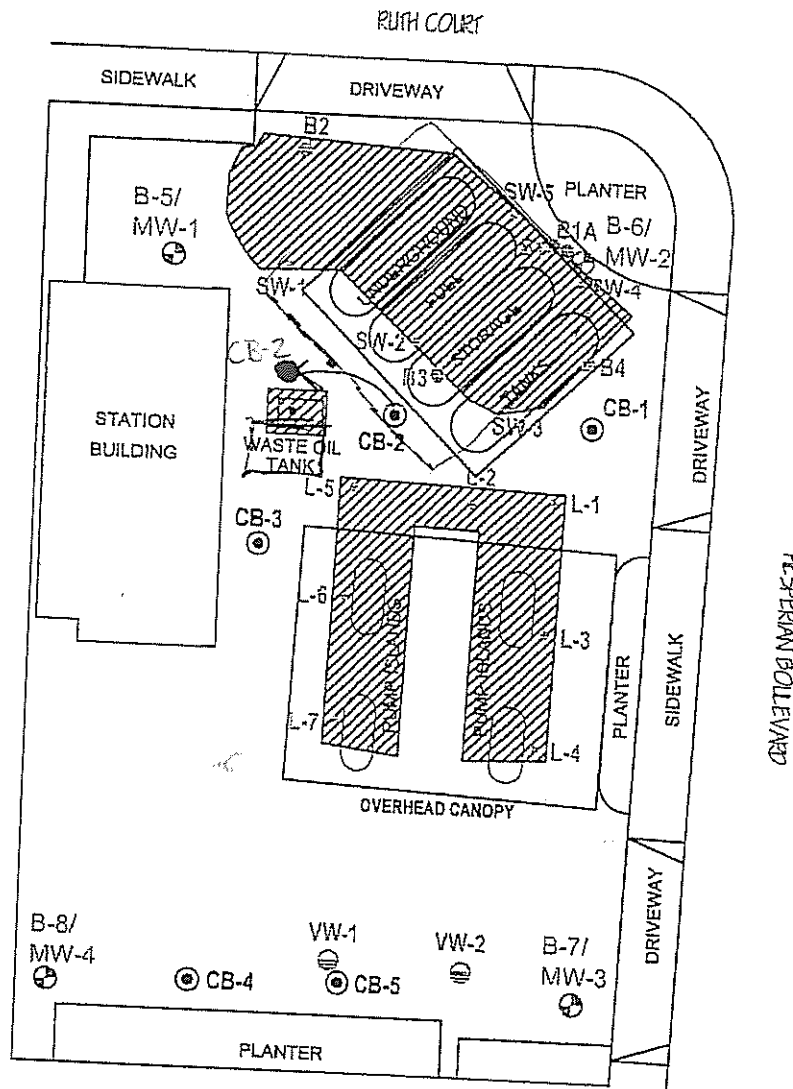
Sheet: 1 of 1

Client	ARCO Station 2162	Date	July 17, 2007
Address	15135 Hesperian Boulevard San Leandro, CA	Drilling Co.	RSI rig type: Direct Push
Project No.	E2162-01	Driller	Jose Velasco
Logged By:	Collin Fischer	Method	Direct Push Hole Diameter: 2 inches
Well Pack	sand: N/A bent.: N/A grout: N/A	Sampler:	Continuous Casing
Well Construction	Casing Material: N/A	Screen Interval:	N/A
	Casing Diameter: N/A.	Screen Slot Size:	N/A
Depth to GW:	▽ first encountered = 11 feet	▽ static =	N/A


Sample Type	Sample		Blow Count	Time	Recov.	Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)	
	No.										
							1	Air Knife Fill			
							2				
							3				
							4				
							5				
							6				
							7		Silty Clay, CL, (10YR 3/6), dark yellowish brown, dry, low plasticity hard, 65% clay 35% silt		
S	CB-5	N/A	1207	100%			8	CL			
	7.5'-8'						9		Clay with Silt, CL, (2.5Y 4/2), dark grayish brown, dry, low plasticity, firm 90% clay 10% silt		
							10				
							11	▽	Clay with Silt, CL, (2.5Y 3/3), dark olive brown, dry, low plasticity, firm hydrocarbon staining, hydrocarbon odor, 90% clay 10% silt		
S	CB-5	N/A	1209	100%			12	SM			
	11.5'-12'						13		Silty Sand trace gravel, SM, (2.5Y 2.5/1), black, wet, medium grained, loose hydrocarbon staining, hydrocarbon odor, 70% sand 30% silt		
							14				
							15		Silty Sand, SM, (2.5Y 2.5/1), black, wet, medium grained, loose hydrocarbon staining, hydrocarbon odor, 70% sand 30% silt		
S	CB-5	N/A	1212	100%			16	CL			
	15.5'-16'						17		Clay, CL, (10YR 3/4), dark yellowish brown, moist, high plasticity, firm 100 % clay		
							18				
							19				
							20				

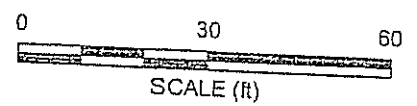
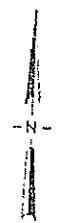
Comments: Continuously sampled starting at 5 feet bgs.






LEGEND

- CB-5 ● PROPOSED SOIL/GROUNDWATER BORING
- B-8/MW-4 ● MONITORING WELL RESNA SEPTEMBER 1992
- VW-2 ● SOIL VAPOR EXTRACTION WELL (ROUX ASSOCIATES, INC., 1991)
- B4 ● SOIL BORING (ROUX ASSOCIATES, INC., 1991)
- SW-5 ■ SIDEWALL SOIL SAMPLE
- L-7 ■ PRODUCT LINE SAMPLE
-  FORMER UNDERGROUND STORAGE TANK AND PRODUCT LINE EXCAVATIONS



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

 BROADBENT & ASSOCIATES, INC. ENGINEERING, WATER RESOURCES & ENVIRONMENTAL 1321 Mangrove Ave., Suite 212, Chico, California Project No.: 06-08-620 Date: 10/04/06	Station #2162 15135 Hesperian Boulevard San Leandro, California	Proposed Boring Locations	Drawing
			3

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: 07/03/2007 By jamesy

Permit Numbers: W2007-0748
Permits Valid from 07/16/2007 to 07/20/2007

Application Id: 1183491143255
Site Location: 15135 Hesperian Blvd, San Leandro, CA
Project Start Date: 07/16/2007

City of Project Site: San Leandro

Completion Date: 07/20/2007

Applicant: Stratus Environmental Inc. - Scott Bittinger
3330 Cameron Park Drive #550, Cameron Park, CA 95682

Phone: 530-676-2062

Property Owner: BP/ ARCO
6 CenterPointe Dr., La Palma, CA 90623

Phone: 925-275-3306

Client: ** same as Property Owner **

	Total Due:	\$200.00
Receipt Number: WR2007-0298	Total Amount Paid:	\$200.00
Payer Name : Stratus	Paid By: CHECK	PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 5 Boreholes
Driller: RSI Drilling - Lic #: 802334 - Method: DP

Work Total: \$200.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2007-0748	07/03/2007	10/14/2007	5	3.00 in.	20.00 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 James Yoo for an inspection time at 510-670-6633 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.

Alameda County Public Works Agency - Water Resources Well Permit

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. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a 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.
 8. 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.
-



A BP affiliated company

Chain of Custody Record

Project Name: Arco Station # 2162
 BP BU/AR Region/Enfos Segment: BP Americas > West Coast > Refil > Alameda > 2162
 State or Lead Regulatory Agency: Alameda County Health Care Services Agency
 Requested Due Date (mm/dd/yy): 7-23-07

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

Lab Name: <u>Test America</u>	BP/AR Facility No.: <u>2162</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Dr. Morgan Hill, CA 95037</u>	BP/AR Facility Address: <u>15135 Hesperian Blvd, San Leandro</u>	Address: <u>3330 Cameron Park Dr. #550 Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Rice</u>	California Global ID No.: <u>TD600100084</u>	Consultant/Contractor Project No.: <u>E-2162</u>
Tele/Fax: <u>408-782-8156</u>	Enfos Project No.: <u>GOC2C-0017</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR EBM: <u>Paul Supple</u>	Provision of OOC (circle one)	Tele/Fax: <u>530-676-6000</u>
Address: <u>7010 Cow Canyon Pl. #150 San Ramon, CA</u>	Phase/WBS: <u>01-assessment</u>	Report Type & QC Level: <u>Level 1 w/EDF</u>
Tele/Fax: <u>925-275-3506</u>	Sub Phase/Task: <u>03-analytical</u>	E-mail EDD To: <u>cjewitt@stratusinc.net</u>
	Cost Element: <u>01-contractor labor</u>	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Sample Point Lat/Long and Comments	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methano	Cr6	Pbex	total lead		
1	Wast Compasit	1300	7-17	✓				4						✓	✓	✓		lab compasit needed
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Sampler's Name: <u>Collin Fischer / Scott Bilkay</u>	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>Stratus Environmental, Inc.</u>	<u>Stratus</u>	<u>7/17</u>	<u>1445</u>	<u>Chris W-Test America</u>	<u>7/17</u>	<u>1445</u>
Shipment Date: <u>7-17-07</u>						
Shipment Method: <u>Delivered to lab</u>						
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

161



A BP affiliated company

Chain of Custody Record

Project Name: Arco Station # 2162
 BP BU/AR Region/Enfos Segment: BP America West Coast Rehi. 1 Alameda 2162
 State or Lead Regulatory Agency: Alameda County Health Care Services Agency
 Requested Due Date (mm/dd/yy): 8-1-07

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

Lab Name: <u>Test America</u>	BP/AR Facility No.: <u>2162</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Dr. Morgan Hill, CA 95037</u>	BP/AR Facility Address: <u>1535 Hesperian Blvd, San Leandro</u>	Address: <u>3330 Cameron Park Dr. #550 Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Rice</u>	Site Lat/Long:	Consultant/Contractor Project No.: <u>E-2162</u>
Tele/Fax: <u>408-782-8156</u>	California Global ID No.: <u>TD600100084</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR EBM: <u>Paul Supple</u>	Enfos Project No.: <u>GOC2C-0017</u>	Tele/Fax: <u>530-676-6000</u>
Address: <u>7010 Cow Canyon Pl. #150 San Ramon, CA</u>	Provision of OOC (circle one)	Report Type & QC Level: <u>Level 1 w/EDF</u>
Tele/Fax: <u>925-275-3506</u>	Phase/WBS: <u>01-assessment</u>	E-mail EDD To: <u>cjewitt@stratusinc.net</u>
	Sub Phase/Task: <u>03-analytical</u>	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)
	Cost Element: <u>01-contractor labor</u>	

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis							Sample Point Lat/Long and Comments				
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl (w/SS)	Methanol	GRD	TPHD	BTEX	Suxy's	etOH	1,2-DCA	EDB					
1	CBS-W	8:10	7-17	✓			7	✓			✓			✓	✓	✓	✓	✓	✓	✓					
2	CB3 7.5'-8'	7:30	7-17	✓			1	✓			✓			✓	✓	✓	✓	✓	✓	✓					
3	CB-3 11.5'-12'	7:36	7-17	✓			1	✓			✓			✓	✓	✓	✓	✓	✓	✓					
4	CB-3 15.5'-16'	7:36	7-17	✓			1	✓			✓			✓	✓	✓	✓	✓	✓	✓					
5	CB2-W	9:05	7-17		✓		8	✓			✓			✓	✓	✓	✓	✓	✓	✓					
6	CB2 11.3'-12'	8:36	7-17	✓			1	✓			✓			✓	✓	✓	✓	✓	✓	✓					
7	CB2-15.5'-16'	8:30	7-17	✓			1	✓			✓			✓	✓	✓	✓	✓	✓	✓					
8	CB1-W	10:15	7-17		✓		7	✓			✓			✓	✓	✓	✓	✓	✓	✓					
9	CB1-7.5'-8'	0954	7-17	✓			1	✓			✓			✓	✓	✓	✓	✓	✓	✓					
10	CB1-11.5'-12'	0956	7-17	✓			1	✓			✓			✓	✓	✓	✓	✓	✓	✓					

Sampler's Name: <u>Collin Fisher / Scott Bittinger</u>	Relinquished By / Affiliation: <u>Collin Fisher</u>	Date: <u>7/17</u>	Time: <u>1445</u>	Accepted By / Affiliation: <u>Cheryl Test America</u>	Date: <u>7/17</u>	Time: <u>1444</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>7-17-07</u>						
Shipment Method: <u>delivered to lab</u>						
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



A BP affiliated company

Chain of Custody Record

Project Name: Arco Station # 2162
 BP BU/AR Region/Enfos Segment: BP Americas West Coast Rehab Alameda
 State or Lead Regulatory Agency: Alameda County Health Care Services Agency
 Requested Due Date (mm/dd/yy): 8-1-07

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

Lab Name: <u>Test America</u>	BP/AR Facility No.: <u>2162</u>	Consultant/Contractor: <u>Stratus Environmental, Inc</u>
Address: <u>985 Jarvis Dr. Morgan Hill, CA 95037</u>	BP/AR Facility Address: <u>15135 Hesperian Blvd, San Leandro</u>	Address: <u>3330 Cameron Park Dr. #550 Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Rice</u>	California Global ID No.: <u>TD600100084</u>	Consultant/Contractor Project No.: <u>E-2162</u>
Tele/Fax: <u>408-782-8156</u>	Enfos Project No.: <u>GOC2C-0017</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR EBM: <u>Paul Supple</u>	Provision of OOC (circle one)	Tele/Fax: <u>930-676-6000</u>
Address: <u>7010 Cow Canyon Pl. #150 San Ramon, CA</u>	Phase/WBS: <u>01-assessment</u>	Report Type & QC Level: <u>Level 1 w/EDF</u>
Tele/Fax: <u>925-275-3506</u>	Sub Phase/Task: <u>03-analytical</u>	E-mail EDD To: <u>clawitt@stratusinc.net</u>
	Cost Element: <u>01-contractor labor</u>	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis							Sample Point Lat/Long and Comments			
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl (max)	Methanol	Colo	TAPD	Blex	Sony's	eTOH	12-DCA	ED5				
1	C61-15.5-16'	9:58	7-17	✓				1	✓									✓	✓	✓	✓	✓	✓	
2	C64-W	11:45	7-17		✓			7	✓			✓						✓	✓	✓	✓	✓	✓	
3	C64 7.5'-8'	11:22	7-17	✓				1	✓									✓	✓	✓	✓	✓	✓	
4	C64 11.5'-12'	11:24	7-17	✓				1	✓									✓	✓	✓	✓	✓	✓	
5	C64 15.5'-16'	11:27	7-17	✓				1	✓									✓	✓	✓	✓	✓	✓	
6	C65-W	12:30	7-17		✓			7	✓			✓						✓	✓	✓	✓	✓	✓	
7	C65 7.5-8'	12:07	7-17	✓				1	✓									✓	✓	✓	✓	✓	✓	
8	C65 11.5'-12'	12:09	7-17	✓				1	✓									✓	✓	✓	✓	✓	✓	
9	C65 15.5'-16'	12:12	7-17	✓				1	✓									✓	✓	✓	✓	✓	✓	
10																								

Sampler's Name: <u>Callan Fischer & Scott Bittlinger</u>	Relinquished By / Affiliation: <u>Callan Fischer</u>	Date: <u>7/17</u>	Time: <u>1:45</u>	Accepted By / Affiliation: <u>[Signature] Test America</u>	Date: <u>7/17</u>	Time: <u>1:45</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>7-17-07</u>						
Shipment Method: <u>delivered to lab</u>						
Shipment Tracking No:						

Special Instructions:

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

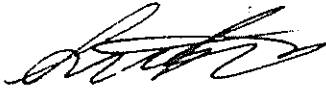
2 August, 2007

Jay Johnson
Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park, CA 95682

RE: ARCO #2162, San Leandro, CA
Work Order: MQG0624

Enclosed are the results of analyses for samples received by the laboratory on 07/17/07 19:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa Race
Senior Project Manager

CA ELAP Certificate # 1210

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2162, San Leandro, CA
Project Number: G0C2C-0017
Project Manager: Jay Johnson

MQG0624
Reported:
08/02/07 17:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CB3-W	MQG0624-01	Water	07/17/07 08:10	07/17/07 19:25
CB3 7.5'-8'	MQG0624-02	Soil	07/17/07 07:30	07/17/07 19:25
CB3 11.5'-12'	MQG0624-03	Soil	07/17/07 07:36	07/17/07 19:25
CB3 15.5'-16'	MQG0624-04	Soil	07/17/07 07:36	07/17/07 19:25
CB2-W	MQG0624-05	Water	07/17/07 09:05	07/17/07 19:25
CB2 11.5'-12'	MQG0624-06	Soil	07/17/07 08:36	07/17/07 19:25
CB2 15.5'-16'	MQG0624-07	Soil	07/17/07 08:36	07/17/07 19:25
CB1-W	MQG0624-08	Water	07/17/07 10:25	07/17/07 19:25
CB1- 7.5'-8'	MQG0624-09	Soil	07/17/07 09:54	07/17/07 19:25
CB1- 11.5'-12'	MQG0624-10	Soil	07/17/07 09:56	07/17/07 19:25
CB1- 15.5'-16'	MQG0624-11	Soil	07/17/07 09:58	07/17/07 19:25
CB4-W	MQG0624-12	Water	07/17/07 11:45	07/17/07 19:25
CB4 7.5'-8'	MQG0624-13	Soil	07/17/07 11:22	07/17/07 19:25
CB4 11.5'-12'	MQG0624-14	Soil	07/17/07 11:24	07/17/07 19:25
CB4 15.5'-16'	MQG0624-15	Soil	07/17/07 11:27	07/17/07 19:25
CB5-W	MQG0624-16	Water	07/17/07 12:30	07/17/07 19:25
CB5 7.5'-8'	MQG0624-17	Soil	07/17/07 12:07	07/17/07 19:25
CB5 11.5'-12'	MQG0624-18	Soil	07/17/07 12:09	07/17/07 19:25
CB5 15.5'-16'	MQG0624-19	Soil	07/17/07 12:12	07/17/07 19:25

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies.

These samples were received with no custody seals.

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2162, San Leandro, CA
Project Number: G0C2C-0017
Project Manager: Jay Johnson

MQG0624
Reported:
08/02/07 17:19

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB3-W (MQG0624-01) Water Sampled: 07/17/07 08:10 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	490	50	ug/l	1	7G24009	07/24/07	07/24/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		103 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		98 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		104 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99 %	60-135		"	"	"	"	
CB3 7.5'-8' (MQG0624-02) Soil Sampled: 07/17/07 07:30 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	0.65	0.12	mg/kg dry	1	7G21003	07/17/07	07/21/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		107 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		104 %	75-120		"	"	"	"	
CB3 11.5'-12' (MQG0624-03) Soil Sampled: 07/17/07 07:36 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	400	3.1	mg/kg dry	1	7G17039	07/17/07	07/24/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		96 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		144 %	60-120		"	"	"	"	LH,AY
Surrogate: Dibromofluoromethane		92 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		96 %	75-120		"	"	"	"	
CB3 15.5'-16' (MQG0624-04) Soil Sampled: 07/17/07 07:36 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	ND	0.13	mg/kg dry	1	7G23002	07/17/07	07/23/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		110 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		103 %	75-120		"	"	"	"	

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2162, San Leandro, CA
Project Number: G0C2C-0017
Project Manager: Jay Johnson

MQG0624
Reported:
08/02/07 17:19

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB2-W (MQG0624-05) Water Sampled: 07/17/07 09:05 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	1900	250	ug/l	5	7G24009	07/24/07	07/24/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		106 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		104 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	60-135		"	"	"	"	
CB2 11.5'-12' (MQG0624-06) Soil Sampled: 07/17/07 08:36 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	2.9	0.12	mg/kg dry	1	7G23002	07/17/07	07/23/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		112 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		117 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		103 %	75-120		"	"	"	"	
CB2 15.5'-16' (MQG0624-07) Soil Sampled: 07/17/07 08:36 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	ND	0.13	mg/kg dry	1	7G23002	07/17/07	07/23/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		107 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		104 %	75-120		"	"	"	"	
CB1-W (MQG0624-08) Water Sampled: 07/17/07 10:25 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7G24009	07/24/07	07/24/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		114 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		113 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		100 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98 %	60-135		"	"	"	"	

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2162, San Leandro, CA
Project Number: G0C2C-0017
Project Manager: Jay Johnson

MQG0624
Reported:
08/02/07 17:19

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB1- 7.5'-8' (MQG0624-09) Soil Sampled: 07/17/07 09:54 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	ND	0.13	mg/kg dry	1	7G23002	07/17/07	07/23/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		110 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		102 %	75-120		"	"	"	"	
CB1- 11.5'-12' (MQG0624-10) Soil Sampled: 07/17/07 09:56 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	ND	0.12	mg/kg dry	1	7G23002	07/17/07	07/23/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		112 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		101 %	75-120		"	"	"	"	
CB1- 15.5'-16' (MQG0624-11) Soil Sampled: 07/17/07 09:58 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	ND	0.13	mg/kg dry	1	7G23002	07/17/07	07/23/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		115 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		102 %	75-120		"	"	"	"	
CB4-W (MQG0624-12) Water Sampled: 07/17/07 11:45 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7G24009	07/24/07	07/24/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		108 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		99 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94 %	60-135		"	"	"	"	

Stratus Environmental Inc. [Arco]
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Project: ARCO #2162, San Leandro, CA
Project Number: G0C2C-0017
Project Manager: Jay Johnson

MQG0624
Reported:
08/02/07 17:19

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB4 7.5'-8' (MQG0624-13) Soil Sampled: 07/17/07 11:22 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	ND	0.12	mg/kg dry	1	7G23002	07/17/07	07/23/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		112 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		101 %	75-120		"	"	"	"	
CB4 11.5'-12' (MQG0624-14) Soil Sampled: 07/17/07 11:24 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	3.8	0.12	mg/kg dry	1	7G25030	07/17/07	07/25/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		106 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		128 %	60-120		"	"	"	"	LH,AY
Surrogate: Dibromofluoromethane		105 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		107 %	75-120		"	"	"	"	
CB4 15.5'-16' (MQG0624-15) Soil Sampled: 07/17/07 11:27 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	ND	0.13	mg/kg dry	1	7G23002	07/17/07	07/23/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		114 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		104 %	75-120		"	"	"	"	
CB5-W (MQG0624-16) Water Sampled: 07/17/07 12:30 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	490	50	ug/l	1	7G24009	07/24/07	07/24/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		99 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		99 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		103 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	60-135		"	"	"	"	

Stratus Environmental Inc. [Arco]
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Project: ARCO #2162, San Leandro, CA
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Project Manager: Jay Johnson

MQG0624
Reported:
08/02/07 17:19

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB5 7.5'-8' (MQG0624-17) Soil Sampled: 07/17/07 12:07 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	ND	0.12	mg/kg dry	1	7G23002	07/17/07	07/23/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		114 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		101 %	75-120		"	"	"	"	
CB5 11.5'-12' (MQG0624-18) Soil Sampled: 07/17/07 12:09 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	1100	30	mg/kg dry	10	7G17039	07/17/07	07/26/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		93 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		116 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		93 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		97 %	75-120		"	"	"	"	
CB5 15.5'-16' (MQG0624-19) Soil Sampled: 07/17/07 12:12 Received: 07/17/07 19:25									
Gasoline Range Organics (C4-C12)	ND	0.13	mg/kg dry	1	7G23002	07/17/07	07/23/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		107 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		102 %	75-120		"	"	"	"	

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MQG0624
Reported:
08/02/07 17:19

Extractable Hydrocarbons by EPA 8015B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB3-W (MQG0624-01) Water Sampled: 07/17/07 08:10 Received: 07/17/07 19:25									
Diesel Range Organics (C10-C36)	440	47	ug/l	1	7G24020	07/24/07	07/30/07	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		82 %	30-115		"	"	"	"	
CB3 7.5'-8' (MQG0624-02) Soil Sampled: 07/17/07 07:30 Received: 07/17/07 19:25									
Diesel Range Organics (C10-C36)	2.2	1.2	mg/kg dry	1	7G20025	07/20/07	07/20/07	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		81 %	40-120		"	"	"	"	
CB3 11.5'-12' (MQG0624-03) Soil Sampled: 07/17/07 07:36 Received: 07/17/07 19:25									
Diesel Range Organics (C10-C36)	12	1.2	mg/kg dry	1	7G20025	07/20/07	07/20/07	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		94 %	40-120		"	"	"	"	
CB3 15.5'-16' (MQG0624-04) Soil Sampled: 07/17/07 07:36 Received: 07/17/07 19:25									
Diesel Range Organics (C10-C36)	1.6	1.3	mg/kg dry	1	7G20025	07/20/07	07/20/07	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		94 %	40-120		"	"	"	"	
CB2-W (MQG0624-05) Water Sampled: 07/17/07 09:05 Received: 07/17/07 19:25									
Diesel Range Organics (C10-C36)	2000	140	ug/l	3	7G24020	07/24/07	07/30/07	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		134 %	30-115		"	"	"	"	LH,AY
CB2 11.5'-12' (MQG0624-06) Soil Sampled: 07/17/07 08:36 Received: 07/17/07 19:25									
Diesel Range Organics (C10-C36)	1300	58	mg/kg dry	50	7G20025	07/20/07	07/23/07	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		1240 %	40-120		"	"	"	"	LH,AY
CB2 15.5'-16' (MQG0624-07) Soil Sampled: 07/17/07 08:36 Received: 07/17/07 19:25									
Diesel Range Organics (C10-C36)	2.3	1.3	mg/kg dry	1	7G20025	07/20/07	07/23/07	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		84 %	40-120		"	"	"	"	

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MQG0624
Reported:
08/02/07 17:19

Extractable Hydrocarbons by EPA 8015B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB1-W (MQG0624-08) Water Sampled: 07/17/07 10:25 Received: 07/17/07 19:25									
Diesel Range Organics (C10-C36)	ND	47	ug/l	1	7G24020	07/24/07	08/01/07	EPA 8015B-SVOA	
Surrogate: n-Octacosane		86 %	30-115		"	"	"	"	
CB1- 7.5'-8' (MQG0624-09) Soil Sampled: 07/17/07 09:54 Received: 07/17/07 19:25									
Diesel Range Organics (C10-C36)	4.5	1.3	mg/kg dry	1	7G20025	07/20/07	07/23/07	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		91 %	40-120		"	"	"	"	
CB1- 11.5'-12' (MQG0624-10) Soil Sampled: 07/17/07 09:56 Received: 07/17/07 19:25									
Diesel Range Organics (C10-C36)	ND	1.2	mg/kg dry	1	7G20025	07/20/07	07/23/07	EPA 8015B-SVOA	
Surrogate: n-Octacosane		86 %	40-120		"	"	"	"	
CB1- 15.5'-16' (MQG0624-11) Soil Sampled: 07/17/07 09:58 Received: 07/17/07 19:25									
Diesel Range Organics (C10-C36)	ND	1.3	mg/kg dry	1	7G20025	07/20/07	07/20/07	EPA 8015B-SVOA	
Surrogate: n-Octacosane		86 %	40-120		"	"	"	"	
CB4-W (MQG0624-12) Water Sampled: 07/17/07 11:45 Received: 07/17/07 19:25									
Diesel Range Organics (C10-C36)	220	47	ug/l	1	7G24020	07/24/07	07/30/07	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		97 %	30-115		"	"	"	"	
CB4 7.5'-8' (MQG0624-13) Soil Sampled: 07/17/07 11:22 Received: 07/17/07 19:25									
Diesel Range Organics (C10-C36)	5.6	1.2	mg/kg dry	1	7G20025	07/20/07	07/21/07	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		103 %	40-120		"	"	"	"	
CB4 11.5'-12' (MQG0624-14) Soil Sampled: 07/17/07 11:24 Received: 07/17/07 19:25									
Diesel Range Organics (C10-C36)	2.0	1.2	mg/kg dry	1	7G20025	07/20/07	07/21/07	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		83 %	40-120		"	"	"	"	

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MQG0624
Reported:
08/02/07 17:19

Extractable Hydrocarbons by EPA 8015B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB4 15.5'-16' (MQG0624-15) Soil Sampled: 07/17/07 11:27 Received: 07/17/07 19:25									
Diesel Range Organics (C10-C36)	1.8	1.3	mg/kg dry	1	7G20025	07/20/07	07/21/07	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		89 %	40-120		"	"	"	"	
CB5-W (MQG0624-16) Water Sampled: 07/17/07 12:30 Received: 07/17/07 19:25									
Diesel Range Organics (C10-C36)	360	47	ug/l	1	7G24020	07/24/07	07/30/07	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		93 %	30-115		"	"	"	"	
CB5 7.5'-8' (MQG0624-17) Soil Sampled: 07/17/07 12:07 Received: 07/17/07 19:25									
Diesel Range Organics (C10-C36)	26	2.3	mg/kg dry	2	7G20025	07/20/07	07/23/07	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		110 %	40-120		"	"	"	"	
CB5 11.5'-12' (MQG0624-18) Soil Sampled: 07/17/07 12:09 Received: 07/17/07 19:25									
Diesel Range Organics (C10-C36)	18	1.2	mg/kg dry	1	7G20025	07/20/07	07/21/07	EPA 8015B-SVOA	PT
Surrogate: n-Octacosane		91 %	40-120		"	"	"	"	
CB5 15.5'-16' (MQG0624-19) Soil Sampled: 07/17/07 12:12 Received: 07/17/07 19:25									
Diesel Range Organics (C10-C36)	ND	1.3	mg/kg dry	1	7G20025	07/20/07	07/21/07	EPA 8015B-SVOA	
Surrogate: n-Octacosane		85 %	40-120		"	"	"	"	

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MQG0624
Reported:
08/02/07 17:19

Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB3-W (MQG0624-01) Water Sampled: 07/17/07 08:10 Received: 07/17/07 19:25									
tert-Amyl methyl ether	ND	0.50	ug/l	1	7G24009	07/24/07	07/24/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	0.92	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	0.82	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		98 %	75-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	60-125	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		104 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99 %	60-135	"	"	"	"	"	
CB3 7.5'-8' (MQG0624-02) Soil Sampled: 07/17/07 07:30 Received: 07/17/07 19:25									
tert-Amyl methyl ether	ND	0.0061	mg/kg dry	1	7G21003	07/17/07	07/21/07	EPA 8260B	
Benzene	ND	0.0061	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.024	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0061	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0061	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0061	"	"	"	"	"	"	
Ethanol	ND	0.12	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0061	"	"	"	"	"	"	
Ethylbenzene	ND	0.0061	"	"	"	"	"	"	
Methyl tert-butyl ether	0.0063	0.0061	"	"	"	"	"	"	
Toluene	ND	0.0061	"	"	"	"	"	"	
Xylenes (total)	ND	0.0061	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		105 %	70-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	65-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		104 %	75-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	60-120	"	"	"	"	"	

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MQG0624
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08/02/07 17:19

Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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CB3 11.5'-12' (MQG0624-03) Soil Sampled: 07/17/07 07:36 Received: 07/17/07 19:25

tert-Amyl methyl ether	ND	0.031	mg/kg dry	1	7G17039	07/17/07	07/24/07	EPA 8260B	
Benzene	ND	0.061	"	"	"	"	"	"	
tert-Butyl alcohol	ND	6.1	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.031	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.031	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.031	"	"	"	"	"	"	
Ethanol	ND	12	"	"	"	"	"	"	MB
Ethyl tert-butyl ether	ND	0.031	"	"	"	"	"	"	
Ethylbenzene	ND	0.061	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.031	"	"	"	"	"	"	
Toluene	ND	0.061	"	"	"	"	"	"	
Xylenes (total)	ND	0.061	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane

92 % 70-120 " " " "

Surrogate: 1,2-Dichloroethane-d4

96 % 65-135 " " " "

Surrogate: Toluene-d8

96 % 75-120 " " " "

Surrogate: 4-Bromofluorobenzene

144 % 60-120 " " " " LH,AY

CB3 15.5'-16' (MQG0624-04) Soil Sampled: 07/17/07 07:36 Received: 07/17/07 19:25

tert-Amyl methyl ether	ND	0.0063	mg/kg dry	1	7G23002	07/17/07	07/23/07	EPA 8260B	
Benzene	ND	0.0063	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.025	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0063	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0063	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0063	"	"	"	"	"	"	
Ethanol	ND	0.13	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.0063	"	"	"	"	"	"	
Ethylbenzene	ND	0.0063	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0063	"	"	"	"	"	"	
Toluene	ND	0.0063	"	"	"	"	"	"	
Xylenes (total)	ND	0.0063	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane

103 % 70-120 " " " "

Surrogate: 1,2-Dichloroethane-d4

110 % 65-135 " " " "

Surrogate: Toluene-d8

103 % 75-120 " " " "

Surrogate: 4-Bromofluorobenzene

100 % 60-120 " " " "

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Cameron Park CA, 95682

Project: ARCO #2162, San Leandro, CA
Project Number: G0C2C-0017
Project Manager: Jay Johnson

MQG0624
Reported:
08/02/07 17:19

Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB2-W (MQG0624-05) Water Sampled: 07/17/07 09:05 Received: 07/17/07 19:25									
tert-Amyl methyl ether	ND	2.5	ug/l	5	7G24009	07/24/07	07/24/07	EPA 8260B	
Benzene	12	2.5	"	"	"	"	"	"	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	1500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	110	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	140	2.5	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		107 %	75-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	60-125	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		104 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	60-135	"	"	"	"	"	
CB2 11.5'-12' (MQG0624-06) Soil Sampled: 07/17/07 08:36 Received: 07/17/07 19:25									
tert-Amyl methyl ether	ND	0.0058	mg/kg dry	1	7G23002	07/17/07	07/23/07	EPA 8260B	
Benzene	ND	0.0058	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.023	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0058	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0058	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0058	"	"	"	"	"	"	
Ethanol	ND	0.12	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.0058	"	"	"	"	"	"	
Ethylbenzene	ND	0.0058	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0058	"	"	"	"	"	"	
Toluene	ND	0.0058	"	"	"	"	"	"	
Xylenes (total)	0.0071	0.0058	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		101 %	70-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	65-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	75-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		117 %	60-120	"	"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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CB2 15.5'-16' (MQG0624-07) Soil Sampled: 07/17/07 08:36 Received: 07/17/07 19:25

tert-Amyl methyl ether	ND	0.0063	mg/kg dry	1	7G23002	07/17/07	07/23/07	EPA 8260B	
Benzene	ND	0.0063	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.025	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0063	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0063	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0063	"	"	"	"	"	"	
Ethanol	ND	0.13	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.0063	"	"	"	"	"	"	
Ethylbenzene	ND	0.0063	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0063	"	"	"	"	"	"	
Toluene	ND	0.0063	"	"	"	"	"	"	
Xylenes (total)	ND	0.0063	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane

102 % 70-120

Surrogate: 1,2-Dichloroethane-d4

107 % 65-135

Surrogate: Toluene-d8

104 % 75-120

Surrogate: 4-Bromofluorobenzene

95 % 60-120

CBI-W (MQG0624-08) Water Sampled: 07/17/07 10:25 Received: 07/17/07 19:25

tert-Amyl methyl ether	ND	0.50	ug/l	1	7G24009	07/24/07	07/24/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane

113 % 75-120

Surrogate: 1,2-Dichloroethane-d4

114 % 60-125

Surrogate: Toluene-d8

100 % 80-120

Surrogate: 4-Bromofluorobenzene

98 % 60-135

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CBI- 7.5'-8' (MQG0624-09) Soil Sampled: 07/17/07 09:54 Received: 07/17/07 19:25									
tert-Amyl methyl ether	ND	0.0063	mg/kg dry	1	7G23002	07/17/07	07/23/07	EPA 8260B	
Benzene	ND	0.0063	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.025	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0063	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0063	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0063	"	"	"	"	"	"	
Ethanol	ND	0.13	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.0063	"	"	"	"	"	"	
Ethylbenzene	ND	0.0063	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0063	"	"	"	"	"	"	
Toluene	ND	0.0063	"	"	"	"	"	"	
Xylenes (total)	ND	0.0063	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %	70-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	65-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	75-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98 %	60-120	"	"	"	"	"	
CBI- 11.5'-12' (MQG0624-10) Soil Sampled: 07/17/07 09:56 Received: 07/17/07 19:25									
tert-Amyl methyl ether	ND	0.0060	mg/kg dry	1	7G23002	07/17/07	07/23/07	EPA 8260B	
Benzene	ND	0.0060	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.024	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0060	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0060	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0060	"	"	"	"	"	"	
Ethanol	ND	0.12	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.0060	"	"	"	"	"	"	
Ethylbenzene	ND	0.0060	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0060	"	"	"	"	"	"	
Toluene	ND	0.0060	"	"	"	"	"	"	
Xylenes (total)	ND	0.0060	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		101 %	70-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	65-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	75-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98 %	60-120	"	"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB1- 15.5'-16' (MQG0624-11) Soil Sampled: 07/17/07 09:58 Received: 07/17/07 19:25									
tert-Amyl methyl ether	ND	0.0064	mg/kg dry	1	7G23002	07/17/07	07/23/07	EPA 8260B	
Benzene	ND	0.0064	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.026	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0064	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0064	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0064	"	"	"	"	"	"	
Ethanol	ND	0.13	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.0064	"	"	"	"	"	"	
Ethylbenzene	ND	0.0064	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0064	"	"	"	"	"	"	
Toluene	ND	0.0064	"	"	"	"	"	"	
Xylenes (total)	ND	0.0064	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		106 %	70-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		115 %	65-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	75-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	60-120	"	"	"	"	"	
CB4-W (MQG0624-12) Water Sampled: 07/17/07 11:45 Received: 07/17/07 19:25									
tert-Amyl methyl ether	ND	0.50	ug/l	1	7G24009	07/24/07	07/24/07	EPA 8260B	
Benzene	1.0	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	20	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %	75-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	60-125	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94 %	60-135	"	"	"	"	"	

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TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB4 7.5'-8' (MQG0624-13) Soil Sampled: 07/17/07 11:22 Received: 07/17/07 19:25									
tert-Amyl methyl ether	ND	0.0058	mg/kg dry	1	7G23002	07/17/07	07/23/07	EPA 8260B	
Benzene	ND	0.0058	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.023	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0058	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0058	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0058	"	"	"	"	"	"	
Ethanol	ND	0.12	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.0058	"	"	"	"	"	"	
Ethylbenzene	ND	0.0058	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0058	"	"	"	"	"	"	
Toluene	ND	0.0058	"	"	"	"	"	"	
Xylenes (total)	ND	0.0058	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		105 %	70-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	65-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	75-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96 %	60-120	"	"	"	"	"	
CB4 11.5'-12' (MQG0624-14) Soil Sampled: 07/17/07 11:24 Received: 07/17/07 19:25									
tert-Amyl methyl ether	ND	0.0062	mg/kg dry	1	7G25030	07/17/07	07/25/07	EPA 8260B	
Benzene	ND	0.0062	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.025	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0062	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0062	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0062	"	"	"	"	"	"	
Ethanol	ND	0.12	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0062	"	"	"	"	"	"	
Ethylbenzene	ND	0.0062	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0062	"	"	"	"	"	"	
Toluene	ND	0.0062	"	"	"	"	"	"	
Xylenes (total)	ND	0.0062	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		105 %	70-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	65-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		107 %	75-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		128 %	60-120	"	"	"	"	"	LH,AY

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TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB4 15.5'-16' (MQG0624-15) Soil Sampled: 07/17/07 11:27 Received: 07/17/07 19:25									
tert-Amyl methyl ether	ND	0.0064	mg/kg dry	1	7G23002	07/17/07	07/23/07	EPA 8260B	
Benzene	ND	0.0064	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.026	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0064	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0064	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0064	"	"	"	"	"	"	
Ethanol	ND	0.13	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.0064	"	"	"	"	"	"	
Ethylbenzene	ND	0.0064	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0064	"	"	"	"	"	"	
Toluene	ND	0.0064	"	"	"	"	"	"	
Xylenes (total)	ND	0.0064	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		105 %	70-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		114 %	65-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		104 %	75-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	60-120	"	"	"	"	"	
CB5-W (MQG0624-16) Water Sampled: 07/17/07 12:30 Received: 07/17/07 19:25									
tert-Amyl methyl ether	3.9	0.50	ug/l	1	7G24009	07/24/07	07/24/07	EPA 8260B	
Benzene	2.1	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	70	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		99 %	75-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99 %	60-125	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	60-135	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB5 7.5'-8' (MQG0624-17) Soil Sampled: 07/17/07 12:07 Received: 07/17/07 19:25									
tert-Amyl methyl ether	ND	0.0059	mg/kg dry	1	7G23002	07/17/07	07/23/07	EPA 8260B	
Benzene	ND	0.0059	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.023	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0059	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0059	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0059	"	"	"	"	"	"	
Ethanol	ND	0.12	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.0059	"	"	"	"	"	"	
Ethylbenzene	ND	0.0059	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0059	"	"	"	"	"	"	
Toluene	ND	0.0059	"	"	"	"	"	"	
Xylenes (total)	ND	0.0059	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %	70-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		114 %	65-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	75-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97 %	60-120	"	"	"	"	"	
CB5 11.5'-12' (MQG0624-18) Soil Sampled: 07/17/07 12:09 Received: 07/17/07 19:25									
tert-Amyl methyl ether	ND	0.30	mg/kg dry	10	7G17039	07/17/07	07/26/07	EPA 8260B	
Benzene	ND	0.60	"	"	"	"	"	"	
tert-Butyl alcohol	ND	60	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.30	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.30	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.30	"	"	"	"	"	"	
Ethanol	ND	120	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.30	"	"	"	"	"	"	
Ethylbenzene	ND	0.60	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.30	"	"	"	"	"	"	
Toluene	ND	0.60	"	"	"	"	"	"	
Xylenes (total)	ND	0.60	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		93 %	70-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93 %	65-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97 %	75-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		116 %	60-120	"	"	"	"	"	

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2162, San Leandro, CA
Project Number: G0C2C-0017
Project Manager: Jay Johnson

MQG0624
Reported:
08/02/07 17:19

Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB5 15.5'-16' (MQG0624-19) Soil Sampled: 07/17/07 12:12 Received: 07/17/07 19:25									
tert-Amyl methyl ether	ND	0.0065	mg/kg dry	1	7G23002	07/17/07	07/23/07	EPA 8260B	
Benzene	ND	0.0065	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.026	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0065	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0065	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0065	"	"	"	"	"	"	
Ethanol	ND	0.13	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.0065	"	"	"	"	"	"	
Ethylbenzene	ND	0.0065	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0065	"	"	"	"	"	"	
Toluene	ND	0.0065	"	"	"	"	"	"	
Xylenes (total)	ND	0.0065	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		107 %	70-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	65-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	75-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99 %	60-120	"	"	"	"	"	

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MQG0624
Reported:
08/02/07 17:19

Conventional Chemistry Parameters by APHA/EPA Methods
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB3 7.5'-8' (MQG0624-02) Soil Sampled: 07/17/07 07:30 Received: 07/17/07 19:25									
Total Solids	82	1.0	%	1	7G23010	07/20/07	07/23/07	SM2540B	
CB3 11.5'-12' (MQG0624-03) Soil Sampled: 07/17/07 07:36 Received: 07/17/07 19:25									
Total Solids	82	1.0	%	1	7G23010	07/20/07	07/23/07	SM2540B	
CB3 15.5'-16' (MQG0624-04) Soil Sampled: 07/17/07 07:36 Received: 07/17/07 19:25									
Total Solids	79	1.0	%	1	7G23010	07/20/07	07/23/07	SM2540B	
CB2 11.5'-12' (MQG0624-06) Soil Sampled: 07/17/07 08:36 Received: 07/17/07 19:25									
Total Solids	87	1.0	%	1	7G23010	07/20/07	07/23/07	SM2540B	
CB2 15.5'-16' (MQG0624-07) Soil Sampled: 07/17/07 08:36 Received: 07/17/07 19:25									
Total Solids	79	1.0	%	1	7G23010	07/20/07	07/23/07	SM2540B	
CB1- 7.5'-8' (MQG0624-09) Soil Sampled: 07/17/07 09:54 Received: 07/17/07 19:25									
Total Solids	79	1.0	%	1	7G23010	07/20/07	07/23/07	SM2540B	
CB1- 11.5'-12' (MQG0624-10) Soil Sampled: 07/17/07 09:56 Received: 07/17/07 19:25									
Total Solids	83	1.0	%	1	7G23010	07/20/07	07/23/07	SM2540B	
CB1- 15.5'-16' (MQG0624-11) Soil Sampled: 07/17/07 09:58 Received: 07/17/07 19:25									
Total Solids	78	1.0	%	1	7G23010	07/20/07	07/23/07	SM2540B	
CB4 7.5'-8' (MQG0624-13) Soil Sampled: 07/17/07 11:22 Received: 07/17/07 19:25									
Total Solids	87	1.0	%	1	7G24006	07/23/07	07/24/07	SM2540B	

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Reported:
08/02/07 17:19

Conventional Chemistry Parameters by APHA/EPA Methods
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB4 11.5'-12' (MQG0624-14) Soil Sampled: 07/17/07 11:24 Received: 07/17/07 19:25									
Total Solids	81	1.0	%	1	7G24006	07/23/07	07/24/07	SM2540B	
CB4 15.5'-16' (MQG0624-15) Soil Sampled: 07/17/07 11:27 Received: 07/17/07 19:25									
Total Solids	78	1.0	%	1	7G24006	07/23/07	07/24/07	SM2540B	
CB5 7.5'-8' (MQG0624-17) Soil Sampled: 07/17/07 12:07 Received: 07/17/07 19:25									
Total Solids	85	1.0	%	1	7G24006	07/23/07	07/24/07	SM2540B	
CB5 11.5'-12' (MQG0624-18) Soil Sampled: 07/17/07 12:09 Received: 07/17/07 19:25									
Total Solids	83	1.0	%	1	7G24006	07/23/07	07/24/07	SM2540B	
CB5 15.5'-16' (MQG0624-19) Soil Sampled: 07/17/07 12:12 Received: 07/17/07 19:25									
Total Solids	77	1.0	%	1	7G24006	07/23/07	07/24/07	SM2540B	

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Reported:
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Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G17039 - EPA 5030B/5035A MeOH / LUFT GCMS

Blank (7G17039-BLK1)		Prepared: 07/17/07 Analyzed: 07/24/07								
Gasoline Range Organics (C4-C12)	ND	2.5	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.00223		"	0.00251		89	65-135			
Surrogate: 4-Bromofluorobenzene	0.00262		"	0.00251		104	60-120			
Surrogate: Dibromofluoromethane	0.00224		"	0.00251		89	70-120			
Surrogate: Toluene-d8	0.00248		"	0.00251		99	75-120			

Laboratory Control Sample (7G17039-BS2)		Prepared & Analyzed: 07/23/07								
Gasoline Range Organics (C4-C12)	36.6	2.5	mg/kg wet	50.2		73	45-135			
Surrogate: 1,2-Dichloroethane-d4	0.00214		"	0.00251		85	65-135			
Surrogate: 4-Bromofluorobenzene	0.00259		"	0.00251		103	60-120			
Surrogate: Dibromofluoromethane	0.00238		"	0.00251		95	70-120			
Surrogate: Toluene-d8	0.00245		"	0.00251		98	75-120			

Laboratory Control Sample Dup (7G17039-BSD2)		Prepared & Analyzed: 07/23/07								
Gasoline Range Organics (C4-C12)	28.1	2.5	mg/kg wet	50.1		56	45-135	26	40	
Surrogate: 1,2-Dichloroethane-d4	0.00219		"	0.00250		88	65-135			
Surrogate: 4-Bromofluorobenzene	0.00254		"	0.00250		102	60-120			
Surrogate: Dibromofluoromethane	0.00236		"	0.00250		94	70-120			
Surrogate: Toluene-d8	0.00248		"	0.00250		99	75-120			

Batch 7G21003 - EPA 5030B P/T / LUFT GCMS

Blank (7G21003-BLK1)		Prepared: 07/17/07 Analyzed: 07/21/07								
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.00544		"	0.00500		109	65-135			
Surrogate: 4-Bromofluorobenzene	0.00508		"	0.00500		102	60-120			
Surrogate: Dibromofluoromethane	0.00526		"	0.00500		105	70-120			
Surrogate: Toluene-d8	0.00508		"	0.00500		102	75-120			

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Reported:
08/02/07 17:19

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G21003 - EPA 5030B P/T / LUFT GCMS

Laboratory Control Sample (7G21003-BS2)			Prepared & Analyzed: 07/21/07							
Gasoline Range Organics (C4-C12)	0.973	0.10	mg/kg wet	1.00		97	45-135			
Surrogate: 1,2-Dichloroethane-d4	0.00538		"	0.00500		108	65-135			
Surrogate: 4-Bromofluorobenzene	0.00516		"	0.00500		103	60-120			
Surrogate: Dibromofluoromethane	0.00514		"	0.00500		103	70-120			
Surrogate: Toluene-d8	0.00512		"	0.00500		102	75-120			

Laboratory Control Sample Dup (7G21003-BS2)			Prepared & Analyzed: 07/21/07							
Gasoline Range Organics (C4-C12)	0.836	0.10	mg/kg wet	1.00		84	45-135	15	40	
Surrogate: 1,2-Dichloroethane-d4	0.00536		"	0.00500		107	65-135			
Surrogate: 4-Bromofluorobenzene	0.00516		"	0.00500		103	60-120			
Surrogate: Dibromofluoromethane	0.00504		"	0.00500		101	70-120			
Surrogate: Toluene-d8	0.00516		"	0.00500		103	75-120			

Batch 7G23002 - EPA 5030 (pres 48h)/5035 / LUFT GCMS

Blank (7G23002-BLK1)			Prepared & Analyzed: 07/23/07							
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.00512		"	0.00500		102	65-135			
Surrogate: 4-Bromofluorobenzene	0.00490		"	0.00500		98	60-120			
Surrogate: Dibromofluoromethane	0.00486		"	0.00500		97	70-120			
Surrogate: Toluene-d8	0.00508		"	0.00500		102	75-120			

Laboratory Control Sample (7G23002-BS2)			Prepared & Analyzed: 07/23/07							
Gasoline Range Organics (C4-C12)	1.01	0.10	mg/kg wet	1.00		101	45-135			
Surrogate: 1,2-Dichloroethane-d4	0.00512		"	0.00500		102	65-135			
Surrogate: 4-Bromofluorobenzene	0.00526		"	0.00500		105	60-120			
Surrogate: Dibromofluoromethane	0.00506		"	0.00500		101	70-120			
Surrogate: Toluene-d8	0.00522		"	0.00500		104	75-120			

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Reported:
08/02/07 17:19

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G23002 - EPA 5030 (pres 48h)/5035 / LUFT GCMS

Laboratory Control Sample Dup (7G23002-BSD2)				Prepared & Analyzed: 07/23/07						
Gasoline Range Organics (C4-C12)	0.993	0.10	mg/kg wet	1.00		99	45-135	1	40	
Surrogate: 1,2-Dichloroethane-d4	0.00518		"	0.00500		104	65-135			
Surrogate: 4-Bromofluorobenzene	0.00510		"	0.00500		102	60-120			
Surrogate: Dibromofluoromethane	0.00498		"	0.00500		100	70-120			
Surrogate: Toluene-d8	0.00516		"	0.00500		103	75-120			

Batch 7G24009 - EPA 5030B P/T / LUFT GCMS

Blank (7G24009-BLK1)				Prepared & Analyzed: 07/24/07						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.68		"	2.50		107	60-125			
Surrogate: Dibromofluoromethane	2.65		"	2.50		106	75-120			
Surrogate: Toluene-d8	2.49		"	2.50		100	80-120			
Surrogate: 4-Bromofluorobenzene	2.49		"	2.50		100	60-135			

Laboratory Control Sample (7G24009-BS2)				Prepared & Analyzed: 07/24/07						
Gasoline Range Organics (C4-C12)	405	50	ug/l	500		81	65-120			
Surrogate: 1,2-Dichloroethane-d4	2.52		"	2.50		101	60-125			
Surrogate: Dibromofluoromethane	2.43		"	2.50		97	75-120			
Surrogate: Toluene-d8	2.60		"	2.50		104	80-120			
Surrogate: 4-Bromofluorobenzene	2.59		"	2.50		104	60-135			

Laboratory Control Sample Dup (7G24009-BSD2)				Prepared & Analyzed: 07/24/07						
Gasoline Range Organics (C4-C12)	409	50	ug/l	500		82	65-120	1	20	
Surrogate: 1,2-Dichloroethane-d4	2.67		"	2.50		107	60-125			
Surrogate: Dibromofluoromethane	2.50		"	2.50		100	75-120			
Surrogate: Toluene-d8	2.58		"	2.50		103	80-120			
Surrogate: 4-Bromofluorobenzene	2.70		"	2.50		108	60-135			

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Reported:
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Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G25030 - EPA 5030 (pres 48h)/5035 / LUFT GCMS

Blank (7G25030-BLK1) Prepared & Analyzed: 07/25/07

Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.00518		"	0.00500		104	65-135			
Surrogate: 4-Bromofluorobenzene	0.00402		"	0.00500		80	60-120			
Surrogate: Dibromofluoromethane	0.00494		"	0.00500		99	70-120			
Surrogate: Toluene-d8	0.00468		"	0.00500		94	75-120			

Laboratory Control Sample (7G25030-BS2) Prepared & Analyzed: 07/25/07

Gasoline Range Organics (C4-C12)	0.703	0.10	mg/kg wet	1.00		70	45-135			
Surrogate: 1,2-Dichloroethane-d4	0.00500		"	0.00500		100	65-135			
Surrogate: 4-Bromofluorobenzene	0.00476		"	0.00500		95	60-120			
Surrogate: Dibromofluoromethane	0.00488		"	0.00500		98	70-120			
Surrogate: Toluene-d8	0.00514		"	0.00500		103	75-120			

Laboratory Control Sample Dup (7G25030-BSD2) Prepared & Analyzed: 07/25/07

Gasoline Range Organics (C4-C12)	0.799	0.10	mg/kg wet	1.00		80	45-135	13	40	
Surrogate: 1,2-Dichloroethane-d4	0.00532		"	0.00500		106	65-135			
Surrogate: 4-Bromofluorobenzene	0.00484		"	0.00500		97	60-120			
Surrogate: Dibromofluoromethane	0.00510		"	0.00500		102	70-120			
Surrogate: Toluene-d8	0.00514		"	0.00500		103	75-120			

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MQG0624
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Extractable Hydrocarbons by EPA 8015B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G20025 - EPA 3550B / EPA 8015B-SVOA

Blank (7G20025-BLK1) Prepared & Analyzed: 07/20/07										
Diesel Range Organics (C10-C36)	ND	1.0	mg/kg wet							
Surrogate: n-Octacosane	1.49		"	1.67		90	40-120			
Laboratory Control Sample (7G20025-BS1) Prepared & Analyzed: 07/20/07										
Diesel Range Organics (C10-C36)	13.4	1.0	mg/kg wet	16.7		80	65-120			
Surrogate: n-Octacosane	1.42		"	1.67		85	40-120			
Laboratory Control Sample Dup (7G20025-BSD1) Prepared & Analyzed: 07/20/07										
Diesel Range Organics (C10-C36)	13.2	1.0	mg/kg wet	16.7		79	65-120	1	40	
Surrogate: n-Octacosane	1.39		"	1.67		84	40-120			

Batch 7G24020 - EPA 3510C / EPA 8015B-SVOA

Blank (7G24020-BLK1) Prepared: 07/24/07 Analyzed: 07/30/07										
Diesel Range Organics (C10-C36)	ND	50	ug/l							
Surrogate: n-Octacosane	35.9		"	50.0		72	30-115			
Laboratory Control Sample (7G24020-BS1) Prepared: 07/24/07 Analyzed: 07/30/07										
Diesel Range Organics (C10-C36)	344	50	ug/l	500		69	40-115			
Surrogate: n-Octacosane	28.7		"	50.0		57	30-115			
Laboratory Control Sample Dup (7G24020-BSD1) Prepared: 07/24/07 Analyzed: 07/30/07										
Diesel Range Organics (C10-C36)	347	50	ug/l	500		69	40-115	0.7	25	
Surrogate: n-Octacosane	30.8		"	50.0		62	30-115			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G17039 - EPA 5030B/5035A MeOH / EPA 8260B

Blank (7G17039-BLK1)

Prepared: 07/17/07 Analyzed: 07/24/07

tert-Amyl methyl ether	ND	0.025	mg/kg wet							
Benzene	ND	0.050	"							
tert-Butyl alcohol	ND	5.0	"							
Di-isopropyl ether	ND	0.025	"							
1,2-Dibromoethane (EDB)	ND	0.025	"							
1,2-Dichloroethane	ND	0.025	"							
Ethanol	15.1	10	"							
Ethyl tert-butyl ether	ND	0.025	"							
Ethylbenzene	ND	0.050	"							
Methyl tert-butyl ether	ND	0.025	"							
Toluene	ND	0.050	"							
Xylenes (total)	ND	0.050	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00224</i>		<i>"</i>	<i>0.00251</i>		<i>89</i>	<i>70-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00223</i>		<i>"</i>	<i>0.00251</i>		<i>89</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00248</i>		<i>"</i>	<i>0.00251</i>		<i>99</i>	<i>75-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00262</i>		<i>"</i>	<i>0.00251</i>		<i>104</i>	<i>60-120</i>			

Laboratory Control Sample (7G17039-BS1)

Prepared & Analyzed: 07/23/07

tert-Amyl methyl ether	0.906	0.025	mg/kg wet	1.00		90	65-140			
Benzene	0.938	0.050	"	1.00		93	70-140			
tert-Butyl alcohol	18.6	5.0	"	20.1		92	75-130			
Di-isopropyl ether	0.936	0.025	"	1.00		93	60-135			
1,2-Dibromoethane (EDB)	0.950	0.025	"	1.00		95	70-145			
1,2-Dichloroethane	0.923	0.025	"	1.00		92	75-130			
Ethanol	23.3	10	"	20.1		116	50-150			
Ethyl tert-butyl ether	0.956	0.025	"	1.00		95	70-125			
Ethylbenzene	0.968	0.050	"	1.00		96	75-140			
Methyl tert-butyl ether	0.846	0.025	"	1.00		84	75-130			
Toluene	0.910	0.050	"	1.00		91	75-135			
Xylenes (total)	2.88	0.050	"	3.01		96	75-145			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00236</i>		<i>"</i>	<i>0.00251</i>		<i>94</i>	<i>70-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00238</i>		<i>"</i>	<i>0.00251</i>		<i>95</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00241</i>		<i>"</i>	<i>0.00251</i>		<i>96</i>	<i>75-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00245</i>		<i>"</i>	<i>0.00251</i>		<i>98</i>	<i>60-120</i>			

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2162, San Leandro, CA
Project Number: G0C2C-0017
Project Manager: Jay Johnson

MQG0624
Reported:
08/02/07 17:19

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G17039 - EPA 5030B/5035A MeOH / EPA 8260B

Laboratory Control Sample Dup (7G17039-BSD1)

Prepared & Analyzed: 07/23/07

tert-Amyl methyl ether	1.03	0.025	mg/kg wet	1.00		103	65-140	13	25	
Benzene	1.03	0.050	"	1.00		103	70-140	9	25	
tert-Butyl alcohol	19.9	5.0	"	20.0		99	75-130	7	25	
Di-isopropyl ether	1.09	0.025	"	1.00		109	60-135	15	40	
1,2-Dibromoethane (EDB)	1.03	0.025	"	1.00		103	70-145	8	30	
1,2-Dichloroethane	1.08	0.025	"	1.00		108	75-130	16	25	
Ethanol	31.7	10	"	20.0		158	50-150	31	30	BA, LQ
Ethyl tert-butyl ether	1.00	0.025	"	1.00		100	70-125	5	30	
Ethylbenzene	1.03	0.050	"	1.00		103	75-140	6	30	
Methyl tert-butyl ether	1.01	0.025	"	1.00		101	75-130	17	25	
Toluene	1.09	0.050	"	1.00		109	75-135	18	25	
Xylenes (total)	3.01	0.050	"	3.00		100	75-145	4	30	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00233</i>		"	<i>0.00250</i>		<i>93</i>	<i>70-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00244</i>		"	<i>0.00250</i>		<i>98</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00239</i>		"	<i>0.00250</i>		<i>96</i>	<i>75-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00238</i>		"	<i>0.00250</i>		<i>95</i>	<i>60-120</i>			

Batch 7G21003 - EPA 5030B P/T / EPA 8260B

Blank (7G21003-BLK1)

Prepared: 07/17/07 Analyzed: 07/21/07

tert-Amyl methyl ether	ND	0.0050	mg/kg wet							
Benzene	ND	0.0050	"							
tert-Butyl alcohol	ND	0.020	"							
Di-isopropyl ether	ND	0.0050	"							
1,2-Dibromoethane (EDB)	ND	0.0050	"							
1,2-Dichloroethane	ND	0.0050	"							
Ethanol	ND	0.10	"							
Ethyl tert-butyl ether	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Methyl tert-butyl ether	ND	0.0050	"							
Toluene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00526</i>		"	<i>0.00500</i>		<i>105</i>	<i>70-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00544</i>		"	<i>0.00500</i>		<i>109</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00508</i>		"	<i>0.00500</i>		<i>102</i>	<i>75-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00508</i>		"	<i>0.00500</i>		<i>102</i>	<i>60-120</i>			

TestAmerica - Morgan Hill, CA

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Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2162, San Leandro, CA
Project Number: G0C2C-0017
Project Manager: Jay Johnson

MQG0624
Reported:
08/02/07 17:19

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G21003 - EPA 5030B P/T / EPA 8260B

Laboratory Control Sample (7G21003-BS1)

Prepared & Analyzed: 07/21/07

tert-Amyl methyl ether	0.0219	0.0050	mg/kg wet	0.0200		110	65-140			
Benzene	0.0213	0.0050	"	0.0200		106	70-140			
tert-Butyl alcohol	0.402	0.020	"	0.400		100	75-130			
Di-isopropyl ether	0.0219	0.0050	"	0.0200		110	60-135			
1,2-Dibromoethane (EDB)	0.0220	0.0050	"	0.0200		110	70-145			
1,2-Dichloroethane	0.0226	0.0050	"	0.0200		113	75-130			
Ethanol	0.335	0.10	"	0.400		84	50-150			
Ethyl tert-butyl ether	0.0225	0.0050	"	0.0200		112	70-125			
Ethylbenzene	0.0225	0.0050	"	0.0200		113	75-140			
Methyl tert-butyl ether	0.0223	0.0050	"	0.0200		112	75-130			
Toluene	0.0216	0.0050	"	0.0200		108	75-135			
Xylenes (total)	0.0651	0.0050	"	0.0600		108	75-145			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00524</i>		"	<i>0.00500</i>		<i>105</i>	<i>70-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00560</i>		"	<i>0.00500</i>		<i>112</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00516</i>		"	<i>0.00500</i>		<i>103</i>	<i>75-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00512</i>		"	<i>0.00500</i>		<i>102</i>	<i>60-120</i>			

Matrix Spike (7G21003-MS1)

Source: MQG0640-03

Prepared & Analyzed: 07/21/07

tert-Amyl methyl ether	0.0234	0.0050	mg/kg wet	0.0200	ND	117	65-140			
Benzene	0.0208	0.0050	"	0.0200	ND	104	70-140			
tert-Butyl alcohol	0.360	0.020	"	0.400	ND	90	75-130			
Di-isopropyl ether	0.0220	0.0050	"	0.0200	ND	110	60-135			
1,2-Dibromoethane (EDB)	0.0219	0.0050	"	0.0200	ND	109	70-145			
1,2-Dichloroethane	0.0224	0.0050	"	0.0200	ND	112	75-130			
Ethanol	0.326	0.10	"	0.400	ND	82	50-150			
Ethyl tert-butyl ether	0.0236	0.0050	"	0.0200	ND	118	70-125			
Ethylbenzene	0.0216	0.0050	"	0.0200	0.000920	104	75-140			
Methyl tert-butyl ether	0.0247	0.0050	"	0.0200	ND	124	75-130			
Toluene	0.0204	0.0050	"	0.0200	0.000360	100	75-135			
Xylenes (total)	0.0626	0.0050	"	0.0600	0.00692	93	75-145			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00550</i>		"	<i>0.00500</i>		<i>110</i>	<i>70-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00568</i>		"	<i>0.00500</i>		<i>114</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00520</i>		"	<i>0.00500</i>		<i>104</i>	<i>75-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00506</i>		"	<i>0.00500</i>		<i>101</i>	<i>60-120</i>			

Stratus Environmental Inc. [Arco]
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Project Manager: Jay Johnson

MQG0624
Reported:
08/02/07 17:19

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G21003 - EPA 5030B P/T / EPA 8260B

Matrix Spike Dup (7G21003-MSD1)	Source: MQG0640-03	Prepared & Analyzed: 07/21/07								
tert-Amyl methyl ether	0.0222	0.0050	mg/kg wet	0.0200	ND	111	65-140	5	25	
Benzene	0.0210	0.0050	"	0.0200	ND	105	70-140	1	25	
tert-Butyl alcohol	0.387	0.020	"	0.400	ND	97	75-130	7	25	
Di-isopropyl ether	0.0222	0.0050	"	0.0200	ND	111	60-135	1	40	
1,2-Dibromoethane (EDB)	0.0211	0.0050	"	0.0200	ND	105	70-145	4	30	
1,2-Dichloroethane	0.0218	0.0050	"	0.0200	ND	109	75-130	2	25	
Ethanol	0.307	0.10	"	0.400	ND	77	50-150	6	30	
Ethyl tert-butyl ether	0.0229	0.0050	"	0.0200	ND	114	70-125	3	30	
Ethylbenzene	0.0239	0.0050	"	0.0200	0.000920	115	75-140	10	30	
Methyl tert-butyl ether	0.0230	0.0050	"	0.0200	ND	115	75-130	7	25	
Toluene	0.0211	0.0050	"	0.0200	0.000360	104	75-135	4	25	
Xylenes (total)	0.0721	0.0050	"	0.0600	0.00692	109	75-145	14	30	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00522</i>		<i>"</i>	<i>0.00500</i>		<i>104</i>	<i>70-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00534</i>		<i>"</i>	<i>0.00500</i>		<i>107</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00508</i>		<i>"</i>	<i>0.00500</i>		<i>102</i>	<i>75-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00484</i>		<i>"</i>	<i>0.00500</i>		<i>97</i>	<i>60-120</i>			

Batch 7G23002 - EPA 5030 (pres 48h)/5035 / EPA 8260B

Blank (7G23002-BLK1)	Prepared & Analyzed: 07/23/07									
tert-Amyl methyl ether	ND	0.0050	mg/kg wet							
Benzene	ND	0.0050	"							
tert-Butyl alcohol	ND	0.020	"							
Di-isopropyl ether	ND	0.0050	"							
1,2-Dibromoethane (EDB)	ND	0.0050	"							
1,2-Dichloroethane	ND	0.0050	"							
Ethanol	ND	0.10	"							
Ethyl tert-butyl ether	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Methyl tert-butyl ether	ND	0.0050	"							
Toluene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00486</i>		<i>"</i>	<i>0.00500</i>		<i>97</i>	<i>70-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00512</i>		<i>"</i>	<i>0.00500</i>		<i>102</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00508</i>		<i>"</i>	<i>0.00500</i>		<i>102</i>	<i>75-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00490</i>		<i>"</i>	<i>0.00500</i>		<i>98</i>	<i>60-120</i>			

TestAmerica - Morgan Hill, CA

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3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2162, San Leandro, CA
Project Number: G0C2C-0017
Project Manager: Jay Johnson

MQG0624
Reported:
08/02/07 17:19

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G23002 - EPA 5030 (pres 48h)/5035 / EPA 8260B

Laboratory Control Sample (7G23002-BS1)

Prepared & Analyzed: 07/23/07

tert-Amyl methyl ether	0.0207	0.0050	mg/kg wet	0.0200		104	65-140			
Benzene	0.0198	0.0050	"	0.0200		99	70-140			
tert-Butyl alcohol	0.372	0.020	"	0.400		93	75-130			
Di-isopropyl ether	0.0204	0.0050	"	0.0200		102	60-135			
1,2-Dibromoethane (EDB)	0.0209	0.0050	"	0.0200		104	70-145			
1,2-Dichloroethane	0.0208	0.0050	"	0.0200		104	75-130			
Ethanol	0.349	0.10	"	0.400		87	50-150			
Ethyl tert-butyl ether	0.0211	0.0050	"	0.0200		105	70-125			
Ethylbenzene	0.0207	0.0050	"	0.0200		104	75-140			
Methyl tert-butyl ether	0.0206	0.0050	"	0.0200		103	75-130			
Toluene	0.0202	0.0050	"	0.0200		101	75-135			
Xylenes (total)	0.0593	0.0050	"	0.0600		99	75-145			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00532</i>		"	<i>0.00500</i>		<i>106</i>	<i>70-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00546</i>		"	<i>0.00500</i>		<i>109</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00524</i>		"	<i>0.00500</i>		<i>105</i>	<i>75-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00526</i>		"	<i>0.00500</i>		<i>105</i>	<i>60-120</i>			

Matrix Spike (7G23002-MS1)

Source: MQG0624-19

Prepared & Analyzed: 07/23/07

tert-Amyl methyl ether	0.0277	0.0065	mg/kg dry	0.0259	ND	107	65-140			
Benzene	0.0279	0.0065	"	0.0259	0.000336	106	70-140			
tert-Butyl alcohol	0.508	0.026	"	0.517	ND	98	75-130			
Di-isopropyl ether	0.0282	0.0065	"	0.0259	ND	109	60-135			
1,2-Dibromoethane (EDB)	0.0273	0.0065	"	0.0259	ND	106	70-145			
1,2-Dichloroethane	0.0288	0.0065	"	0.0259	ND	111	75-130			
Ethanol	0.431	0.13	"	0.517	ND	83	50-150			
Ethyl tert-butyl ether	0.0287	0.0065	"	0.0259	ND	111	70-125			
Ethylbenzene	0.0306	0.0065	"	0.0259	0.000517	116	75-140			
Methyl tert-butyl ether	0.0321	0.0065	"	0.0259	0.00341	111	75-130			
Toluene	0.0288	0.0065	"	0.0259	0.00111	107	75-135			
Xylenes (total)	0.0874	0.0065	"	0.0776	0.00222	110	75-145			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00654</i>		"	<i>0.00646</i>		<i>101</i>	<i>70-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00711</i>		"	<i>0.00646</i>		<i>110</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00693</i>		"	<i>0.00646</i>		<i>107</i>	<i>75-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00672</i>		"	<i>0.00646</i>		<i>104</i>	<i>60-120</i>			

Stratus Environmental Inc. [Arco]
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Cameron Park CA, 95682

Project: ARCO #2162, San Leandro, CA
Project Number: G0C2C-0017
Project Manager: Jay Johnson

MQG0624
Reported:
08/02/07 17:19

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G23002 - EPA 5030 (pres 48h)/5035 / EPA 8260B

Matrix Spike Dup (7G23002-MSD1)	Source: MQG0624-19	Prepared & Analyzed: 07/23/07								
tert-Amyl methyl ether	0.0271	0.0065	mg/kg dry	0.0259	ND	105	65-140	2	25	
Benzene	0.0278	0.0065	"	0.0259	0.000336	106	70-140	0.4	25	
tert-Butyl alcohol	0.539	0.026	"	0.517	ND	104	75-130	6	25	
Di-isopropyl ether	0.0279	0.0065	"	0.0259	ND	108	60-135	0.9	40	
1,2-Dibromoethane (EDB)	0.0259	0.0065	"	0.0259	ND	100	70-145	5	30	
1,2-Dichloroethane	0.0286	0.0065	"	0.0259	ND	111	75-130	0.5	25	
Ethanol	0.487	0.13	"	0.517	ND	94	50-150	12	30	
Ethyl tert-butyl ether	0.0284	0.0065	"	0.0259	ND	110	70-125	1	30	
Ethylbenzene	0.0307	0.0065	"	0.0259	0.000517	117	75-140	0.3	30	
Methyl tert-butyl ether	0.0304	0.0065	"	0.0259	0.00341	104	75-130	6	25	
Toluene	0.0287	0.0065	"	0.0259	0.00111	106	75-135	0.4	25	
Xylenes (total)	0.0883	0.0065	"	0.0776	0.00222	111	75-145	1	30	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00678</i>		<i>"</i>	<i>0.00646</i>		<i>105</i>	<i>70-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00683</i>		<i>"</i>	<i>0.00646</i>		<i>106</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00672</i>		<i>"</i>	<i>0.00646</i>		<i>104</i>	<i>75-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00683</i>		<i>"</i>	<i>0.00646</i>		<i>106</i>	<i>60-120</i>			

Batch 7G24009 - EPA 5030B P/T / EPA 8260B

Blank (7G24009-BLK1)	Prepared & Analyzed: 07/24/07									
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	300	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>2.65</i>		<i>"</i>	<i>2.50</i>		<i>106</i>	<i>75-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.68</i>		<i>"</i>	<i>2.50</i>		<i>107</i>	<i>60-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>2.49</i>		<i>"</i>	<i>2.50</i>		<i>100</i>	<i>80-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>2.49</i>		<i>"</i>	<i>2.50</i>		<i>100</i>	<i>60-135</i>			

TestAmerica - Morgan Hill, CA

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Reported:
08/02/07 17:19

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G24009 - EPA 5030B P/T / EPA 8260B

Laboratory Control Sample (7G24009-BS1)

Prepared & Analyzed: 07/24/07

tert-Amyl methyl ether	11.8	0.50	ug/l	10.0		118	65-135			
Benzene	10.9	0.50	"	10.0		109	75-120			
tert-Butyl alcohol	212	20	"	200		106	60-135			
Di-isopropyl ether	11.8	0.50	"	10.0		118	70-130			
1,2-Dibromoethane (EDB)	11.4	0.50	"	10.0		114	80-135			
1,2-Dichloroethane	11.2	0.50	"	10.0		112	70-125			
Ethanol	215	300	"	200		108	15-150			
Ethyl tert-butyl ether	11.8	0.50	"	10.0		118	65-130			
Ethylbenzene	11.7	0.50	"	10.0		117	75-120			
Methyl tert-butyl ether	11.4	0.50	"	10.0		114	50-140			
Toluene	11.8	0.50	"	10.0		118	75-120			
Xylenes (total)	36.3	0.50	"	30.0		121	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.49		"	2.50		100	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.46		"	2.50		98	60-125			
<i>Surrogate: Toluene-d8</i>	2.55		"	2.50		102	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.58		"	2.50		103	60-135			

Matrix Spike (7G24009-MS1)

Source: MQG0746-03

Prepared & Analyzed: 07/24/07

tert-Amyl methyl ether	12.3	0.50	ug/l	10.0	ND	123	65-135			
Benzene	10.7	0.50	"	10.0	ND	107	75-120			
tert-Butyl alcohol	243	20	"	200	28.2	108	60-135			
Di-isopropyl ether	12.0	0.50	"	10.0	ND	120	70-130			
1,2-Dibromoethane (EDB)	11.6	0.50	"	10.0	ND	116	80-135			
1,2-Dichloroethane	11.4	0.50	"	10.0	ND	114	70-125			
Ethanol	195	300	"	200	ND	97	15-150			
Ethyl tert-butyl ether	12.2	0.50	"	10.0	ND	122	65-130			
Ethylbenzene	11.4	0.50	"	10.0	ND	114	75-120			
Methyl tert-butyl ether	12.1	0.50	"	10.0	ND	121	50-140			
Toluene	11.6	0.50	"	10.0	ND	116	75-120			
Xylenes (total)	35.0	0.50	"	30.0	ND	117	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.61		"	2.50		104	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.63		"	2.50		105	60-125			
<i>Surrogate: Toluene-d8</i>	2.53		"	2.50		101	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.68		"	2.50		107	60-135			

TestAmerica - Morgan Hill, CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2162, San Leandro, CA
Project Number: G0C2C-0017
Project Manager: Jay Johnson

MQG0624
Reported:
08/02/07 17:19

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G24009 - EPA 5030B P/T / EPA 8260B

Matrix Spike Dup (7G24009-MSD1)	Source: MQG0746-03	Prepared & Analyzed: 07/24/07							
tert-Amyl methyl ether	12.3	0.50 ug/l	10.0	ND	123	65-135	0.2	25	
Benzene	11.0	0.50	"	10.0	110	75-120	3	20	
tert-Butyl alcohol	247	20	"	200	28.2	110	60-135	2	25
Di-isopropyl ether	12.2	0.50	"	10.0	122	70-130	2	25	
1,2-Dibromoethane (EDB)	11.8	0.50	"	10.0	118	80-135	2	30	
1,2-Dichloroethane	11.7	0.50	"	10.0	117	70-125	2	25	
Ethanol	180	300	"	200	90	15-150	8	25	
Ethyl tert-butyl ether	12.3	0.50	"	10.0	123	65-130	2	25	
Ethylbenzene	11.5	0.50	"	10.0	115	75-120	1	20	
Methyl tert-butyl ether	12.0	0.50	"	10.0	120	50-140	0.7	25	
Toluene	11.7	0.50	"	10.0	117	75-120	0.6	25	
Xylenes (total)	35.4	0.50	"	30.0	118	75-130	1	20	
Surrogate: Dibromofluoromethane	2.63	"	2.50	105	75-120				
Surrogate: 1,2-Dichloroethane-d4	2.51	"	2.50	100	60-125				
Surrogate: Toluene-d8	2.54	"	2.50	102	80-120				
Surrogate: 4-Bromofluorobenzene	2.58	"	2.50	103	60-135				

Batch 7G25030 - EPA 5030 (pres 48h)/5035 / EPA 8260B

Blank (7G25030-BLK1)	Prepared & Analyzed: 07/25/07
tert-Amyl methyl ether	ND 0.0050 mg/kg wet
Benzene	ND 0.0050 "
tert-Butyl alcohol	ND 0.020 "
Di-isopropyl ether	ND 0.0050 "
1,2-Dibromoethane (EDB)	ND 0.0050 "
1,2-Dichloroethane	ND 0.0050 "
Ethanol	ND 0.10 "
Ethyl tert-butyl ether	ND 0.0050 "
Ethylbenzene	ND 0.0050 "
Methyl tert-butyl ether	ND 0.0050 "
Toluene	ND 0.0050 "
Xylenes (total)	ND 0.0050 "
Surrogate: Dibromofluoromethane	0.00494 " 0.00500 99 70-120
Surrogate: 1,2-Dichloroethane-d4	0.00518 " 0.00500 104 65-135
Surrogate: Toluene-d8	0.00468 " 0.00500 94 75-120
Surrogate: 4-Bromofluorobenzene	0.00402 " 0.00500 80 60-120

TestAmerica - Morgan Hill, CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2162, San Leandro, CA
Project Number: G0C2C-0017
Project Manager: Jay Johnson

MQG0624
Reported:
08/02/07 17:19

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G25030 - EPA 5030 (pres 48h)/5035 / EPA 8260B

Laboratory Control Sample (7G25030-BS1)

Prepared & Analyzed: 07/25/07

tert-Amyl methyl ether	0.0209	0.0050	mg/kg wet	0.0200		104	65-140			
Benzene	0.0209	0.0050	"	0.0200		104	70-140			
tert-Butyl alcohol	0.420	0.020	"	0.400		105	75-130			
Di-isopropyl ether	0.0226	0.0050	"	0.0200		113	60-135			
1,2-Dibromoethane (EDB)	0.0221	0.0050	"	0.0200		110	70-145			
1,2-Dichloroethane	0.0218	0.0050	"	0.0200		109	75-130			
Ethanol	0.549	0.10	"	0.400		137	50-150			
Ethyl tert-butyl ether	0.0203	0.0050	"	0.0200		102	70-125			
Ethylbenzene	0.0214	0.0050	"	0.0200		107	75-140			
Methyl tert-butyl ether	0.0212	0.0050	"	0.0200		106	75-130			
Toluene	0.0205	0.0050	"	0.0200		103	75-135			
Xylenes (total)	0.0637	0.0050	"	0.0600		106	75-145			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00532</i>		"	<i>0.00500</i>		<i>106</i>	<i>70-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00506</i>		"	<i>0.00500</i>		<i>101</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00490</i>		"	<i>0.00500</i>		<i>98</i>	<i>75-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00494</i>		"	<i>0.00500</i>		<i>99</i>	<i>60-120</i>			

Matrix Spike (7G25030-MS1)

Source: MQG0717-04

Prepared & Analyzed: 07/25/07

tert-Amyl methyl ether	0.0218	0.0050	mg/kg wet	0.0200	ND	109	65-140			
Benzene	0.0219	0.0050	"	0.0200	ND	109	70-140			
tert-Butyl alcohol	0.421	0.020	"	0.400	ND	105	75-130			
Di-isopropyl ether	0.0237	0.0050	"	0.0200	ND	119	60-135			
1,2-Dibromoethane (EDB)	0.0229	0.0050	"	0.0200	ND	114	70-145			
1,2-Dichloroethane	0.0218	0.0050	"	0.0200	ND	109	75-130			
Ethanol	0.530	0.10	"	0.400	ND	132	50-150			
Ethyl tert-butyl ether	0.0211	0.0050	"	0.0200	ND	106	70-125			
Ethylbenzene	0.0226	0.0050	"	0.0200	ND	113	75-140			
Methyl tert-butyl ether	0.0215	0.0050	"	0.0200	ND	108	75-130			
Toluene	0.0221	0.0050	"	0.0200	ND	110	75-135			
Xylenes (total)	0.0676	0.0050	"	0.0600	ND	113	75-145			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00518</i>		"	<i>0.00500</i>		<i>104</i>	<i>70-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00516</i>		"	<i>0.00500</i>		<i>103</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00498</i>		"	<i>0.00500</i>		<i>100</i>	<i>75-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00516</i>		"	<i>0.00500</i>		<i>103</i>	<i>60-120</i>			

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2162, San Leandro, CA
Project Number: G0C2C-0017
Project Manager: Jay Johnson

MQG0624
Reported:
08/02/07 17:19

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G25030 - EPA 5030 (pres 48h)/5035 / EPA 8260B

Matrix Spike Dup (7G25030-MSD1)	Source: MQG0717-04	Prepared & Analyzed: 07/25/07								
tert-Amyl methyl ether	0.0210	0.0050	mg/kg wet	0.0200	ND	105	65-140	4	25	
Benzene	0.0216	0.0050	"	0.0200	ND	108	70-140	1	25	
tert-Butyl alcohol	0.415	0.020	"	0.400	ND	104	75-130	2	25	
Di-isopropyl ether	0.0235	0.0050	"	0.0200	ND	117	60-135	1	40	
1,2-Dibromoethane (EDB)	0.0227	0.0050	"	0.0200	ND	114	70-145	0.7	30	
1,2-Dichloroethane	0.0218	0.0050	"	0.0200	ND	109	75-130	0	25	
Ethanol	0.554	0.10	"	0.400	ND	139	50-150	4	30	
Ethyl tert-butyl ether	0.0212	0.0050	"	0.0200	ND	106	70-125	0.6	30	
Ethylbenzene	0.0226	0.0050	"	0.0200	ND	113	75-140	0	30	
Methyl tert-butyl ether	0.0213	0.0050	"	0.0200	ND	106	75-130	1	25	
Toluene	0.0217	0.0050	"	0.0200	ND	108	75-135	2	25	
Xylenes (total)	0.0672	0.0050	"	0.0600	ND	112	75-145	0.5	30	
Surrogate: Dibromofluoromethane	0.00526		"	0.00500		105	70-120			
Surrogate: 1,2-Dichloroethane-d4	0.00512		"	0.00500		102	65-135			
Surrogate: Toluene-d8	0.00514		"	0.00500		103	75-120			
Surrogate: 4-Bromofluorobenzene	0.00534		"	0.00500		107	60-120			

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2162, San Leandro, CA
Project Number: G0C2C-0017
Project Manager: Jay Johnson

MQG0624
Reported:
08/02/07 17:19

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
TestAmerica - Morgan Hill, CA**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G23010 - General Preparation / SM2540B

Blank (7G23010-BLK1)				Prepared: 07/20/07 Analyzed: 07/23/07						
Total Solids	ND	1.0	%							
Duplicate (7G23010-DUP1)				Source: MQG0624-09 Prepared: 07/20/07 Analyzed: 07/23/07						
Total Solids	79.5	1.0	%		79.4			0.05	20	

Batch 7G24006 - General Preparation / SM2540B

Blank (7G24006-BLK1)				Prepared: 07/23/07 Analyzed: 07/24/07						
Total Solids	ND	1.0	%							
Duplicate (7G24006-DUP1)				Source: MQG0624-14 Prepared: 07/23/07 Analyzed: 07/24/07						
Total Solids	80.8	1.0	%		80.5			0.3	20	

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2162, San Leandro, CA
Project Number: G0C2C-0017
Project Manager: Jay Johnson

MQG0624
Reported:
08/02/07 17:19

Notes and Definitions

PT Hydrocarb. in req. fuel range, but doesn't resemble req. fuel

MB Analyte present in the method blank

LQ LCS recovery above method control limits.

LH,AY Surrogate recovery above the acceptance limits. Matrix interference suspected.

IC Calib. verif. is within method limits but outside contract limits

BF Reporting limits raised due to high hydrocarbon background

BA Relative percent difference out of control

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Atlantic Richfield Company



A BP affiliated company

Chain of Custody Record

Project Name: Arco Station # 2162
 BP BU/AR Region/Enfos Segment: BP Americas > West Coast > Reklam > Alameda > 2162
 State or Lead Regulatory Agency: Alameda County Health Care Services
 Requested Due Date (mm/dd/yy): 8-1-07 Agency

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

Lab Name: <u>Test America</u>	BP/AR Facility No.: <u>2162</u>	Consultant/Contractor: <u>Stratus Environmental, Inc</u>
Address: <u>885 Jarvis Dr.</u> <u>Morgan Hill, CA 95037</u>	BP/AR Facility Address: <u>15135 Hesperian Blvd, San Leandro</u>	Address: <u>3330 Canyon Park Dr. #550</u> <u>Canyon Park, CA 95682</u>
Lab PM: <u>Lisa Rice</u>	Site Lat/Long:	Consultant/Contractor Project No.: <u>E-2162</u>
Tele/Fax: <u>408-782-8156</u>	California Global ID No.: <u>TD600100084</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR EBM: <u>Paul Supple</u>	Enfos Project No.: <u>GOC2C-0017</u>	Tele/Fax: <u>930-676-6000</u>
Address: <u>2010 Cow Canyon Pl. #150</u> <u>San Ramon, CA</u>	Provision or OOC (circle one)	Report Type & QC Level: <u>Level 1 w/EDF</u>
Tele/Fax: <u>925-275-3506</u>	Phase/WBS: <u>01- assessment</u>	E-mail EDD To: <u>cjewitt@stratusinc.net</u>
	Sub Phase/Task: <u>03-analytical</u>	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)
	Cost Element: <u>01- contractor labor</u>	

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis						Sample Point Lat/Long and Comments		
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl (V2045)	Methanol	GLD	TPHD	BTEX	Sox's	etoh	1,2-DCA		EDB	
1	CB3-W	8:10	7-17	✓			-01	7	✓			✓			✓	✓	✓	✓	✓	✓		
2	CB3 7.5'-8'	7:50	7-17	✓			-02	1	✓			✓			✓	✓	✓	✓	✓	✓		
3	CB-3 11.5'-12'	7:36	7-17	✓			-03	1	✓			✓			✓	✓	✓	✓	✓	✓		
4	CB-3 15.5'-16'	7:36	7-17	✓			-04	1	✓			✓			✓	✓	✓	✓	✓	✓		
5	CB2-W	9:05	7-17		✓		-05	8	✓			✓			✓	✓	✓	✓	✓	✓		
6	CB2 11.8'-12'	8:36	7-17	✓			-06	1	✓			✓			✓	✓	✓	✓	✓	✓		
7	CB2-15.5'-16'	8:30	7-17	✓			-07	1	✓			✓			✓	✓	✓	✓	✓	✓		
8	CB1-W	10:25	7-17		✓		-08	7	✓			✓			✓	✓	✓	✓	✓	✓		
9	CB1-7.5'-8'	0954	7-17	✓			-09	1	✓			✓			✓	✓	✓	✓	✓	✓		
10	CB1-11.5'-12'	0956	7-17	✓			-10	1	✓			✓			✓	✓	✓	✓	✓	✓		

Sampler's Name: <u>Collin Fisher / Scott Bittinger</u>	Relinquished By / Affiliation: <u>Collin Fisher</u>	Date: <u>7/17</u>	Time: <u>1445</u>	Accepted By / Affiliation: <u>Rhonda / Test America</u>	Date: <u>7/17</u>	Time: <u>1445</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>	Special Test America	Date: <u>7/17</u>	Time: <u>1620</u>	Accepted By / Affiliation: <u>Jay Trax</u>	Date: <u>7/17/07</u>	Time: <u>1620</u>
Shipment Date: <u>7-17-07</u>	Stratus	Date: <u>7/17</u>	Time: <u>1915</u>	Accepted By / Affiliation: <u>Julie/TAMH</u>	Date: <u>7/17/07</u>	Time: <u>1925</u>
Shipment Method: <u>delivered to lab</u>						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place: Yes / (No) | Temp Blank: Yes / (No) | Cooler Temp on Receipt: 5.4 °F/C | Trip Blank: Yes / (No) | MS/MSD Sample Submitted: Yes / No



Chain of Custody Record

Project Name: Arco Station # 2162
 BP BU/AR Region/Enfos Segment: BP Americas West Coast Refil Alameda 2162
 State or Lead Regulatory Agency: Alameda County Health Care Services
 Requested Due Date (mm/dd/yy): 8-1-07 Agency

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

Lab Name: <u>Test America</u>	BP/AR Facility No.: <u>2162</u>	Consultant/Contractor: <u>Stratus Environmental, Inc</u>
Address: <u>885 Jarvis Dr. Morgan Hill, CA 95037</u>	BP/AR Facility Address: <u>15135 Hesperian Blvd, San Leandro</u>	Address: <u>3390 Cameron Park Dr. #550 Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Rice</u>	California Global ID No.: <u>TD600100084</u>	Consultant/Contractor Project No.: <u>E-2162</u>
Tele/Fax: <u>408-882-8156</u>	Enfos Project No.: <u>GOC2C-0617</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR EBM: <u>Paul Supple</u>	Provision of OOC (circle one)	Tele/Fax: <u>530-676-6000</u>
Address: <u>7010 Cow Canyon Pl. #150 San Ramon, CA</u>	Phase/WBS: <u>01-assessment</u>	Report Type & QC Level: <u>level 1 w/EDF</u>
Tele/Fax: <u>925-275-3506</u>	Sub Phase/Task: <u>03-analytical</u>	E-mail EDD To: <u>cjewitt@stratusinc.net</u>
	Cost Element: <u>01-contractor labor</u>	Invoice to: Consultant or BP of Atlantic Richfield Co. (circle one)

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis						Sample Point Lat/Long and Comments	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl (vovs)	Methanol	6/80	TPHD	Blex	5oxys	eTOH	1,2-DCA		ED6
1	CB1-15.5-16'	9:58	7-17	✓			-11	1	✓						✓	✓	✓	✓	✓	✓	
2	CB4-W	11:45	7-17		✓		-12	7	✓			✓			✓	✓	✓	✓	✓	✓	
3	CB4 7.5'-8'	11:22	7-17	✓			-13	1	✓						✓	✓	✓	✓	✓	✓	
4	CB4 11.5'-12'	11:24	7-17	✓			-14	1	✓						✓	✓	✓	✓	✓	✓	
5	CB4 15.5'-16'	11:27	7-17	✓			-15	1	✓						✓	✓	✓	✓	✓	✓	
6	CB5-W	12:30	7-17		✓		-16	7	✓			✓			✓	✓	✓	✓	✓	✓	
7	CB5 7.5'-8'	12:07	7-17	✓			-17	1	✓						✓	✓	✓	✓	✓	✓	
8	CB5 11.5'-12'	12:09	7-17	✓			-18	1	✓						✓	✓	✓	✓	✓	✓	
9	CB5 15.5'-16'	12:12	7-17	✓			-19	1	✓						✓	✓	✓	✓	✓	✓	
10																					

Sampler's Name: <u>Colin Fischer & Scott Bittlinger</u>	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>Stratus Environmental, Inc.</u>	<u>Colin Fischer</u>	<u>7/17</u>	<u>1445</u>	<u>Colin Fischer / Test America</u>	<u>7/17</u>	<u>1445</u>
Shipment Date: <u>7-17-07</u>	<u>Colin Fischer / Test America</u>	<u>7/17</u>	<u>1620</u>	<u>Jay Johnson</u>	<u>7/17/07</u>	<u>1620</u>
Shipment Method: <u>delivered to lab</u>	<u>Jay Johnson</u>	<u>7/17</u>	<u>1925</u>	<u>Julie Ramt</u>	<u>7/17/07</u>	<u>1925</u>
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 5.4 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARCO #2162
 REC. BY (PRINT) JULIE
 WORKORDER: MOG0624

DATE REC'D AT LAB: 7/17/07
 TIME REC'D AT LAB: 1925
 DATE LOGGED IN: 7/20/07

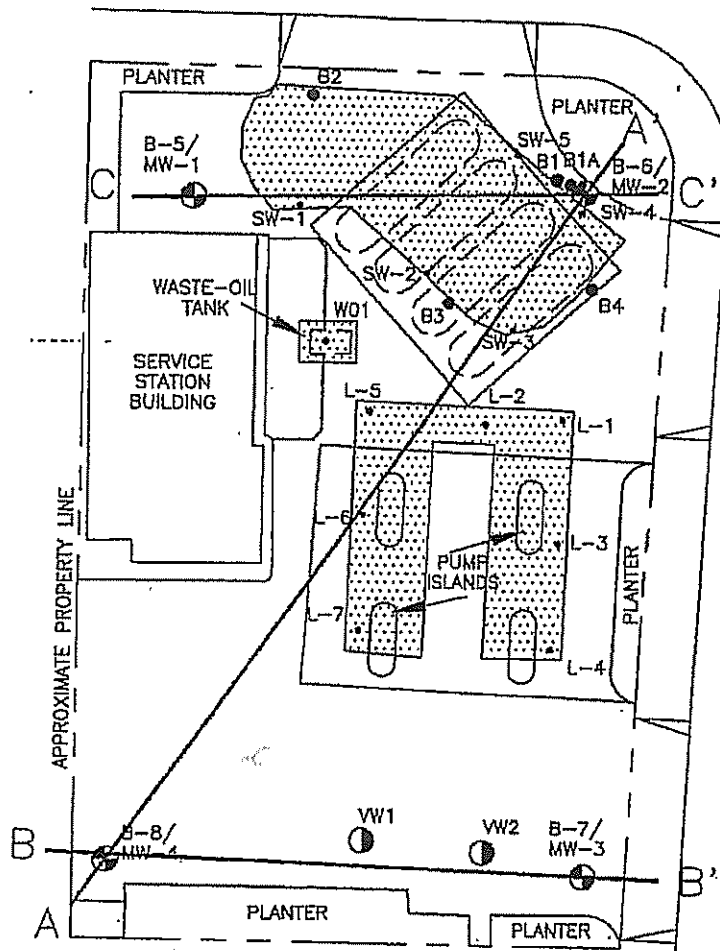
For Regulatory Purposes?
 DRINKING WATER YES / NO
 WASTE WATER YES / NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*		CB3-W	2(L) A	-	-	W	7/17/07	
2. Chain-of-Custody	Present / Absent*		CB3 7.5'-8'	5 VOAs	HCL		S		
3. Traffic Reports or Packing List:	Present / Absent		↓ 11.5'-12'	↓	↓		↓		
			↓ 15.5'-16'	↓	↓		↓		
4. Airbill:	Airbill / Sticker Present / Absent		CB2-W	2(L) A	-		W		
				6 VOAs	HCL		↓		
5. Airbill #:	-		CB2 11.5'-12'	1 plastic core	-		S		
6. Sample Labels:	Present / Absent		↓ 15.5'-16'	↓	↓		↓		
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody		CB1-W	2(L) A	-		W		
				5 VOAs	HCL		↓		
8. Sample Condition:	Intact / Broken* / Leaking*		CB1 7.5'-8'	1 plastic core	-		S		
			↓ 11.5'-12'	↓	↓		↓		
9. Does information on chain-of-custody, traffic reports and sample labels agree?	Yes / No*		↓ 15.5'-16'	↓	↓		↓		
			CB4-W	2(L) A	-		W		
				5 VOAs	HCL		↓		
10. Sample received within hold time?	Yes / No*		CB4 7.5'-8'	1 plastic core	-		S		
			↓ 11.5'-12'	↓	↓		↓		
11. Adequate sample volume received?	Yes / No*		↓ 15.5'-16'	↓	↓		↓		
			CB5-W	2(L) A	-		W		
12. Proper preservatives used?	Yes / No*			5 VOAs	HCL		↓		
13. Trip Blank / Temp Blank Received? (circle which, if yes)	Yes / No*		CB5 7.5'-8'	1 plastic core	-		S		
			↓ 11.5'-12'	↓	↓		↓		
14. Read Temp: <u>5.4°C</u>			↓ 15.5'-16'	↓	↓		↓		
Corrected Temp: <u>↓</u>									
Is corrected temp 4 +/-2°C? <u>Yes/No**</u>									
(Acceptance range for samples requiring thermal pres.)									
**Exception (if any): METALS / DFF ON ICE or Problem COC									
				Julie		7/18/07			

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.


APPENDIX B
GEOLOGIC CROSS-SECTIONS


RUTH COURT





HESPERIAN BOULEVARD

EXPLANATION


B-8/MW-4  = Monitoring well RESNA September 1992

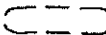
VW2  = Vapor extraction well (Roux Associates, Inc., 1991)

B4  = Soil boring (Roux Associates, Inc., 1991)

L-7  = Product line sample

SW-5  = Sidewall soil sample

 = Former underground storage tank and product line excavations

 = Existing underground storage tank



Approximate Scale



Source: Modified from site plan provided by Roux Associates, and survey data from John Koch, licensed land surveyor (9/16/92)

RESNA
Working to Restore Nature

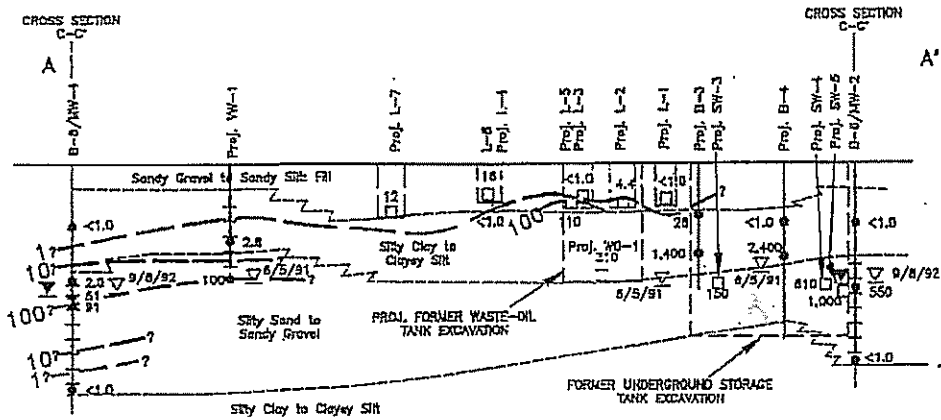
PROJECT 62019.02

GENERALIZED SITE PLAN
ARCO Station 2162
15135 Hesperian Boulevard
San Leandro, California

PLATE

2

ELEVATION IN FEET ABOVE MEAN SEA LEVEL (MSL)



EXPLANATION

- = Product line and tank excavations
- 100 = Line of equal concentration of TPHg in soil in parts per million (ppm)
- 1,000 = Laboratory analyzed product line excavation soil sample showing TPHg concentration in ppm
- 2,400 = Laboratory analyzed soil sample showing TPHg concentration in ppm
- = Well casing
- = Well screen
- = Boring
- = Initial water level
- = Static water level (10/16/92)

Approximate Vertical Scale



Approximate Horizontal Scale



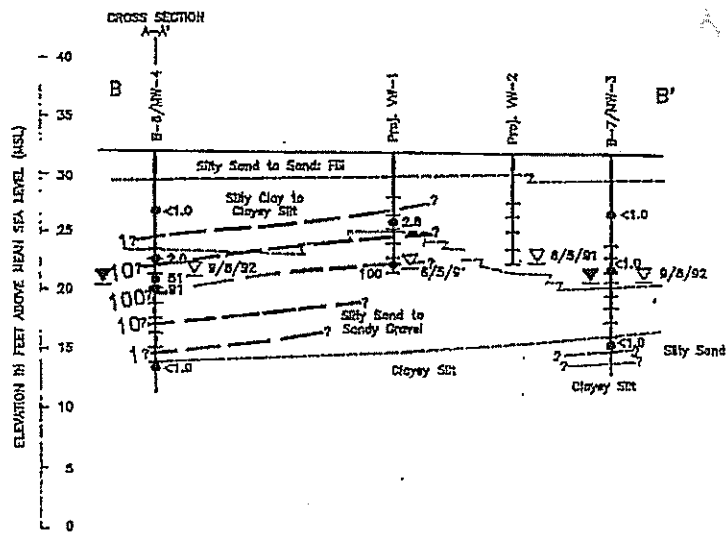
RESNA
Working to Restore Nature

PROJECT ©2019.C2

GEOLOGIC CROSS SECTION A-A'
ARCO Station 2182
15135 Hooperlan Boulevard
San Leandro, California

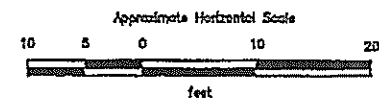
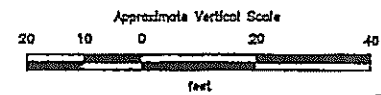
PLATE

8



EXPLANATION

- 100 — Line of equal concentration of TPHg in soil, in parts per million (ppm)
- 2,400 — Laboratory analyzed soil sample showing TPHg concentration in ppm
- Well casing
- Well screen
- Boring
- ▽ — Initial water level
- ▽ — Static water level (10/18/92)



RESNA
Working to Restore Nature

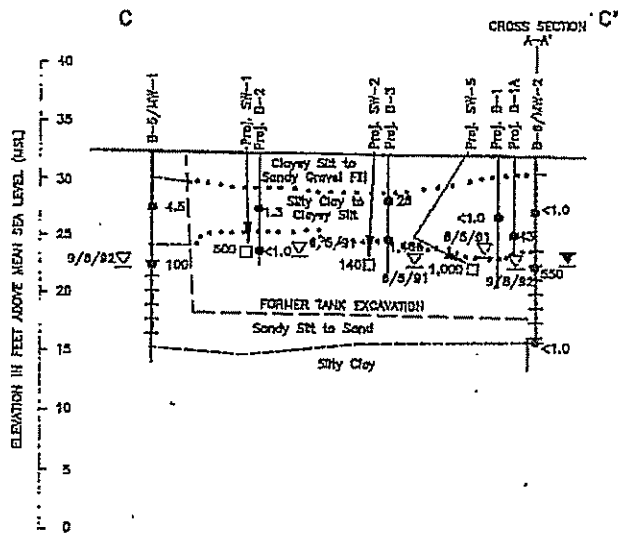
PROJECT

62019.02

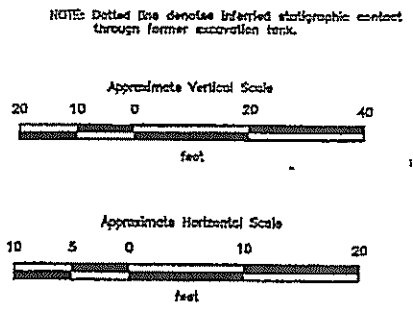
GEOLOGIC CROSS SECTION B-B'
ARCO Station 2102
16135 Neesperian Boulevard
San Leandro, California

PLATE

9



- EXPLANATION**
- = Product line and tank excavations
 - = Line of equal concentration of TPHg in soil, in parts per million (ppm)
 - = Laboratory analyzed tank excavation sidewall soil sample showing TPHg concentration in ppm
 - = Laboratory analyzed soil sample showing TPHg concentration in ppm
 - = Wall casing
 - = Wall screen
 - = Boring
 - = Initial water level
 - = Static water level (10/18/92)



RESNA
Working to Restore Nature

PROJECT G2019.02

GEOLOGIC CROSS SECTION C-C'
ARCO Station 2192
15135 Hesperian Boulevard
San Leandro, California

PLATE
10

APPENDIX C

GEOTRACKER UPLOAD CONFIRMATION REPORTS

Electronic Submittal Information

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

Your EDF file has been successfully uploaded!

Confirmation Number: 3720755577
Date/Time of Submittal: 9/17/2007 5:09:38 PM
Facility Global ID: T0600100084
Facility Name: ARCO #2162
Submittal Title: Soil & Water Samples 0707
Submittal Type: Soil & Water Investigation Report

[Click here to view the detections report for this upload.](#)

ARCO #2162
15135 HESPERIAN
SAN LEANDRO, CA 94578

Regional Board - Case #: 01-0091
SAN FRANCISCO BAY RWQCB (REGION 2)
Local Agency (lead agency) - Case #: RO0000190
ALAMEDA COUNTY LOP - (SP)

<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
3720755577	Soil & Water Samples 0707	Q3 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	9/17/2007	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	19
# FIELD POINTS WITH DETECTIONS	18
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	5
SAMPLE MATRIX TYPES	SOIL,WATER

METHOD QA/QC REPORT

METHODS USED	8260FA,8260TPH,A2540G,SW8015B,SW8260B
TESTED FOR REQUIRED ANALYTES?	Y
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	2
METHOD HOLDING TIME VIOLATIONS	2
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	1
LAB BLANK DETECTIONS	1
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	N
- MATRIX SPIKE DUPLICATE	N
- BLANK SPIKE	Y
- SURROGATE SPIKE - NON-STANDARD SURROGATE USED	Y

WATER SAMPLES FOR 8021/8260 SERIES

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

SOIL SAMPLES FOR 8021/8260 SERIES

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

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as BROADBENT-C (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.